

LEGEND

This legend is common to maps 1790A to 1797A, 1819A to 1822A, and 1832A to 1835A. Coloured legend blocks indicate map units that appear on this map.

QUATERNARY

- HOLOCENE - POST MCCONNELL GLACIATION**
 - ICE (extant glaciers):** flowing or stagnant glacial ice, locally covered by debris. Also includes semi-permanent snow banks; thickness ranges from 10 m to tens of metres.
 - Mp:** NEOGLACIAL TILL: stony diamiction, less than 1 m thick and in places discontinuous; end moraines (denoted by symbol) may be tens of metres thick and contain masses of buried glacial ice.
 - O:** ORGANIC DEPOSITS: peat and muck several metres to tens of metres thick; formed predominantly by the accumulation of vegetative material in bogs, fens, and swamps in depressions and valley bottoms. Permafrost is commonly present within 1 m of the surface in blanket bog; thermokarst collapse and palsa growth are common in bogs, fens, and swamps.

- COLLUVIAL DEPOSITS:** stony diamiction resulting from the breakdown of bedrock through physical and chemical weathering; variably reworked and transported by gravitational processes such as creep, solifluction, debris flow, snow avalanching, and rockfall.
- Ca:** Colluvial apron sediments: bouldery diamiction, poorly sorted sands and gravels forming a wedge-like slope-toe complex of small steep debris flow and avalanche-dominated fans and solifluction deposits ranging from less than 1 m at the upslope limit to 10 m or more in the thickest part of the apron.
- bCa:** Rockfall deposits: bouldery, angular rockfall deposits that form aprons that may exceed 10 m in maximum thickness along the bases of steep slopes.

- ALLUVIAL DEPOSITS:** gravel and sand with minor silt deposited by streams; deposits are commonly stratified and moderately to well sorted, except for some alluvial fan deposits where debris flow diamiction may be present.
- Ap:** Floodplain sediments: gravel and sand with minor silt; greater than 1 m thick, flat lying; includes lacustrine and organic sediments deposited in abandoned channels and backswamp areas; floodplain deposits subject to periodic inundation and reworking by floods.
- At:** Alluvial terrace sediments: gravel and sand with minor silt; greater than 1 m thick; former floodplain sediments incised and now above the level of the contemporary floodplain; terrace sediments not subject to flooding and usually well drained.
- Af:** Alluvial fan sediments: gravel, sand, silt, and diamiction up to 10 m or more thick; alluvial fans subject to stream avulsion and flooding and, on smaller and steeper fans, inundation by debris flows.
- Au:** Alluvial sediments, undivided: floodplains, fans, and terraces that cannot be subdivided at this map scale.

- WISCONSINAN - MCCONNELL GLACIATION**
- Lp:** Glacio-lacustrine plain: silt and fine sand, minor clay; 5 m or more thick.
- Lb:** Glacio-lacustrine blanket: silt and fine sand, minor clay; 1 to 3 m thick but thin enough to conform to underlying topography.
- Lv:** Glacio-lacustrine veneer: silt and fine sand, minor clay; less than 1 m thick or discontinuous.
- Lx:** Glacio-lacustrine complex: sand, silt, and clay; hummocky, pitted, and ridged; may comprise 10 per cent or more gravel and diamiction lenses and dropstones; usually more than 5 m thick.

- GLACIOFLUVIAL DEPOSITS:** gravel, sand, and minor silt; greater than 1 m thick, deposited by streams flowing from or in contact with glacial ice, including deltas graded to former glacial lake levels. Sorting ranges from good to poor, and stratification from thin bedded to massive. Sediments commonly display evidence of syndepositional collapse due to meltout of buried or supporting ice.
- Gp:** Glaciofluvial plain and fan sediments: gravel, sand, and minor silt; planar surfaces; greater than 1 m thick.
- Gt:** Glaciofluvial terrace sediments: gravel, sand, and minor silt; planar surfaces cut by flights of terraces; greater than 1 m thick.
- Gd:** Glaciofluvial delta sediments: sand, gravel, and minor silt and clay; commonly overlying lacustrine silt and clay; greater than 5 m thick.
- Gx:** Glaciofluvial complex: sand, gravel, diamiction, and minor silts and clay; greater than 5 m thick; forming kettles, esker and crevasse-fill ridges; includes minor elements of Gp and Gt.
- Gu:** Glaciofluvial deposits, undivided: hummocky deposits of gravel, sand, and minor silt; less than 5 m thick; includes areas made up of 50 per cent units Mb and Mv.

- MORAINAL DEPOSITS (fill):** diamiction, mainly till, generally consisting of a silty sandy matrix containing pebbles, cobbles, and minor boulders; deposited either directly by glacial ice or by gravity flow from glacier ice.
- Mb:** Till blanket: greater than 1 m thick but conforming to the underlying topography.
- Mv:** Till veneer: less than 1 m thick or discontinuous; may contain extensive areas of thin (less than 1 m) and patchy colluvium.

- PRE-QUATERNARY**
- R:** BEDROCK: volcanic, sedimentary, metasedimentary rocks, and felsic and ultramafic intrusions; includes areas of thin colluvial cover, blockfields, sorted stone polygons in alpine areas. R-A denotes bedrock subject to rockfall and snow avalanches.

- Geological boundary** (dashed line)
- Cirque** (dotted line)
- Arête** (dotted line)
- Streamlined glacial bedforms** (ice flow direction known, unknown) (dotted line with arrows)
- Neoglacial end moraine** (dotted line)
- Medial moraine** (dotted line)
- Ice-contact face in stratified drift** (teeth on ice side) (dotted line with teeth)
- Crevasse filling** (dotted line)
- Esker** (flow direction known or assumed, unknown) (dotted line with arrows)
- Subglacial and proglacial meltwater channels, large and small** (arrow indicates flow direction) (dotted line with arrows)
- Small sidehill (lateral) meltwater channel; barb on upslope side** (dotted line with arrows)
- Blanket bog or fen, generally <1 m thick** (dotted line)
- Rock glacier** (dotted line)
- Landslide; arrow(s) indicate direction of movement** (dotted line with arrows)
- Open system pingo** (dotted line)
- Thermokarst collapse activity** (dotted line)

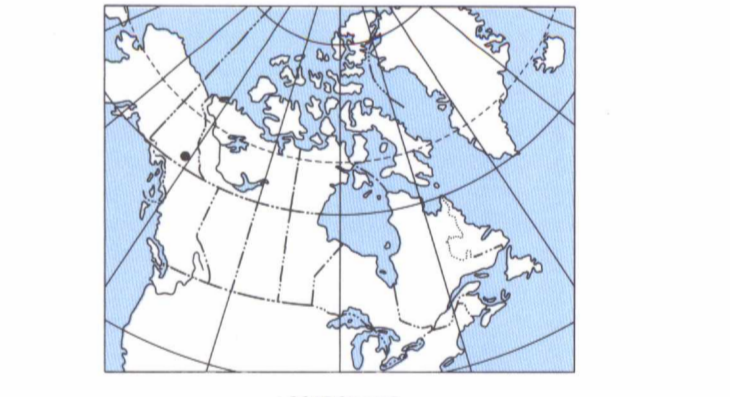
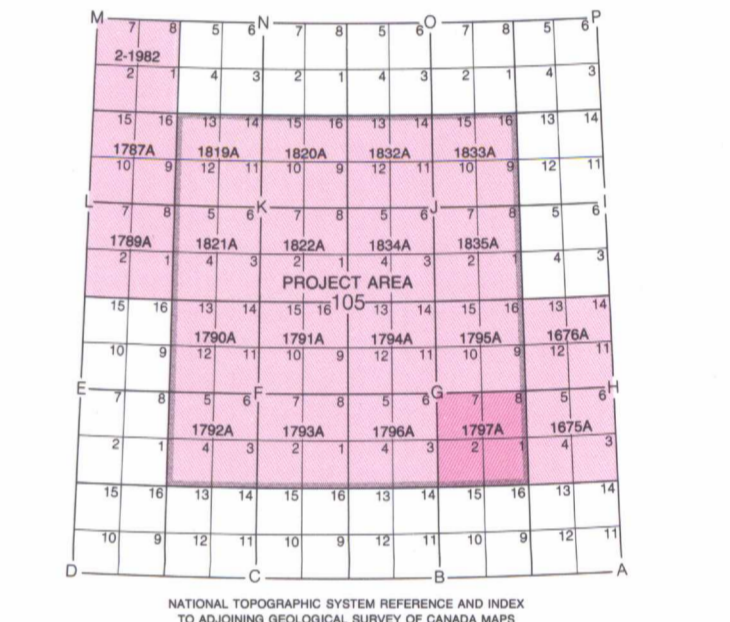
Geology by L.E. Jackson, Jr., 1961-82
Geological cartography by F. Séguin, Geological Survey of Canada

Colour separations were produced using digital methods
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map assembled by the Geological Survey of Canada from maps 105 G1, (1965), 105 G2, 7, 8 (1964), published at 1:50 000 scale by the Surveys and Mapping Branch

Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0G9
Mean magnetic declination 1993, 29°23' E, increasing 12.1' annually. Readings vary from 29°37' E in the NE corner to 29°08' E in the SW corner of the map.

Elevations in metres above mean sea level



GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

SEP 8 1993 MAP LIBRARY / CARTOTHEQUE

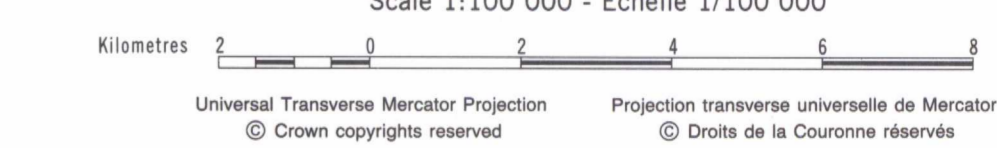
CGIC / CCIG

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

MAP 1797A SURFICIAL GEOLOGY

RAINBOW CREEK YUKON TERRITORY

Scale 1:100 000 - Échelle 1/100 000



© Crown copyrights reserved / © Droits de la Couronne réservés

Recommended citation: Jackson, L.E., Jr., 1993: Surficial geology, Rainbow Creek, Yukon Territory; Geological Survey of Canada, Map 1797A, scale 1:100 000

NOT TO BE TAKEN FROM LIBRARY / NE PAS SORTIR DE LA BIBLIOTHÈQUE

1797A

Canada

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0S8, 3303-33rd Street, N.W., Calgary, Alberta T2L 2A7, 100 West Pender Street, Vancouver, B.C. V6B 1H6. Published 1993.

This map has been produced from a scanned version of the original map / Reproduction par numérisation d'une carte sur papier