

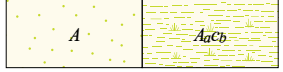
PHANEROZOIC

CENOZOIC



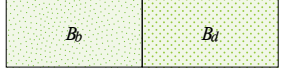
**Colluvial units**

- Cfw* Ferruginous, pisolitic, sandy, and lateritic soils; colluvial deposits derived from weathered bedrock
- Cmpi* Ferromagnesian colluvial deposits and lateritic soils derived from dolerite
- Cmvb* Ferromagnesian, colluvial deposits, red-brown sand and silt, with pisoliths; derived from basalt
- Cqs* Quartz-rich sand, silt and gravel in colluvial deposits derived from sedimentary rocks
- Cxs* Micaceous colluvium derived from sedimentary rocks



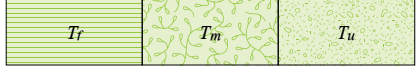
**Alluvial units**

- A* Clay, silt, sand, and gravel in channels and on floodplains
- Aacb* Black soils (gilgai); grey to black smectitic clays on alluvial plains



**Coastal (wave-dominated) units**

- Bb* Beach sand
- Bd* Coastal dunes and beach deposits; unconsolidated shelly sand



**Coastal (tide-dominated) units**

- Tr* Sand, silt, and mud on tidal flats; locally with salt crust
- Tm* Sand, silt, and mud on mangrove flats
- Tu* Sand, silt, and mud on supratidal flats; locally with salt crust



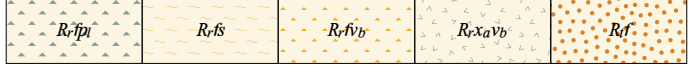
**Marine unit**

- Mr* Reef



**Residual or relict unit**

- Rs* Residual sand; locally iron-rich and rubbly; may contain ferruginous pisoliths and nodules



**Residual or relict units**

- Rrtpi* Ferruginous duricrust derived from dolerite
- Rrfs* Ferruginous duricrust, massive to rubbly; derived from siliciclastic sedimentary rocks; includes iron-cemented reworked products
- Rrvb* Ferruginous duricrust; pisolitic and locally rubbly; developed on basalt as mesas and caps
- Rrxavb* Aluminous duricrust; pisolitic, massive to locally rubbly; developed on basalt as mesas and caps
- Rrf* Transported ferruginous duricrust; iron-cemented sand and gravel

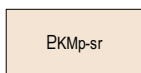
**King Leopold Orogeny (c. 560 Ma)**

**Yampi Orogeny (1000–800 Ma)**

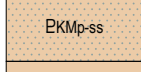
c. 1795 Ma



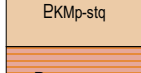
**HART DOLERITE:** dark-grey dolerite and gabbro, and pink to pale-grey, medium- to coarse-grained granophyre



**PENTECOST SANDSTONE:**  
Upper unit: medium- to coarse-grained quartz sandstone and pebbly quartz sandstone



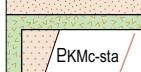
Middle unit: pink and white quartz sandstone, purple to grey fine-grained sandstone, purple siltstone and mudstone



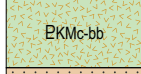
Lower unit: quartz sandstone, feldspathic sandstone and micaceous siltstone



**ELGEE SILTSTONE:** red-brown and grey siltstone, mudstone and sandstone; basal dolomite, dolomitic sandstone, locally oolitic and stromatolitic



**WARTON SANDSTONE:** white to buff quartz sandstone and feldspathic sandstone; siltstone interbeds; minor hematitic sandstone



Feldspathic sandstone, quartz sandstone, and siltstone; lesser stromatolitic chert

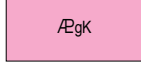


**CARSON VOLCANICS:** massive and amygdaloidal basalt and basaltic volcanoclastic rock; interbedded quartz sandstone, feldspathic sandstone, siltstone and chert

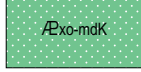


**KING LEOPOLD SANDSTONE:** white to pale-brown, medium- to coarse-grained quartz sandstone and pebbly quartz sandstone; minor siltstone and granule to pebble conglomerate

**Halls Creek Orogeny (1832–1808 Ma)**



Unexposed granitic rocks of the Kimberley Craton, beneath the Kimberley and Speewah Basins (section only)



Dominantly mafic intrusive, and metasedimentary rocks, of the Kimberley Craton; unexposed and interpreted from geophysical data (section only)

PROTEROZOIC

PALEOPROTEROZOIC

Kimberley Group

Upper

Lower

KIMBERLEY BASIN

NORTH AUSTRALIAN CRATON

KIMBERLEY CRATON

ARCHEAN-PROTEROZOIC