## **ISKUT PROJECT**

STRATIFIED AND INTRUSIVE ROCKS

atified Rocks			Structure symbols
tiary and Quaternary		Permian	Bedding, facing determined
Qs unconsolidated fluvial and glacial sediments		STIKINE ASSEMBLAGE biostratigraphic limits: pre-Upper Triassic known biostratigraphic range: Devonian-Permian	inclined ح vertical
Qv Stikine volcanic suite: olivine+plagioclase-phyric basaltic lavas, tephra, and scoria deposits		Pc white crinoidal limestone	⇒ overturned
assic			Bedding, facing unknown
BOWSER LAKE GROUP biostratigraphic limits: post-Middle Bajocian		Lower Permian and Older	<ul> <li>∖ inclined</li> <li>∖ vertical</li> </ul>
known biostratigraphic range: Middle Bajocian to Kimmeridgian		Pvt felsic tuff, breccia, minor lavas	
JrB undifferentiated sedimentary rocks		Pp phyllite, siliceous siltstone, minor chert	Slaty cleavage/schistosity, phase I
JrB1 chert pebble to cobble conglomerate, interstratified sandstone			, vertical
JrB2 fine- to coarse-grained sandstone, minor interstratified conglomerate or mudstone		Pvp foliated plagioclase porphyry, phyllitic and tuffaceous siltstone and	Slaty cleavage/schistosity, phase II
JrB3 thinly-bedded mudstone and siltstone		PIb limestone clast breccia with medium-grained wacke matrix	
HAZELTON GROUP biostratigraphic limits: post-Rhaetian, pre-Middle Bajocian			i vertical
known biostratigraphic range: Hettangian-Sinemurian to Middle Bajocian		Intrusive Rocks	Gneissic layering
JrH sedimentary and volcanic rocks, undifferentiated		Tertiary	`■, vertical
Salmon River Formation biostratigraphic limits: post-Upper Aalenian, pre-Middle Bajocian		COAST PLUTONIC SUITE	Crenulation fabric
known biostratigraphic range: Bajocian		TC biotite+hornblende granite, minor quartz diorite; associated dykes	
JrH5 bimodal volcanic rocks and interstratified sedimentary rocks		TL Lee Brant stock: hornblende-biotite quartz monzonite	<ul> <li>crenulation cleavage, inclined</li> <li>crenulation cleavage, vertical</li> </ul>
Troy Ridge Member			Mesoscopic fold
JrH5S intercalated sedimentary rocks		Uncertain	✓ fold axis
JrH5Sa thinly-bedded carbonaceous mudstone, turbiditic mudstone to siltstone, locally chert		TJrN Nickel Mountain olivine gabbro and related stocks	• axial surface, inclined
Eskay Rhyolite Member			<ul> <li>axial surface, vertical</li> <li>kink band axis</li> </ul>
JrH5R rhyolite lavas, autoclastic breccias		Jurassic TEXAS CREEK PLUTONIC SUITE	لانبه kink band boundary, inclined
Bruce Glacier Member	John Peaks Member	JrL Lehto Pluton: k-feldspar+porphyritic monzodiorite; monzonite and	quartz diorite
JrH5F felsic volcanic rocks, undifferentiated	JrH5M mafic volcanic rocks	JrLb k-feldspar megacrystic porphyry phase	duartz dionte
JrH5Fa massive, aphyric flow-banded lavas, minor flow breccia	JrH5Ma massive andesitic to basaltic lavas; plagioclase+/-clinopyroxene-phyric	JrLc equigranular phase	Slickenside lineation
JrH5Fb ash, lapilli tuff, non-welded to densely-welded; aphyric to quartz+k-feldspar-phyric	JrH5Mb pillow lavas, broken pillow breccia, interbedded mudstone		Flow - banding, inclined
JrH5Fc volcanic breccia, monolithic to slightly heterolithic	JrH5Mc volcanic breccia , hyaloclastite, interbedded mudstone	JrMe Melville pluton: hornblende+biotite diorite to quartz diorite	Eutaxitic foliation, inclined     Quartz +/- carbonate extension veir
JrH5Fd epiclastic breccia to subangular volcanic conglomerate		JrJ John Peaks Pluton hornblende diorite	Mineral orientation lineation
Betty Creek Formation biostratigraphic limits: post-Hettangian/Sinemurian, pre-Middle Bajocian		JrDi unnamed dioritic plutons and stocks	Intersection lineation
known biostratigraphic range: Upper Pliensbachian to Upper Aalenian		JrP k-feldspar+plagioclase+hornblende porphyry (includes Eskay porp	hyry)
Treaty Ridge Member Sedimentary unit		JrMi Mitchell/Sulphurets suite: granite, monzonite, quartz monzonite, m	onzodiorite Megascopic fold axial surface trace
JrH4 undifferentiated sedimentary rocks		Jrl Inel porphyry	antiform, upright
JrH4b volcanic sandstone, conglomerate, local bioclastic sandy limestone intervals			synform, upright
JrH4c turbiditic mudstone to siltstone		JrR Red Bluff porphyry	→ type synform, overturned
JrH4d thinly-bedded to massive limestone		JrIR Iskut River stock: k-feldspar megacrystic monzodiorite	
Brucejack Lake Member	Unuk River Member	JrQd quartz diorite, unnamed	Stratigraphic or intrusive contacts
Felsic volcanic rocks	Andesitic volcanic and epiclastic rocks	JrF felsic dykes and stocks, unnamed	approximate
JrH3 undifferentiated felsic volcanic and epiclastic rocks	JrH2 undifferentiated andesitic volcanic and epiclastic rocks	JrHd Harrymel Ridge diorite	- · - · - · inferred
JrH3a fine-grained crystal tuff; epiclastic conglomerate, well-bedded	JrH2b epiclastic rocks: red to green coarse-grained sandstone to conglomerate; medium- to thickly-bedded, cross stratification common	JrK Brucejack Lake k-feldspar megacrystic porphyry	Faults
JrH3b flow-banded dacite to rhyolite lavas	JrH2c andesitic volcanic breccia/block tuff; hornblende+plagioclase-phyric clasts, some interstratified epiclastic rocks	JrQm quartz monzonite, unnamed	Туре
JrH3c lapilli tuff, variably welded			defined approximate
Jack Formation biostratigraphic limits: post-Rhaetian, pre-Upper Pliensbachian		Triassic	- · - · - · inferred
known biostratigraphic range: Hettangian/Sinemurian Boundary		STIKINE PLUTONIC SUITE	Motion
Basal sedimentary unit		TrDi diorite, locally agmatitic texture	reverse motion, teeth on upper plat
JrH1       undifferentiated sedimentary rocks         JrH1a       clast-supported granitoid pebble to boulder conglomerate		TrB Bronson stock diorite	$\frac{D}{U}$ normal motion, D = downthrown sid
clast-supported granitoid pebble to boulder congiomerate		TrSy k-feldspar megacrystic syenite	strike-slip motion
sic			Change in level of stratigraphic deta
TUHINI GROUP biostratigraphic limits: post-Permian, pre-Hettangian/Sinemurian			Limit of mapping
known biostratigraphic range: Carnian-Rhaetian			
TrS volcanic and sedimentary rocks, undifferentiated			
TrSv undifferentiated volcanic rocks			
Mafic volcanic rocks	Metamorphic Equivalents of Stuhini Group Rocks		
TrSm undifferentiated basaltic volcanic lavas, tuffs and volcanic breccia	TrSmm mafic schist or gneiss (hornblende, plagioclase; relic clinopyroxene cores)		
TrSm1 basaltic clinopyroxene+plagioclase-phyric lapilli to block tuff			
Intermediate volcanic rocks			
TrSi undifferentiated andesitic volcanic lavas, tuffs and volcanic breccia	TrSim amphibole schist or gneiss		IDRU
TrSi1 andesitic clinopyroxene/hornblende+plagioclase-phyric block tuff, volcanic breccia			I Deposit Research Unit Geoscience E
TrSi2 heterolithic conglomerate, mainly andesitic clinopyroxene/hornblende+plagioclase-phyric clasts			·
Sedimentary rocks			
TrSs undifferentiated sandstone, mudstone, conglomerate, limestone	TrSsm phyllite to phyllitic schist		Geoscience BC Report 2013-05
TrSs1 thinly- to medium-bedded argillite, siltstone turbidites; interstratified sandstone and wacke	TrSs1m phyllitic metasandstone, phyllite		lokut Divor Area Caalaan
TrSs2 pale green thinly-bedded siliceous siltstone, mudstone			Iskut River Area Geology
TrSs3 thinly- to medium-bedded feldspathic fine-grained sandstone/wacke; interstratified siltstone to mudstone	TrSs3m phyllite, siliceous phyllite	Geological Legend	
medium- to thickly-bedded coarse-grained feldspathic sandstone and			Geological Legellu
tuffaceous heterolithic conglomerate TrSs5 massive dark green sandstone/wacke			Compiled by Peter D. Lewis
TrSs6 limestone	TrSs6m white to grey coarsely crystalline marble		
TrSs7 green andesitic boulder conglomerate			
green andesitie boulder congionierate			January 2013
TrSs8 orange weathering, medium to coarse fossiliferous wacke	TrSs8m phyllitic fossiliferous metasandstone		
	TrSs8m phyllitic fossiliferous metasandstone	Sug	ggested Reference: vis, P. D. (2013): Iskut River Area Geology, Geological Legend; Geoscience BC

## GEOLOGICAL SYMBOLS

