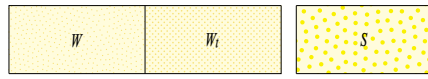


PHANEROZOIC

CENOZOIC

UNASSIGNED

QUATERNARY

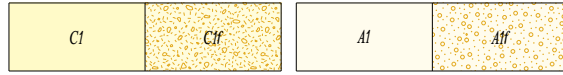


Sheetwash units

W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
Wf Silt and sand; surface is characterised by shallow depressions aligned perpendicular to the slope; supports banded mosaic vegetation (tiger bush)

Sandplain unit

S Quartz sand of mixed origin; includes residual and eolian sands



Colluvial units

C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
Cf Unconsolidated ferruginous rubble and scree

Alluvial units

A1 Unconsolidated silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
Af Ferruginous silt, sand, and gravel

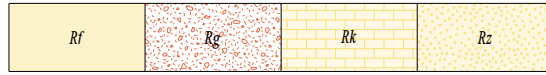


Colluvial units

C2 Quartz and rock fragments in a partly consolidated silt and sand matrix
Cf Partly consolidated ferruginous rubble and scree

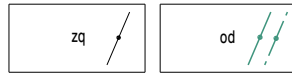
Alluvial unit

A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage



Residual or relict units

Rf Ferruginous deposits, including lateritic, ferruginous, and manganiferous duricrust
Rg Weathered quartzofeldspathic saprock with locally derived sand and sandy clays
Rk Calcrete, developed in and adjacent to alluvial channels; locally silicified; dissected by major present-day drainage lines
Rz Silcrete and brecciated siliceous caprock



zq Quartz vein or pod; massive, crystalline, or brecciated; age uncertain
od Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain

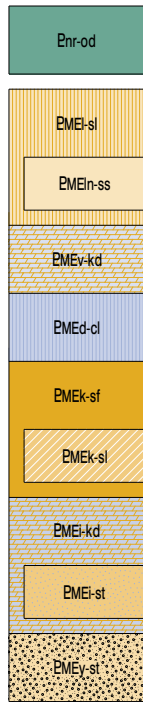
Mulka Tectonic Event (c. 570 Ma)

Edmundian Orogeny (1030–950 Ma')

PALEOPROTEROZOIC-MESOPROTEROZOIC

c.1465 Ma
 c.1460 Ma
 <1620 Ma

Bangemall Supergroup
 Edmund Group



ENRIMBUNNA DOLERITE: dolerite and gabbro sills intruded into Edmund Group

ULLAWARRA FORMATION: siltstone; subordinate fine-grained sandstone, dolostone, and chert; intruded by numerous dolerite sills

Nanular Member: thin- to thick-bedded sandstone and siltstone

DEVIL CREEK FORMATION: laminated dolostone and dolomitic siltstone; local thick-bedded dolerite

DISCOVERY FORMATION: massive or laminated chert, silicified mudstone, and siltstone; local silicified sandstone and conglomerate

KIANGI CREEK FORMATION: siltstone, mudstone, and thin- to very thick-bedded quartz sandstone; minor dolostone and conglomerate

Siltstone; minor fine-grained sandstone

IRREGULLY FORMATION: stromatolitic and non-stromatolitic dolostone, dolomitic siltstone, quartz sandstone, and conglomerate

Sandstone, conglomerate, siltstone, and dolostone

YLGATHERRA FORMATION: sandstone; subordinate siltstone, conglomerate, and dolostone

EDMUND BASIN

PROTEROZOIC

PALEOPROTEROZOIC

c.1620 Ma²
 1815–1770 Ma
 c.1960 Ma
 <1985 Ma
 <2000 Ma

Durtbacher Supersuite
 Moorarie Supersuite
 Bertilubba Supersuite
 Camel Hills Metamorphics
 Padbury Group

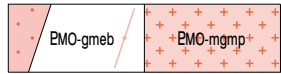


DISCRETION GRANITE: medium-grained, porphyritic biotite monzogranite; tabular phenocrysts of K-feldspar
EDUdn-gmp Equigranular or weakly porphyritic biotite monzogranite; medium grained
EDUdn-gme Fine- to medium-grained, porphyritic biotite monzogranite; tabular phenocrysts of K-feldspar

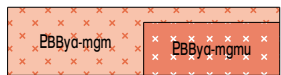


SPRING CAMP FORMATION: quartzite and quartz-muscovite schist; foliated; quartz metasandstone, feldspathic metasandstone, and quartz-lithic metasandstone; locally ripple marked and cross-bedded (diagrammatic section only)

Capricorn Orogeny (1815–1770 Ma)



EMO-gmeb Massive, equigranular to sparsely porphyritic biotite monzogranite; medium- and coarse-grained; minor muscovite in places; includes some granodiorite and minor leucocratic tonalite
EMO-mgmp Porphyritic to equigranular, medium- to very coarse-grained metagranite and pegmatite; leucocratic; massive to strongly foliated; locally gneissic

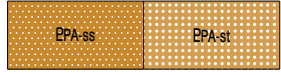


EBBya-mgm **YAMAGEE GRANITE:** foliated, medium- and fine-grained, equigranular biotite metamonzogranite; minor leucocratic biotite-garnet metamonzogranite
EBBya-mgmu Medium-grained, porphyritic biotite metamonzogranite; round phenocrysts of K-feldspar; foliated

Glenburgh Orogeny (2005–1950 Ma)



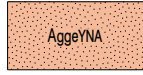
QUARTPOT PELITE: biotite-plagioclase-quartz(-K-feldspar-garnet-sillimanite) gneiss and migmatitic pelitic gneiss intruded by c. 1970 Ma sheets and veins of coarse-grained biotite trondhjemite; locally variable amounts of foliated biotite monzogranite; minor amphibolite and calc-silicate



EPA-ss Quartz wacke, siltstone, and shale; pervasively foliated and metamorphosed at low grade; small muscovite porphyroblasts
EPA-st Quartz sandstone; minor conglomerate with vein quartz, black chert, and foliated wacke pebbles; metamorphosed at low grade



ÆmgnYNA Leucocratic granitic gneiss; quartz-plagioclase-microcline-biotite rock derived from 3300–2640 Ma biotite granite and granitic gneiss, and sheets and veins of coarse-grained metagranite and pegmatite (EMO-mgmp); all deformed and metamorphosed at 1810 Ma
ÆmgwYNA Mesocratic granitic gneiss; quartz-plagioclase-biotite(-hornblende-microcline) rock derived from 3350–2640 Ma biotite granite and granitic gneiss, and sheets and veins of coarse-grained metagranite and pegmatite (EMO-mgmp); all deformed and metamorphosed at 1810 Ma



AggeYNA Mesocratic, equigranular to weakly porphyritic biotite granodiorite; minor grey, weakly porphyritic, fine-grained tonalite



AmtqYNA Foliated quartzite; minor quartz-diopside gneiss
AmkqYNA Calc-silicate gneiss; fine- to coarse-grained plagioclase-quartz-diopside-tremolite(-microcline) and diopside-tremolite-titanite rocks
AmkqYNA Quartz-diopside rock and calc-silicate gneiss
AmiYNA Meta banded iron-formation; grunerite-quartz-magnetite(-hematite) and quartz-magnetite(-hematite) rocks



AmwaYNA Amphibolite; fine- to medium-grained, aphyric hornblende-plagioclase rock and medium-grained porphyritic hornblende-plagioclase rock; locally includes metagabbro and metaleucogabbro
AmwaxYNA Amphibolite gneiss; fine- to medium-grained, hornblende-plagioclase-clinopyroxene rock; granoblastic texture
AmoaYNA Amphibolite after porphyritic microgabbro, gabbro and leucogabbro
AmatYNA Fine- to medium-grained serpentine-talc-magnetite-calcite(-tremolite-titanite) rock after peridotite
AmaxYNA Tremolite schist; after pyroxenite

GASCOYNE PROVINCE

PADBURY BASIN

YILGARN CRATON

ARCHEAN-PROTEROZOIC

ARCHEAN