

PHANEROZOIC
CENOZOIC



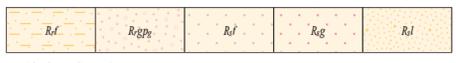
Colluvial units
C Colluvium derived from different rock types; includes gravel, sand, and silt
G Colluvial talus derived from different rock types
Ctc Talus from banded iron-formation and chert; locally cemented
Cf Ferruginous gravel and reworked ferruginous duricrust
Cgpe Quartzofeldspathic gravel, sand, and silt commonly derived from granitic rocks, their metamorphosed equivalents, and associated weathering products

Sheetwash units
W Clay, silt, and sand in extensive fans; local ferruginous gravel
Wf Clay, silt, and sand with abundant ferruginous grit
Wg Clay, silt, and sand sheetwash deposits, commonly derived from granitic rock

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
Lu Sand, silt, and gypsum in dunes adjacent to and within playa 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 unit
S Residual and eolian sand with minor silt and clay; low vegetated dunes locally common



Residual or relict units
Rrf Ferruginous duricrust, massive to rubbly; includes iron-cemented reworked products
Rgpe Undivided residual or relict material; mainly ferruginous and quartzofeldspathic duricrust over deeply weathered granite; minor kaolinized rock; includes mottled and leached zones of weathering profile
Rf Residual sand and minor gravel derived from ferruginous duricrust
Rg Quartzofeldspathic sand, commonly over granite
Ri Yellow sand with minor pisolitic laterite, ferruginized silcrete, silt, and clay; common on low plateaus associated with weathered granite



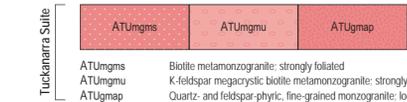
PROTEROZOIC

2650-2600 Ma



Bald Rock Supersuite
Walgalanna Suite
ABRGmp K-feldspar-porphyritic to megacrystic monzogranite; common magmatic foliation
ABRGm Monzogranite, locally rich in muscovite and biotite; predominantly with equigranular texture and locally K-feldspar phytic; includes deeply weathered rock
ABRGme Equigranular monzogranite; medium to coarse grained
ABRse-gme SEELIGSON MONZOGRANITE: equigranular, coarse-grained, undeformed monzogranite with 4-12 mm grain size; locally with 3 cm long K-feldspar megacrysts; metamorphosed

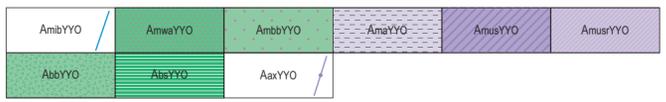
c. 2626 Ma



Tuckanarra Suite
ATUmgs Biotite metamonzogranite; strongly foliated
ATUmgu K-feldspar megacrystic biotite metamonzogranite; strongly foliated
ATUgmp Quartz- and feldspar-phitic, fine-grained monzogranite; locally foliated



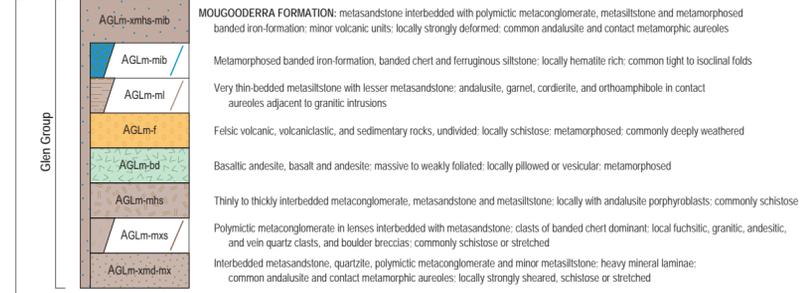
AmgnsY Foliated biotite metamonzogranite; minor metagranodiorite, metasyenogranite, and metapegmatite; fine to coarse grained; locally gneissic
AgpY Pegmatite dyke; metamorphosed
AgnapY Porphyritic microgranite; metamorphosed; locally schistose; includes deeply weathered rock



AmbYYO Metamorphosed banded iron-formation and minor banded chert
AmwaYYO Amphibolite derived from mafic volcanic and intrusive rocks; locally schistose; may include metamorphosed banded iron-formation
AmbbYYO Metabasalt, locally amygdaloidal; massive to foliated; includes minor metadolomite and subordinate metamorphosed pyroxene spinifex-textured basalt
AmaYYO Meta-ultramafic intrusive rock; locally abundant serpentinite
AmusYYO Ultramafic schist; includes talc-tremolite-chlorite schist, and minor serpentinite and mafic schist
AmusYYO Tremolite-chlorite(-talc) schist; includes minor metamorphosed komatiitic basalt, metapyroxenite, and cumulate-textured zones
AbbYYO Basalt; metamorphosed; includes some amphibolite and amphibolitic schist derived from tholeiitic basalt; may contain some metamorphosed high-Mg basalt, and minor mafic intrusive and volcanoclastic sedimentary rocks
AbsYYO Komatiitic basalt, commonly with pseudomorphed pyroxene-spinifex texture; metamorphosed and locally schistose; includes weakly metamorphosed tholeiitic basalt and minor mafic and ultramafic intrusive rocks
AaxYYO Pyroxenite; medium to coarse grained; massive to weakly foliated; metamorphosed

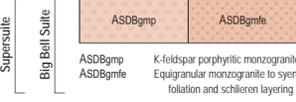
ARCHEAN

< 2746 Ma



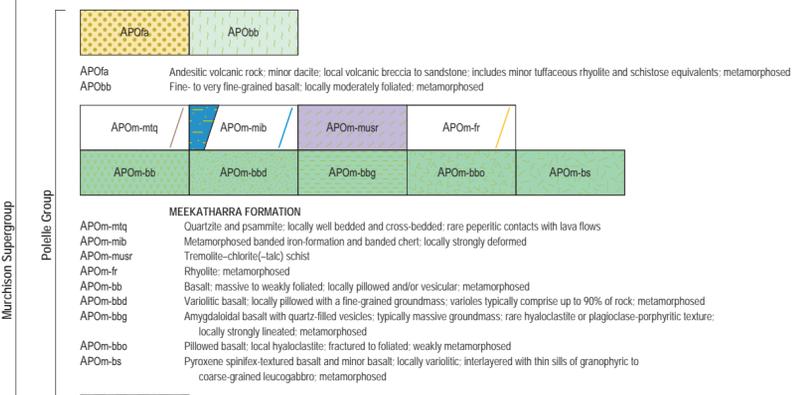
Glen Group
MOUGOODERRA FORMATION: metasandstone interbedded with polymictic metaconglomerate, metasilstone and metamorphosed banded iron-formation; minor volcanic units; locally strongly deformed; common andalusite and contact metamorphic aureoles
Metamorphosed banded iron-formation, banded chert and ferruginous siltstone; locally hematite rich; common tight to isoclinal folds
Very thin-bedded metasilstone with lesser metasandstone; andalusite, garnet, cordierite, and orthoamphibole in contact aureoles adjacent to granitic intrusions
Felsic volcanic, volcanoclastic, and sedimentary rocks, undivided; locally schistose; metamorphosed; commonly deeply weathered
Basaltic andesite, basalt and andesite; massive to weakly foliated; locally pillowed or vesicular; metamorphosed
Thinly to thickly interbedded metaconglomerate, metasandstone and metasilstone; locally with andalusite porphyroblasts; commonly schistose
Polymictic metaconglomerate in lenses interbedded with metasandstone; clasts of banded chert dominant; local fuchsitic, granitic, andesitic, and vein quartz clasts, and boulder breccias; commonly schistose or stretched
Interbedded metasandstone, quartzite, polymictic metaconglomerate and minor metasilstone; heavy mineral laminae; common andalusite and contact metamorphic aureoles; locally strongly sheared, schistose or stretched

2732-2686 Ma



Austin Downs Supersuite
Big Bell Suite
ASDBgmp K-feldspar porphyritic monzogranite; common magmatic foliation
ASDBgmlf Equigranular monzogranite to syenogranite; common magmatic foliation and schlieren layering

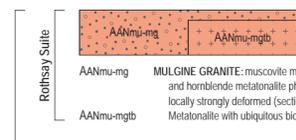
2800-2735 Ma



Palalle Group
APOfa Andesitic volcanic rock; minor dacite; local volcanic breccia to sandstone; includes minor tuffaceous rhyolite and schistose equivalents; metamorphosed
APObb Fine- to very fine-grained basalt; locally moderately foliated; metamorphosed

MEEKATHARRA FORMATION
Quartzite and psammite; locally well bedded and cross-bedded; rare peperitic contacts with lava flows
Metamorphosed banded iron-formation and banded chert; locally strongly deformed
Tremolite-chlorite(-talc) schist
Rhyolite; metamorphosed
Basalt; massive to weakly foliated; locally pillowed and/or vesicular; metamorphosed
Variolitic basalt; locally pillowed with a fine-grained groundmass; varieties typically comprise up to 90% of rock; metamorphosed
Amygdaloidal basalt with quartz-filled vesicles; typically massive groundmass; rare hyaloclastite or plagioclase-porphyritic texture; locally strongly lineated; metamorphosed
Pillowed basalt; local hyaloclastite; fractured to foliated; weakly metamorphosed
Pyroxene spinifex-textured basalt and minor basalt; locally variolitic; interlayered with thin sills of granophytic to coarse-grained leucogabbro; metamorphosed

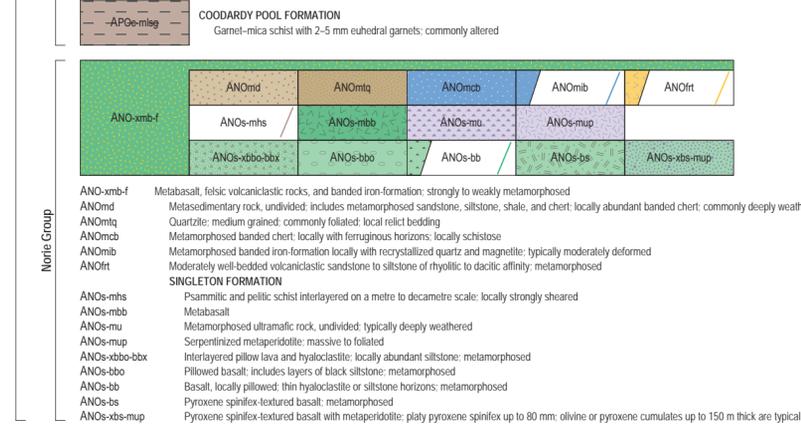
c. 2756 Ma



Rothsay Suite
AANmu-mg MULGINE GRANITE: muscovite metamonzogranite, biotite metagranodiorite, and hornblende metatonalite phases; host to Mo-W mineralization; locally strongly deformed (section only)
AANmu-mgtb Melatonalite with ubiquitous biotite; typically foliated and lineated

2801-2792 Ma

2825-2800 Ma

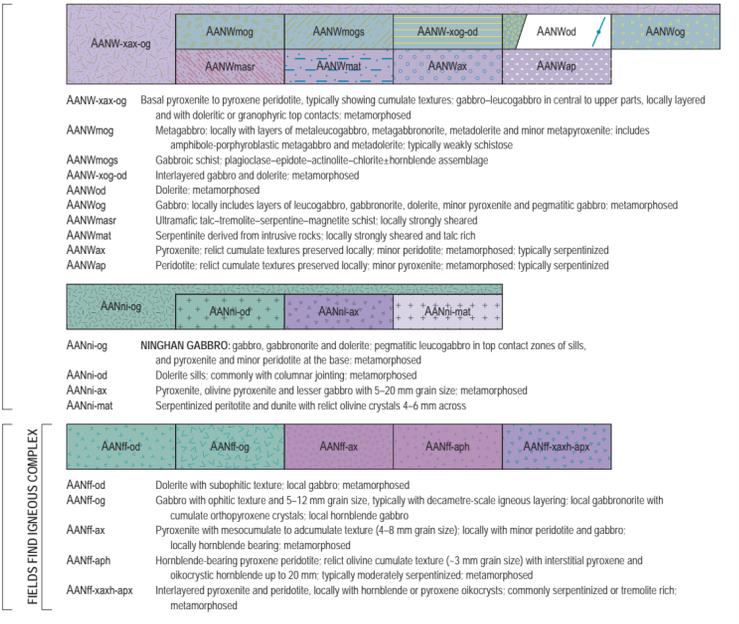


Nonie Group
ANO-xmb-f Metabasalt, felsic volcanoclastic rocks, and banded iron-formation; strongly to weakly metamorphosed
ANOnd Metasedimentary rock, undivided; includes metamorphosed sandstone, siltstone, shale, and chert; locally abundant banded chert; commonly deeply weathered
ANOmtq Quartzite; medium grained; commonly foliated; local relict bedding
ANOmc Metamorphosed banded chert; locally with ferruginous horizons; locally schistose
ANOmb Metamorphosed banded iron-formation locally with recrystallized quartz and magnetite; typically moderately deformed
ANOft Moderately well-bedded volcanoclastic sandstone to siltstone of rhyolitic to dacitic affinity; metamorphosed

SINGLETON FORMATION
Psammite and pelitic schist interlayered on a metre to decametre scale; locally strongly sheared
Metabasalt
Metamorphosed ultramafic rock, undivided; typically deeply weathered
Serpentinized metaperidotite; massive to foliated
Interlayered pillow lava and hyaloclastite; locally abundant siltstone; metamorphosed
Pillowed basalt; includes layers of black siltstone; metamorphosed
Basalt, locally pillowed; thin hyaloclastite or siltstone horizons; metamorphosed
Pyroxene spinifex-textured basalt; metamorphosed
Pyroxene spinifex-textured basalt with metaperidotite; platy pyroxene spinifex up to 80 mm; olivine or pyroxene cumulates up to 150 m thick are typically serpenitized or tremolite rich

Ameian Supersuite

c. 2799 Ma



Warriedar Suite
AANW-xax-og Basal pyroxenite to pyroxene peridotite, typically showing cumulate textures; gabbro-leucogabbro in central to upper parts, locally layered and with doleritic or granophytic top contacts; metamorphosed
AANWmog Metagabbro; locally with layers of metaleucogabbro, metagabronorite, metadolomite and minor metapyroxenite; includes amphibole-porphyroblastic metagabbro and metadolomite; typically weakly schistose
AANWmogs Gabbroic schist; plagioclase-epidote-actinolite-chlorite+hornblende assemblage
AANW-xog-od Interlayered gabbro and dolerite; metamorphosed
AANWod Dolerite; metamorphosed
AANWog Gabbro; locally includes layers of leucogabbro, gabbronorite, dolerite, minor pyroxenite and pegmatitic gabbro; metamorphosed
AANWmasr Ultramafic talc-tremolite-serpentine-magnetite schist; locally strongly sheared
AANWmat Serpentinite derived from intrusive rocks; locally strongly sheared and talc rich
AANWax Pyroxenite; relict cumulate textures preserved locally; minor peridotite; metamorphosed; typically serpenitized
AANWap Peridotite; relict cumulate textures preserved locally; minor pyroxenite; metamorphosed; typically serpenitized

Boodanoo Suite
AANni-og NINCHAN GABBRO: gabbro, gabbronorite and dolerite; pegmatitic leucogabbro in top contact zones of sills, and pyroxenite and minor peridotite at the base; metamorphosed
AANni-od Dolerite sills; commonly with columnar jointing; metamorphosed
AANni-ax Pyroxenite, olivine pyroxenite and lesser gabbro with 5-20 mm grain size; metamorphosed
AANni-mat Serpenitized peridotite and dunite with relict olivine crystals 4-6 mm across

FIELDS FIND IGHNEOUS COMPLEX
AANf-od Dolerite with subophitic texture; local gabbro; metamorphosed
AANf-og Gabbro with ophitic texture and 5-12 mm grain size, typically with decametre-scale igneous layering; local gabbronorite with cumulate orthopyroxene crystals; local hornblende gabbro
AANf-ax Pyroxenite with mesocumulate to adcumulate texture (4-8 mm grain size); locally with minor peridotite and gabbro; locally hornblende bearing; metamorphosed
AANf-aph Hornblende-bearing pyroxene peridotite; relict olivine cumulate texture (~3 mm grain size) with interstitial pyroxene and oikocystic hornblende up to 20 mm; typically moderately serpenitized; metamorphosed
AANf-xaxh-apx Interlayered pyroxenite and peridotite, locally with hornblende or pyroxene oikocysts; commonly serpenitized or tremolite rich; metamorphosed

Youanmi Terrane

YILGARN CRATON