

PHANEROZOIC

CAINOZOIC

Qa Alluvium—clay, sand, silt, and gravel in channels

Czls **Cztd**

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

Czc **Czg** **Czd** **Czp** **Czl** **Czw**

Czc Colluvium—gravel, sand as sheetwash and talus
Czg Quartzo-feldspathic sand over granitoid rock
Czd Yellow sand in stabilized dunes
Czp Sandy colluvium with limonitic pisoliths on low plateaux associated with weathered granitoid (Czw)
Czl Laterite and reworked products
Czw Deeply weathered granitoid rock; mottled and leached zones of lateritic profile

E_{dy}

Mafic and ultramafic dykes—inferred from aeromagnetics

q **p** **a**

Veins and dykes: q—quartz; p—pegmatite; a—aplite

Ag

Granitoid rock, undivided

Agp **Agr** **Ag_{rh}** **Agm** **Agmg** **Agx**

Agp Granitic pegmatite
Agr Biotite-(muscovite-garnet) syenogranite and alkali-feldspar granite
Ag_{rh} CARPET SNAKE SYENOGANITE
Agm Biotite-(muscovite-garnet) monzogranite
Agmg **GALAH MONZOGANITE**
Agx Syenogranite and monzogranite interleaved with greenstone lithologies
Agd Diorite (subsurface only)

Late- to post-tectonic granitoids; massive, variably recrystallized, deformed in and near major shear zones

Agg **Aggx** **Agc**

Agg Biotite monzogranite and granodiorite, foliated; synplutonic dykes and enclaves of diorite to tonalite common at some localities
Aggx Agg interleaved with granitoid schist and diverse greenstone lithologies on all scales
Agc Granitoid schist; thin slices within greenstones

Pre- to syn-tectonic granitoids

Agn

Granitoid gneiss; composition of gneissic bands ranges from biotite monzogranite to tonalite; minor deformed diorite dykes

Pre-tectonic granitoids?

Apq **App**

Apq Quartz-feldspar porphyry
App Feldspar-(hornblende-biotite-quartz) porphyry

Ass **Asl** **Ac**

As Sedimentary rock, undivided (subsurface only)
Ass Sandstone, siltstone, and pebbly sandstone; locally associated with pelitic schist
Asl Quartz-mica-(feldspar) schist derived from pelitic precursor, phyllite, and slate; minor chert and black shale
Ac Chert

ARCHAIC

Af **Afx** **Afxt** **Afv** **Aft** **Afvc** **Afp** **Afd** **Afs**

Af Rhyolitic to rhyodacitic volcanic rock: massive to fragmental; porphyritic
Afx Rhyolitic to rhyodacitic tuff and oligomictic breccia; massive to poorly bedded, with lithic clasts (>1 cm) in fine-grained to glassy matrix; includes some Afv
Afxt Mixed rhyolitic and trachytic tuff and oligomictic breccia
Afv Feldspar-(quartz) porphyry (rhyolite to rhyodacite), minor dacite?, trachyte; massive to coarsely bedded; associated with minor Afs and As
Aft Rhyolitic tuff; finely bedded, fine-grained to glassy
Afvc Dacitic to rhyodacitic rock; massive to poorly bedded; crystal-rich fragmental rock with minor lithic fragments (<1 cm)
Afp Quartz-plagioclase porphyry (dacitic or rhyodacitic); massive, spherulitic texture common
Afd Dacitic to andesitic rock; massive to flow banded to brecciated; locally spherulitic
Afs Biotite-quartz-feldspar schist; coarsely bedded, feldspar porphyroclasts (<2 mm), and some lithic fragments; minor oligomictic conglomerate; local Afv, As, and Agc interbeds

Aih

Intermediate volcanic rock and breccia; plagioclase, hornblende and biotite phenocrysts, and local lithic fragments, in a fine-grained matrix

Aol **Aolg** **Aod** **Aon** **Aox** **Aot**

Aol Leucodolerite and leucogabbro, anorthositic gabbro, and anorthosite; includes quartz-bearing varieties, medium- to coarse-grained
Aolg Quartz-plagioclase-clinopyroxene rock; leucocratic, equigranular; massive to weakly banded
Aod Dolerite, quartz dolerite and amphibolite after dolerite; locally plagioclase-phyric
Aon Norite and gabbronorite; medium- to coarse-grained, locally with coarse hornblende oikocrysts
Aox Pyroxenite
Aot Olivine gabbronorite; olivine-plagioclase orthocumulate at base of layered sill

Ab **Abi** **Abx** **Abm**

Ab Basalt and basaltic schist; locally amygdaloidal and plagioclase-phyric; pillows and hyaloclastite preserved locally
Abi Andesitic basalt; abundant plagioclase microlites, locally with plagioclase phenocrysts; vesicles, amygdaloes, and gas pipes very common; pillows locally preserved
Abx Mixed basalt or mafic gneiss and diorite, tonalite complex
Abm High-Mg basalt and tremolite-rich schist; flattened varioles locally preserved

Ama **Amp** **Amr** **Amg**

Ama Amphibolite; medium- to coarse-grained
Amp Amphibolite; coarsely plagioclase-phyric
Amr Quartz dolerite, quartz diorite, tonalite, and mafic granophyre; Fe-rich, variably deformed, locally amphibolitic
Amg Mafic to intermediate gneiss; massive to spotted to banded, variably recrystallized; locally migmatitic? plagioclase-hornblende-clinopyroxene (-quartz-K-feldspar) assemblage

Au **Aup** **Aur**

Au Ultramafic rock, undivided
Aup Peridotite; olivine orthocumulate at base of layered sills
Aur Tremolite schist; minor talc-chlorite(-carbonate) rock

Metamorphosed at greenschist to upper amphibolite facies