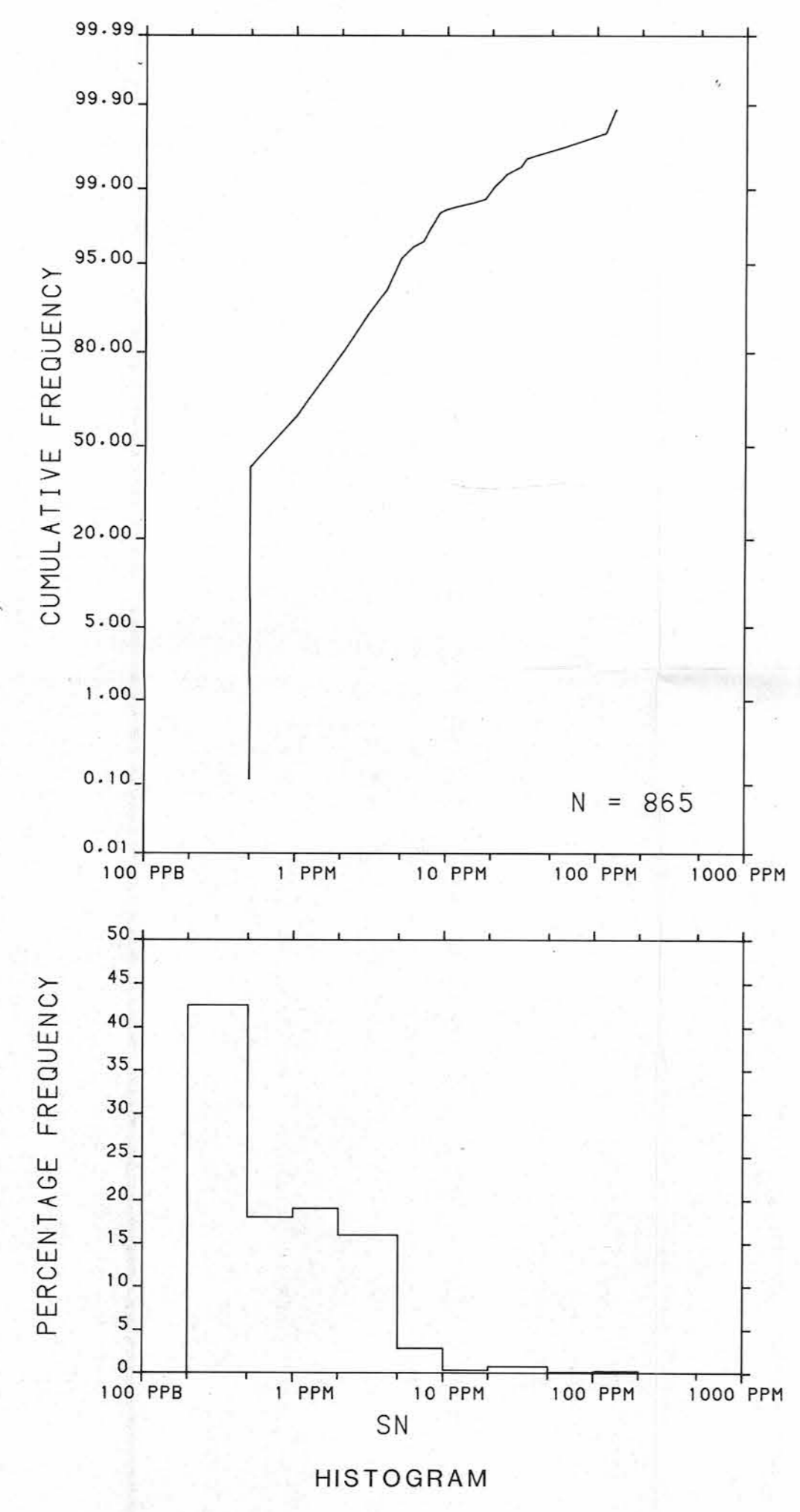


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically 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

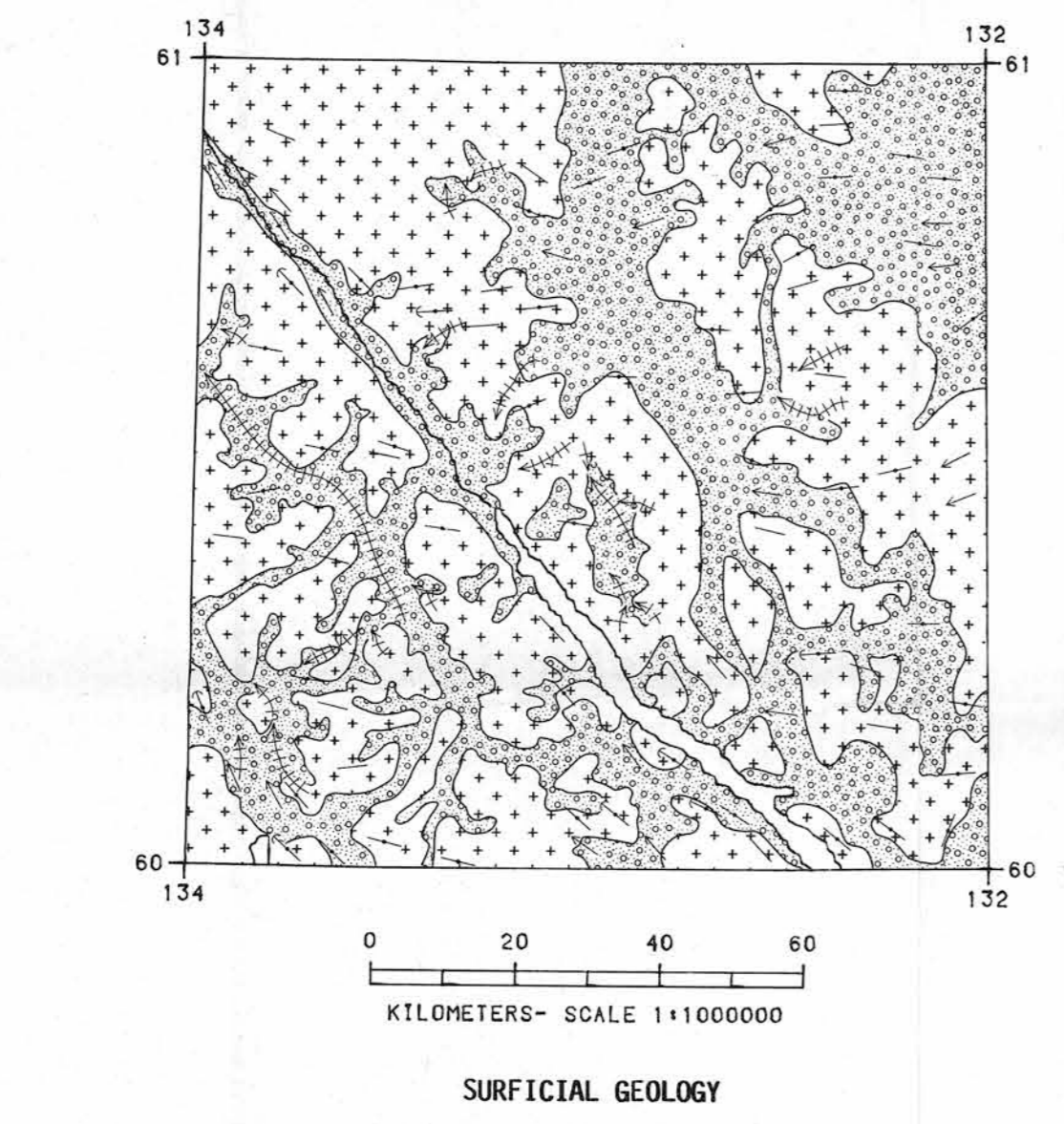
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location

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:

K.G. Campbell Corporation
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
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



Undivided surficial deposits; includes alluvium, glacial till, ground moraine, outwash and ice contact deposits, colluvium.

Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

SYMBOLS

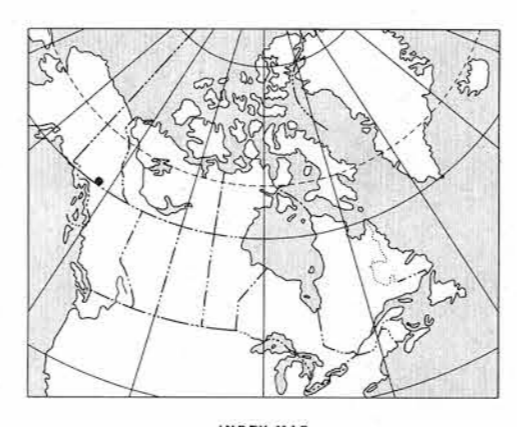
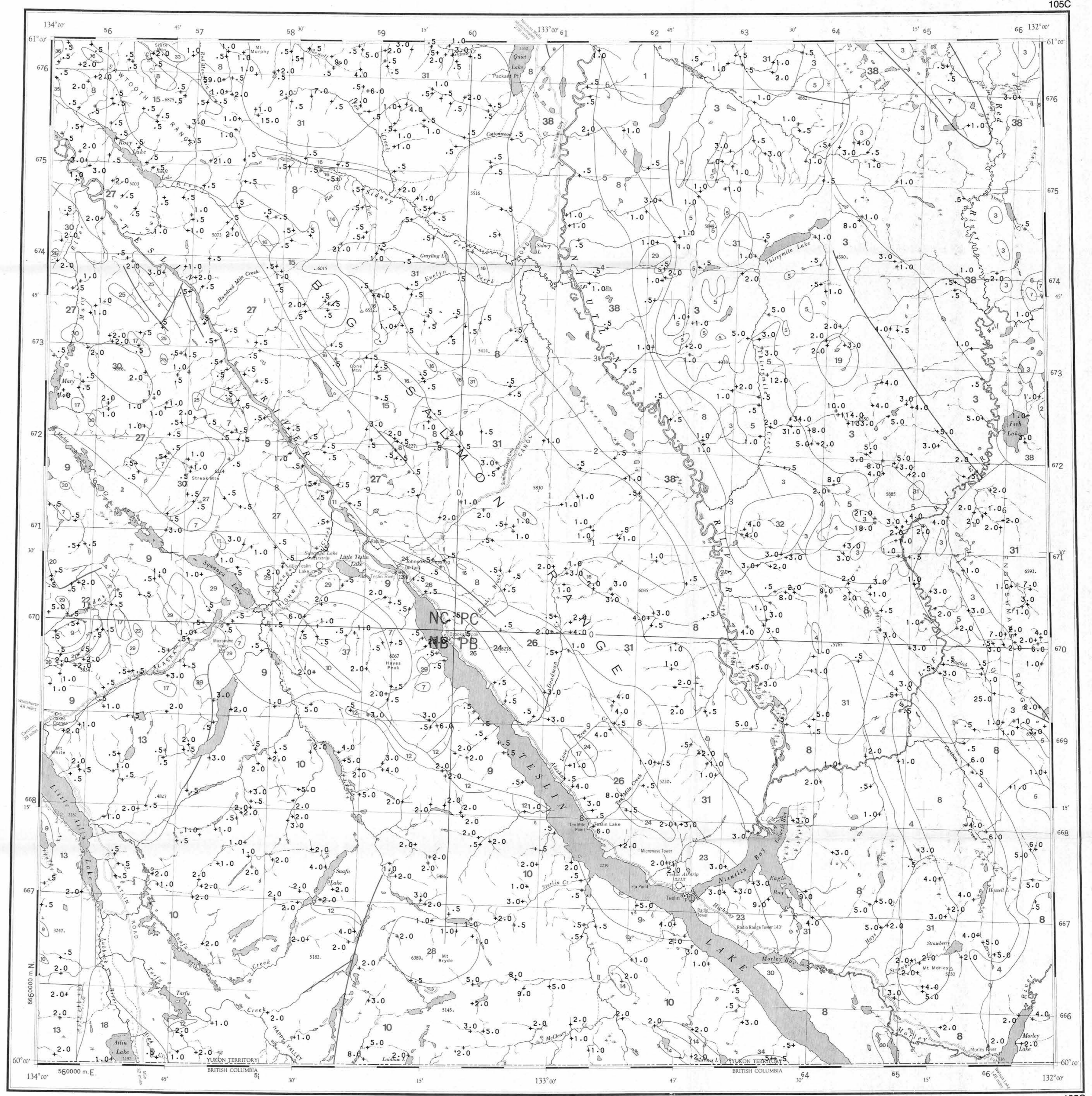
Surficial deposit boundary

Meltwater channels, outwash deposits, indicating direction of flow

Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown

Drumlinoid form, direction of movement inferred, not inferred

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.
Mulligan, R. (1963) Geology TESLIN, Yukon Territory, Geological Survey of Canada, Map 1125A (1:253 440 scale).
Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale).



Elevation in feet above mean sea level

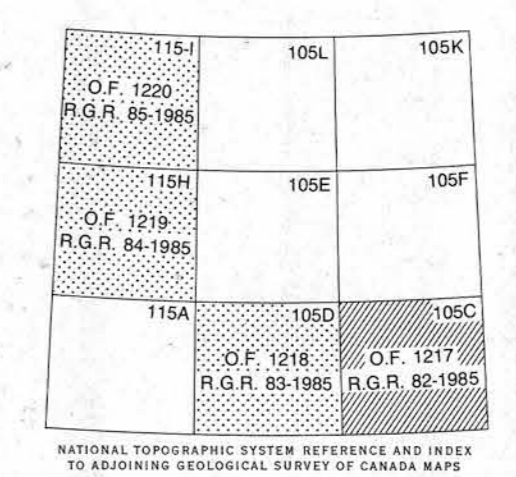
Mean magnetic declination 1986, 29°38' East, decreasing 15.3' annually. Readings vary from 29°23' E in the SE corner to 29°50' E in the NW corner of the map area

TIN (ppm)
GSC OPEN FILE 1217
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 82-1985
CANADA-YUKON
MINERAL DEVELOPMENT AGREEMENT (1984-89)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
SOUTHERN YUKON TERRITORY, 1985

Scale 1:250 000

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.



LEGEND

38	QS 64*	Glacial and surficial deposits
TERTIARY		
LATE TERTIARY		
37	LTG 62	Rhyolite porphyry, granite, granodiorite
PLIOCENE		
36	PV 62	Basalt
EOCENE		
MOUNT HANSEN GROUP		
35	EMN 59	Acid to intermediate tuff, breccia
SLOKO GROUP		
34	ESL 59	Rhyolite, trachyte
CRETACEOUS AND TERTIARY		
33	KTVO 56	Andesite and dacite porphyry
CRETACEOUS		
32	KY 52	Syenite, monzonite
31	KQM 52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
30	KGD 52	Granodiorite
JURASSIC AND CRETACEOUS		
29	JKDI 51	Diorite, hornblende diorite
28	JKB 51	Gabbro, diorite, some ultramafic rocks
TRIASSIC AND JURASSIC		
27	TJS 46	Argillite, sandstone, siltstone
26	TJSV 46	Volcanic and sedimentary rocks
25	TJC 46	Limestone
24	TJWP 46	Augite, hornblende feldspar porphyry
TRIASSIC		
23	TV 42	Basaltic greenstone
UPPER TRIASSIC		
LEWES RIVER GROUP (UTLM, UTC, UTLV)		
22	UTLM 45	Greywacke, argillite, conglomerate
21	UTC 45	Limestone
20	UTLV 45	Andesite, basalt
MESOZOIC UNDIVIDED		
19	MGD 41	Granodiorite, quartz monzonite
18	MGDM 41	Foliated hornblende granodiorite, quartz monzonite
PERMIAN AND TRIASSIC		
17	PTUB 40	Pyroxenite, serpentinite
PALEOZOIC UNDIVIDED		
16	PC 09	Limestone
15	PGM 09	PELLY GNEISS: Foliated to gneissic granodiorite
PERMIAN		
14	PT 36	TESLIN: Limestone
CARBONIFEROUS AND PERMIAN		
13	CPN 35	HORSEFEED: Limestone
12	CPK 35	KEDAHDA: Limestone
11	CPC 35	Limestone
10	CPK 35	KEDAHDA: Chert, argillite
9	CPV 35	Andesite, basalt, chert, tuff
8	CPSN 35	Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX
7	CPUR 35	Serpentine, diorite, pyroxenite, peridotite
PENNSYLVANIAN		
6	PG 33	Limestone
MISSISSIPPIAN		
5	MC 34	Limestone
CARBONIFEROUS		
4	CC 30	Limestone
ENGLISHMAN'S GROUP		
3	CE 30	Quartzite, phyllite, schist, chert, conglomerate, limestone
2	CTP 30	Chert, argillite, phyllite, quartzite
SILURIAN AND DEVONIAN		
1	SDOQ 24	Dolomite, quartzite, argillite

*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. Garbrielse, D.J. Tempehman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale