

Unassigned



Sheetwash units

- W Sandy and clayey distal sheetwash and slope deposits, no clearly defined drainage
Wc Clay, silt, and sand derived from saprolite and saprock
Wk Distal sheetwash with calcrete cutans and carbonate cement
Wq Predominantly quartz-rich silt, sand, and gravel derived from quartz veins and quartz-rich rock

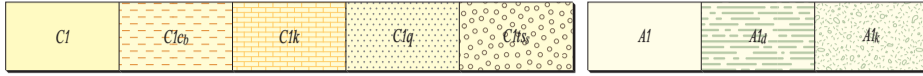
Lacustrine unit

- 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

QUATERNARY



Colluvial units, third generation

- C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
C1cb Swelling clay (gilgai) and rock fragments, mostly developed over dolerite
C1k Quartz and rock fragments in an unconsolidated silt and sand matrix; contains calcrete cutans and carbonate cement
C1q Quartz fragments in an unconsolidated silt and sand matrix, derived from quartz veins and quartzose rocks
C1ts Sandstone fragments in a silt and sand matrix, derived from sandstone

Alluvial units, third generation

- A1 Unconsolidated silt, sand, and gravel in active drainage channels; includes ferruginous deposits
A1d Unconsolidated, mainly fine-grained deposits in drainage depressions
A1k Silt, sand, and gravel as stream-bank deposits marginal to active channels, incised by modern drainage

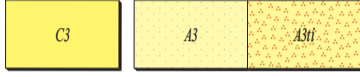


Colluvial units, second generation

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

Alluvial units, second generation

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

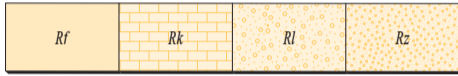


Colluvial units, first generation

- C3 Quartz and rock fragments in a weakly cemented and compacted silt and sand matrix; deeply dissected valley-fill deposits

Alluvial units, first generation

- A3 Weakly cemented and compacted silt, sand, and gravel; deeply dissected by present-day drainage
A3ti Sand and gravel with ferruginous cement; deeply dissected by present-day drainage



Residual or relict units

- Rf Ferruginous deposits, including lateritic, ferruginous, and manganiferous duricrust
Rk Calcrete, developed in and adjacent to alluvial channels; locally silicified; dissected by major present-day drainage lines
Ri Saprolite and saprock of uncertain protolith
Rz Silcrete and brecciated siliceous caprock

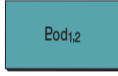


zq Quartz veins, of various ages



od Dolerite dykes, sills, and small intrusions, of various ages; one suite dated at c. 755 Ma<sup>1</sup>; includes minor quartz diorite, tonalite, and biotite monzogranite

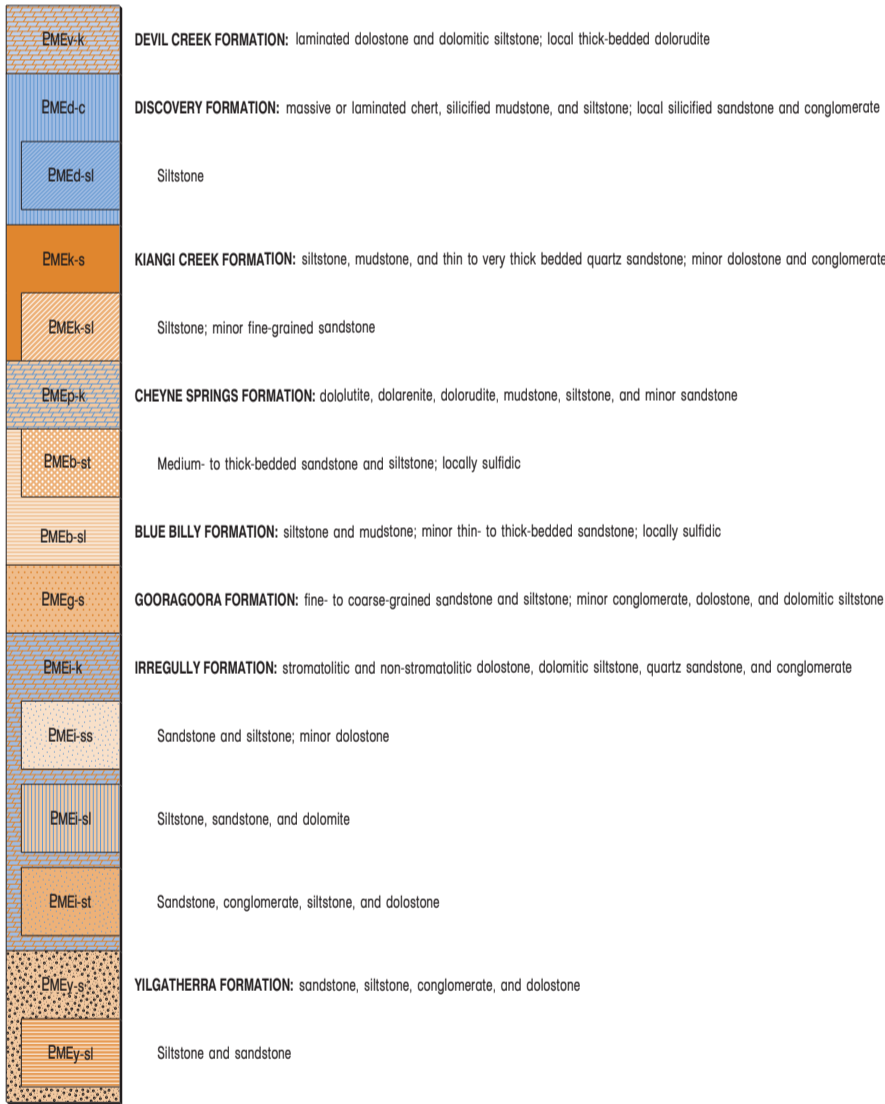
Edmundian Orogeny (1070-750 Ma<sup>2</sup>)



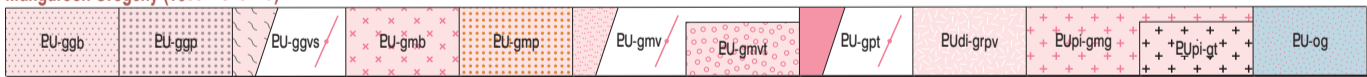
Pod1,2 Dolerite and gabbro sills intruded into Edmund Group; oldest suite (Pod1) dated at c. 1465 Ma<sup>3,4</sup>, and youngest suite (Pod2) dated at c. 1070 Ma<sup>3,4</sup>

Bangemall Supergroup

Edmund Group

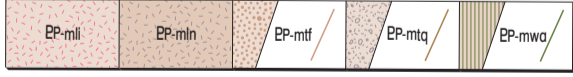


Mangaroo Orogeny (1680-1620 Ma)



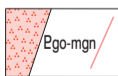
- EU-ggb Mesocratic, medium-grained, equigranular biotite granodiorite
EU-ggp Grey, massive, medium-grained, porphyritic biotite granodiorite
EU-ggvs Schlieric, medium-grained biotite-muscovite granodiorite with abundant inclusions of metasedimentary rock and augen gneiss; minor flow-banded biotite-muscovite monzogranite with inclusions
EU-gmb Equigranular, medium-grained biotite monzogranite
EU-gmp Cream, massive, medium-grained, porphyritic biotite(-muscovite) monzogranite
EU-gmv Cream, medium-grained muscovite-biotite granodiorite and monzogranite; equigranular or weakly porphyritic
EU-gmvt Cream, medium-grained muscovite-tourmaline(-biotite) monzogranite; locally garnet bearing
EU-gpt Tourmaline-muscovite pegmatite and coarse-grained granite, and fine-grained, leucocratic tourmaline-muscovite monzogranite
EUdi-grpv DINGO CREEK GRANITE: porphyritic biotite-muscovite granite; fine to medium grained with thin, tabular K-feldspar phenocrysts defining a trachytic texture
EUpi-gmg PIMBYANA GRANITE: massive, medium-grained, megacrystic and porphyritic biotite(-muscovite) monzogranite; tabular megacrysts of K-feldspar up to 7-cm long
EUjpi-gt Equigranular, fine- to medium-grained biotite tonalite and granodiorite
EU-og Massive metagabbro with xenocrysts of quartz and K-feldspar

Pooranoo Metamorphics



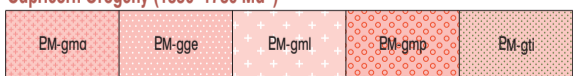
- EP-mli Migmatitic pelitic gneiss (diatexite and metatexite migmatite)
EP-min Pelitic gneiss and granulites composed of biotite-muscovite-quartz-plagioclase-sillimanite; also includes migmatitic pelitic gneiss
EP-mtf Metamorphosed feldspathic sandstone and psammitic schist; includes interbedded pelite, quartzite, and metamorphosed granule conglomerate
EP-mtq Metamorphosed cobble and pebble conglomerate, quartz sandstone, and pebbly quartz sandstone
EP-mwa Amphibolite and actinolite-plagioclase schist

Moorarie Supersuite



Ego-mgn GOOCHE GNEISS: strongly foliated, porphyritic granodiorite and monzogranite, and augen gneiss

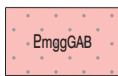
Capricorn Orogeny (1830-1780 Ma<sup>6</sup>)



- EM-gma Fine-grained, leucocratic biotite monzogranite
EM-gge Equigranular to sparsely porphyritic, medium-grained biotite(-muscovite) granodiorite
EM-gml Massive, equigranular, medium-grained, leucocratic biotite monzogranite
EM-gmp Massive, medium-grained, porphyritic biotite monzogranite; round phenocrysts of K-feldspar up to 5 cm in diameter; minor fine- to medium-grained, sparsely porphyritic monzogranite
EM-gti Medium- to coarse-grained tonalite with abundant mafic clots; lesser medium-grained granodiorite with scattered mafic clots



EmsqmGAL Quartz-mica schist and metamorphosed, fine-grained sandstone



EmggGAB Foliated and gneissic granodiorite and tonalite; weakly pegmatite banded (Section only)



EmisGAB Pelitic to psammitic schist; includes muscovite-quartz-andalusite-garnet-plagioclase-biotite schist (Section only)