

**LEGEND**

**STRATIFIED ROCKS**

**UPPER TERTIARY and/or QUATERNARY**

**TO<sub>s</sub>** basalt; flow, breccia, plugs and dykes

**UPPER CRETACEOUS to EOCENE**  
SUSTUT GROUP

**IB** BROTHERS PEAK FORMATION: conglomerate, sandstone, siltstone and acid tuff; minor coal  
**KI** TANGO CREEK FORMATION: conglomerate, sandstone and siltstone; minor coal

**JURASSIC**  
Middle and Upper Jurassic  
BOWSER LAKE GROUP

**UJ** Upper Oxfordian  
Volcanics: basalt and andesite flow, breccia, tuff and lahar  
 sediments: sandstone, siltstone, argillite, and conglomerate; minor coal

**muJA** Collovian to lower Oxfordian  
ASHMAN FORMATION: argillite and siltstone; minor sandstone and tuff

**LOWER and MIDDLE JURASSIC**  
HAZELTON GROUP

**ImJs** Middle Toarcian to Middle Bajocian  
SMITHERS FORMATION: greywacke, siltstone, sandstone, and tuff

**IJN** Lower Pliensbachian to Middle Toarcian  
NILKITEWA FORMATION: argillite, siltstone, greywacke and tuff; minor sandstone and limestone

**IJC** CARRUTHERS MEMBER: basalt and andesite flow, breccia, pillow breccia and tuff

**IJI** Sinemurian to ? Lower Pliensbachian  
TELAKWA FORMATION: Calcalkaline basalt, andesite, dacite and rhyolite flow, breccia, tuff and lahar, intravolcanic fanulomerate, conglomerate, sandstone and siltstone; polymictic conglomerate with Asitka, Takla, and granitic clasts

**UPPER TRIASSIC**  
TAKLA GROUP

**uRM** Upper Karnian to Middle Norian  
Belt west of the Ingenika - Pinchi Fault Zone

**uRSM** MOOSEVALE FORMATION: andesitic and basaltic volcanic conglomerate, breccia, sandstone, tuff and argillite

**uRD** SAVAGE MOUNTAIN FORMATION: basic andesite porphyry basalt flow, breccia, pillow breccia, tuff and interbedded bladed feldspar porphyry

**uR** Belt east of the Ingenika - Pinchi fault zone  
volcanics: basic to intermediate flow, breccia and tuff; probably includes intrusive members (R<sub>gb</sub>); green phyllite and phyllitic schist; minor sediments

**uR** sediments: argillite, tuff, sandstone, phyllite and phyllitic schist; limestone and skarn

**PERMIAN, TRIASSIC and JURASSIC**  
PR<sub>1</sub> LAY RANGE ASSEMBLAGE and TAKLA GROUP

**PR<sub>5</sub>** SITLIKA ASSEMBLAGE: sericite, chlorite, siliceous schist and phyllite, minor marble; includes the Asitka, Takla and Hazelton Groups and possibly parts of the Bowser Lake Group

**PERMIAN**  
**PA** ASITKA GROUP: basalt, rhyolite, tuff, chert, argillite and carbonate

**PENNSYLVANIAN and PERMIAN**  
**PPL** LAY RANGE ASSEMBLAGE: basic volcanics, calcareous phyllite, quartzite and limestone

**PPC** CACHE CREEK GROUP: (s) siliceous phyllite, metachert, marble; (v) greenstone and amphibolite

**UPPER PROTEROZOIC**  
**PE** ESPEE FORMATION: limestone, locally oolitic and pisolitic; minor dolostone

**PT** TSAYDIZ FORMATION: sericite phyllite  
**PS** SWANNELL FORMATION: quartz-feldspathic, gritty sandstone, siltstone, shale and conglomerate, metamorphic equivalents from chlorite to kyanite grade

**INTRUSIVES**

**EOCENE**  
**ET<sub>qm</sub>** KASTBERG INTRUSIONS: quartz monzonite, quartz-eye porphyry and felsite

**LATE CRETACEOUS**  
**EK<sub>gd</sub>** AXELGOLD LAYERED GABBRIO INTRUSION; and minor plugs of gabbro and diabase

**EARLY CRETACEOUS and ? LATER**  
**UJ<sub>md</sub>** JENSEN PEAK BATHOLITH:  $\epsilon$ K<sub>md</sub>; quartz monzodiorite  
**UJ<sub>sd</sub>** JOHANSON CREEK STOCK:  $\epsilon$ K<sub>gd</sub>; quartz diorite  
**UJ<sub>sd</sub>** KLITZEL CREEK body:  $\epsilon$ K<sub>gd</sub>; leuco-granodiorite, minor granite stock west of Fleet Peak:  $\epsilon$ K<sub>gd</sub>; quartz diorite and granodiorite stock west of Hogem Batholith:  $\epsilon$ K<sub>gd</sub>; granodiorite

**EARLY JURASSIC**  
**UJ<sub>md</sub>** HOGEM BATHOLITH:  $\epsilon$ J<sub>md</sub>; foliated quartz monzodiorite (Mesinlinka Pluton)  
**UJ<sub>sd</sub>** FLEET PEAK PLUTON: foliated  $\epsilon$ J<sub>sd</sub>; monzodiorite and diorite  
**UJ<sub>sd</sub>** JOHANSON LAKE STOCK:  $\epsilon$ J<sub>md</sub>; quartz monzodiorite  
**UJ<sub>sd</sub>** DARS LAKE STOCK:  $\epsilon$ J<sub>sd</sub>; quartz diorite  
**UJ<sub>sd</sub>** ASITKA PEAK STOCK:  $\epsilon$ J<sub>sd</sub>; quartz diorite  
**UJ<sub>sd</sub>** McConnell Range and Fredrickson Peak stocks:  $\epsilon$ J<sub>md</sub>; quartz monzodiorite, and quartz diorite plugs adjacent to the Sustut River:  $\epsilon$ J<sub>s</sub>; leucocratic porphyry plugs

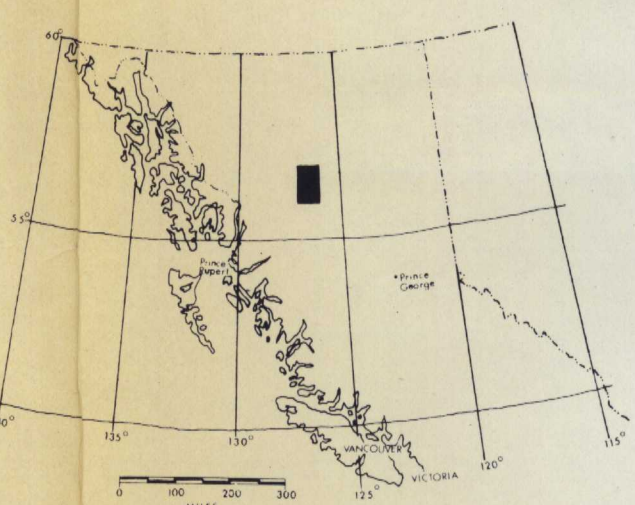
**LATE TRIASSIC**  
**UR<sub>gb</sub>** gabbro, diabase, hypabyssal augite porphyry intrusions

**UR<sub>um</sub>** Alaskan-type ultramafics; gabbro, hornblende, pyroxenite and dunite

**LATE PALEOZOIC and ? TRIASSIC**  
**UR<sub>gr</sub>** Alpine ultramafics; serpentinite, serpentinized peridotite, greenstone

**MAP SYMBOLS**

- geologic boundary: known, approximate, inferred.....
- limit of mapping and exposure .....
- fault: known, approximate, inferred .....
- high angle reverse fault: known, approximate, inferred .....
- thrust fault: known, approximate, inferred .....
- bedding: upright, vertical, overturned .....
- foliation or schistosity: inclined, vertical .....
- fold: anticline, syncline .....
- metamorphic isograd .....
- K/Ar Ae determinations .....



LOCATION: McConnell Creek Map-Area

Geology By: C.S. Lord (1948); N.B. Church (1973, 1974); G.H. Eisbacher (1974); C.J. Dodds, T.N. Irvine, O.L. Jelensky, J.L. Mansy, J.W.H. Monger, T. Richards, H.W. Tipper and G. Woodsworth (1975)

Geology Compiled By: T. Richards (1975)

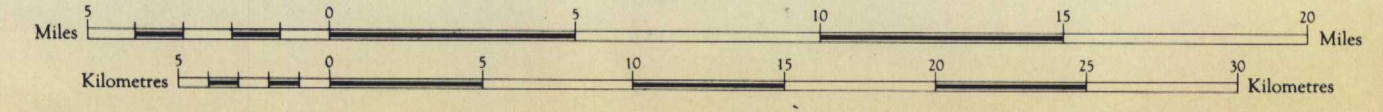
Cartography By: G.R. Dumas, T. Richards and J. Deloy



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**McCONNELL CREEK MAP-AREA**  
**(94D/E)**  
**GEOLOGY**



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