

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.

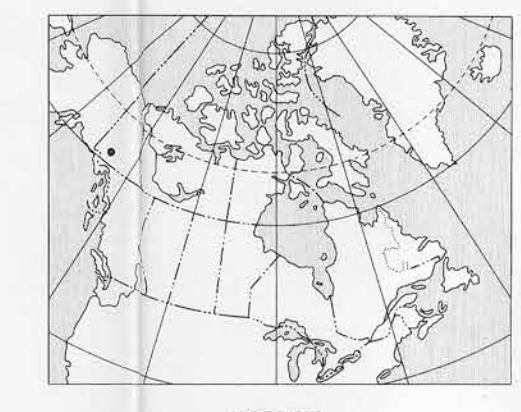
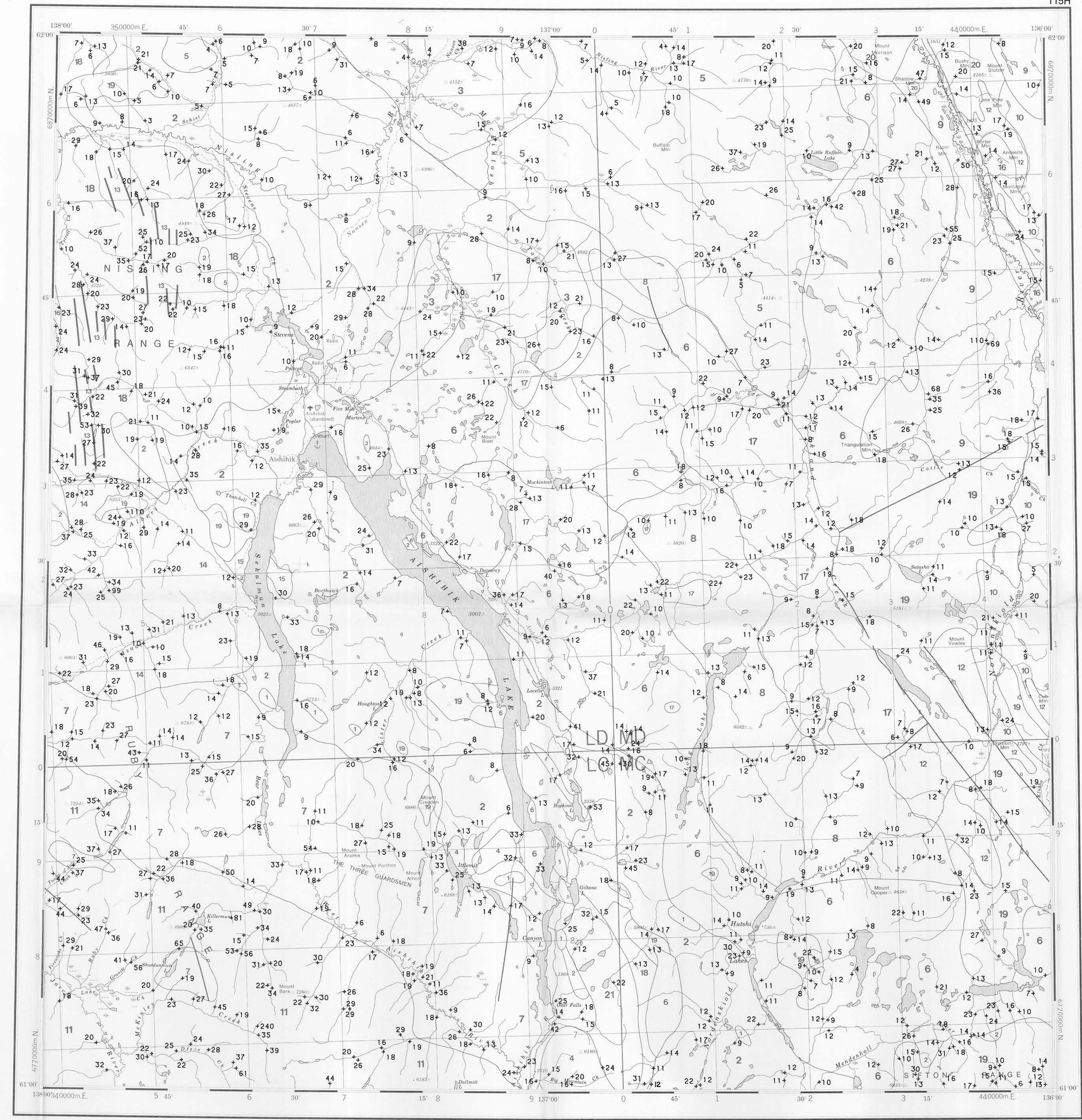
Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:
 K.G. Campbell Corporation
 880 Wellington St.
 Bay 238
 Ottawa, Ontario
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The data are also available in digital form. For further information please contact:
 The Director
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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

SYMBOLS
 Surficial deposit boundary
 Limit of Pre-Reid ice advance
 Limit of McConnell (Ruby) ice advance
 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 indicated
 Drumlinoid form, direction of movement inferred, not inferred

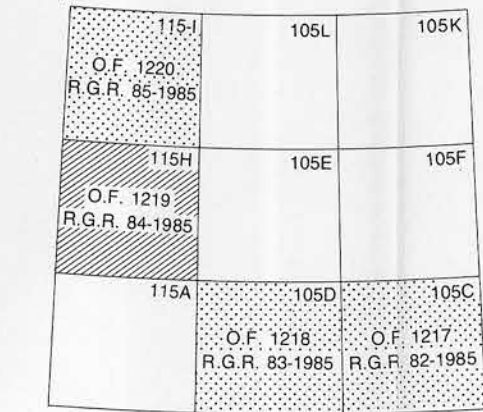
Sources of information:
 Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34
 Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale)
 Templeman-Kluit, D.J. (1973) Geology - AISHIHIK LAKE, Yukon Territory, Geological Survey of Canada, Map 17-1973, (1:250 000 scale) to accompany Paper 73-41



Elevation in feet above mean sea level
 Mean magnetic declination 1986, 29°39' East, decreasing 13.4' annually. Readings vary from 29°29' E in the SE corner to 29°48' E in the NW corner of the map area

COPPER (ppm)
 GSC OPEN FILE 1219
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 84-1985
 CANADA-YUKON
 MINERAL DEVELOPMENT AGREEMENT (1984-89)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 SOUTHERN YUKON TERRITORY, 1985
 Scale 1:250 000
 Kilometers
 Universal Transverse Mercator Projection
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Base map at the same scale published by the Surveys and Mapping Branch in 1971. Streams were revised by the Geological Survey of Canada for this edition.



TERTIARY	LATE TERTIARY	21	LTG 62*	Rhyolite porphyry, granite, granodiorite	
	OLIGOCENE AND MIOCENE				
	CARMACKS GROUP				
	Eocene	20	OMC 60	Andesite, basalt, breccia	
	MOUNT NANSEN GROUP				
		EMN 59	19	Acid to intermediate tuff, breccia	
		LOWER(?) TERTIARY			
	TPF 58	18	Feldspar porphyry dykes and flows		
	TVA 58	17	Acid tuff		
	TVD 58	16	Andesite, porphyritic basalt flows and dykes		
EARLY TERTIARY					
	ETGA 57	15	Alaskite, granite, quartz monzonite		
	ETQM 57	14	Granite, quartz monzonite		
FPDP 57	13	Feldspar porphyry dykes			
JURASSIC AND CRETACEOUS					
	JKT 51	12	TANTALUS: Conglomerate, siltstone, arkose, coal		
JKK 51	11	KLUANE: Sericitic to biotitic schist, gneiss, amphibolite			
JURASSIC	LABERGE GROUP				
		JL 47	10	Greywacke, arkose, conglomerate	
		TRIASSIC			
	TV 42		9	Basaltic greenstone	
	TQM 42	8	Leucocratic, porphyritic quartz monzonite		
	TGD 42	7	RUBY RANGE: Granodiorite		
	TGDN 42	6	Foliated hornblende granodiorite, quartz		
	MESOZOIC UNDIVIDED				
		MQM 41	5	Porphyritic quartz monzonite	
	MDI 41	4	Diorite		
PALEOZOIC UNDIVIDED					
	PM 09	3	Amphibolite, schist, gneiss		
HADRYNIAN AND CAMBRIAN					
	HCSN 08	2	Schist, gneiss, quartzite		
HADRYNIAN					
HC 07	1	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. Templeman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale