

PHANEROZOIC

CAINOZOIC

QUATERNARY

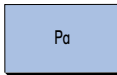


- Qa Alluvium—sand and gravel in drainage channels, and sand, partly reworked by wind action, on floodplains
- Qc Colluvium—locally derived sand and gravel; in scree and outwash-fan deposits
- Ql Playa and claypan deposits—clay and silt; saline and gypsiferous in part
- Qp Lag and eolian deposits—sand with ferricrete pebbles and sand-sized particles
- Qs Eolian sand; includes seif dunes and intervening sandy valleys
- Qw Colluvial and alluvium—silt, sand, and gravel on distal outwash deposits in poorly drained areas; numerous small claypans



- Czc Colluvium—variably cemented outwash talus; dissected by present drainage
- Czk Calcrete—massive, nodular, and cavernous sandy limestone; locally silicified
- Czl Laterite—ferruginous duricrust on tops of hills; remnants of Tertiary peneplain
- Czz Silcrete—siliceous caprock with angular quartz grains
- Czzc Silicified sandstone cap rock with thin veneer of colluvium; restricted to tops of hills
- Czzg Leached and variably silicified granitic orthogneiss; alteration product of ERga

PERMIAN



PATERSON FORMATION : sandstone, claystone, conglomerate, and boulder beds; tillite and fluvio-glacial deposits

CANNING BASIN



- d Dolerite
- q Quartz vein
- qb Quartz breccia
- fb Fault breccia and silicified rock adjacent to faults
- go Gossan, or zone of gossanous rock

PROTEOROZOIC

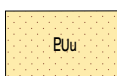
> 900 Ma

Yeneera Supergroup

Throssell Group



KARARA FORMATION : quartz arenite and quartz-feldspar wacke; minor beds of shale and conglomerate



GUNANYA SANDSTONE : arkose and medium- to coarse-grained sandstone; local beds of conglomerate and siltstone

Conglomerate, sandstone, and siltstone

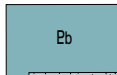


PUNGKULI FORMATION : shale, reddish brown to grey; minor sandstone, carbonate, and pyritic shale; metamorphosed

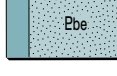
Carbonate rock, grey, cream to pink and finely laminated; minor sandstone, shale, and pyritic shale; metamorphosed



TALIWANYA FORMATION : arkose to arkosic sandstone, medium- to coarse-grained; local basal conglomerate and coarse sandstone; metamorphosed



Amygdaloidal basalt; metamorphosed



Amygdaloidal basalt; heavily epidotized; metamorphosed

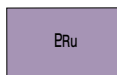
1310 ± 4 Ma



- Egp Pegmatite; quartz-K-feldspar-biotite-muscovite bearing; massive to weakly foliated
- Ege Syenogranite and monzogranite; even-grained; massive to weakly foliated
- Egm Leucogranite; coarse-grained with K-feldspar megacrysts; massive to weakly foliated
- Egl Leucogranite; medium- to coarse-grained; massive to weakly foliated
- Egf Granitoid rock with feldspar phenocrysts; massive to strongly foliated

1765-1790 Ma

Ruddell Complex (stratigraphic succession incompletely determined)



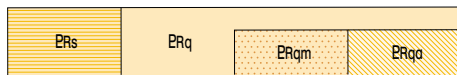
Metamorphosed ultramafic rock; serpentinite



- ERnb Quartz-feldspar-biotite-(muscovite) gneiss
- ERnc Charnockite; quartz-K-feldspar-plagioclase-garnet-orthopyroxene gneiss
- ERnm Quartz-microcline-plagioclase-biotite-(muscovite) gneiss
- ERng Quartz-K-feldspar-plagioclase-garnet-(muscovite) gneiss
- ERns Mylonite; quartz-sericite-(K-feldspar-plagioclase-muscovite-biotite) rock



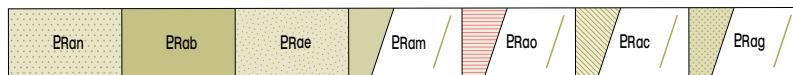
- ERgh Orthogneiss to strongly foliated granodiorite to monzogranite; hornblende-bearing; medium- to coarse-grained; generally interleaved with and containing inclusions of amphibolite
- ERgm Leucocratic, muscovite-rich orthogneiss derived from medium-grained granite
- ERga Orthogneiss derived from porphyritic biotite granitoid rock; generally contains K-feldspar augens
- ERgo Compositionally layered orthogneiss derived from fine- to medium-grained granite or monzogranite; alternating biotite- and feldspar-rich layers; lenticular inclusions of mafic rocks



- ERs Psammitic paragneiss; includes fine-grained quartz-feldspar-muscovite gneiss, quartz-mica schist, and layers of quartzite
- ERq Quartzite; commonly micaceous; thin intercalations of quartz-muscovite schist
- ERqm Muscovite quartzite; subordinate intercalations of quartz-muscovite schist
- ERqa Quartz-aluminosilicate schist; quartz-kyanite-ilmenite schist, quartz-sillimanite-K-feldspar-garnet schist



- ERb Banded paragneiss containing layers of quartz-feldspar-(biotite) gneiss, quartz-biotite schist, micaceous quartzite, quartz-muscovite schist, and amphibole-chlorite schist
- ERm Quartz-mica schist; metamorphosed argillaceous sedimentary rock
- ERi Metamorphosed banded iron-formation, metachert, and pyrite-graphite schist
- ERic Metachert and locally metamorphosed banded iron-formation
- ERir Graphite-quartz-garnet-biotite-sulfide schist and metamorphosed banded iron-formation; minor metachert
- ERk Calc-silicate gneiss and schist; metamorphosed carbonate rock and calcareous sandstone



- ERan Amphibolite; leucocratic, coarse- to very coarse-grained, plagioclase-amphibole rock; massive to foliated; meta-leucogabbro and meta-anorthosite
- ERab Epidote and quartz-bearing amphibolite; fine-grained
- ERae Amphibolite; mesocratic to leucocratic, silicified and epidotized; foliated
- ERam Clinopyroxene and quartz-bearing amphibolite; foliated and locally gneissic
- ERao Garnet, clinopyroxene and quartz-bearing amphibolite interleaved with granitic gneiss (ERgo); foliated
- ERac Orthopyroxene and clinopyroxene-bearing amphibolite; massive to foliated and locally gneissic
- ERag Garnet, clinopyroxene, and quartz-bearing amphibolite; foliated and locally gneissic

PATERSON OROGEN