

CENOZOIC  
 MESOZOIC  
 PHANEROZOIC  
 PALEOZOIC  
 PROTEROZOIC  
 PRECAMBRIAN

- PLEISTOCENE AND RECENT**  
 [ ] Glacial and glacio-fluvial deposits, stream deposits, felsenmeer, talus, soil
- PLIOCENE AND PLEISTOCENE**  
**PPv** Basalt, olivine basalt, breccia, tuff
- EOCENE (?)**  
**IEv** Rhyolite, chalcedonic rhyolite breccia, tuff
- CRETACEOUS (?) AND TERTIARY**  
 UPPER CRETACEOUS (?) TO EOCENE (?)  
**KIEs** Conglomerate, sandstone, shale
- CRETACEOUS**  
 MID-CRETACEOUS  
**Kqm** Quartz monzonite, granite, granodiorite; **Kgd**, granodiorite, in part foliated, age uncertain; **Kqm<sub>1</sub>**, kaolinized feldspar-quartz porphyry
- JURASSIC**  
 MIDDLE JURASSIC  
**mJgd** Granodiorite, diorite; includes younger phases of Hotailuh Batholith, hornblende-biotite syenite, granite and monzonite, hornblende diorite and syenodiorite; **mJgdi**, granodiorite  
**mJvs** Andesite flows, tuff, breccia, agglomerate; conglomerate, siltstone  
 LOWER JURASSIC  
 TOARCIAN  
**IJv** Maroon and grey weathering andesite, dacite and rhyolite flows, tuff and breccia; **IJvs**, argillite, tuff, calc-silicate, hornfels  
**IJgd** Grandiorite  
 UPPER AND LOWER PLIENSBAKIAN  
**IJT** TAKWAHONI FORMATION: greywacke, shale, minor conglomerate  
 UPPER SINEMURIAN  
**IJVI** Andesite breccia and tuff  
**IJs** Shale, dark grey to black; siltstone, tuff, minor greywacke  
**IJCq** Coarse conglomerate  
**IJI** INKLIN FORMATION: Greywacke, phyllitic slate, conglomerate; may be in part younger
- TRIASSIC AND JURASSIC**  
 UPPER TRIASSIC AND LOWER JURASSIC  
**TJv** Feldspar porphyry; agglomerate, breccia, tuff, in part maroon weathering; in part or entirely equivalent to
- TRIASSIC**  
 UPPER TRIASSIC  
**uTs** SINWA FORMATION: limestone, commonly argillaceous and fetid  
**uTub** Peridotite, dunite, serpentinite  
**uTst** STUHINI FORMATION: augite and coarse-bladed plagioclase porphyry breccia and flows; local basal conglomerate, siltstone, greywacke  
**uTk** 'KUTCHO FORMATION': dacitic breccia, tuff; dacitic to rhyolitic flows, chlorite schist, argillite, conglomerate; quartz-feldspar sericite schist; **uTki**, undivided 'Kutcho' and InKlin formations  
**uTgd** HOTAILUH BATHOLITH, OLDER PHASES: hornblende syenodiorite to granodiorite; **uTgdi** biotite-hornblende gabbro, diorite, hornblende pyroxenite; **uTu**, hornblende pyroxenite, gabbro, diorite
- MISSISSIPPIAN TO PERMIAN**  
**MP** CACHE CREEK GROUP: **MPT**, TESLIN FORMATION: limestone, Permian; **MPs**, chert, slate, argillite, minor basic volcanics; **MPC**, limestone; **MPv**, basic volcanics; **MPg**, coarse grained to pegmatitic gabbro; **MPu**, peridotite, dunite, pyroxenite, commonly serpentinitized
- DEVONIAN TO PERMIAN**  
 UPPER DEVONIAN TO PERMIAN  
**DPS** SYLVESTER GROUP: lower part, chert pebble conglomerate, chert arenite, shale, Upper Devonian, in fault contact with overlying chert; **DPSv**, chloritized and saussuritized tholeiitic basalt, breccia, tuff; **DPSu**, serpentinite, peridotite, pyroxenite; **MN**, NIZI FORMATION: crinoidal and cherty limestone, basal pebble conglomerate, Upper Mississippian; **PC**, limestone, Pennsylvanian; **DPsc**, limestone
- PALEOZOIC UNDIVIDED**  
**IPm** Crystalline limestone, metasedimentary and minor metavolcanic rocks  
**IPs** Basal nodular argillaceous limestone of Cambrio-Ordovician age overlain by black, crenulated phyllite of Road River and younger rocks
- SILURIAN AND DEVONIAN**  
 UPPER SILURIAN (?) TO MIDDLE DEVONIAN (GIVETIAN)  
**S-D** Includes four units, in ascending order, sandstone, dolomitic sandstone, laminated dolomite; laminated dolomite; dark grey fetid limestone and dolomite, dolomite breccia (Givetian); platy limestone
- SILURIAN AND MINOR DEVONIAN**  
**SDI** Mainly dolomite of SANDPILE FORMATION
- CAMBRIAN, ORDOVICIAN AND SILURIAN**  
 UPPER CAMBRIAN TO MIDDLE SILURIAN  
**E-S** KECHIKA AND ROAD RIVER FORMATIONS, UNDIVIDED: lower part, Upper Cambrian and Lower Ordovician Kechika Group, argillaceous limestone, calcareous shale; upper part, relatively thin Ordovician black graptolitic shale, minor quartzite and Silurian graptolitic siltstone  
 LOWER CAMBRIAN  
**IEA** ATAN FORMATION: **IEAq**, lower member, quartzitic sandstone, siltstone, slate, phyllite; **IEAc**, upper member, limestone; **IEA**, undivided micaceous quartzite, mica schist, minor crystalline limestone; **IEAn**, quartzite and schist, age uncertain
- HADRYNIAN**  
 INGENIKA GROUP  
**HIS** STELKUZ FORMATION: interbedded chloritic sandstone, shale, limestone, phyllite; includes distinctive green and maroon weathering members; **HIS<sub>1</sub>**, includes **IEAq**  
**HIE** ESPEE FORMATION: crystalline limestone, sandy limestone, dolomite  
**HIST** SWANNELL AND TSAYDIZ FORMATIONS, UNDIVIDED: sericite and chlorite phyllite, schist, calcareous siltstone, micaceous quartzite and pebble conglomerate

**S Y M B O L S**

- — — — — Geological boundary, defined, approximate and assumed
- ..... Drift boundary
- ~ ~ ~ ~ ~ Fault, defined; approximate, assumed and concealed; solid circle on downthrown side
- ~ ~ ~ ~ ~ Fault, thrust, teeth indicate upthrust side
- 25 / 25 Bedding, inclined, overturned
- △ Foliation
- ◇ / ◇ Anticline, upright, overturned
- ✱ / ✱ Syncline, upright, overturned

GEOLOGY BY

H. Gabrielse, R.G. Anderson, S.F. Leaming, J.L. Mansy, J.W.H. Monger, L. Thorstad and H.W. Tipper, 1977 and by Officers of the Geological Survey of Canada, 'Operation Stikine', 1956. Incorporates data from Kutcho Creek area by A. Panteleyev and D.E. Pearson, B.C. Ministry of Mines and Petroleum Resources. Compiled by H. Gabrielse

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