

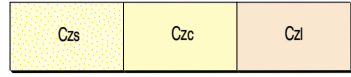
PHANEROZOIC

CAINOZOIC

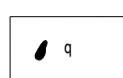
QUATERNARY



Qa Alluvium—unconsolidated silt, sand, and gravel
Qb Black soil—clay and silt



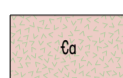
Czs Colluvium and alluvium—partly consolidated silt, sand, and gravel; adjacent to drainage; sand plain on laterite surface
Czc Colluvium—partly consolidated scree and valley-fill deposits
Czl Laterite—massive and pisolitic ferruginous duricrust; forms plateaus overlying weathered rock (Eg—granitoid, EA—Amherst Metamorphics, ET—Ticklara Metamorphics); steep breakaways commonly form at the margins



Quartz veins, of various ages; youngest generation postdates Cambrian units

PALAEZOIC

CAMBRIAN



ANTRIM PLATEAU VOLCANICS: dark grey vesicular and amygdaloidal basalt; generally deeply weathered

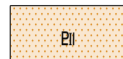


LALLY CONGLOMERATE: medium- to coarse-grained quartz sandstone, and cobble conglomerate

PROTEROZOIC

c. 670 Ma

Louisa Downs Group



LUBBOCK FORMATION: grey, green, or purple siltstone and shale; interbedded with fine- and medium-grained quartz wacke



TEAN FORMATION: feldspathic sandstone, quartz wacke, quartz sandstone, pebble conglomerate, siltstone, and shale; minor dolomite



McALLY SHALE: black, grey, and green shale; minor siltstone and fine- to very fine-grained sandstone



YURABI FORMATION: flaggy to blocky quartz sandstone and feldspathic sandstone; grey and purple siltstone, shale, dolomitic siltstone, and sandy dolomite



EGAN FORMATION: tillite, arkose, dolomite, limestone, sandstone, siltstone, and shale



d Dolerite dyke
po Andesite to rhyolite porphyry dyke; coarse phenocrysts of K-feldspar, quartz, and plagioclase

c. 1800 Ma

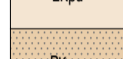


HART DOLERITE: dark grey dolerite

Kimberley Group



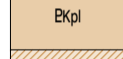
PENTECOST SANDSTONE:
Upper unit: medium- to coarse-grained quartz sandstone and pebbly quartz sandstone



Middle unit: white, fine- to coarse-grained quartz sandstone; purple, fine-grained sandstone, siltstone, and shale



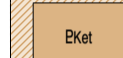
Lower unit: quartz sandstone and siltstone



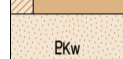
ELGEE SILTSTONE: red-brown and grey siltstone and shale; minor quartz sandstone



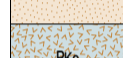
Teronis Member: stromatolitic dolomite, sandy dolomite, oolitic dolomite, shale, micaceous siltstone, and fine-grained sandstone



WARTON SANDSTONE: white to purple, massive to blocky, quartz sandstone; minor feldspathic sandstone



CARSON VOLCANICS: green to black basalt, amygdaloidal basalt, and basaltic volcanoclastic rocks; interbedded quartz sandstone, feldspathic sandstone, and laminated siltstone and mudstone



Pale yellow-brown, laminated to massive, quartz- and felspar-rich sandstone and siltstone



KING LEOPOLD SANDSTONE: white to pale brown, medium- to coarse-grained quartz sandstone and pebbly quartz sandstone

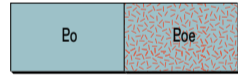


MOOLA BULLA FORMATION: lithic quartz sandstone and granule to pebble conglomerate; minor argillite

c. 1820 Ma



ϵgch MOUNT CHRISTINE GRANITOID: coarsely porphyritic to medium-grained biotite monzogranite
ϵgdi DILLINGER MONZOGANITE: medium- to fine-grained, locally porphyritic, leucocratic biotite monzogranite; minor syenogranite; abundant mafic inclusions adjacent to contacts with gabbro
ϵggy GRIMPY MONZOGANITE: weakly porphyritic, fine-grained biotite monzogranite
ϵgst LOADSTONE MONZOGANITE: weakly porphyritic biotite monzogranite and syenogranite; minor microgranodiorite
ϵgx Granitoid rocks rich in inclusions of angular, rounded and flattened, mafic rock



ϵo Undivided porphyritic to even-grained, medium- to fine-grained gabbro, quartz gabbro, and tonalite; extensively veined by granitoid rocks locally
ϵoe EMULL GABBRO: medium- to fine-grained gabbro, quartz gabbro, and tonalite; extensively veined by the DILLINGER MONZOGANITE, apilite, quartz-feldspar porphyry, and pegmatite



ANGELO MICROGRANITE: altered medium- to fine-grained granophytic microgranite; disseminated malachite locally present

c. 1840 Ma

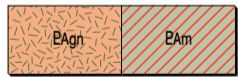


ϵe KOONGIE PARK FORMATION: metamorphosed felsic volcanic and volcanoclastic rocks; minor chert, banded iron-formation, and carbonate
ϵec Metamorphosed chert; banded, and locally iron-rich



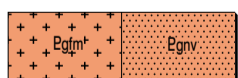
Veins and dykes: p—muscovite-rich pegmatite; g—medium- to fine-grained granitoid dyke; a—apilite dyke

Amburst Metamorphics

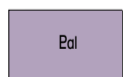


ϵagn Inclusion-rich, biotite-hornblende granodiorite gneiss, and garnet-cordierite-andalusite-sillimanite-biotite monzogranite gneiss; inclusions of metasedimentary and mafic igneous rocks; metamorphosed, possible equivalent of NEVILLE GRANODIORITE
ϵam Medium- to high-grade metasedimentary rocks, and granitoid rocks; quartz-muscovite-biotite-andalusite-garnet-cordierite-K-feldspar-plagioclase granulites and schist; metamorphosed equivalents of MARBOO FORMATION

c. 1860 Ma



ϵgfm GNEWING GRANODIORITE: coarsely porphyritic, biotite-hornblende granodiorite and tonalite; contains mafic inclusions
ϵgnv NEVILLE GRANODIORITE: medium- to fine-grained biotite granodiorite and tonalite; minor monzogranite; metasedimentary rock inclusions are abundant adjacent to contacts with metasedimentary rock



LAMBOO ULTRAMAFICS: partly serpentinized ultramafic and mafic intrusive rocks

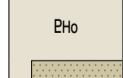
Ticklara Metamorphics



ϵts Metamorphosed interbedded psammite and pelite; minor metamorphosed felsic and mafic volcanoclastic rocks; includes carbonate locally
ϵta Metamorphosed basaltic volcanic and volcanoclastic rocks; minor metadolerite sills, thin interbedded metapelite, and metamorphosed carbonate and chert lenses

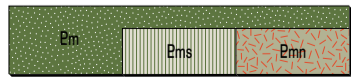
c. 1860 Ma

Halls Creek Group



OLYMPIO FORMATION: very low- to low-grade, thin- to medium-bedded mudstone, siltstone, turbiditic quartz wacke, greywacke, and arkosic sandstone
Metamorphosed thick-bedded, turbiditic quartzitic sandstone, and minor pelite

>1880 Ma



ϵm MARBOO FORMATION: low-grade, turbiditic metasediment; quartz-chlorite-muscovite phyllite; narrow zones of medium- to high-grade quartz-muscovite-biotite-andalusite-cordierite hornfels occur adjacent to granitoid intrusions
ϵms Medium-grade, quartz-muscovite-biotite-sillimanite-andalusite(-cordierite) schist (possibly after hornfels)
ϵmn High-grade, migmatitic quartz-muscovite-biotite-sillimanite-andalusite-cordierite-K-feldspar-plagioclase granulites and gneiss

KIMBERLEY BASIN

LAMBOO COMPLEX

Bow batholith