

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:

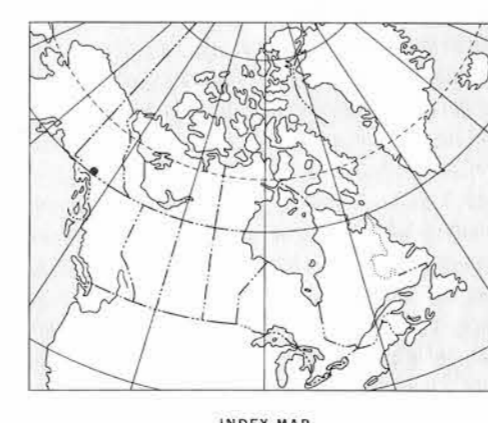
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The data are also available in digital form. For further information please contact:

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- SYMBOLS
- 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
- 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
- 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)

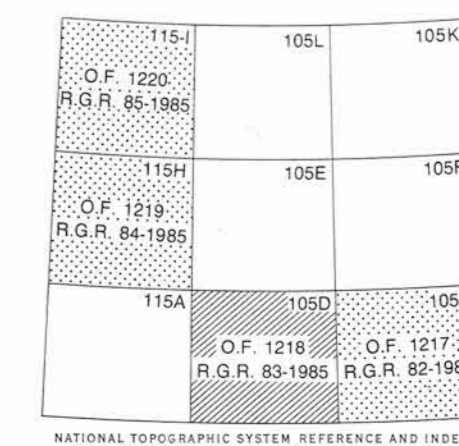
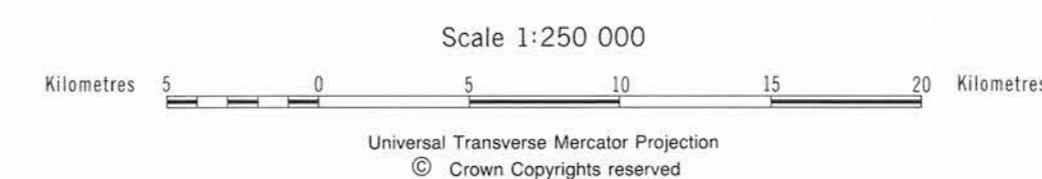


Elevation in feet above mean sea level
 Mean magnetic declination 1986, 29°18' East, decreasing 14.2' annually. Readings vary from 29°06' E in the SE corner to 22°29' E in the NW corner of the map area

MERCURY (ppb)
 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
- 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
 28 ENM 59 Acid to intermediate tuff, breccia
 SKIKUM GROUP
 27 ESK 59 Andesite, basalt, breccia
 SLOKO GROUP
 26 ESL 59 Rhyolite, trachyte
- CRETACEOUS AND TERTIARY
 25 KTG 56 Granite, quartz monzonite
 24 KTD 56 Granodiorite, quartz diorite
 23 KTD 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 (UTLM, UTC, UTLV)
 13 UTLM 45 Greywacke, argillite, conglomerate
 12 UTC 45 Limestone
 11 UTLV 45 Andesite, basalt
- MESOZOIC UNDIVIDED
 10 MGD 41 Granodiorite, quartz monzonite
 9 MSDN 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 CPK 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 1399A, 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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