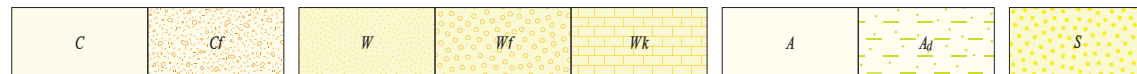


PHANEROZOIC

CENOZOIC

Unassigned



Colluvial units
C Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits
Cf Ferruginous rubble and scree

Sheetwash units
W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
Wf Low-gradient deposits of ferruginous sand, silt, and gravel
Wk Distal sheetwash with calcrete cutans and carbonate cement

Alluvial units
A Clay, silt, sand, and gravel in channels and on floodplains
Ad Unconsolidated, fine-grained deposits in alluvial drainage depressions, claypans, ephemeral lakes, and swamps; low-lying areas with internal drainage; typically thickly vegetated

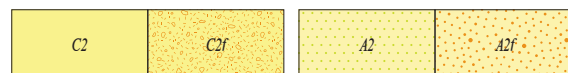
Sandplain unit
S Quartz sand of mixed origin; includes residual and eolian sands

QUATERNARY



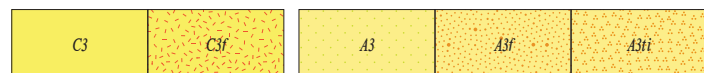
Colluvial units, third generation
C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
Cf Unconsolidated ferruginous rubble and scree

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



Colluvial units, second generation
C2 Quartz and rock fragments in a partly consolidated silt and sand matrix
C2f Partly consolidated ferruginous rubble and scree

Alluvial units, second generation
A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage
A2f Partly consolidated ferruginous silt, sand, and gravel; partly dissected by present-day drainage

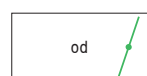


Colluvial units, first generation
C3 Quartz and rock fragments in a weakly cemented and compacted silt and sand matrix; deeply dissected valley-fill deposits
C3f Ferruginous rubble and scree in a weakly cemented and compacted silt and sand matrix; partly dissected

Alluvial units, first generation
A3 Weakly cemented and compacted silt, sand, and gravel; deeply dissected by present-day drainage
A3f Weakly cemented silt, sand, and minor gravel in older floodplains adjacent to older drainage
A3ti Sand and gravel with ferruginous cement; deeply dissected by present day drainage



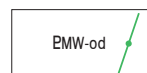
Residual or relict units
Rf Ferruginous deposits, including lateritic, ferruginous, and manganiferous duricrust
Rk Calcrete, developed in, and adjacent to alluvial channels; carbonate and vuggy opaline silica; dissected by major present-day drainage
Rl Saprolite and saprock of uncertain protolith
Rz Silcrete and brecciated siliceous caprock



od Dolerite dykes, sills, or plugs: fine- to medium-grained dolerite; age uncertain

Mulka Tectonic Event (c. 570 Ma)

c. 755 Ma



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 (1026–954 Ma²)

c. 1070 Ma



KULKATHARRA DOLERITE: dolerite and gabbro sills intruded into Edmund Group and Collier Group

NEOPROTEROZOIC

MESOPROTEROZOIC

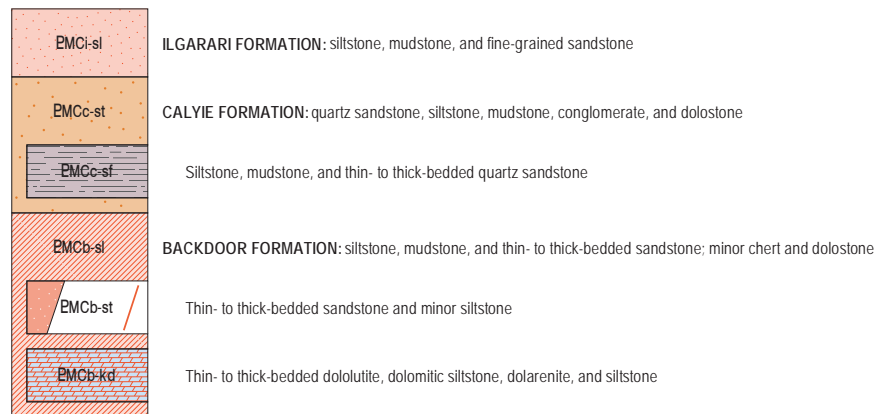
PROTEROZOIC

PALEOPROTEROZOIC–MESOPROTEROZOIC

PALEOPROTEROZOIC

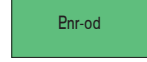
Bangemall Supergroup

Collier Group



Mutherbukin Tectonic Event (1385–1171 Ma)

c. 1465 Ma



NARIMBUNNA DOLERITE: dolerite and gabbro sills intruded into Edmund Group

Bangemall Supergroup

Edmund Group



<1620 Ma

Wyloo Group



Mangaroon Orogeny (1677–1619 Ma³)
PBR-s Pebble- to boulder-conglomerate, pebbly sandstone, sandstone, siltstone, and mudstone (section only)



Capricorn Orogeny (1817–1772 Ma⁴)
EWyq-s ASHBURTON FORMATION: siltstone, thin to very thick bedded lithic quartz sandstone, pebble to cobble conglomerate, and felsic volcanic rock; lower greenschist facies (section only)

c. 1806 Ma

WARAKURNA
LARGE IGNEOUS
PROVINCE

COLLIER BASIN

EDMUND BASIN

BRESNAHAN
BASIN

ASHBURTON BASIN