

PHANEROZOIC

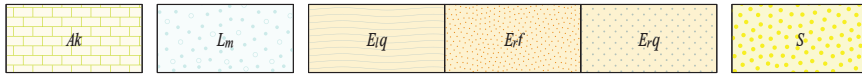
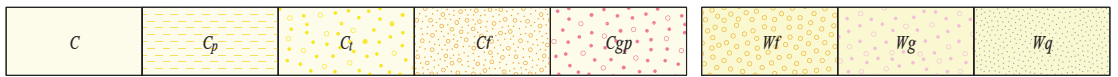
CENOZOIC

QUATERNARY



Alluvial units

- A<sub>d</sub>* Clay, silt, and sand in drainage depressions
- A<sub>f</sub>* Clay, silt, and sand in alluvial floodplain deposits
- A<sub>k</sub>* Carbonate-rich clay, silt, and sand in alluvial floodplain deposits
- A<sub>i</sub>* Clay, silt, and sand in floodplain with numerous claypans
- A<sub>p</sub>* Clay and silt in claypans
- A<sub>u</sub>* Clay, silt, and sand in superficial channels
- A<sub>v</sub>* Clay, silt, and sand in alluvial fan deposits



Colluvial units, age undivided or unassigned

- C* Colluvium derived from different rock types; includes gravel, sand, and clay
- C<sub>p</sub>* Clay, silt, and sand of mixed origin in pediplain deposits; subcropping bedrock
- C<sub>t</sub>* Talus deposits
- C<sub>f</sub>* Ferruginous clay, silt, and sand in colluvial deposits
- C<sub>gp</sub>* Quartzofeldspathic clay, silt, and sand in colluvial deposits; derived from plutonic rocks

Sheetwash units, age undivided or unassigned

- W<sub>f</sub>* Clay, silt, and sand with abundant ferruginous grit
- W<sub>g</sub>* Clay, silt, and sand sheetwash deposits, commonly derived from granitic rocks
- W<sub>q</sub>* Quartz-rich silt and sand, with minor clay

Alluvial units, age undivided or unassigned

- A<sub>k</sub>* Carbonate-cemented alluvium and fluvial deposits, and valley calcrete; locally silicified

Lacustrine unit, age undivided or unassigned

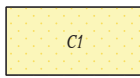
- L<sub>m</sub>* Clay, silt, and sand in dune and playa deposits

Eolian units, age undivided or unassigned

- E<sub>lq</sub>* Quartz-rich sand in longitudinal dunefield
- E<sub>r,f</sub>* Ferruginous sand in eolian sandplain
- E<sub>lq</sub>* Quartz-rich sand in eolian sandplain

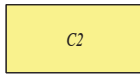
Sandplain unit, age undivided or unassigned

- S* Sandplain



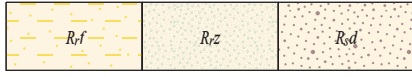
Colluvial unit, unconsolidated

- C1* Unconsolidated clay, silt, and sand in colluvial deposits



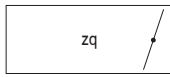
Colluvial unit, semiconsolidated

- C2* Semiconsolidated clay, silt, and sand in colluvial deposits

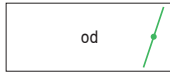


Residual or relict units

- R<sub>f</sub>* Ferruginous duricrust and iron-cemented products
- R<sub>z</sub>* Siliceous duricrust
- R<sub>d</sub>* Residual sand, with minor clay and silt



Quartz vein or pod; massive, crystalline, or brecciated; age uncertain (section only)



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

MESOZOIC



LARRANGANNI FORMATION: sandstone, minor siltstone, and conglomerate

CANNING BASIN

NEO-PROTEROZOIC

830–810 Ma

Redcliff Pound Group



LEWIS RANGE SANDSTONE: cross-bedded quartz sandstone with ripple marks; minor sandstone, conglomerate, and siltstone

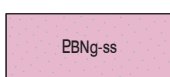
MURRABA BASIN

CENTRALIAN SUPERBASIN

PROTEROZOIC

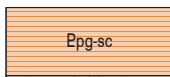
1735–1640 Ma

Birrindudu Group

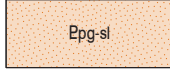


GARDINER SANDSTONE: cross-bedded, white, medium- to coarse-grained, poorly sorted quartz sandstone with siltstone and shale; minor glauconitic sandstone and flaggy dolomitic sandstone, and basal conglomerate; shallow marine to emergent

BIRRINDUDU BASIN



PARGEE SANDSTONE  
Conglomerate, cross-bedded sandstone and quartz sandstone, siltstone, and shale; minor dolomitic sandstone



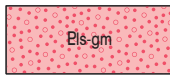
Siltstone and mudstone; minor fine-grained, micaceous quartz sandstone

Tanami Orogeny (D<sub>2</sub>: 1835–1795 Ma)



Biotite monzogranite

1820–1790 Ma

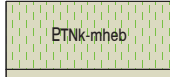


- Els-gm* LEWIS GRANITE: muscovite and biotite monzogranite; locally porphyritic; minor biotite granodiorite
- Esl-gm* SLATEY CREEK GRANITE: muscovite and biotite monzogranite, locally porphyritic; minor biotite granodiorite

PALEOPROTEROZOIC

1840–1835 Ma

Tanami Group



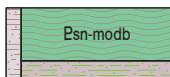
- ETNk-mheb* KILLI KILLI FORMATION  
Contact-metamorphosed feldspathic metawacke, metasandstone, metasiltstone, and metamudstone; biotite zone
- ETNk-mh* Feldspathic metawacke, metasandstone, metasiltstone and metamudstone; minor quartzite, banded metachert, metabasalt, metadolomite, and metagabbro



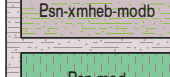
Interbedded mudstone, siltstone, feldspathic wacke, and chert; metamorphosed



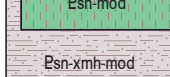
- EmhebGT* Contact-metamorphosed psammite and pelite; biotite zone
- EmhGT* Feldspathic wacke, sandstone, siltstone, and mudstone; minor quartzite, banded chert, basalt, dolerite, gabbro, and felsic porphyry; metamorphosed at very low to low grade



Contact-metamorphosed metadolomite; biotite zone



Contact-metamorphosed psammite and pelite, and metadolomite; biotite zone



Metadolomite sill; minor interlayered, metamorphosed feldspathic wacke, sandstone, siltstone, and mudstone

c. 1864 Ma



Foliated biotite–muscovite–quartz–plagioclase–K-feldspar orthogneiss with thin leucocratic quartz–feldspar interlayers (section only)

GRANITES–TANAMI OROGEN

ARCHEAN