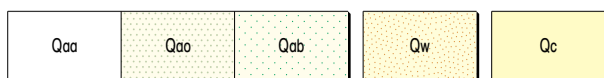


PHANEROZOIC

CAINOZOIC

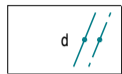
QUATERNARY



Qaa Alluvial sand and gravel in rivers and creeks; clay, silt, and sand in channels on floodplains  
 Qao Overbank deposits; alluvial sand, silt, and clay in floodplains adjacent to main drainage channels  
 Qab Alluvial sand, silt, and clay in floodplains, with gilgai surface in areas of expansive clay  
 Qw Sheetwash deposits — silt, sand, and pebbles in distal outwash fans; no defined drainage  
 Qc Colluvium — sand, silt, and gravel on outwash fans; scree and talus



Czaf Pisolitic limonite deposits, developed along palaeodrainage lines; dissected by recent drainage  
 Czag Alluvial gravel, unrelated to recent drainage; variably consolidated; dissected by recent drainage  
 Czak Alluvial calcrete; massive, nodular, and cavernous limestone; variably silicified and dissected  
 Czc Colluvium — sand, silt, and gravel on outwash fans; scree and talus  
 Czcb Colluvium with gilgai surface in areas of expansive clay, dissected by recent drainage  
 Czrfa Ferruginous caprock over basalt  
 Czrk Residual calcrete; massive, nodular, and cavernous limestone, mainly silicified  
 Czru Siliceous caprock over ultramafic rock



Dolerite dyke; interpreted from aeromagnetic data where dashed

c. 2595 Ma<sup>1</sup>

Hammersley Group



**MARRA MAMBA IRON FORMATION:** chert, banded iron-formation, mudstone, and siltstone

c. 2686-2629 Ma<sup>2,3</sup>



**JEERINAH FORMATION**  
Carbonaceous mudstone and siltstone, chert, and local dolomite beds



Dolomite and dolomitic shale



Variiegated, light-coloured mudstone and siltstone



**Woodiana Member:** quartz-rich sandstone, chert, chert breccia, and mudstone; locally includes volcanogenic lithic sandstone

c. 2717 Ma<sup>4</sup>



**MADDINA FORMATION:** massive, vesicular, and amygdaloidal basalt and basaltic andesite



Basaltic volcanoclastic breccia



**Kuruna Member:** basaltic to andesitic volcanoclastic sandstone, mudstone, chert, and dolomite

c. 2719 Ma<sup>5</sup>

Mount Bruce Supergroup

Fortescue Group



**TUMBIANA FORMATION:** mafic to felsic volcanoclastic sandstone, tuff, and fine- to medium-grained clastic sedimentary rock; minor basalt, chert, dolomite, and limestone



Volcanoclastic sandstone, tuff, and fine- to medium-grained clastic sedimentary rock



Volcanoclastic sandstone, tuff, and clastic sedimentary rock with locally abundant basalt sheets and dykes with peperitic margins



Volcanoclastic sandstone, carbonate-rich tuff, and volcanoclastic mudstone, and siltstone; locally abundant layers of dark grey siliceous stromatolitic dolomite and limestone



**Meentheena Carbonate Member:** dark grey stromatolitic dolomite and limestone, carbonate-rich tuff, mudstone, and siltstone



**KYLENA FORMATION:** massive and amygdaloidal basalt, basaltic andesite, and dacite; local high-Mg basalt and rhyolite



Massive and amygdaloidal basalt, and mafic volcanoclastic rocks with sericite and pyrophyllite (hydrothermal) alteration along epithermal veins and bedding planes



Basaltic andesite with minor basalt and andesite

c. 2760 Ma<sup>26</sup>



**HARDEY FORMATION:** sandstone, conglomerate, siltstone, shale, and felsic tuff

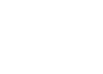
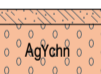
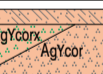
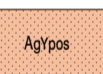


Felsic tuff, tuffaceous sandstone, siltstone, and shale; interbedded; locally conglomerate

c. 2770 Ma<sup>27</sup>



**MOUNT ROE BASALT:** massive, vesicular, and glomeroporphyritic basalt



**YULE GRANITOID COMPLEX**

AgY Granitoid rock, unassigned; age uncertain; typically strongly weathered; metamorphosed

**POWDAR MONZOGRANITE**

AgYpop Porphyritic monzogranite

AgYpos Seriate-textured monzogranite

**MUNGAROONA GRANODIORITE**

AgYmux Hornblende(-biotite)-bearing granodiorite and monzogranite with greenstone and granitoid gneiss rafts and xenoliths

AgYt Hornblende-biotite tonalite

AgYco **COCKERAGA LEUCOGRANITE:** leucocratic biotite(-hornblende) tonalite and granodiorite and subordinate monzogranite; locally abundant pegmatite, and greenstone and granitoid gneiss xenoliths; weakly metamorphosed

AgYcor Leucocratic biotite(-hornblende) tonalite and granodiorite and subordinate monzogranite with well-developed schlieric banding; locally abundant granitoid gneiss xenoliths

AgYcorx Leucocratic biotite(-hornblende) tonalite and granodiorite and subordinate monzogranite with well-developed schlieric banding and locally abundant greenstone and granitoid gneiss xenoliths

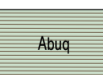
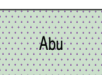
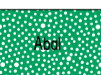
**CHEEARA MONZOGRANITE**

AgYchn Gneissic monzogranite to granodiorite



Asq Quartz-muscovite schist and quartzite

Asqn Quartzite with local banded quartz and quartz-feldspar-amphibole paragneiss



Aba Amphibolite; fine to medium grained; massive to strongly foliated

Abag Medium-grained amphibolite with abundant layers, veins, and irregular patches of tonalite; massive to strongly foliated

Abal Leucocratic amphibolite; medium grained; massive to strongly foliated

Abas Amphibolite and actinolitic schist

Abu Interleaved mafic and ultramafic rocks; metamorphosed

Abuq Interleaved mafic and ultramafic rocks, quartz-muscovite schist, and quartzite



Au Ultramafic rock, undivided; metamorphosed

Auk Metamorphosed peridotitic komatiite; olivine spinifex texture; serpentine-talc-tremolite rock

Aur Tremolite-rich schist; after ultramafic rock

ARCHAEOAN

Pilbara Supergroup (no stratigraphic subdivision)

HAMERSLEY BASIN

PILBARA CRATON