PHANEROZOIC

CENOZOIC

QUATERNARY

C | Cf | W | Wpf | Wt | Wtf | Wf

A | Af | Af | Ea2 | S | Se

Colluvial units, age undivided or unassigned

C Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits

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')

Wf Low-gradient deposits of ferruginous sand, silt, and gravel

Alluvial units, age undivided or unassigned

A Clay, silt, sand, and gravel in channels and on floodplains

Af Unconsolidated, fine-grained ferruginous deposits on floodplains

Af Ferruginous clay, silt, sand, and gravel in channels and on floodplains

Eolian unit, age undivided or unassigned

Ea2 Eolian dunes stabilized by vegetation

Sandplain units, age undivided or unassigned

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

Se Sandplain containing evaporate minerals

C1 | C1f | A1 | A1f

Colluvial units, unconsolidated

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

C1f Unconsolidated ferruginous rubble and scree

Alluvial units, unconsolidated

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

A1f Unconsolidated silt, sand, and minor gravel in floodplains adjacent to present-day drainage

C2 | C2f | A2

Colluvial units, weakly consolidated

C2 Quartz and rock fragments in a partly consolidated silt and sand matrix

C2f Partly consolidated ferruginous rubble and scree

Alluvial unit, weakly consolidated

A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage

C3 | A3

Colluvial unit, consolidated

C3 Quartz and rock fragments in a weakly cemented and compacted silt and sand matrix; deeply dissected valley-fill deposits

Alluvial unit, consolidated

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

Rf | Rk | Rz

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

Rz Silcrete and brecciated siliceous caprock

Mulka Tectonic Event (c. 570 Ma)

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

Edmundian Orogeny (1026–954 Ma[1])

MESOPROTEROZOIC

1084–1067 Ma — Warakurna Supersuite

PWKku-od — **KULKATHARRA DOLERITE:** dolerite and gabbro sills intruded into Edmund Group and Collier Group

WARAKURNA LARGE IGNEOUS PROVINCE

Bangemall Supergroup — Collier Group — Collier Basin

PMCi-sl — **ILGARARI FORMATION:** siltstone and fine-grained sandstone; minor chert and limestone

PMCc-st — **CALYIE FORMATION:** quartz sandstone and subordinate siltstone; minor conglomerate

PMCc-sf — Siltstone and thin- to thick-bedded quartz sandstone

PMCc-ss — Thin- to thick-bedded sandstone and siltstone

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

PMCb-cl — Chert and siltstone

PMCb-st — Thin- to thick-bedded sandstone and minor siltstone

<1171 Ma

Mutherbukin Tectonic Event (1321–1171 Ma)

Scorpion Group — Scorpion Basin

PMSy-kds — **WILLY WILLY FORMATION:** interbedded stromatolitic dolomite, siltstone, and sandstone; commonly contorted bedding (section only)

1653–1455 Ma — PMSw-st — **WONYULGUNNA SANDSTONE:** quartz sandstone; minor cobble conglomerate, siltstone, and mudstone

PALEOPROTEROZOIC

Mangaroon Orogeny (1682–1619 Ma[2])

Capricorn Orogeny (1817–1772 Ma[3])

1971–1949 Ma — Tooloo Group — PETy-sz — **YELMA FORMATION:** sandstone, siltstone, and shale; minor conglomerate and dolomite (locally stromatolitic) — Earaheedy Basin

Glenburgh Orogeny (2002–1947 Ma[4])

ARCHEAN

MESOARCHEAN –NEOARCHEAN

3010–2600 Ma[5,6,7,8] — AmgssY — Foliated metagranite, locally gneissic; may include amphibolite lenses; includes deeply weathered rock

AsYEG — Siliciclastic sedimentary rock, undivided; includes sandstone, siltstone, shale, and chert; metamorphosed

2960–2650 Ma — AcibYEG — Banded iron-formation; finely interleaved magnetite- and quartz-rich chert and/or siliceous slate; metamorphosed

Eastern Goldfields Superterrane — YILGARN CRATON