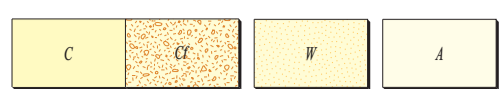


PHANEROZOIC

CAINOZOIC

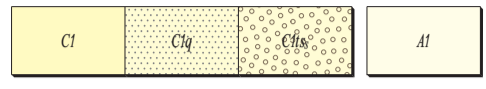
Unassigned



Colluvial units
C Proximal mass-wasting deposits in an unconsolidated to partly consolidated, weakly cemented and compacted silt and sand matrix; includes ferruginous deposits
Cf Ferruginous rubble and scree, unconsolidated

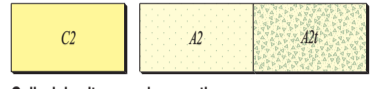
Sheetwash unit
W Sandy and clayey distal sheetwash and slope deposits, no clearly defined drainage

Alluvial unit
A Silt, sand, and gravel in active drainage channels and adjacent to floodplains; includes ferruginous deposits



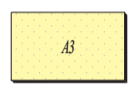
Colluvial units, third generation
C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
C1q Quartz fragments in an unconsolidated silt and sand matrix, derived from quartz veins and quartzose rock
C1s Sandstone fragments in a silt and sand matrix, derived from sandstone

Alluvial unit, third generation
A1 Unconsolidated silt, sand, and gravel in active drainage channels; includes ferruginous deposits



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

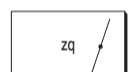
Alluvial units, second generation
A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage
A2t Alluvium with abundant lithic clasts



Alluvial unit, 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)



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}

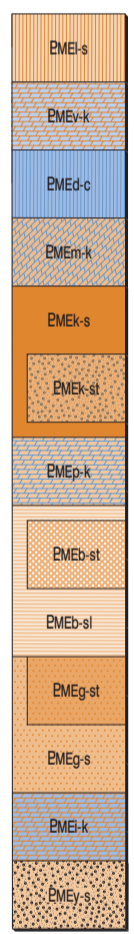
PROTEROZOIC

PALAEOPROTEROZOIC – MESOPROTEROZOIC

MESOPROTEROZOIC

Bangemall Supergroup

Edmund Group



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

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, dolorudite, 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

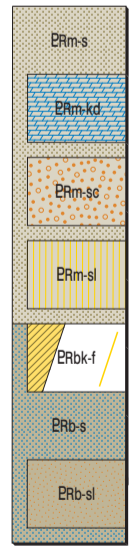
GOORAGOORA FORMATION: fine- to coarse-grained sandstone, and siltstone; minor conglomerate, dolostone, and dolomitic siltstone

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

YILGATHERRA FORMATION: sandstone, siltstone, conglomerate, and dolostone

Capricorn Orogeny D_{2a}, D_{3a} (1805–1780 Ma)

Capricorn Group



MOOLINE FORMATION: fine to very coarse grained sandstone, siltstone, conglomerate, dolostone, dolomitic siltstone, and felsic volcanoclastic sandstone

Thin to very thick bedded dolostone, dolomitic sandstone, dololite, dolorudite, and quartz sandstone

Polymictic, clast- and matrix-supported pebble to cobble conglomerate, pebbly sandstone, coarse-grained sandstone, dolomitic sandstone, and dolostone

Siltstone and fine-grained sandstone, medium to very coarse grained sandstone, dolomitic siltstone, dolostone, and felsic volcanoclastic sandstone

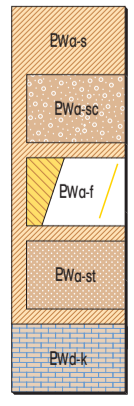
Koonong Member: thin- to thick-bedded, massive to planar laminated felsic volcanoclastic rock, and accretionary lapilli tuff

BYWASH FORMATION: thin to very thick bedded medium to very coarse grained sandstone, dolomitic sandstone, dolostone, dololite, dolorudite, and felsic volcanic rock

Siltstone, dolostone, and fine- to coarse-grained sandstone

Capricorn Orogeny D_{1a} (c. 1805 Ma)

Wyloo Group



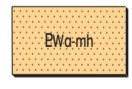
ASHBURTON FORMATION: siltstone, thin to very thick bedded lithic quartz sandstone, pebble to cobble conglomerate, and felsic volcanic rock; lower greenschist facies

Pebble to cobble conglomerate, thin to very thick bedded sandstone, and siltstone; lower greenschist facies

Thin to very thick bedded, massive to laminated felsic volcanoclastic sandstone, and siltstone; lower greenschist facies

Thin to very thick bedded lithic quartz sandstone, and siltstone, pebbly sandstone, and conglomerate; lower greenschist facies

DUCK CREEK DOLOMITE: thin- to thick-bedded laminated dolostone



Interbedded psammite and pelite; includes quartz–muscovite–biotite–cordierite–andalusite–garnet schist and quartz–muscovite–biotite–staurolite schist; upper greenschist to amphibolite facies; metamorphosed **ASHBURTON FORMATION**

EDMUND BASIN

BLAIR BASIN

ASHBURTON BASIN