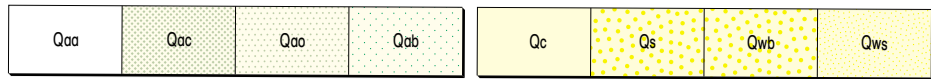


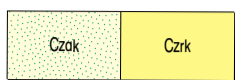
PHANEROZOIC

CAINOZOIC

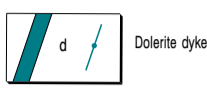
QUATERNARY



- Qaa Alluvium—sand and gravel in rivers and creeks; clay, silt, and sand in channels and on adjacent floodplains
- Qac Claypan deposits on floodplains
- Qao Alluvial sand, silt, and clay in floodplains
- Qab Alluvial sand, silt, and clay in floodplains, with gilgai surface in areas of expansive clay
- Qc Colluvium—sand, silt, and gravel in outwash fans and scree
- Qs Eolian sand—red-yellow, wind blown sand; locally forms ridges
- Qwb Sheetwash—sand, silt, and clay in distal outwash fans, with gilgai surface in areas of expansive clay
- Qws Sheetwash—quartzofeldspathic sand derived from sandstone and siltstone



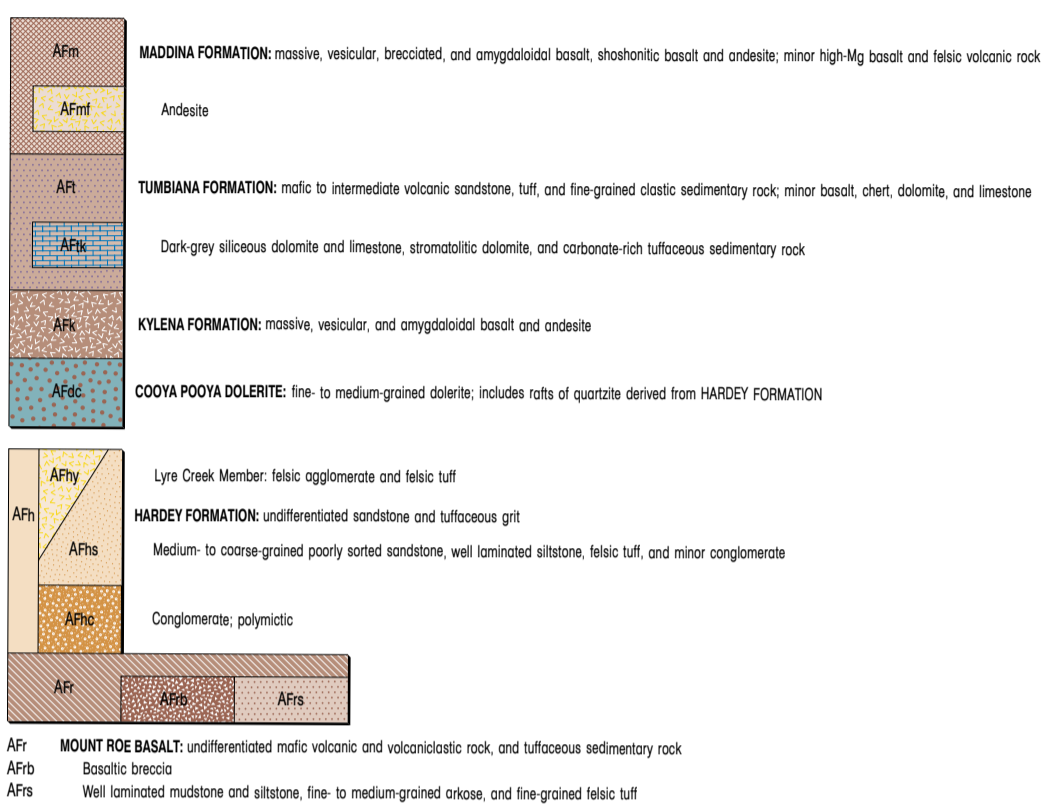
- Czak Calcrete—massive, nodular, and cavernous limestone, variably silicified; alluvial origin
- Czrk Calcrete—massive, nodular, and cavernous limestone, variably silicified; residual origin



c.2717 Ma

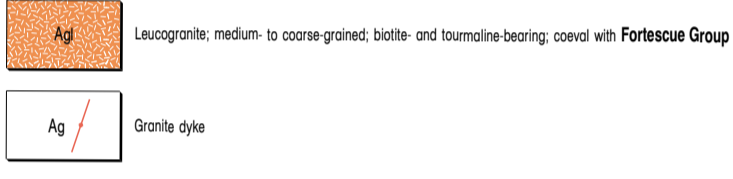
Mount Bruce Supergroup

Fortescue Group

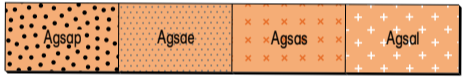


- AFr **MOUNT ROE BASALT:** undifferentiated mafic volcanic and volcanoclastic rock, and tuffaceous sedimentary rock
- AFrb Basaltic breccia
- AFrs Well laminated mudstone and siltstone, fine- to medium-grained arkose, and fine-grained felsic tuff

c.2765 Ma



Pilbara Supergroup



- SATIRIST GRANITE:** metamorphosed biotite(-hornblende) granite
- Agsap Porphyritic granite
- Agsae Equigranular granite
- Agsas Seriate granite
- Agsal Leucogranite

c.2930 Ma

c.2940 Ma



- Agpe **PEAWAH GRANODIORITE:** metamorphosed hornblende-biotite granodiorite and tonalite; mesocratic
- Agpep Porphyritic phase
- Agg Hornblende-biotite granodiorite; medium- to coarse-grained; metamorphosed

Contact metamorphic rock; abundant porphyroblasts of andalusite, cordierite, and/or garnet; related to intrusions of SATIRIST GRANITE and PEAWAH GRANODIORITE

c.2950 Ma

ARCHEAN

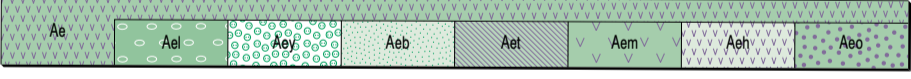
Millindinna Intrusion



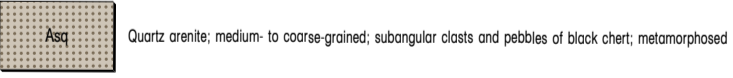
- AaMo Gabbro; metamorphosed
- AaMoe Melanogabbro and pyroxenite; metamorphosed
- AaMoep Melanogabbro, plagioclase phenocrysts; metamorphosed
- AaMu Ultramafic schist, tremolite- and serpentine-rich schist; serpentinite after peridotite; includes minor metachert, metasedimentary rock, and serpentinized high-Mg basalt
- AaMum Tremolite- and serpentine-rich schist mixed with locally abundant metachert and metasedimentary rock
- AaMut Talc-carbonate schist; after peridotite

> 2970 Ma

Pilbara Supergroup



- Ae LOUDEN VOLCANICS:** undifferentiated metamorphosed basalt and high-Mg basalt; contemporaneous with part of the De Grey Group
- Ael Pillowed basalt; local spinifex-textured pyroxene; metamorphosed
- Aey Vesicular basalt; local abundant aphyric basalt and high-Mg basalt; metamorphosed
- Aeb Aphyric basalt; metamorphosed
- Aet Serpentine-chlorite schist and sheared metamorphosed high-Mg basalt
- Aem High-Mg basalt; spinifex-textured pyroxene; metamorphosed
- Aeh High-Mg basalt; acicular textures; metamorphosed
- Aeo Peridotite; olivine cumulate texture; metamorphosed

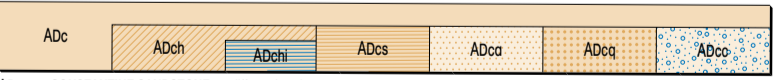


< 3000 Ma

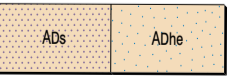
> 2950 Ma



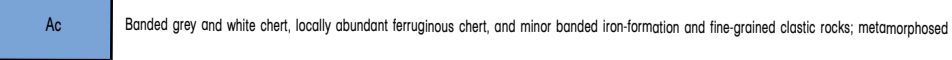
- Adm **MALLINA FORMATION:** interbedded shale, siltstone, and medium- to fine-grained wacke; minor layers of chert; metamorphosed
- ADmf Shale, siltstone, and sandstone; includes layers of feldspar(-hornblende) porphyry; metamorphosed



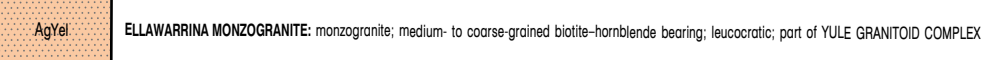
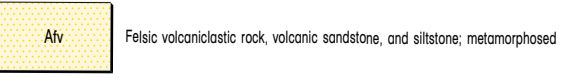
- ADc **CONSTANTINE SANDSTONE:** undifferentiated coarse- to fine-grained clastic rocks; metamorphosed (Simplified Geology only)
- ADch Shale, commonly ferruginized and/or silicified, lesser interbeds of poorly sorted arkose; minor banded iron-formation; metamorphosed
- ADchi Ferruginized shale and banded iron-formation; metamorphosed
- ADcs Poorly sorted subarkose and wacke, lesser interbeds of shale; metamorphosed
- ADca Poorly sorted litharenite; well developed graded units; abundant chert clasts; metamorphosed
- ADcq Poorly sorted subarkose; rare graded beds; metamorphosed
- ADcc Conglomerate; rounded to subangular chert clasts; metamorphosed



- ADs Metamorphosed fine-grained clastic sedimentary rock and abundant serpentine- and tremolite-rich schist
- ADhe Metamorphosed ferruginous shale; locally abundant chert and mafic schist, and minor quartz-mica schist and metamorphosed banded iron-formation



c.3015 Ma



- ELLAWARRINA MONZOGRANITE:** monzogranite; medium- to coarse-grained biotite-hornblende bearing; leucocratic; part of YULE GRANITOID COMPLEX

Hammersley Basin

PILBARA CRATON