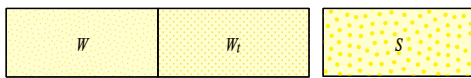


PHANEROZOIC

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')

Sandplain unit

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



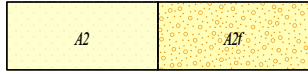
Colluvial unit, third generation

C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits

Alluvial units, third generation

A1 Silt, sand, and gravel in active drainage channels and on floodplains; includes ferruginous deposits

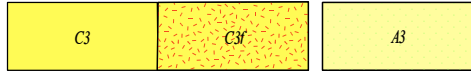
A1k Carbonate-rich silt, sand, and gravel in active drainage channels and on floodplains



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 unit, first generation

A3 Weakly cemented and compacted silt, sand, and gravel; deeply dissected by present-day drainage

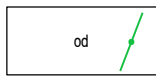


Residual or relict units

Rf Ferruginous deposits, including lateritic, ferruginous, and manganiferous duricrust

Rk Calcrete, developed in and adjacent to alluvial channels; carbonate and vuggy opaline silica; dissected by major present-day drainage

Ri Saprolite and saprock of uncertain protolith



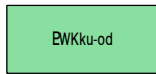
Dolerite dykes, sills, or plugs: fine- to medium-grained dolerite; age uncertain

Mulka Tectonic Event (c. 570 Ma)

Edmundian Orogeny (1030–950 Ma¹)

c.1070 Ma

Warakurna Supersuite

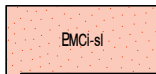


KULKATHARRA DOLERITE: dolerite and gabbro sills intruded into Edmund Group and Collier Group

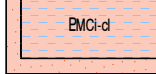
c.1465 Ma

Bangemall Supergroup

Collier Group



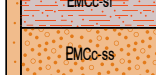
ILGARARI FORMATION: siltstone, mudstone, and fine-grained sandstone



Chert and silicified siltstone



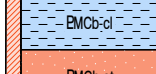
CALYIE FORMATION: quartz sandstone, siltstone, mudstone, conglomerate, and dolostone



Siltstone and minor sandstone



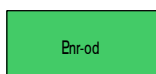
Thin- to thick-bedded sandstone and siltstone



BACKDOOR FORMATION: siltstone, mudstone, and thin- to thick-bedded sandstone; minor chert and dolostone



Chert and siltstone

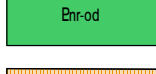


Thin- to thick-bedded sandstone and siltstone

c.1465 Ma

Bangemall Supergroup

Edmund Group



NARIMBUNNA DOLERITE: dolerite and gabbro sills intruded into Edmund Group

c.1465 Ma



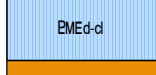
ULLAWARRA FORMATION: siltstone; subordinate fine-grained sandstone, dolostone, and chert; locally intruded by numerous dolerite sills



Felsic volcanoclastic sandstone and breccia



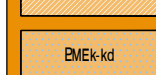
Sandstone and siltstone



DEVIL CREEK FORMATION: siltstone, dolomitic siltstone, and dolostone



DISCOVERY FORMATION: massive or laminated chert, silicified mudstone, and siltstone; local silicified sandstone and conglomerate



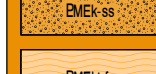
KIANGI CREEK FORMATION: siltstone, mudstone, and thin- to very thick-bedded quartz sandstone; minor dolostone and conglomerate (not on map)



Siltstone; minor fine-grained sandstone



Dolostone, siltstone, and sandstone



Thin- to very thick-bedded sandstone and conglomerate



Conglomerate, pebbly sandstone, and sandstone



Sandstone and siltstone



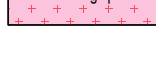
Massive or flow banded rhyolite; locally porphyritic



Felsic volcanoclastic sandstone and siltstone; abundant accretionary lapilli locally



Medium- to very thick-bedded quartz sandstone and siltstone



Silicified, feldspathic quartz sandstone, siltstone, and minor conglomerate

< 1620 Ma

Bangemall Supergroup

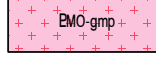
Edmund Group



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

1817–1776 Ma

Moorarie Supersuite



Massive, medium-grained, porphyritic biotite monzogranite; round phenocrysts of K-feldspar up to 5 cm in diameter; minor fine- to medium-grained, sparsely porphyritic biotite monzogranite

WARAKURNA
LARGE IGNEOUS
PROVINCE

COLLIER BASIN

EDMUND BASIN

GASCOYNE
PROVINCE

MESOPROTEROZOIC

PALEOPROTEROZOIC – MESOPROTEROZOIC

PROTEROZOIC