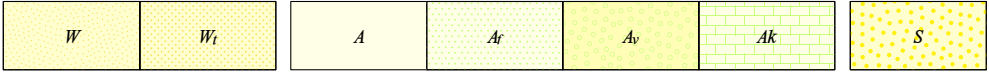


PHANEROZOIC

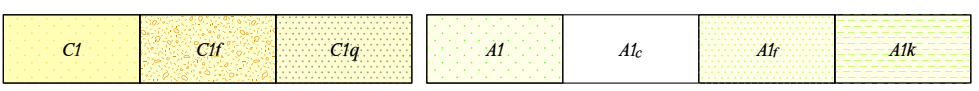
CENOZOIC

QUATERNARY

Unassigned



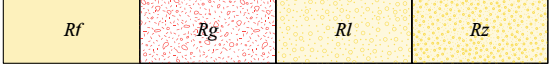
Sheetwash units
W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
W_f Silt and sand; surface characterized by shallow depressions aligned perpendicular to slope; supports banded mosaic vegetation ('tiger bush')
Alluvial units
A Clay, silt, sand, and gravel in channels and on floodplains
A_r Unconsolidated, fine-grained deposits on floodplains
A_v Fan-shaped deposits of unconsolidated, fine-grained sand to boulders in fine-grained matrix on steep hill slopes
A_k Calcrete developed in and adjacent to alluvial channels
Sandplain unit
S Quartz sand of mixed origin; includes residual and eolian sands



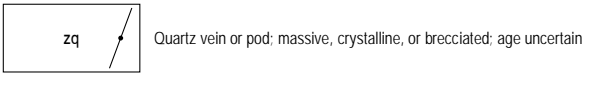
Colluvial units, third generation
C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
C1_f Unconsolidated ferruginous rubble and scree
C1_q Unconsolidated quartz fragments in a silt and sand matrix; derived from quartz veins and quartzose rocks
Alluvial units, third generation
A1 Silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
A1_c Unconsolidated silt, sand, and gravel in stream channels
A1_r Unconsolidated silt, sand, and minor gravel in floodplains adjacent to present-day drainage
A1_k Carbonate-rich silt, sand, and gravel in active drainage channels and on floodplains



Colluvial unit, second generation
C2 Quartz and rock fragments in a partly consolidated silt and sand matrix
Alluvial unit, second generation
A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage



Residual or relict units
Rf Ferruginous deposits, including lateritic, ferruginous, and manganese duricrust
Rg Weathered quartzfeldspathic rock with locally derived sand and sandy clays
Rl Saprolite and saprock of uncertain protolith
Rz Silcrete and brecciated siliceous caprock



Mulka Tectonic Event (c. 570 Ma)

EMW-od MUNDINE WELL DOLERITE SUITE: dolerite dykes, sills, and small intrusions with locally abundant xenoliths and potassic alteration of wallrocks; includes minor quartz diorite, syenite, tonalite, and biotite monzogranite

Edmundian Orogeny (c. 1030–955 Ma³)

Mutherbukin Tectonic Event (c. 1280–1250 Ma)

EME_y-st YILGATHERRA FORMATION: sandstone; subordinate siltstone, conglomerate, and dolostone

Mangaroon Orogeny (1680–1620 Ma³)

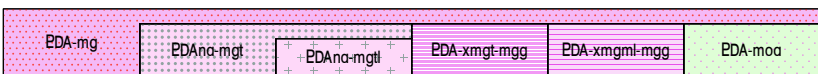
EPOs-mtqs SPRING CAMP FORMATION: quartzite and quartz–muscovite schist; foliated: quartz metasandstone, feldspathic metasandstone, and quartz-lithic metasandstone; locally ripple marked and cross-bedded

Capricorn Orogeny (1820–1770 Ma⁴)



EMO-g Undivided: granite and minor gabbro, and metamorphosed equivalents (section only)
EMO-ggev Leucocratic, equigranular biotite–muscovite granodiorite: fine to medium grained; massive to weakly foliated
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-gml Massive, equigranular, leucocratic biotite monzogranite: medium and coarse grained
EMO-gp Porphyritic to equigranular, coarse-grained, biotite- and muscovite-bearing monzogranite, syenogranite, and pegmatite; locally tourmaline bearing
EMOsc-gm SCRUBBER GRANITE: fine- to medium-grained, equigranular, biotite(tourmaline) monzogranite; commonly with abundant clusters of tourmaline; locally nodular texture; massive to weakly foliated
EMOdu-ggp DUMBIE GRANODIORITE: porphyritic, fine- to medium-grained granodiorite: minor monzogranite: medium to coarse tabular phenocrysts of K-feldspar; locally magnetite and allanite bearing
EMO-mgm Strongly porphyritic, foliated biotite metamonzogranite with coarse, round or tabular phenocrysts of K-feldspar; abundant inclusions of biotite-rich mafic rock; locally comprises augen gneiss

Glenburgh Orogeny (2005–1950 Ma)



EDA-mg Metagranite and granitic gneiss
EDAnc-mgt NARDOO GRANITE: foliated, medium-grained biotite metatonalite and meta quartz diorite: equigranular or porphyritic; abundant small mafic clots
EDAnc-mgtl Foliated, medium-grained, weakly porphyritic, leucocratic biotite metatonalite and minor metagranodiorite
EDA-xmgt-mgg Interlayered medium-grained metatonalite and metagranodiorite together with leucocratic biotite metamonzogranite and metagranodiorite; subordinate fine-grained metatonalite and metamonzogranite; gneissic to weakly foliated (section only)
EDA-xmgml-mgg Interlayered medium-grained, leucocratic biotite metamonzogranite and metagranodiorite; commonly with clots of biotite after garnet (section only)
EDA-moa Amphibolite; locally mafic granulite

Camel Hill Metamorphics

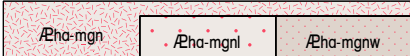


ECHq-min QUARTPOT PELITE: Biotite–plagioclase–quartz–(K-feldspar–garnet–sillimanite) gneiss and migmatitic pelitic gneiss intruded by c. 1970 Ma sheets and veins of coarse-grained biotite metagranite; minor amphibolite and calc-silicate
ECHp-mk PETER CALC-SILICATE: Calc-silicate gneiss; coarse-grained plagioclase–quartz–diopside–tremolite and diopside–plagioclase rocks, and fine-grained quartz–plagioclase–garnet–hornblende rock
ECH-mwa Amphibolite: fine-grained hornblende–plagioclase–quartz–epidote–titanite rock

Moogie Metamorphics



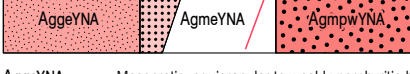
EmwaGAG Amphibolite
EMGm-mls Pelitic schist, commonly with chloritoid; locally with relict garnet porphyroblasts



Aha-mgn HALFWAY GNEISS: Interlayered leucocratic and mesocratic granitic gneiss, pale-grey granitic gneiss and foliated metagranite, and gneissic to foliated porphyritic metagranodiorite
Aha-mgnl Leucocratic granitic gneiss and foliated leucocratic metagranite: derived from biotite monzogranite and granodiorite
Aha-mgnw Mesocratic granitic gneiss; derived from variably porphyritic tonalite

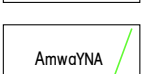
Warrigal Gneiss

Awa-mgm WARRIGAL GNEISS: Foliated to gneissic, even-textured to sparsely porphyritic metamonzogranite; locally contains sheets and pods of amphibolite; cut by c. 1800 Ma pegmatite dykes; deformation is Paleoproterozoic



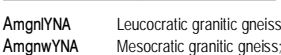
AggeYNA Mesocratic, equigranular to weakly porphyritic biotite granodiorite: minor grey, weakly porphyritic, fine-grained tonalite: metamorphosed
AgmeYNA Equigranular, medium-grained biotite monzogranite: locally quartz–sericite schist: massive to strongly foliated: metamorphosed
AgmpwYNA Mesocratic, medium-grained, very strongly porphyritic biotite monzogranite: ranges from massive to gneissic; metamorphosed

Nairyer Terrane



AmkqYNA Calc-silicate gneiss; fine- to coarse-grained plagioclase–quartz–diopside–tremolite(–microcline) and diopside–tremolite–titanite rock
AmwaYNA Amphibolite: fine- to medium-grained, aphyric hornblende–plagioclase rock and medium-grained porphyritic hornblende–plagioclase rock; locally includes metagabbro and metaleucogabbro
AmatYNA Fine- to medium-grained serpentine–talc–magnetite–calcite(–tremolite–titanite) rock after peridotite

Yilgarn Craton



AmgnYNA Leucocratic granitic gneiss: quartz–plagioclase–microcline–biotite rock; derived from biotite monzogranite and syenogranite
AmgnwYNA Mesocratic granitic gneiss: quartz–plagioclase–biotite(–hornblende–microcline) rock; derived from granodiorite and tonalite

PROTEROZOIC

PALEOPROTEROZOIC

PALEOPROTEROZOIC- MESOPROTEROZOIC

NEO- PROTEROZOIC

c. 755 Ma¹

<1620 Ma

1782–1677 Ma

1817–1776 Ma

2002–1974 Ma

2001–1955 Ma

2080–2000 Ma

2663–2429 Ma

2758–2585 Ma

c. 2608 Ma

3100–2700 Ma

3731–3302 Ma

EDMUND BASIN

GASCOYNE PROVINCE

Glenburgh Terrane

Nairyer Terrane

YILGARN CRATON