

PHANEROZOIC
 CENOZOIC
 QUATERNARY

Qa Alluvium—clay, silt, sand, and gravel; in stream channels and flood plains

Czts **Cztd**

Czts Evaporite interbedded with clay, silt, and sand in playas
Cztd Sand, silt, and gypsum in stabilized dunes adjacent to playas

Czc **Czg** **Czs** **Czl** **Czz**

Czc Colluvium—gravel and sand as sheetwash and talus; includes laterite fragments
Czg Quartzo-feldspathic sand over granitoid rock
Czs Sandplain—yellow sand with some pisolitic laterite pebbles; includes stabilized dunes
Czl Laterite
Czz Silcrete

PROTEROZOIC

Edy Mafic dykes; mafic and ultramafic dykes inferred from aeromagnetic data where dashed
 Edyi — Pinjin Dyke

q **g** **p** Veins and dykes: q — quartz, g — granitoid, p — pegmatite

Ag **Agm** **Agmg** **Agmo** **Agg** **Agy** **Ags** **Agq** **Agt**

Ag Granitoid rock, undivided; includes strongly weathered rock
Agm Biotite monzogranite; even-grained and K-feldspar porphyritic textures; locally weakly foliated
Agmg **GALVALLEY MONZOGRANITE**; prominent K-feldspar megacrysts; local foliation defined by aligned K-feldspar and biotite
Agmo **GOAT DAM MONZOGRANITE**; with minor biotite
Agg Granodiorite; plagioclase-phyric; with biotite
Agy Syenogranite; with minor biotite
Ags Syenite
Agq Quartz syenite to quartz monzonite; with hornblende and local minor clinopyroxene; numerous mafic enclaves
Agt Tonalite to quartz diorite; with hornblende and biotite

Ang Banded granitoid gneiss; locally migmatitic

Apg **Apm** **App** **Aph**

Apg Granitoid porphyry; sill or dyke; prominent feldspar, quartz and/or biotite phenocrysts
Apm Monzogranite porphyry; characteristic K-feldspar megacrysts and small plagioclase phenocrysts; massive to weakly foliated; substantial dykes and stocks
App Plagioclase porphyritic, biotitic felsic schist; numerous euhedral plagioclase and rare quartz phenocrysts; strongly foliated; narrow sills and dykes
Aph Plagioclase-hornblende porphyry

As **Ash** **Aso** **Asf** **Ac** **Aci** **Acis**

As Sedimentary rock, undivided
Ash Grey slate, siltstone, and quartzo-feldspathic mica schist; well foliated; with biotite, and local garnet, andalusite and/or staurolite porphyroblasts
Aso Oligomictic conglomerate; abundant felsic porphyry and rare chert clasts in quartzo-feldspathic matrix
Asf Quartzo-feldspathic, micaceous slate, siltstone, and sandstone; well foliated; interlayered with feldspar-phyric schist of felsic volcanic and volcanoclastic derivation; includes chloritic and carbonate-bearing schist
Ac Chert, locally grey-white banded; includes variably silicified grey to black slate, finely layered and locally pyritic
Aci Banded iron-formation, oxide facies; quartz-magnetite(-biotite) rock interlayered with chert; interpreted from aeromagnetic data where dashed
Acis Banded iron-formation, silicate facies; grunerite(-hornblende) layers interlayered with chert

ARCHAEAN

Afv **Afp** **Aft** **Afx** **Afs**

Afv Felsic volcanic and volcanoclastic rock; variably foliated; with prominent feldspar and/or quartz phenocrysts or clasts; includes fragmental rocks, and crystal-lithic and finely layered tufts
Afp Feldspar-quartz porphyry; with biotite; volcanic and/or subvolcanic derivation
Aft Felsic tuffaceous rock; finely banded; foliated; fine- to medium-grained quartz and feldspar phenocrysts
Afx Felsic fragmental volcanic rock
Afs Quartzo-feldspathic micaceous schist; felsic volcanic, subvolcanic and/or volcanoclastic derivation; with local staurolite, garnet and/or andalusite

Aiv **Ais**

Aiv Intermediate volcanic rock; andesite with feldspar and hornblende phenocrysts; epidote and/or carbonate alteration common; includes feldspar-quartz-chlorite-hornblende schist
Ais Intermediate schist; hornblende-biotite-quartz-feldspar schist with variable hornblende content; locally feldspar-phyric and garnetiferous; local relict fragmental layers; with interlayered felsic schist and amphibolite

Ao **Aop** **Aog**

Ao Mafic intrusive rock, undivided; dolerite, gabbro
Aop Dolerite-gabbro, with coarse plagioclase phenocrysts
Aog Gabbro, with minor pyroxenite and quartz gabbro

Ab **Abp** **Abd** **Abm** **Abv** **Abi** **Abs** **Aba** **Abf**

Ab Basalt, undivided; includes feldspar-hornblende or chlorite schist; includes strongly weathered rock
Abp Basalt, with medium- to coarse-grained feldspar phenocrysts
Abd Basalt, dolerite-textured; amygdaloidal; local epidote alteration
Abm Komatiitic basalt with quenched pyroxene (amphibole) texture; variolitic
Abv Basalt, variolitic; pillowed; komatiitic affinity
Abi Basalt to basaltic andesite; amygdaloidal, feldspar-phyric; with hyaloclastite and fragmental/tuffaceous layers; hornblende-feldspar schist with ovoid quartz aggregates
Abs Basaltic schist, strongly metasomatized; includes carbonated rock, biotite-hornblende and clinopyroxene-tremolite schist
Aba Basaltic schist to amphibolite; local epidote alteration; includes garnet- and clinopyroxene-bearing layers
Abf Basaltic schist and amphibolite (Aba, Ama) interlayered with intermediate schist (Ais) and felsic schist (Afs); regular to lensoidal banding

Ama **Amx**

Ama Amphibolite and quartz-feldspar-hornblende schist; pervasively foliated and recrystallized; commonly banded; clinopyroxene-, cummingtonite-, and/or garnet-bearing layers; with small hornblende-quartz-feldspar aggregates
Amx Mafic fragmental schist, medium-grained; irregularly layered; includes garnet-amphibole-feldspar rock with felsic schist fragments, banded amphibolite, and gabbroic-textured rock; with interlayered Afs, Afv and Ais

Au **Aup** **Aux** **Aut** **Aur**

Au Ultramafic rock, undivided; interpreted from aeromagnetic data where dashed
Aup Peridotite, serpentized; with local pyroxene phenocrysts
Aux Pyroxenite
Aut Talc-chlorite schist; with local carbonate
Aur Tremolite schist; with local magnetite porphyroblasts; with minor talc-chlorite schist