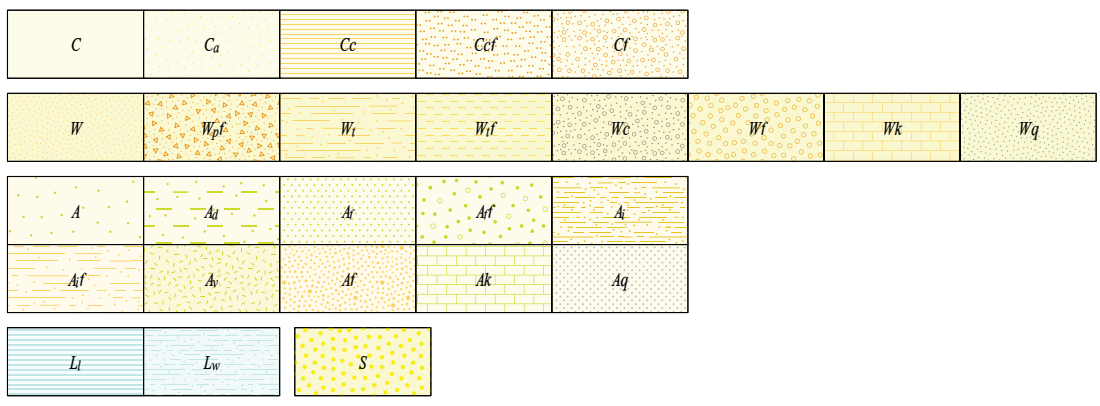


Colluvial units, age undivided or unassigned

C	Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits
Ca	Colluvial fan; sand-or clay-rich
Cc	Colluvium of clay-rich, deeply weathered and saprolitic rock fragments in silt and sand matrix; locally abundant siliceous debris
Ccf	Clay-rich and ferruginous colluvium; commonly includes weathered and saprolitic rock fragments in silt and sand matrix; locally abundant siliceous debris
Cf	Ferruginous rubble and scree

Sheetwash units, age undivided or unassigned

W	Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
Wpf	Predominantly ferruginous sandy and clayey distal sheetwash deposits with claypans and playas; locally abundant quartz vein debris
Wt	Silt and sand; surface characterized by shallow depressions aligned perpendicular to slope; supports banded mosaic vegetation ('tiger bush')
Wtf	Ferruginous silt and sand; surface characterized by shallow depressions aligned perpendicular to slope; supports banded mosaic vegetation ('tiger bush')
Wc	Clay, silt, and sand from saprolite and saprock
Wf	Low-gradient deposits of ferruginous sand, silt, and gravel
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

Alluvial units, age undivided or unassigned

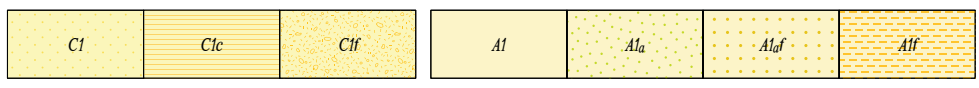
A	Clay, silt, sand, and gravel in channels and on floodplains
Aa	Unconsolidated, fine-grained deposits in alluvial drainage depressions, claypans, ephemeral lakes, and swamps; low-lying areas with internal drainage; typically thickly vegetated
At	Unconsolidated, fine-grained deposits on floodplains
Atf	Unconsolidated, fine-grained ferruginous deposits on floodplains
Ai	Unconsolidated, fine-grained deposits in alluvial drainage depressions, claypans, and ephemeral floodplain lakes; low-lying areas with internal drainage
Aif	Ferruginous clay, silt, and sand in floodplain with numerous claypans
Av	Fan-shaped deposits of unconsolidated, fine-grained sand to boulders in fine-grained matrix on steep hill slopes
Af	Ferruginous clay, silt, sand, and gravel in channels and on floodplains
Ak	Calcrete developed in and adjacent to alluvial channels
Aq	Alluvium with abundant quartz vein fragments

Lacustrine units, age undivided or unassigned

Ll	Fresh water lakes, excluding fringing deposits
Lw	Clay and silt in swamp deposits, commonly surrounding lakes and clay ponds

Sandplain unit, age undivided or unassigned

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

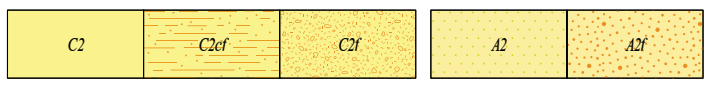


Colluvial units, unconsolidated

C1	Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
C1c	Clay, quartz sand, and deeply weathered rock fragments; reworked saprolite and saprock
C1f	Unconsolidated ferruginous rubble and scree

Alluvial units, unconsolidated

A1	Unconsolidated silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
A1a	Unconsolidated clay, silt, sand, and gravel on active alluvial plains
A1af	Unconsolidated, predominantly ferruginous clay, silt, sand, and gravel on active alluvial plains
A1f	Unconsolidated silt, sand, and minor gravel in floodplains adjacent to present-day drainage

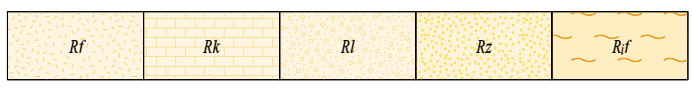


Colluvial units, weakly consolidated

C2	Quartz and rock fragments in a partly consolidated silt and sand matrix
C2cf	Partly consolidated ferruginous colluvium; commonly includes weathered and saprolite rock fragments
C2f	Partly consolidated ferruginous rubble and scree

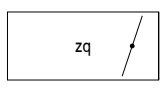
Alluvial units, weakly consolidated

A2	Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage
A2f	Partly consolidated silt, sand, and minor gravel in older floodplain deposits, partly dissected



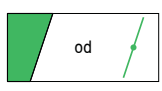
Residual or relict units

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
Rif	In situ weathered rock; ferruginous



Quartz vein or pod; massive, crystalline, or brecciated; age uncertain

Mulka Tectonic Event (c. 570 Ma)

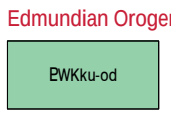


Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain

Edmundian Orogeny (1030–955 Ma[1])

c. 1070 Ma

Warakurna Supersuite



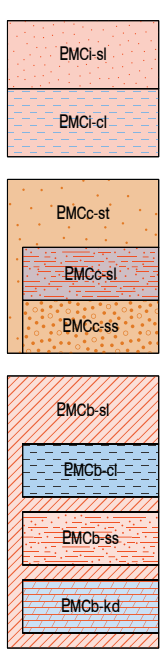
KULKATHARRA DOLERITE: dolerite and gabbro sills intruded into Edmund Group and Collier Group

WARAKURNA IGNEOUS PROVINCE

MESOPROTEROZOIC

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

Thin- to thick-bedded dololutite, dolomitic siltstone, dolarenite, and siltstone (section only)

COLLIER BASIN

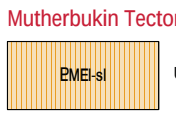
c. 1170 Ma

Mutherbukin Tectonic Event (1385–1170 Ma)

> 1460 Ma

< 1620 Ma

Edmund Group



ULLAWARRA FORMATION: siltstone; subordinate fine-grained sandstone, dolostone, and chert; intruded by numerous dolerite sills (section only)

EDMUND BASIN

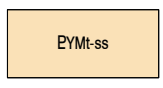
Mangaroon Orogeny (1680–1620 Ma[2])

Capricorn Orogeny (1820–1770 Ma[3])

Glenburgh Orogeny (2005–1950 Ma[4])

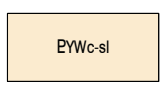
PALEOPROTEROZOIC

Mooloogool Group



THADUNA FORMATION: lithic sandstone; litharenite; shale; siltstone; and quartz wacke; locally containing fragments of basaltic scoria and thin volcaniclastic lenses; minor dolomite

Windplain Group



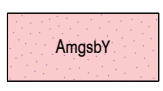
JOHNSON CAIRN FORMATION: shale and siltstone; minor quartz arenite; feldspathic sandstone; and thin-bedded dolomite and marl

YERRIDA BASIN

ARCHEAN

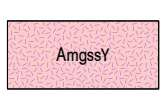
MESOARCHEAN – NEOARCHEAN

2660–2694 Ma[7,8]



Biotite-rich metagranitic rock; variably schistose

2720 Ma[5,6]



Foliated metagranite, locally gneissic; may include amphibolite lenses; includes deeply weathered rock

Gneiss, undivided

Sedimentary rock, undivided; includes sandstone, siltstone, shale, chert, and minor schistose metamafic rock; metamorphosed; commonly deeply weathered

Sandstone to siltstone; local conglomerate; metamorphosed

Banded iron-formation; finely interleaved magnetite- and quartz-rich chert and/or siliceous slate; metamorphosed

Amphibolite; interlayered with metasiltstone, metasandstone, and fine-grained mafic metavolcanic rock

Komatiitic metabasalt; interlayered with chlorite–mica schist, graphitic schist, fine-grained metasandstone, and hematite–limonite metasiltstone

Foliated, fine-grained, metamorphosed mafic rock; locally hornfelsed or epidotized

Basalt; locally porphyritic; metamorphosed; includes dolerite-textured zones and feldspar--hornblende or chlorite schist

Metamorphosed ultramafic rock; may include layered metamafic rocks, amphibolite, and graphitic schist

EASTERN GOLDFIELDS SUPERTERRANE

YILGARN CRATON