



MAP 8-1986
 GEOLOGY
MOUNT LAURIER
 BRITISH COLUMBIA
 Scale 1:50,000

Kilometres 1 0 1 2 3 4

Transverse Mercator Projection
 UTM 12°N, Scale Factor 0.9998
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8404	8405	8406
7-1986	8-1986	8407
8408	8409	8410
8-1986	9-1986	8411

NATIONAL TOPOGRAPHIC SYSTEM REFERENCES AND INDEX TO HISTORICAL GEOLOGICAL SURVEY OF CANADA MAPS

LEGEND

Weighted legend blocks indicate map units that appear on this map.

QUATERNARY
 Pleistocene and Recent
 Qa1 Gravel, sand, silt, clay, and silt

CRETACEOUS
 UPPER CRETACEOUS (Cenomanian)
 Kd DUVEGIAN FORMATION: sandstone, shale, and conglomerate
 LOWER CRETACEOUS (Albian and UPPER CRETACEOUS (Cenomanian))
 FORT ST. JOHN GROUP (Kfa-Ku)
 Kfa SOLLY FORMATION: silty shale, siltstone, marl; includes some Upper Cretaceous beds at the top
 Kfb SKANAN FORMATION: the graded sandstone; minor shale, coal, and conglomerate, marl
 Kfc HULDSORF FORMATION: dark grey, concretionary siltstone, marl
 Kfd GATES FORMATION: massive to thick-bedded sandstone; grey sandstone and shale; siltstone
 Kfe MOOSEBAY FORMATION: dark grey shale, marl
 BUCKINGHAM FORMATION: siltstone, shale, and minor sandstone, marl
 LOWER CRETACEOUS (Barremian-Aptian)
 BULLHEAD GROUP (Kca-Kc)
 Kcg GETTING FORMATION: fine grained sandstone; minor shale, coal, and conglomerate, marl and non-marl
 Kcd CADOMEN FORMATION: massive conglomerate and conglomeratic sandstone; non-marl

JURASSIC AND CRETACEOUS
 UPPER JURASSIC (T) AND LOWER CRETACEOUS (Tithonian-Turonian)
 MINNES GROUP (Kja-Kk)
 Kja BUCKFORD FORMATION: redbedded, fine grained sandstone and shale
 Kjb MONACH FORMATION: massive, quartzitic sandstone
 Kjc BEATIE PEAKS FORMATION: redbedded, fine grained sandstone and shale; marl. May possibly include Monach Formation equivalents
 Kjd MONTETH FORMATION: massive, quartzitic sandstone. May include some Jurassic strata
 MINNES GROUP (undivided)

JURASSIC
 LOWER AND UPPER JURASSIC (Stemurian-Tithonian)
 Jf FERNE FORMATION: phosphatic and siltstone shales; siltstone, minor sandstone, marl

TRASSIC
 UPPER TRASSIC (Norian)
 Tsp PARSONET FORMATION: carbonaceous and argillaceous limestone; silty limestone, calcareous and dolomitic siltstone
 Tsd BALDOWNE AND PARSONET FORMATIONS (undivided)
 UPPER TRASSIC (Prätorian)
 Td BALDOWNE FORMATION: massive limestone and dolomite with siltstone and sandstone partings
 Tc CHARLIE LAKE FORMATION: dolomite and calcareous sandstone; siltstone, sandy limestone, dolomite, and minor chert
 Tl MIDDLE AND UPPER TRASSIC (Ladinian-Narnian)
 Tlc LARD AND CHARLIE LAKE FORMATIONS (undivided)
 LOWER AND MIDDLE TRASSIC (Grabenbach-Ladinian)
 Ttg TARD AND GRAILING FORMATIONS: massive, calcareous siltstone; silty limestone; silty shale; minor silty dolomite and calcareous sandstone

PERMIAN
 LOWER AND UPPER PERMIAN (Artinskian-Wonoreian)
 Pp FANTASQUE FORMATION: massive, grey chert containing abundant sponge spicules
 Pk LOWER PERMIAN (Asselin-Sarmanian)
 Pkx KINLE FORMATION: siltstone, shale, and limestone (Mapped as part of the Stoddart Group (schematic))
 CARBONIFEROUS
 LOWER CARBONIFEROUS (Upper Viséan-Lower Namurian)
 Cps STODDART GROUP: GOLATA, KOSKATIMIK, and TAYLOR FLAT FORMATIONS (undivided); shale, sandstone, limestone, and siltstone (structure section)
 LOWER CARBONIFEROUS (Upper Tournesian-Lower Viséan)
 Cpf PROPHET FORMATION (Cp1-Cp2)
 Cp1 Lower and middle units: limestone; chert; dolomite, shale, and siltstone
 Cp2 Upper unit: massive, light grey limestone, and chert
 DEVONIAN AND CARBONIFEROUS
 UPPER DEVONIAN-LOWER CARBONIFEROUS
 Dch BEA RIVER FORMATION: shale, calcareous shale, siltstone; calcareous siltstone, silty limestone, and limestone
 Dcl LIMESTONE marker unit (Dcl): limestone, and silty, nodular limestone (structure section)

DEVONIAN
 MIDDLE DEVONIAN
 Dd DUNDON FORMATION: limestone; dolomite; argillaceous limestone; secondary, coarse crystalline dolomite
 LOWER AND MIDDLE (?) DEVONIAN
 Dd2 STONE FORMATION (Dd1-Dd2)
 Dd1 Upper unit: massive, light grey, medium crystalline dolomite (structure section)
 Dd2 Lower unit: medium to thick bedded, oolite and grey weathering, sandy dolomite and dolomitic, oolite sandstone (see legend)
 SILURIAN (?) AND DEVONIAN
 UPPER SILURIAN AND LOWER DEVONIAN
 Sdm MACKINAC-MACDONELL FORMATION: redbedded to massive, light grey dolomite and sandy dolomite
 SILURIAN
 LOWER SILURIAN (upper Llanabarthian)
 Sn MONA FORMATION: dolomite, limestone; calcareous limestone and dolomite; black chert nodules and lenses
 ORDOVICIAN
 UPPER ORDOVICIAN (upper Cambrian-Trempealeau)
 Osd QUARTZITE-DOLOMITE unit: quartzite, dolomitic quartz sandstone; microporous dolomite with black chert nodules; calcareous, nodular limestone
 LOWER AND MIDDLE ORDOVICIAN (Llanabarthian-Cambrian)
 Osl BONY FORMATION: dolomite, calcareous and argillaceous dolomite; argillaceous limestone, dolomitic siltstone
 Volcanic marker unit (Osl): basaltic flows; pyroclastic; reworked volcanic sandstone and conglomerate

CAMBRIAN AND ORDOVICIAN
 UPPER TREMPÉALEAU AND LOWER ORDOVICIAN (Trempealeau-Arenigian)
 Cck KECHIKA GROUP
 Cck Covered, argillaceous siltstone and shale; silty limestone; wavy bedded limestone; sandstone; minor, green weathering, altered volcanic beds
 MIDDLE (?) CAMBRIAN
 Cc Dolomite unit: medium crystalline dolomite; sandy dolomite
 LOWER CAMBRIAN
 Cq Quartzite unit: orthoquartzite; calcareous shale; silty quartzite; siltstone, shale. Probable equivalent of the Gog Group

PROTEROZOIC
 MICHICOMIN GROUP
 Pm1 Pm2 Phatic and schistose gneiss; quartzite; minor limestone. Carbonate marker unit (Pm2): massive limestone and dolomite. Possible equivalent of the Birg Formation

SCHEMATIC STRATIGRAPHIC RELATIONSHIPS
 Halfway River Area

Geological boundary (defined, approximated, assumed)
 Fault boundary
 Bedrock line shown (inclined, vertical, overturned)
 Fault extension (symbol also applied to vertical faults; solid lines indicate direction; dash defined approximately, assumed)
 Thrust fault (symbol same as contraction fault; teeth indicate direction; dash defined approximately, assumed)
 Anticline (trace of axial plane; overturned)
 Syncline (trace of axial plane; overturned)
 Fossil locality (GSC catalogue number)
 Measured stratigraphic section (see text for field section details)
 Dotted line denotes change in mapping precision. Stratigraphic subdivisions are arranged in dotted line
 Line of section

Geology by R.L. Thompson, 1975-76, assisted by Douglas Heister and Robin Day, 1975 and Scott Foulger and Neil Godfrey, 1976
 Geological compilation by R.L. Thompson
 Any missing or additional geological information known to the user should be reflected by the Geological Survey of Canada
 Best map at the same scale published by the Survey and Mapping Branch in 1983

Approximate magnetic declination 1986, 2011: East, increasing 18.6' annually
 Elevations in feet above mean sea level
 Recommended citation:
 Thompson, R.L., 1987. Geology, Mount Laurier, British Columbia. Geological Survey of Canada, Map 8-1986, scale 1:50,000

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