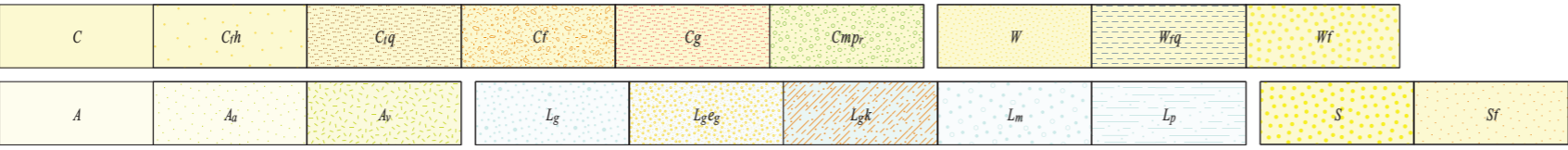


PHANEROZOIC
CENOZOIC
PROTEROZOIC
ARCHAIC



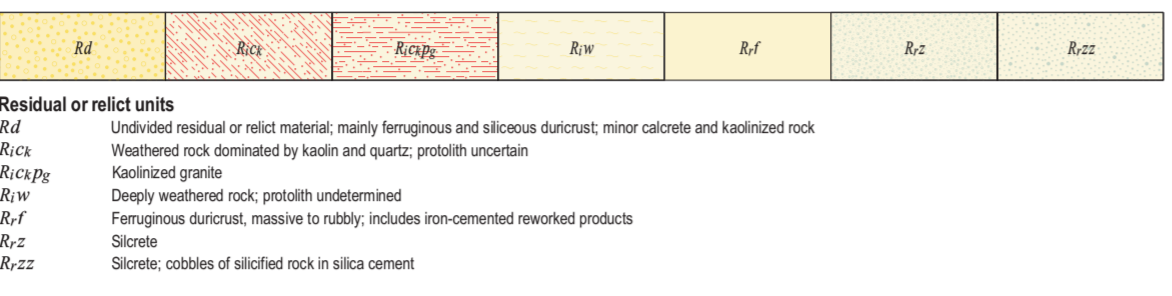
Colluvial units
C Colluvium derived from different rock types; includes gravel, sand, and silt
Ch Colluvial footslope dominated by sand rich in heavy minerals
Cq Talus from quartz vein
Cf Ferruginous gravel and reworked ferruginous duricrust
Cg Quartzofeldspathic gravel, sand, and silt commonly derived from granitic rock and associated weathering products
Cmp Lithic-rich colluvium dominated by mafic and ultramafic rock

Sheetwash units
W Clay, silt, and sand in extensive fans; local ferruginous gravel
Wq Clay, silt, and sand with abundant vein-quartz pebbles on sheetflood fan
Wf Clay, silt, and sand with abundant ferruginous grit

Alluvial units
A Clay, silt, sand, and gravel in channels and on floodplains
Au Clay, silt, sand, and gravel on alluvial plains
Av Alluvial fan deposits; includes gravel, sand and silt

Lacustrine units
Lg Silt, sand, and gravel in halophyte flats adjacent to playas
Lge Lithified and unconsolidated gypsum and clay, in locally well bedded deposits fringing salt lakes
Lgk Bedded carbonate, silt, and clay deposits in shallow lakes adjacent to streams and rivers
Lm Mixed dunes, evaporite, and alluvial deposits; typically adjacent to playa lakes
Lp Saline and gypsiferous evaporite deposits, clay, silt, and sand in playa lakes

Sandplain units
S Residual and eolian sand with minor silt and clay; low vegetated dunes locally common
Sf Undulating sandplains and dunes; sand, silt and clay in variable proportions; derived in part from ferruginous material

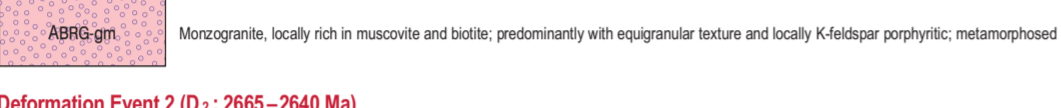


Residual or relict units
Rd Undivided residual or relict material; mainly ferruginous and siliceous duricrust; minor calcare and kaolinized rock
Rca Weathered rock dominated by kaolin and quartz; protolith uncertain
RcaPg Kaolinized granite
Rlw Deeply weathered rock; protolith undetermined
Rrf Ferruginous duricrust, massive to rubby; includes iron-cemented reworked products
Rz Silcrete
RzZ Silcrete; cobbles of silicified rock in silica cement

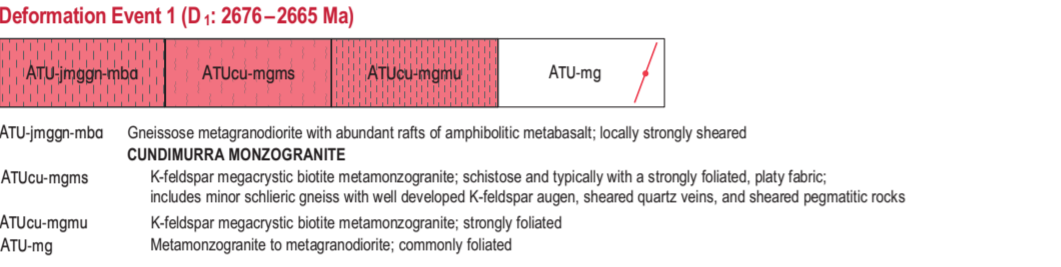
Bod Dolerite dyke, sill, or plug; fine- to medium-grained dolerite and gabbro

zq Quartz vein or pod; massive, crystalline, or brecciated; age uncertain

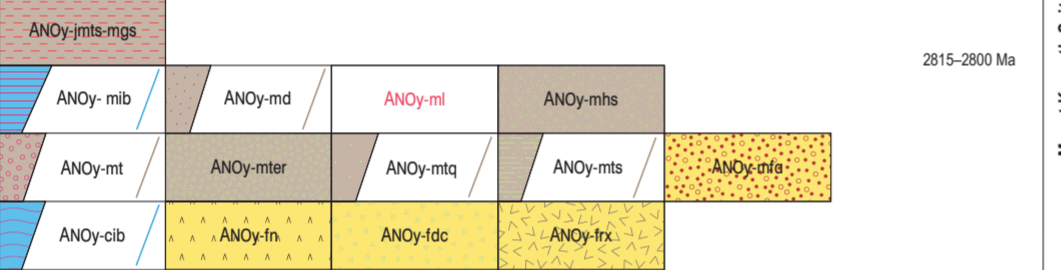
AgY Granitic rocks, undivided; metamorphosed
AgpY Pegmatitic granite; muscovite bearing; metamorphosed
Agof Tonalite with hornblende phenocrysts; local small, elliptical, mafic xenoliths; metamorphosed
AgpqY Quartz-feldspar porphyritic rock, as dykes; metamorphosed



Deformation Event 2 (D2: 2665-2640 Ma)
AJU-mg Biotite metagranite; dominantly metazonogranite; minor metagranodiorite, metasyenogranite, and metapegmatite; fine to coarse grained, locally gneissic
AJU-mgms Foliated biotite metazonogranite; minor metagranodiorite, metasyenogranite, and metapegmatite; fine to coarse grained; locally gneissic



Deformation Event 1 (D1: 2676-2665 Ma)
ATU-jmgg-mba Gneissose metagranodiorite with abundant rafts of amphibolitic metabasalt; locally strongly sheared
ATUcu-mgms K-feldspar megacrystic biotite metazonogranite; schistose and typically with a strongly foliated, platy fabric; includes minor schlieren; gneiss with well developed K-feldspar augen, sheared quartz veins, and sheared pegmatitic rocks
ATUcu-mgmu K-feldspar megacrystic biotite metazonogranite; strongly foliated
ATU-mg Metazonogranite to metagranodiorite; commonly foliated



YALOGINDA FORMATION
ANOy-jmts-mgs Abundant rafts of psammite schist in granitic schist
ANOy-mb Meta banded iron-formation; typically with coarse, granular, and recrystallized magnetite crystals; foliated
ANOy-md Metasedimentary rocks
ANOy-mi Pelite, locally strongly sheared (subsurface only)
ANOy-mhs Psammite and pelitic schist interlayered on a metre to decimetre scale; locally strongly sheared
ANOy-mt Psammite; locally strongly sheared and interlayered with sheets of metagranite
ANOy-mtr Equigranular psammite with cordierite poikiloblasts up to 10 mm in diameter
ANOy-mtq Quartzite; locally interlayered with psammite schist
ANOy-mts Psammite schist; locally grades into pelitic schist; locally strongly sheared
ANOy-mfo Metamorphosed andesitic and dacitic volcanic and volcanoclastic rock
ANOy-cib Banded iron-formation and ferruginous banded chert; metamorphosed
ANOy-fn Felsic volcanic and volcanoclastic rock; undivided; metamorphosed; typically deeply weathered and kaolinized
ANOy-fdc Dacitic volcanic conglomerate; minor volcanic sandstone; metamorphosed
ANOy-frx Rhyolite to rhyodacite breccia and tuff; massive to poorly bedded, with clasts (> 1 cm) in a fine-grained to glassy matrix; includes minor, thin rhyolite lava flows; metamorphosed



AAN-mod Amphibolitic metadolerite with relict porphyritic igneous texture; minor epidote
AANK-jgg-mog Granodiorite with locally abundant rafts of metagabbro up to 20 m long; metamorphosed
AANK-jmg-md Metagranitic rock, locally sheared with abundant rafts and lenses of sheared quartzite, psammite, and pelite
AANK-jmgg-mus Gneissose metagranodiorite with abundant rafts of ultramafic schist; locally strongly sheared
AANK-jmgm-mog Metazonogranite with muscovite-rich patches; abundant decimetre-sized rafts of metagabbro; locally strongly schistose
AANK-mg Metagranitic rock, locally sheared; includes deeply weathered rocks
AANK-mgg Metagranodiorite, typically with sparse biotite schlieren; locally with rafts of amphibolite derived from intrusive rocks
AANK-mgms Granitic gneiss with local pronounced micaceous foliation
AANK-mgrs Syngranitic schist
AANK-mgs Schistose metagranitic rock, locally strongly sheared; includes deeply weathered rocks
AANK-mgto Amphibole-rich metanorite; locally sheared
AANK-g Granitic rocks; metamorphosed; includes deeply weathered rock
AANK-gg Granodiorite, typically with sparsely distributed biotite schlieren; locally with rafts of amphibolite
AANK-giap Microdiorite; euhedral plagioclase phenocrysts in a glassy matrix; predominantly as dykes; metamorphosed
AANK-gn Monzogranite; typically with biotite phenocrysts; locally with rafts of amphibolite
AANK-gmv Muscovite-bearing monzogranite; locally includes biotite; metamorphosed
AANK-grpq Quartz-feldspar porphyritic rock, as dykes; metamorphosed



AANno-jmg-mog Metagabbro with relict hornblende oikocrysts; abundant rafts of recrystallized psammite, pelite, and quartzite; locally strongly sheared at lithological contacts
AANno-mog Metagabbro with local amphibole pseudomorphs after pyroxene; relict igneous texture typically well preserved; locally strongly sheared
AANno-mogo Metagabbro with amphibole pseudomorphs after pyroxene and local primary amphibole oikocrysts; locally strongly sheared
AANno-mat Serpentine, fine grained; strongly sheared; rare igneous textures preserved
AANno-musr Tremolite-chlorite(-talc) schist; strongly sheared
AANno-od Dolerite; locally grades into hornblende gabbro; metamorphosed
AANnm-mat Serpentine, fine grained; strongly sheared; rare igneous textures preserved
AANnm-xom-mat Megacrysts of serpentine grading into pyroxene, gabbro, and anorthosite; typically with hornblende-oikocrystic units; gabbroic rocks dominant; metamorphosed
AANnm-xom-ax Gabbro interlayered with pyroxene; locally with minor interstitial hornblende; metamorphosed
AANnm-oo Anorthosite with weak plagioclase lamination and crystals up to 8 mm; metamorphosed; locally as intrusive sheets with chilled margins
AANnm-om Gabbro; locally grades into leucogabbro and pyroxene-rich gabbro layers with minor interstitial hornblende; metamorphosed
AANnm-oml Leucogabbro with minor interstitial hornblende; locally grades into layers of gabbro; locally as intrusive sheets with chilled margins; metamorphosed
AANnm-owl Leuconite; locally grades into leucogabbro and norite with minor interstitial hornblende; metamorphosed
AANnm-ot Troctolite; locally grades into gabbro and leucogabbro with minor hornblende oikocrysts; metamorphosed
AANnm-ox Coarse pyroxene with minor gabbro; local hornblende; metamorphosed



AANnu-mog Metadunite with relict olivine cumulate texture; minor pyroxene amphibole and Cr-spinel; locally strongly sheared
AANnu-mos Ultramafic schist derived from intrusive rocks; serpentine dominant, and locally abundant talc and tremolite; strongly sheared
AANnu-mat Serpentine, fine grained; strongly sheared; rare igneous textures preserved
AANnu-ob Pyroxene-rich gabbro with interstitial hornblende; metamorphosed
AANnu-oxa Orthopyroxene with very coarse grain size, typically > 10 mm; locally grades into norite and websterite; metamorphosed
AANnu-oc Chromite layer in peridotite with secondary oxide minerals; locally recrystallized; metamorphosed
AANnu-oo Olivine pyroxene with relict olivine cumulate texture; locally grades into layers of pyroxene and gabbro; metamorphosed
AANnu-op Pyroxene peridotite with relict olivine cumulate texture and interstitial pyroxenes; minor interstitial hornblende; metamorphosed



AANwi-xom-mg Metagabbro and meta-leucogabbro; grades into metagabbro; locally schistose and sheared, with abundant metagranite, apite, and granophyre intrusive sheets predominantly parallel to foliation
AANwi-moa Amphibolite derived from intrusive rocks; locally strongly foliated
AANwi-mof Meta-anorthosite with amphibole schlieren after flattened clinopyroxene oikocrysts; locally strongly sheared
AANwi-mog Metagabbro with amphibole pseudomorphs after pyroxene; grades into metagabbro; locally sheared; locally magnetite-bearing
AANwi-oml Leucogabbro grading into gabbro, anorthosite, and leuconite; with locally very coarse-grained oikocryst texture; metamorphosed
AANwi-om Magnetite, with recrystallized magnetite and ilmenite surrounding serpentinized olivine and plagioclase; grades into magnetite-rich gabbro and leucogabbro; metamorphosed
AANw-xad-ot Dunitite with relict olivine cumulate texture; grades into layers of troctolite, meta-troctolite and olivine gabbro; metamorphosed
AANw-oo Anorthosite in decimetre-thick layers with weak plagioclase lamination and crystal size up to 8 mm, grading locally into leucogabbro and leucogabbro; metamorphosed
AANw-om Gabbro with modal igneous layering; locally grades into leucogabbro; metamorphosed
AANw-ol Olivine gabbro grading into olivine gabbro; metamorphosed
AANw-ogc Clinopyroxene cumulate gabbro (grain size < 20 mm), locally amphibolized; metamorphosed
AANw-ogx Pyroxene cumulate gabbro (grain size < 20 mm), with locally abundant orthopyroxene grading into coarse norite; metamorphosed
AANw-od Dunitite with relict olivine cumulate texture; metamorphosed
AANw-opl Leucocratic peridotite with olivine and plagioclase cumulate crystals (up to 5%) and interstitial pyroxene; serpentinized
AANwz-mog Metagabbro with amphibole pseudomorphs after pyroxene, grading into metagabbro; locally sheared; locally magnetite and/or ilmenite bearing
AANwz-om Magnetite layers less than 1 metre thick in magnetite-rich gabbro; locally with undulating bases; magnetite encloses plagioclase chadocrysts; metamorphosed



AANwi-og Leucogabbro grading into anorthosite and gabbro; locally abundant clinopyroxene oikocrysts up to 30 mm enclose euhedral cumulate plagioclase crystals; metamorphosed
AANwi-ol Olivine gabbro grading into olivine gabbro and olivine leucogabbro; minor modal layering; metamorphosed
AANwu-xmad-oo Ultramafic zone
Chromite-bearing metadunite interlayered with gabbro and anorthosite; locally disseminated chromite in metaperidotite; well-defined layering on a metre scale preserved locally; metamorphosed

