

INDEX MAP Canadä

100 West Pender Street, Vancouver, B.C. V6B 1R8

MAP 1676A SURFICIAL MATERIALS AND LANDFORMS

YUSEZYU RIVER

YUKON TERRITORY

Scale 1:100 000 - Échelle 1/100 000 Projection transverse universelle de Mercator Universal Transverse Mercator Projection © Crown copyrights reserved © Droits de la Couronne réservés

105 G/NE 105 H/NW 105 H/NE 1676A 1677A 105 G/SE 105 H/sw 105 H/SE 1675A 1674A

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS MAP LIBRARY / CARTOTHEQUE

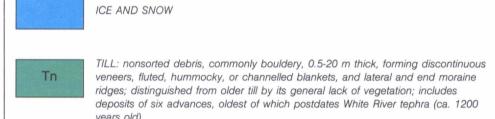
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LEGEND

This legend is common to maps 1674A, 1675A, 1676A, 1677A, coloured legend blocks indicate map units that appear on this map SURFICIAL DEPOSITS

QUATERNARY

GLACIAL ENVIRONMENT



NONGLACIAL ENVIRONMENT

COLLUVIAL DEPOSITS: block accumulations and landslide debris, 1-50 m thick Talus (scree): accumulations of blocks, commonly exceeding 3 m in diameter, as much as 50 m thick, forming aprons and fans below cliffs; commonly crossed by debris flow channels and levees. Most slopes active

Rock glacier debris: accumulations of talus deformed by flow of interstitial ice to form rock (talus) glaciers, generally 10-50 m thick, with pronounced transverse and longitudinal ridges and furrows, steep sides and fronts; includes deposits of several ages, at least three older and six younger than White River tephra (ca. 1200 years old)

Landslide debris: rock avalanches more than 10 m thick and slumped and slid till incorporating organic detritus, 1-10 m thick, with hummocky or rolling surfaces and steep fronts

ALLUVIAL DEPOSITS: gravel, sand, and organic detritus 2-20 m thick Alluvial fan deposits: poorly sorted gravel and sand with organic detritus and buried organic soils; fans commonly laterally amalgamated, commonly crossed by debris flow channels and levees and subject to shifting stream courses

Alluvial plain and terrace deposits: well sorted gravel and sand with detrital organic beds, including concentrations of logs, forming meander scrolled plains

Ap, and terraces At EOLIAN DEPOSITS: sand, 1-5 m thick, forming sharp crested dunes, now stable;

probably formed immediately after deglaciation and prior to establishment of a

PROGLACIAL AND GLACIAL ENVIRONMENT GLACIOLACUSTRINE DEPOSITS: fine sand, silt, and clay, 10-30 m thick, forming terraces deeply dissected by postglacial erosion where thick or plains where thin; deposited in glacier dammed lakes

GLACIOFLUVIAL DEPOSITS: gravel and sand, 2-30 m thick, deposited on, beneath, and in front of the marginal zone of a glacier

Proglacial outwash: gravel and sand forming distal outwash terraces Gt, plains Gp, and fans Gf, and proximal kettled outwash terraces Gtk, and plains Gpk; characterized by abandoned braided channel patterns

Ice contact stratified drift: gravel and sand, with clasts commonly 10-100 cm across, commonly faulted, forming lateral kame terraces and delta terraces It, with ice contact escarpments and kettle holes Ik, hummocky moulin kame fields, or ice block disintegration terrain Ih, and eskers or crevasse fillings Ir

GLACIAL ENVIRONMENT

petrological composition but including deposits locally derived almost entirely from black shale, red shale, serpentine, marble, limestone, granite, and schist

Till veneer: 0.5-2 m thick; surface mimics underlying rock surface, fluted in places, commonly channelled by meltwater

Till blanket: 2-20 m thick; much of surface lineated by flutings and drumlins or channelled by meltwater Tb, distinctly hummocky Tbh, where composed mostly or

PRE-QUATERNARY

R1 R2 ROCK: rock of various lithologies and ages forming alpine valley walls and ridges extensively modified by glacial erosion R1, and high plateau remnants of restricted extent showing little or no sign of glacial erosion R2, high plateaus and other low to moderate slopes commonly mantled by felsenmeer; patches of till and glacial erratics occur throughout

Geological boundary (defined, gradational) Cirque; cirques and arêtes; alpine escarpment formed by glacial oversteepening of bedrock Drumlins (ice flow direction unknown)..... Crag and tail (till tail) Roche moutonnée or rock drumlin . . Lateral moraine, ornamented on glacier side Crevasse filling Subglacial and proglacial meltwater channel (wide, narrow) . . Sidehill (lateral) meltwater channel; barb on upslope side Landslide scar (large, small) Avalanche track, avalanche slope Ground observation point Site where permafrost encountered

Uranium

Geology by A.S. Dyke 1981, 1983

MINERALS

Geological cartography by H.A. Thomson, Geological Survey of

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 monochrome maps published at 1:50 000 scale by the Surveys and Mapping Branch in 1985

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 1990, 30°25' East, decreasing

14.4' annually. Readings vary from 30°10'E in the SW corner to 30°41'E in the NE corner of the map area

Elevations in metres above mean sea level

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GEOLOGICAL SURVEY COMMISSION GÉOLOGICEIRE

> Recommended citation: Dyke, A.S.

1990: Surficial materials and landforms, Yusezyu River, Yukon Territory; Geological Survey of Canada, Map 1676A, scale 1:100 000

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