

STRATIFIED ROCKS

QUATERNARY
PLEISTOCENE AND RECENT
Qsl landslides deposits (1150)
Qs undivided surficial deposits: incl. glacial deposits, alluvium, and colluvium.

ERYTHRINE AND (>) YOUNGER

MIOCENE AND (>) YOUNGER

reddish brown basaltic flows; minor interbedded basaltic tuff, agglomerates, and conglomerate (predomin. basaltic clasts); loc. (1149/15, 1150).

Mt. - "black" glacial and fluvial gravel, and sands; may incl. uppermost Miocene. (1150).

MIOCENE TO PLIOCENE AND (>) YOUNGER

YUKON LAVA: (New to Nw Incv.) reddish brown basaltic flows; minor interbedded basaltic tuff, agglomerates, and conglomerate (predomin. basaltic clasts); loc. (1149/15, 1150).

Nw reddish brown basaltic flows; minor interbedded basaltic tuff, agglomerates, and conglomerate (predomin. basaltic clasts); loc. (1149/15, 1150).

SE. CLASS PROVINCE: (1150/15)

NWu basalt, trachybasalt, andesite flows and pyroclastic rocks; minor volcanic conglomerate.

NWm porphyritic and non-porphyritic basaltic andesite flows (minor pyroclastic), thin interbedded basalts, andesite, andesitic tuff, andesitic clasts; some interbedded andesite and sandstone; clastics are (?) related to intra Wrangell ("M0") intrusive phase.

Nwgx volcanic conglomerate; Intra Wrangell; class all Wrangell derived.

Nwpv acid tuff or ash flows - Intra Wrangell: (?) related to Mf sub-volcanic intrusions.

Nwi thick, blocky, mafic to non-pyroclastic basaltic andesite flows, loc. interbedded with light grey clay and caliche silstones; overlain by thin, clastic interbedded andesite flows.

ALASKA PROVINCE: (1150/15, 1150/12)

Nw4 thick, uniform basaltic andesite and andesite flows.

Felsic pyroclastics; loc. incl. acid breccias, ash flows; and air fall tephra; may be related to Felsite Creek pyroclastic.

Nw3 basalt, trachybasalt, andesite flows and pyroclastics; possibly related to central conduits (breccia pipe).

Nw2 loc. rhyolite and/or andesite lava, thin to thick ash flows and pumice.

TERTIARY

NEOGENE AND (>) OLDER

MIOCENE TO PLIOCENE AND (>) OLDER

Nv basaltic flows; minor rhythmic flows and tuffs; probably equiv. to Nw but may in part be equiv. to Pst. (1149/11, 1150).

PALEOGENE

OLIGOCENE AND, (>) OLDER AND/OR YOUNGER

MAMMOTH FORMATION: yellowish buff to grey buff sandstones, pebbly conglomerates, and sandstone-clay shales; thin bedded non-grey carbonaceous shale and thin coal beds; (continental clastics; pred. fluvial deposits); loc. sandstone, mass flow and lacustrine deposits. (1149/10, 1150). Loc. may incl. Intra Wrangell or older.

OLIGOCENE AND OLDER

sandstone, shale, conglomerate, polymictic conglomerate; minor carbonaceous shale, and thin coal beds; may in part be equiv. to Qs. (1149/9, 10, 11, 11, 11).

Pvs volcanic breccia, tuff; loc. Intra. predom. basaltic and andesite flows; C. meta., by Qs. (1149/2, 7, 10, 11).

EOCENE AND PALEOCENE

EX. KURETHREE FORMATION: light grey sandstone - in part arkosic, thin bedded, massive, pebbly conglomerate, and thin coal beds; (shallow marine and non-marine deltaic-shelf bar deposits). (1150/7)

< Tertiary

HAYDEN PEAK FORMATION: dark grey, partly silty slaty, loc. fine-grained with sandstone, and rarer carbonaceous and tuffaceous sandstone; pebbly conglomerate and basaltic tuff; (marine shelf deposits). (1150/7)

CRETACEOUS

UPPER CRETACEOUS

ukS sandstone, conglomerate, shale, siliceous tuff; (shallow marine shelf deposits). (1150/15)

LOWER CRETACEOUS

IKC CHESNA FORMATION: barite, andesite flows, and pyroclastics; (shallow marine to subaerial). (1150/15)

CRETACEOUS AND (>) OLDER

TAGHIT GROUP: (Gog) marl, felsite, melange; unsorted on map; (1150/7, 8)

"taghit facies": unsorted blocks (to several cm) of preexisting limestone, marble, granitic plutonic rocks, chert, grey-green sandstone, andesite, and tuffaceous pelite; C. meta. common to (3), to (4).

"taghit facies" (loc.): grey to brown lithicfeldspatic pebbly conglomerate, and sandstone; thin bedded, massive, pebbly conglomerate to black siltstone, argillite, or slate. R. meta. (1) to (2).

VALLEY GROUP: (Kw to Kw Incv.); (deep) purple Palaeo basic volcanics, and meta. equivs. (1150/7 to 10; 1150/8, 1150/9, 1150/10 to 12).

KV green argillite, pyroclastics; R. meta. to (2) or low (3).

KVm green argillite, marl, green dolomite, green dol. sls.; plgs. (loc.); green dol. to v. low (3); Kw to Kv (17).

KVgn brown granofels, marl, dark brownish grey schist; incl. granofels dykes, sls., plgs. (loc.).

KVg green pillow lava, breccia, tuff, R. meta. (1) to (2).

KVvm very dark green amphibolite; meta. equiv. of Kv, R. meta. to high (3) or (4).

JURASSIC AND CRETACEOUS

UPPER JURASSIC TO LOWER CRETACEOUS

DEERFIELD

JkD dark grey argillite, pyroclastics; R. meta. to (2) or low (3).

JkM green argillite, marl, green dolomite, green dol. sls.; plgs. (loc.); green dol. to v. low (3); Kw to JkD (17).

JkV green pillow lava, breccia, tuff, R. meta. (1) to (2).

JkVm very dark green amphibolite; meta. equiv. of Kv, R. meta. to high (3) or (4).

JURASSIC AND CRETACEOUS

UPPER JURASSIC TO LOWER CRETACEOUS

TRIASSIC TO CRETACEOUS

UPPER TRIASSIC TO LOWER CRETACEOUS

URKs dark grey phyllite minor pyroclastics and conglomerate; incl. JkD and upper noncalcareous member of McArthur Mf., loc. may incl. younger.

URKc dark grey argillite, dark grey shale, and dark grey argillite; (marl: 0 to 400 m.)

URKc1 greenish grey dolomite, massive light grey dolomites, thin bedded dolomite, and dolomitic dolomite; thin bedded dolomite; lowest part intruded - supradol. local sabkha: 0 to 300 m.; loc. may incl. vch.

URm white to creamy white gypsum and anhydrite.

URh dark grey greenish dolomite, dark grey dolomite, and dark grey dolomite; rare greenish dolomite and greenish dolomite; thin bedded dolomite; base at: (subaerial), loc. Sabkha: 0 to 1000 m.; loc. may incl. JkC, JkA, and rare vch. R. meta. to (2).

MIDDLE TRIASSIC

dark grey phyllite (loc.); thin to thin grey limestone; (marl: 0 to 200 m.) (1150/7, 1150/8, 1150/9, 1150/10).

URKb white to cream-colored dolomite, andesite flows, and pyroclastics; may incl. argillite, marl, and dolomite; may incl. older; may incl. older rocks; R. meta. to (4) or greater: (1149/9, 15, 16).

URKd meta. to (4) or greater: (1149/9, 15).

PALEOZOIC AND/OR RESERVOIR

PRt yellowish grey dolomite, dark argillite, marl, conglomerate; may incl. pyroclastics, older pyroclastics, and pyroclastic rocks; R. meta. to (4); (1150/10).

PRMs greenish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRMm white to cream-colored dolomite, andesite flows, and pyroclastics; may incl. older rocks; R. meta. to (4) or greater: (1149/9, 15).

PRt1 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt2 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt3 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt4 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt5 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt6 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt7 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt8 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt9 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt10 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt11 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt12 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt13 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt14 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt15 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt16 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt17 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt18 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt19 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt20 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt21 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt22 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt23 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt24 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt25 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt26 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt27 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt28 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt29 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt30 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt31 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt32 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt33 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt34 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt35 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt36 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt37 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt38 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt39 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

PRt40 yellowish grey dolomite, dark argillite, marl, and pyroclastics; R. meta. to (4) or greater: (1149/9, 15).

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