

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
- Mⁿ NEOGLACIAL TILL: stony diamicton, 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 peat growth are common in bogs, fens, and swamps
- COLLUVIAL DEPOSITS: stony diamicton 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 diamicton, 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
- Ap 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 diamictons may be present
- At 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
- Al 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 diamicton 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

- GLACIOLACUSTRINE DEPOSITS: well stratified sand, silt, and clay deposited in lakes ponded by glacial ice; sediments may have regular surfaces or ridged, hummocky, or pitted surfaces caused by meltout of buried glacial ice. Silt and clays commonly contain segregated ground ice and are affected by retrogressive thaw flow slides along rivers and contemporary thermokarst collapse
- Lp Glaciolacustrine plain: silt and fine sand, minor clay; 5 m or more thick
- Lb Glaciolacustrine blanket: silt and fine sand, minor clay; 1 to 3 m thick but thin enough to conform to underlying topography
- Lv Glaciolacustrine veneer: silt and fine sand, minor clay; less than 1 m thick or discontinuous
- Lx Glaciolacustrine complex: sand, silt, and clay; hummocky, pitted, and ridged; may comprise 10 per cent or more gravel and diamicton lenses and dropstones; usually more than 5 m thick
- 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, diamicton, 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
- Mb MORAINAL DEPOSITS (pill): diamicton, 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
- Mv 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
- Cirque
- Arête
- Streamlined glacial bedforms (ice flow direction known, unknown)
- End moraine
- Neoglacial end moraine
- Medial moraine
- Ice-contact face in stratified drift (teeth on ice side)
- Crevasse filling
- Esker (flow direction known or assumed, unknown)
- Subglacial and proglacial meltwater channels, large and small (arrow indicates flow direction)
- half of large ice walled channel
- Small sidehill (lateral) meltwater channel; bars on upslope side
- Blanket bog or fen, generally <1 m thick
- Rock glacier
- Landslide; arrow(s) indicate direction of movement

Geology by L.E. Jackson Jr., 1961-1962

Geological cartography by J.D. Naraway, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

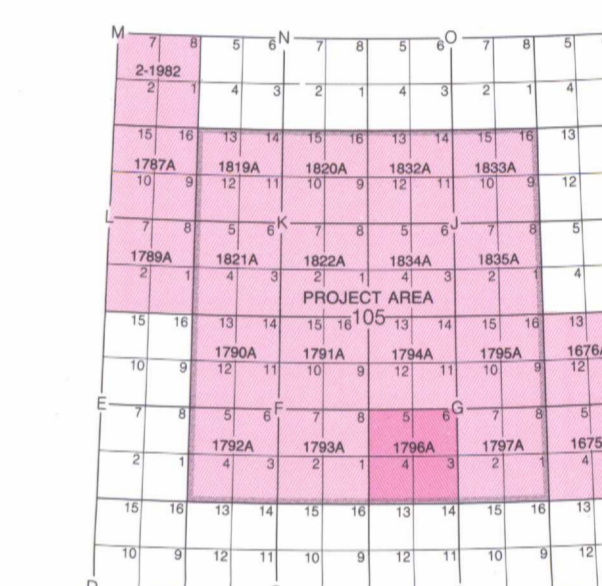
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Base map assembled by the Geological Survey of Canada from maps 105 G3, 105 G4, 105 G5, 105 G6 published at 1:50 000 scale by the Surveys and Mapping Branch in 1964

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 0E9

Mean magnetic declination 1992, 29°39' East, decreasing 11.9' annually. Readings vary from 29°23' E in the SW corner to 29°54' E in the NE corner of the map

Elevations in metres above mean sea level



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJACENT GEOLOGICAL SURVEY OF CANADA MAPS



INDEX MAP

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

MAP 1796A
SURFICIAL GEOLOGY
LONELY CREEK
YUKON TERRITORY

Scale 1:100 000 - Échelle 1/100 000

Kilometres 0 2 4 6 8 Kilometres

Universal Transverse Mercator Projection / Projection transverse universelle de Mercator

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Geological Survey of Canada, Map 1796A, scale 1:100 000

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1796A

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