COMMON LEGEND FOR OPEN FILE 475A TO P

TABLE OF FORMATIONS

HELIKIAN

Md Mackenzie Dyke Swarm (1250 m.y.): NNW trending vertical diabase dykes

Mg Christie Bay gabbro cone sheet; Mg' olivine(?)-rich phase

ET-THEN GROUP

Ep Preble Formation: pebbly sandstone, red and buff, crossbedded, feldspathic-lithic arenite, carbonate or silica cemented

Em Murky Formation: fanglomerate, red and buff, thick bedded, mostly sedimentary clasts, sandstone lenses; Ev basalt flows, oxidized

---------- unconformity ----------

LATE APHEBIAN

CHRISTIE BAY GROUP

Cf Fortress Formation: sandstone, buff, medium bedded, feldspathic, red mudstone at base

Cv Pearson Formation: basalt flows, columnar jointed, intercalated red mudcracked mudstone

Cp Portage Formation: silty mudstone, red, very thin bedded, mudcracked, ripple marked, halite and gypsum casts

Ct Tochatwi Formation: sandstone, red, thick planar crossbedding, mudcracked, feldspathic-lithic arenite, reworked carbonate gritstone beds, basal part brecciated locally

Cm Cd Caribou laccoliths: sill-like intrusions, Cm (eastern type) porphyritic hornblende quartz monzonite, Cd (western type) hornblende-biotite diorite, floors near the top of Pethei Group, roofs arch into Stark megabreccia

Cs Stark Formation: upper part: mudstone, red, thin bedded, mudcracked, halite casts, reworked carbonate gritstone beds, brecciated in part

lower part: megabreccia, chaotically dispersed blocks and folded sheets of stromatolitic and ripple marked limestone and dolomite (not derived from older formations) in brecciated red mudstone; Csv rare blocks of pillow basalt and pillow breccia

PETHEI GROUP

(Basin Facies)

Pb Blanchet Formation: Pbp upper part: greywacke, reddish brown to greenish grey, medium graded beds, interbedded with rhythmic limestone (Pekanatui lithosome)

Pbm lower part: greywacke, reddish brown to greenish grey, medium to thick graded beds, interbedded with stromatolitic marlstone (McLean lithosome)

(Slope Facies)

Pp Pekanatui Formation: limestone, pale grey, fine grained, very thin rhythmic bedding, dark shale partings, slump breccia beds common, rare dolomite turbidite beds

Pm McLean Formation: marlstone, reddish brown to greenish grey, thin bedded, digitate to columnar calcareous stromatolites, rare dolomite turbidite beds

(Platform Facies)

Ph Hearne Formation: limestone, pale grey, very thick bedded, fenestrate, thin stromatolitic dolomite bed at top

Pw Wildbread Formation: limestone, pale grey, thick fenestrate bed at base, alternating stromatolitic and oolitic beds in middle, thick columnar stromatolitic bed at top

Pu Utsingi Formation: limestone, pale grey with brown dolomitic mottling, thick bedded, fenestrate, poorly laminated digitate to columnar stromatolites

Pt Taltheilei Formation: dolomite, pale brown, cherty, thick mounded stromatolites at base, medium bedded columnar and undulatory stromatolites in middle, thick columnar stromatolite bed at top

(basal formation in all facies)

Pd Douglas Formation: marlstone, red, fissile, very thin calcareous lenticles, shale partings

KAHOCHELLA GROUP

Kc Charlton Formation: shale, dark grey green, laminated, large calcareous concretions, thin graded siltstone beds, locally tuffaceous, bed of coalesced concretions at top

Km McLeod Formation: shale, red, laminated, small calcareous concretions, thin beds of granular hematite ironstone at top

Kg Gibraltar Formation: shale, red, laminated, locally tuffaceous, quartz gritstone bed at base near Reliance; Kg' basin facies with thin graded siltstone beds

Ko Ogilvie Formation: shale, dark grey green, large calcareous concretions, locally tuffaceous

(The following igneous units occur in all formations of the Kahochella Group around discrete volcanic centres.)

Kr rhyolite domes: buff to red, massive to flow-banded or brecciated, mainly extrusive

Kt basalt tuff: green, vitric-lithic lapilli tuff and ashstone, waterlaid, in part reworked, intercalated with granular hematite ironstone beds

Kf basalt flows: pillow basalt and pillow breccia, pale green, intercalated with granular hematite ironstone beds

Kb basalt breccia pipes: unbedded, irregularly intrusive, locally contains exotic clasts, poorly sorted

Jg Jackson gabbro: irregular intrusions, highly variable in grain size and texture

SOSAN GROUP

Sa Akaitcho Formation: sandstone, red, micaceous, low-angle planar crossbedding, mudcracked, glauconitic, locally tuffaceous, in part intertongued with Kluziai Formation

Sk Kluziai Formation: quartzite, pink to pale grey, medium trough crossbedding, heavy mineral bands, mud chip conglomerate, locally tuffaceous

Sd Duhamel Formation: dolomite, dark brown to pale brown, mounded digitate stromatolitic beds at base, alternating oolitic, oncolitic and stromatolitic beds with herringbone crossbedded quartzite beds in middle, columnar stromatolite beds at top, locally tuffaceous

Sh Hornby Formation: pebbly gritstone, feldspathic, grey with purplish hematitic mottling, medium trough crossbedding, conglomerate and stromatolitic dolomite locally at base, locally tuffaceous

(The following units intrude the Hornby Formation but may be much younger than the Sosan Group.)

Vd Vestor diatremes: intrusive heterolithic megabreccia, irregularly dyke-like, mainly sedimentary fragments, pseudoconglomerate

Vb bostonite dykes: fine grained albite rock, spatially associated with and brecciated by Vestor diatremes

(The following igneous units occur in all formations of the Sosan Group around discrete volcanic centres.)

Sw rhyolite welded tuff: reddish to greenish buff, moderate to strong welding, abundant lithic clasts and flattened pumice, eutaxitic

Sr rhyolite lava domes: red to buff, flow-banded, columnar jointed, autobrecciated, mainly extrusive

Sp felsic porphyry: pink to pale grey, albite phenocrysts, mainly intrusive

St basalt tuff: green to buff, vitric-lithic air-fall lapilli tuff, largely reworked, bedded and crossbedded, includes felsic porphyry detritus, locally waterlaid, mudcracked

Sf basalt flows: columnar jointed flows and flow breccias, oxidized

Sb basalt breccia pipes: unbedded, irregularly intrusive, abundant exotic clasts

Jg Jackson gabbro: irregular intrusions, highly variable in grain size and texture

UNION ISLAND GROUP

Um laminated mudstone: red and green, slump scars and bedding truncations

Ub upper dolomite: dark to pale brown, medium bedded, laminated, argillaceous, slump breccia beds, quartz pebblestone lenses

Us black shale: carbonaceous, pyritic, fissile, interbeds of dark dolomite in lower part, graded quartzite beds in upper part

Ud lower dolomite: thick bedded, pale brown, massive, locally with granitic talus breccia and granite wash, quartzite and quartz pebblestone beds locally at base, complex dolomite and quartz filled veins, some with internal detrital sediment

(The following igneous units occur in the upper part of the Union Island Group in two discrete volcanic centres.)

Ut basalt tuff: massive to well-bedded agglomerate and lapilli tuff

Uv basalt flows: pillow basalt and pillow breccia, locally massive flows

Ug gabbro sills: coarse grained, in part glomeroporphyritic

---------- unconformity ----------

S'd Simpson dyke swarm: altered ENE trending vertical diabase dykes

Eg Easter Island dyke (2200 m.y.): differentiated biotite-bearing gabbro, altered in eastern part, SSE dipping, locally with olivine-rich margins

EARLY APHEBIAN

Bg Butte granite: altered and deformed biotite granite or adamellite

WILSON ISLAND GROUP

Wa' amphibolite dykes: NNE trending, deformed and metamorphosed

Wb basalt flows: porphyritic and scoriaceous basalt flows and flow breccia

Wm siltstone: dark greenish grey, thin bedded to laminated

Wt turbidite: medium to thin graded quartzite beds in dark greenish grey laminated siltstone

Wh hematitic quartzite: maroon to dark grey, medium bedded

Ws interbedded quartzite and siltstone: grey, thin bedded to laminated, ripple marked

Wq quartzite: white to pale grey, trough crossbedded, minor feldspathic quartzite beds

Wd dolomite: laminated to crossbedded, in part argillaceous and quartzitic

Wa feldspathic quartzite: white to pink, trough crossbedded, medium bedded, minor quartzite beds, dolomitic beds in upper part

Wc conglomerate: feldspathic-lithic sandstone with boulders of granite, basalt and rhyolite, trough crossbedded, mudcracked, pale grey to buff

Wf felsic domes: red to buff, massive, mainly intrusive

Wv bimodal volcanic complex: intercalated basalt and rhyolite flows, interbedded conglomerate, sandstone and mudstone, minor tuffaceous beds

---------- ?unconformity? ----------

ARCHEAN

Ag undifferentiated granitic and gneissic rocks

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