

PHANEROZOIC

CAINOZOIC

Unassigned

QUATERNARY

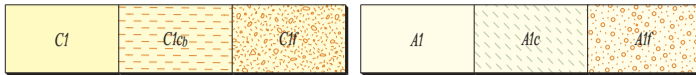


Sheetwash unit

W Sandy and clayey distal sheetwash and slope deposits, no clearly defined drainage

Lacustine unit

L Unconsolidated fine-grained deposits in claypans, perennial lakes, and swamps; low-lying areas with internal drainage; typically thickly vegetated



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

C1f Unconsolidated ferruginous rubble and scree

Alluvial units, third generation

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

A1c Clayey alluvium developed on alluvial flats

A1f Unconsolidated ferruginous silt, sand, and gravel

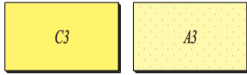


Colluvial unit, second generation

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



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

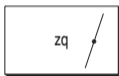


Residual or relict units

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

Rz Silcrete and brecciated siliceous caprock



Quartz veins, of various ages



Dolerite dykes, sills, and small intrusions, of various ages; one suite dated at *c.* 755 Ma¹; includes minor quartz diorite, tonalite, and biotite monzogranite

Edmundian Orogeny (1070–755 Ma²)

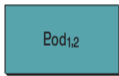
Bangemall Supergroup

Collier Group



BACKDOOR FORMATION

Thin- to thick-bedded dololite, dolomitic siltstone, dolarenite, and siltstone



Dolerite and gabbro sills intruded into **Edmund Group**; oldest suite (*Eod*₁) dated at *c.* 1465 Ma^{3,4}, and youngest suite (*Eod*₂) dated at *c.* 1070 Ma^{3,4}

COLLIER BASIN

MESOPROTEROZOIC

Bangemall Supergroup

Edmund Group



COORDARDOO FORMATION: thin to very thick bedded lithic quartz sandstone; minor siltstone and mudstone



Curran Member: siltstone and fine- to coarse-grained sandstone; locally intruded by dolerite sills; has gradational contacts with the underlying **ULLAWARRA FORMATION** and overlying **COORDARDOO FORMATION**



ULLAWARRA FORMATION: siltstone, fine-grained sandstone, dolostone, and chert; intruded by numerous dolerite sills (*Eod*_{1,2})



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



Siltstone



MUNTHARRA FORMATION: thin- to thick-bedded dolostone and stromatolitic dolostone, and sandstone and siltstone



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



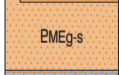
Medium to very thick bedded quartz sandstone and siltstone



CHEYNE SPRINGS FORMATION: dololite, dolarenite, dolerite, mudstone, siltstone, and minor sandstone



Medium- to thick-bedded sandstone and siltstone; locally sulfidic



BLUE BILLY FORMATION: siltstone and mudstone; minor thin- to thick-bedded sandstone; locally sulfidic



Medium- to thick-bedded sandstone and siltstone



GOORAGOORA FORMATION: fine- to coarse-grained sandstone and siltstone; minor conglomerate, dolostone, and dolomitic siltstone



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



Sandstone and siltstone; minor dolostone



Sandstone, conglomerate, siltstone, and dolostone



Siltstone, sandstone, and dolostone



YILGATHERRA FORMATION: sandstone, siltstone, conglomerate, and dolostone

c. 1620 Ma⁵

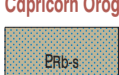
EDMUND BASIN

PROTEROZOIC

PALAEOPROTEROZOIC – MESOPROTEROZOIC

Capricorn Group

Capricorn Group



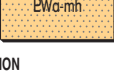
Capricorn Orogeny D_{2a}, D_{3a} (1805–1780 Ma)
BYWASH FORMATION: thin to very thick bedded medium to very coarse grained sandstone, dolomitic sandstone, dolostone, dololite, dolerite, and felsic volcanic rock

c. 1804 Ma⁶

BLAIR BASIN

Wyloo Group

Wyloo Group



ASHBURTON FORMATION

Ewa-s Siltstone, thin to very thick bedded lithic quartz sandstone, pebble to cobble conglomerate, and felsic volcanic rock; lower greenschist facies

Ewa-mh Interbedded psammite and pelite; includes quartz-muscovite-biotite-cordierite-andalusite-garnet schist and quartz-muscovite-biotite-stauroilite schist; upper greenschist to amphibolite facies

1829–1806 Ma^{7,8}

ASHBURTON BASIN

PALAEOPROTEROZOIC