

LEGEND

This legend is common to maps 1635A, 1636A, 1637A, 1638A. Coloured legend blocks indicate map units that appear on this map.

OVERLAP ASSEMBLAGES

- TI Lampophyre
- JKLR LITTLE RIVER STOCK: granodiorite and quartz monzonite
- PP Quartz porphyry rhyolite

TRIASSIC AND JURASSIC

- TJb Agate porphyry basalt, minor flows, tuff and tuffaceous argillite; local andesitic basalt
- TJa Basaltic tuff and breccia, generally fine grained; argillite, flows, chert

UPPER TRIASSIC

- uTa1 Phyllite, argillite, silty argillite, quartzite, schist, minor greenschist (subgreenschist to amphibolite (kyanite) facies of metamorphism); uTa1p conglomerate
- uTa3 Undivided uTa and greenschist, agate porphyry breccia, tuff breccia, tuff, possible dykes and sills (subgreenschist and greenschist facies of metamorphism)

SLIDE MOUNTAIN TERRANE

- uPa SLIDE MOUNTAIN GROUP (PMd-uPa) AYLEY FORMATION: pillow basalt, breccia, diorite, chert, gneiss, (minor limestone?); uPa, serpentinite, uPa, minor basalt and diorite
- uPc CROOKED AMPHIBOLITE: undifferentiated; uPc, serpentinite and sheared ultramafic rock; uPc, talcose altered ultramafic rock; uPc, amphibolite

PALEOZOIC OR MESOZOIC

- PMdb Serpentinite and peridotite (as mapped by Campbell, 1978)

BARKERVILLE TERRANE

- PS Sugar limestone: grey crinoidal limestone, minor grey chert

UPPER PALEOZOIC?

- uPIM SNOWSHOE GROUP (Ps-uPIM) ISLAND MOUNTAIN AMPHIBOLITE: amphibolite, minor siliceous mylonite
- uPSC Orange weathering fuchsite-bearing anhydritic carbonates
- uPHM Handscrabble Mountain succession: black silts and phyllite, grey micaceous quartzite, limestone, minor metatuff; uPHM, greywacke, muddy conglomerate

PALEOZOIC?

- Pb Bracco succession: marble
- PI Failed sills and agate porphyry basalt, gabbroic rocks; includes undifferentiated diabase, diorite

PALEOZOIC

- PQL QUESNEL LAKE GNEISS Light grey potassium feldspar porphyritic granitic orthogneiss

PALEOZOIC

- PE SNOWSHOE GROUP (H-Pe) Eaglecrest succession: olive and grey micaceous quartzite and phyllite
- PD Downey succession: olive and grey micaceous quartzite and phyllite, and undifferentiated rocks; Pp, marble, includes some phyllite, schist, quartzite and amphibolite; Pp, phyllite, schist, metatuff, includes some marble, quartzite and amphibolite; Pp, metatuff, metatuff, includes some marble, phyllite, schist and amphibolite; (metamorphism ranges from chlorite to kyanite grade)
- PA Agass succession: quartzite, silty conglomerate, quartzite, minor silty conglomerate
- PGP Goose Peak succession: quartzite, minor conglomerate
- PHR Henrvey Ridge succession: dark grey and grey micaceous quartzite, black quartzite and interbedded dark grey phyllite, schist, silts, and minor micritic limestone and undifferentiated rocks; PHr, limestone and limestone conglomerate; PHr, purple grey very micaceous quartzite and black phyllite; PHr, grey silts and green metatuff, in part calcareous

HADRYNIAN OR PALEOZOIC

- HPT Tom succession: olive grey micaceous quartzite, phyllite and schist

HADRYNIAN?

- HKE Kellway succession: grey and olive, fine micaceous quartzite and phyllite, minor marble, Hkcm, marble, phyllite, Hksp, grey and green phyllite, minor olive quartzite, Hkcc, white to dark grey quartzite
- HKK Kee Khan marble: marble, calcareous sandstone, micaceous quartzite, green and grey phyllite, in part calcareous
- HT Treagus succession: grey and olive-grey micaceous quartzite, phyllite and schist, undifferentiated HTg, conglomerate
- HR Remos succession: olive and olive grey micaceous quartzite, and phyllite, light brown and grey sandstone and undifferentiated rocks; HR, phyllite, schist, quartzite, calc-silicate rocks, may be partly equivalent to HKE; HR, limestone, calcareous quartzite; HR, black silts, phyllite and slate, may be partly equivalent to PHr; HR, olive and grey silts and micaceous quartzite, may be part of HKE
- HPS Snowshoe Group undifferentiated: Hk to PE, mainly PHr to PE

PERMIAN AND/OR TRIASSIC

- PTs Olive and grey greywacke and slate

PENNSYLVANIAN

- Pc Grey fusulinid and pelletal limestone

MIDDLE PENNSYLVANIAN

- PAA ALEX ALLAN FORMATION: black micritic limestone, grey and black shale

ORDOVICIAN TO MISSISSIPPIAN

- MBS MISSISSIPPIAN OR YOUNGER BLACK STUART GROUP (SDs-Mbs) Sandstone unit: olive grey micaceous and white quartzite, black and pink chert
- MG GREENBERRY FORMATION: crinoid limestone, chert, dolostone

UPPER DEVONIAN AND LOWER MISSISSIPPIAN

- DMG GUYET FORMATION: muddy and sandy conglomerate and breccia, granule quartzite and slate

MIDDLE AND/OR UPPER DEVONIAN

- DW WAVERLY FORMATION: schistose, calcareous, basaltic tuff, and volcanoclastic, pillow basalt, minor siltite

UPPER ORDOVICIAN AND DEVONIAN TO MISSISSIPPIAN OR YOUNGER

- OMBS Black pelite unit: black silts, argillite and cherty argillite, black limestone, dolostone and silicified limestone (in part arthropod)

UPPER SILURIAN AND LOWER DEVONIAN

- SDBS Chert-carbonate unit: light to dark grey chert breccia, grey limestone matrix, dolostone granule to pebble breccia, limestone matrix, chert-quartz-dolostone conglomerate to breccia

CAMBRIAN TO (?) DEVONIAN

- CDBS Black Stuart formation (as used by Campbell, 1978)

HADRYNIAN AND CAMBRIAN LOWER TO (?) UPPER CAMBRIAN

- CCD OME CREEK FORMATION: dark shale and limy shale

LOWER CAMBRIAN

- ICM MURAL FORMATION: grey limestone, minor shale and argillite

HADRYNIAN AND/OR CAMBRIAN

- HCM MIDAS FORMATION: dark siltstone and quartzite, minor shale and argillite
- HCYP YANKS PEAK FORMATION: grey and white, minor pink and green quartzite, minor siltstone and argillite
- HCU MIDAS, YANKS PEAK AND YANKEE BELLE FORMATIONS: undivided

HADRYNIAN (WINDERMERE)

- HYB YANKEE BELLE FORMATION: green and grey thin bedded argillite, shale, minor quartzite and limestone, local phyllite and schist
- HC CUNNINGHAM FORMATION: grey limestone, minor shale, argillite and dolostone
- HI ISAC FORMATION: dark phyllite, calcareous phyllite, slate, argillite, and minor limestone and micaceous quartzite
- HCUu Cariboo group undifferentiated:

HADRYNIAN

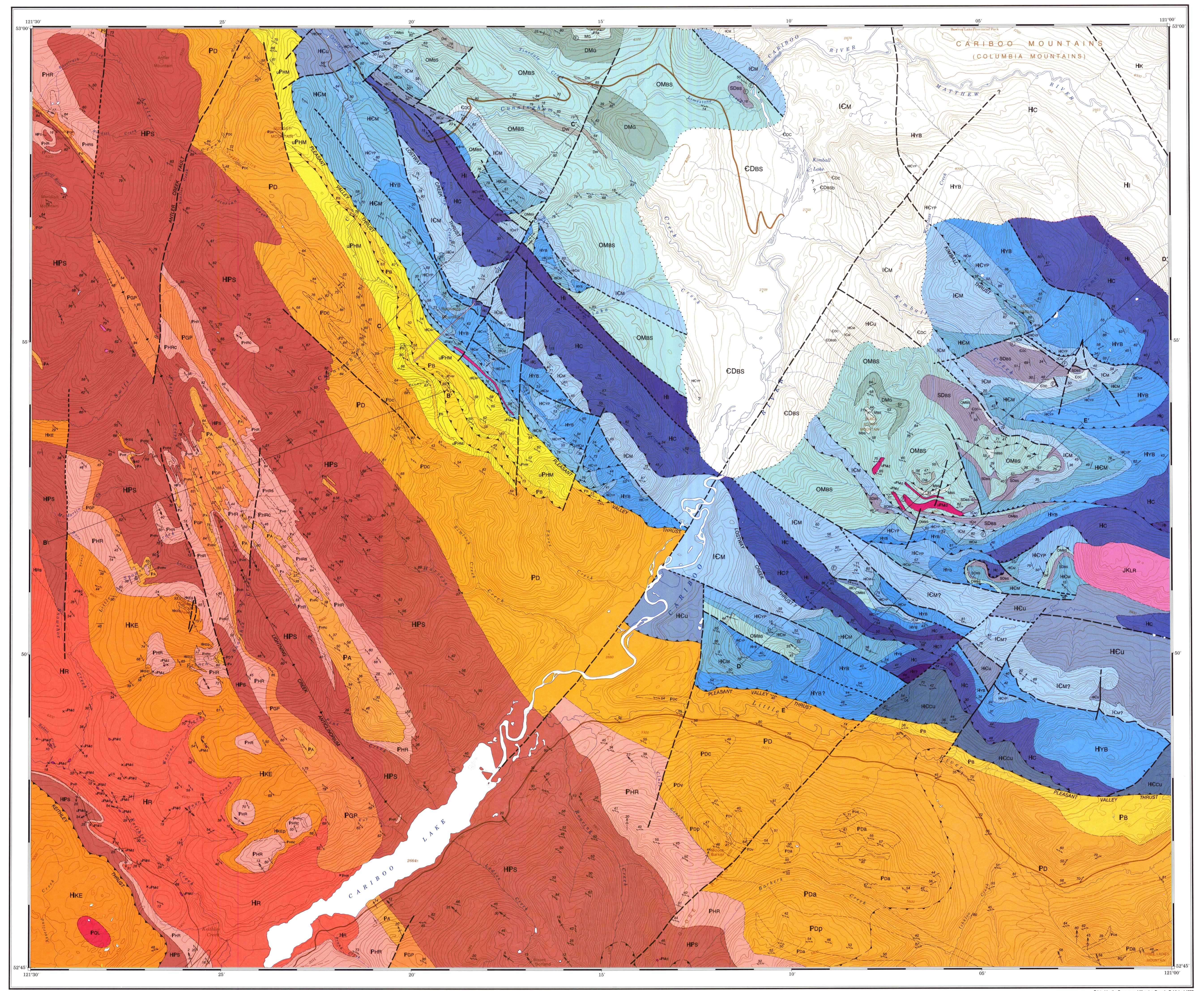
- Hk KAZA GROUP Greywacke, argillite, phyllite, schist, minor pebble conglomerate

IGNEOUS ROCKS OF UNKNOWN TERRANE AFFINITY

- uPMd Diabase, diorite

Geological symbols:

- CS x Calc-silicate rocks (isolated outcrops)
- Geological boundary (defined, approximate, assumed)
- Bedding, top known (inclined, overturned)
- Bedding, top unknown (inclined, vertical)
- Bedding parallel to cleavage (inclined, overturned)
- Cleavage, first generation (horizontal, inclined, vertical)
- Cleavage, second generation (inclined, vertical)
- Fault (defined, approximate, assumed) solid circle indicates downthrow side
- Thrust fault (defined, approximate or assumed) hanging wall teeth
- Anticline (upright, overturned) arrow indicates plunge
- Syncline (upright, overturned) arrow indicates plunge
- Antiform
- Minor fold axes (first generation, horizontal, second generation, horizontal)
- Pebble long axis, average trend and plunge
- Fan axis
- Fossil locality
- Garnet (spiral half moon on higher grade side)
- Border of detailed geology as mapped by Struik, reconnaissance geology beyond the border is from the McBride map area (Campbell, Mountjoy and Young, 1973) and the Quenest Lake map area (Campbell, 1978)



MAP 1638A
 GEOLOGY
CARIBOO LAKE
 CARIBOO LAND DISTRICT
 BRITISH COLUMBIA

Scale 1:50 000 - Echelle 1/50 000

Geology by L.C. Struik, 1977-1982

Geological cartography by R.R. Penno, Geological Survey of Canada

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

Base map at the same scale published by the Survey and Mapping Branch in 1976. Roads were revised by the Geological Survey of Canada for this edition

Printed by the Survey and Mapping Branch, Published 1988

Scale 1:50 000 - Echelle 1/50 000

Universal Transverse Mercator Projection
 Projection: Transverse universelle de Mercator
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Approximate magnetic declination 1988, 23°01' East, decreasing 14.6 annually

Elevations in feet above mean sea level

930W	931W	932W	933W
930E	931E	932E	933E
934W	935W	936W	937W
934E	935E	936E	937E

NATIONAL TOPOGRAPHIC DATA SERVICE AND OTHER TOPOGRAPHIC DATA SOURCES BY PERMISSION OF THE GEOLOGICAL SURVEY OF CANADA

CARIBOO LAKE
 CARIBOO LAND DISTRICT
 BRITISH COLUMBIA

REFERENCES

Campbell, B.B. 1978. Cariboo Lake (93A) map area. Geological Survey of Canada, Open File 214.

Campbell, B.B., Mountjoy, E.W. and Young, F.G. 1973. Geology of McBride map area, British Columbia. Geological Survey of Canada, Paper 72-55.

Recommended citation:
 Struik, L.C.
 1988. Geology, Cariboo Lake, Cariboo Land District, British Columbia. Geological Survey of Canada, Map 1638A, scale 1:50 000