

PHANEROZOIC

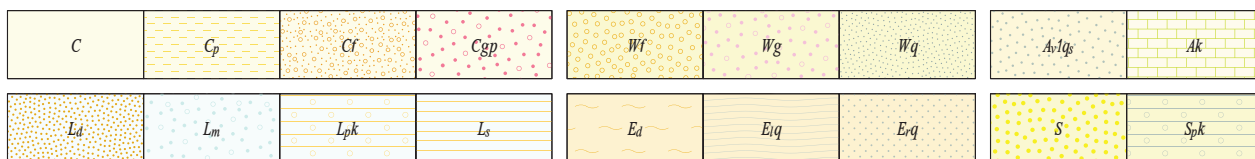
CENOZOIC

QUATERNARY



Alluvial units

- Ad* Clay, silt, and sand in drainage depressions
- Ark* Carbonate-rich clay, silt, and sand in alluvial floodplain deposits
- Ai* Clay, silt, and sand on floodplain with numerous claypans
- Av* Clay, silt, and sand in alluvial fan deposits
- Au* Clay, silt, and sand in superficial channels



Colluvial units, age undivided or unassigned

- C* Colluvium derived from different rock types; includes gravel, sand, silt, and clay
- Cp* Clay, silt, and sand of mixed origin in pediplain deposits; subcropping bedrock
- Cf* Ferruginous clay, silt, and sand in colluvial deposits
- Cgp* Quartzofeldspathic clay, silt, and sand in colluvial deposits; derived from plutonic rock

Sheetwash units, age undivided or unassigned

- Wf* Clay, silt, and sand with abundant ferruginous grit
- Wg* Clay, silt, and sand sheetwash deposits, commonly derived from granitic rock
- Wq* Quartz-rich silt and sand; with minor clay

Alluvial units, age undivided or unassigned

- Av1qs* Unconsolidated quartz-rich silt and sand with minor clay; alluvial fan deposits derived from sedimentary rocks
- Ak* Carbonate-cemented alluvium and fluvial deposits and valley calcrete; locally silicified

Lacustrine units, age undivided or unassigned

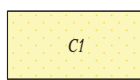
- Ld* Clay, silt, and sand in dunes fringing lakes
- Lm* Clay, silt, and sand in dune and playa deposits
- Lpk* Clay, silt, and sand in carbonate-rich playa deposits
- Ls* Saline lake, rimmed by evaporitic gypsum and carbonate deposits

Eolian units, age undivided or unassigned

- Ed* Sand in dunefield
- Elq* Quartz-rich sand in longitudinal dunefield
- Erq* Quartz-rich sand in eolian sandplain

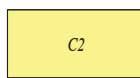
Sandplain units, age undivided or unassigned

- S* Sandplain
- Spk* Clay, silt, and sand in carbonate-rich sandplain and playa deposits



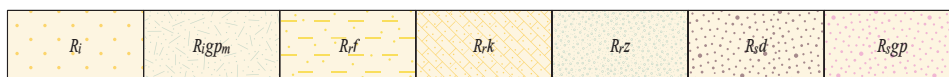
Colluvial unit, unconsolidated

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



Colluvial unit, weakly consolidated

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

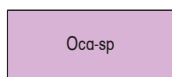


Residual or relict units

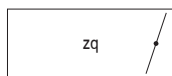
- Ri* Weathered bedrock
- Rgpm* Quartzofeldspathic sand, silt, and clay derived from weathered monzogranite
- Rrf* Ferruginous duricrust and iron-cemented products
- Rrk* Carbonate-rich duricrust
- Rz* Siliceous duricrust
- Rsd* Residual sand, with minor clay and silt
- Rsgp* Quartzofeldspathic sand, silt, and clay derived from plutonic rocks

PALEOZOIC

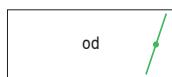
LOWER ORDOVICIAN



CARRANYA FORMATION: sandstone and polymictic conglomerate, fossiliferous



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

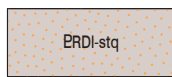


od Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain

NEOPROTEROZOIC

830–810 Ma

Redcliff Pound Group



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

1735–1640 Ma

Birringudu Group



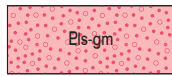
Cross-bedded sandstone, siltstone and shale

Tanami Orogeny (D₂: 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

1835–1795 Ma



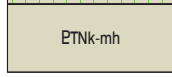
BALWINA GRANITE: muscovite and biotite monzogranite; locally porphyritic; minor biotite granodiorite

1840–1835 Ma

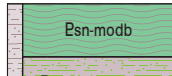
Tanami Group



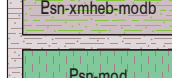
KILLI KILLI FORMATION
Contact-metamorphosed feldspathic metawacke, metasandstone, metasilstone, and metamudstone; biotite zone



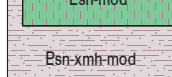
Feldspathic metawacke, metasandstone, metasilstone and metamudstone; minor quartzite, banded metachert, metabasalt, metadolerite, and metagabbro



Contact-metamorphosed metadolerite; biotite zone



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



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

c. 1864 Ma



STUBBINS FORMATION: metamorphosed feldspathic wacke, sandstone, siltstone, mudstone, and dolerite and gabbro sills; minor quartzite, metamorphosed banded chert, and metabasalt

PALEOPROTEROZOIC

CANNING BASIN

MURRABA BASIN

BIRRINGUDU BASIN

GRANITES-TANAMI OROGEN

CENTRALIAN SUPERBASIN