

PHANEROZOIC

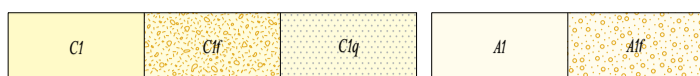
CENOZOIC

UNASSIGNED

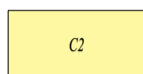
QUATERNARY



Sheetwash units
W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
Wi Silt and sand. Surface is characterized by shallow depressions aligned perpendicular to the slope; supports banded mosaic vegetation (tiger bush)
Lacustrine unit
L Unconsolidated, fine-grained deposits in claypans, perennial lakes, and swamps; low-lying areas with internal drainage; typically thickly vegetated
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
C1f Unconsolidated ferruginous rubble and scree
C1q Quartz fragments in an unconsolidated silt and sand matrix, derived from quartz veins and quartzose rocks
Alluvial units
A1 Unconsolidated silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
A1f Ferruginous silt, sand, and gravel



Colluvial unit
C2 Quartz and rock fragments in a partly consolidated silt and sand matrix



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



zq Quartz veins; various ages
od Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain

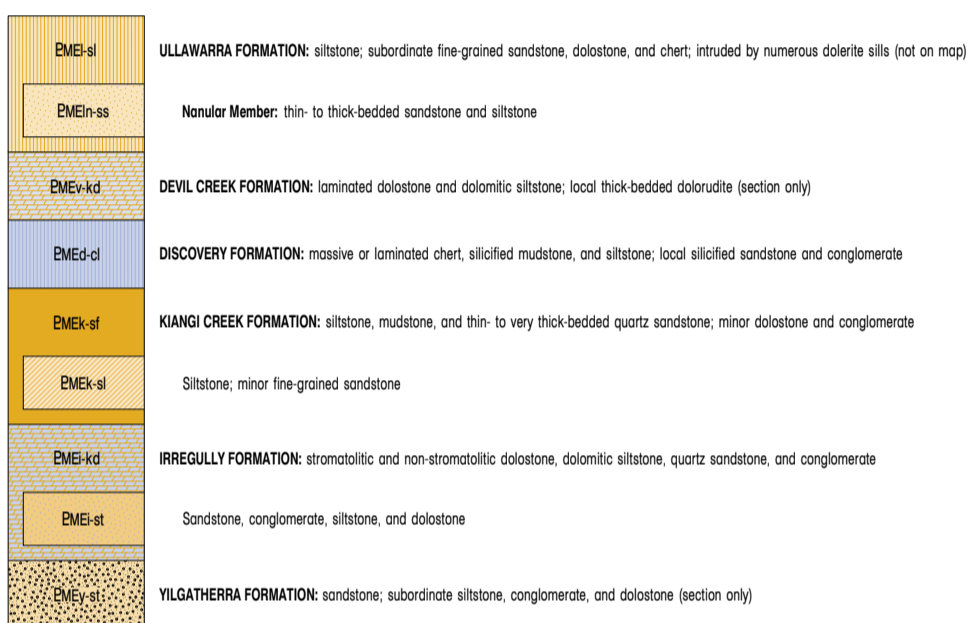
Mulka Tectonic Event (c. 570 Ma)

Edmundian Orogeny (1030–950 Ma¹)

c. 1465 Ma

Enr-od NARIMBUNNA DOLERITE: dolerite and gabbro sills intruded into **Edmund Group**

c. 1460 Ma



<1620 Ma

Bongemall Supergroup

Edmund Group

EDMUND BASIN

c. 1680 Ma

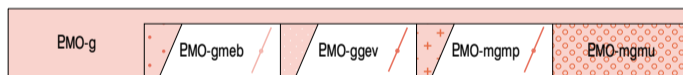
EPOs-mtqs **Spring Camp Formation**: quartzite and quartz-muscovite schist; foliated; quartz metasandstone, feldspathic metasandstone, and quartz-lithic metasandstone; locally ripple marked and cross-bedded

Pooranoo Metamorphics

Mount James Subgroup

Capricorn Orogeny (1815–1770 Ma)

1815–1770 Ma



EMO-g Undivided; granite and minor gabbro and metamorphosed equivalents
EMO-gmgb Massive, equigranular to sparsely porphyritic biotite monzogranite; medium- and coarse-grained; minor muscovite in places; includes some granodiorite and minor leucocratic tonalite
EMO-ggev Leucocratic, equigranular biotite-muscovite granodiorite; fine to medium grained; massive to weakly foliated
EMO-mgmp Porphyritic to equigranular, medium- to very coarse-grained metagranite and pegmatite; leucocratic; massive to strongly foliated; locally gneissic
EMO-mgmu 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

Incorarie Supersuite

Emod Metadolerite and dolerite of various ages; typically ophitic to subophitic textured; locally with garnet coronas around pyroxene

2005–1970 Ma

EPA-mg Metagranite and granitic gneiss (section only)

Dalgaringa Supersuite

ECH-mi Meta banded iron-formation; quartz-magnetite rock
ECH-mwa Amphibolite; fine grained, hornblende-plagioclase-quartz-epidote-titanite rock

Unassigned

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 trondhjemite; locally variable amounts of foliated biotite monzogranite; minor amphibolite and calc-silicate
ECHp-mk **PETTER CALC-SILICATE**: Calc-silicate gneiss; coarse grained plagioclase-quartz-diopside-tremolite and diopside-plagioclase rocks, and fine grained quartz-plagioclase-garnet hornblende rock
ECHp-mkq Quartzite, quartz-diopside rock

Camel Hills Metamorphics

< 1985 Ma



AEmgnYNA 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
AEmgnwYNA 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

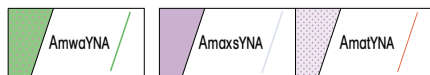
c. 2608 Ma
 c. 2630 Ma
 c. 2600 Ma



AggeYNA Mesocratic, equigranular to weakly porphyritic biotite granodiorite; minor grey, weakly porphyritic, fine-grained tonalite
AgmeYNA Equigranular, medium-grained, biotite monzogranite; locally quartz-sericite schist; massive to strongly foliated.
AgmpwYNA Mesocratic, medium-grained, very strongly porphyritic biotite monzogranite; ranges from massive to gneissic
AmgmYNA Foliated, porphyritic biotite metamonzogranite with coarse round phenocrysts of K-feldspar, locally comprises augen gneiss



AmkqYNA Calc-silicate gneiss; fine- to coarse-grained plagioclase-quartz-diopside-tremolite(-microcline) and diopside-tremolite-titanite rocks
AmtqYNA Foliated quartzite; minor quartz-diopside 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
AmaxsYNA Tremolite schist; after pyroxenite
AmatYNA Fine- to medium-grained serpentine-talc-magnetite-calcite(-tremolite-titanite) rock after peridotite



3300–2640 Ma
 3350–2640 Ma

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–MESOPROTEROZOIC

PALEOPROTEROZOIC

ARCHEAN–PROTEROZOIC

ARCHEAN

GASCOYNE PROVINCE

YILGARN CRATON