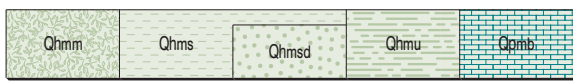


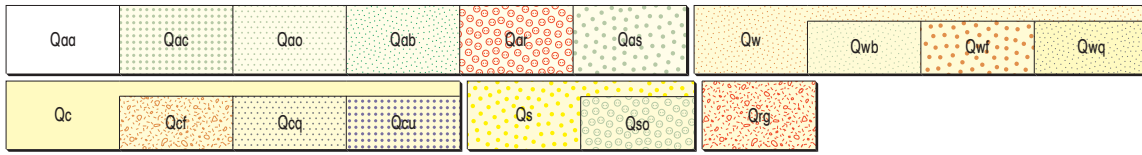
PHANEROZOIC

CAINOZOIC

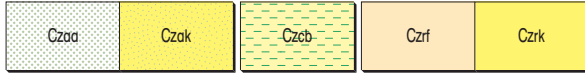
QUATERNARY



Qhmm Marine mud and silt; intertidal with mangroves
 Qhms Shelly sand in coastal dunes and old beach deposits; contains *Andara granosa*
 Qhmsd Shelly sand in coastal dunes
 Qhmu Silt and mud in supratidal to intertidal flats and lagoons
 Qpmb Coastal limestone; lime-cemented shelly sand, dune sand, and beach conglomerate



Qaa Alluvial sand and gravel in rivers and creeks; clay, silt, and sand in channels on floodplains
 Qac Clay and silt in coastal lacustrine deposits
 Qao 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
 Qar Alluvial sand and silt in floodplains, dominated by quartzofeldspathic material
 Qas Coastal sand deposits of mixed alluvial and eolian origin
 Qw Sheetwash deposits — silt, sand, and pebbles in distal outwash fans
 Qwb Sheetwash sand, silt, and clay in distal outwash fans, with gilgai surface in areas of expansive clay
 Qwf Sheetwash sand, silt, and clay in distal outwash fans, dominated by ferruginous material
 Qwq Sheetwash gravel, sand, and silt dominated by quartz-rich debris; granitoid rock, chert, and vein-quartz debris
 Qc Colluvium — sand, silt, and gravel in scree and outwash fans
 Qcf Colluvial sand, silt, and gravel dominated by ferruginous material
 Qcq Quartz rubble and debris adjacent to quartz veins
 Qcu Colluvial sand and silt with ultramafic rock debris
 Qs Eolian sand — red-yellow wind-blown sand; local sand ridges
 Qso Eolian deposits derived from floodplain material, with longitudinal dunes
 Qrg Quartzofeldspathic eluvial sand, with quartz and rock fragments; overlying and derived from granitoid rock



Czaa Consolidated alluvial sand, silt, and clay; dissected by present-day drainage
 Czak Alluvial calcrete; massive, nodular, and cavernous limestone; variably silicified; dissected by present-day drainage
 Czcb Colluvium, dissected by recent drainage, with gilgai surface in areas of expansive clay
 Czrf Ferricrete; includes nodular variety
 Czrk Residual calcrete



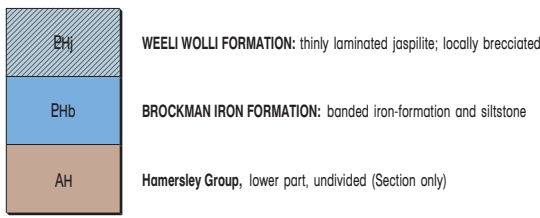
d Dolerite and gabbro dykes; interpreted from aeromagnetic data where dashed
 o Gabbroic dyke; intrudes Fortescue Group in Cape Preston area
 q Quartz vein

Pinjarra Orogeny? (1100–1000 Ma)

PROTEROZOIC

c. 2490 Ma ¹

Hammersley Group



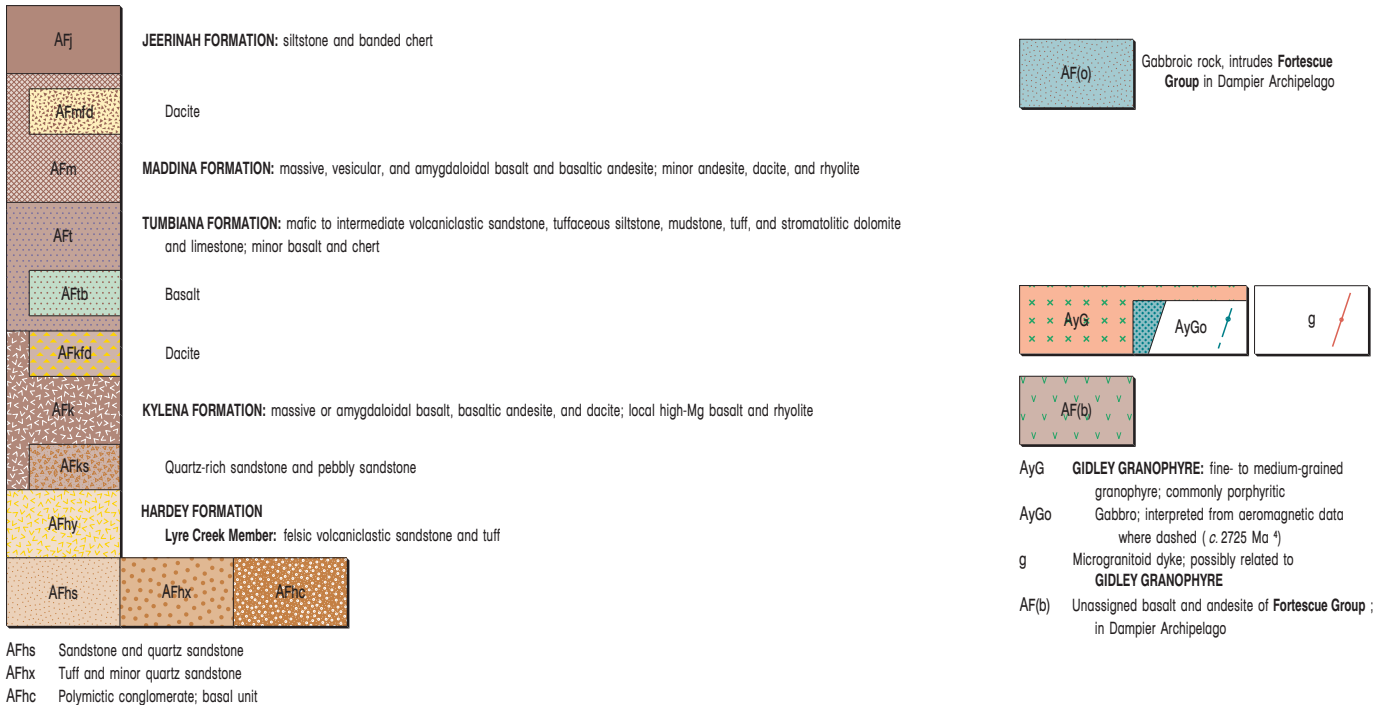
WEEU WOLLI FORMATION: thinly laminated jaspillite; locally brecciated
BROCKMAN IRON FORMATION: banded iron-formation and siltstone
 Hammersley Group, lower part, undivided (Section only)

c. 2680 Ma ²

c. 2717 Ma ³

Mount Bruce Supergroup

Fortescue Group



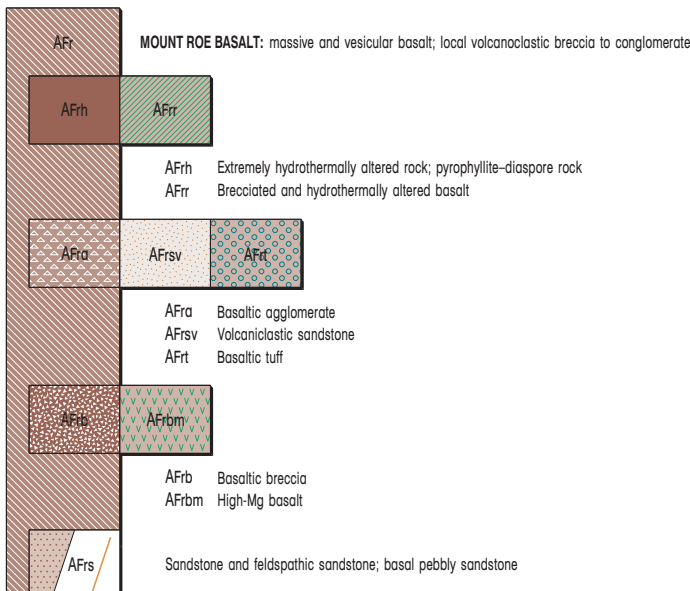
JEERINAH FORMATION: siltstone and banded chert
 Dacite
MADDINA FORMATION: massive, vesicular, and amygdaloidal basalt and basaltic andesite; minor andesite, dacite, and rhyolite
TUMBIANA FORMATION: mafic to intermediate volcanoclastic sandstone, tuffaceous siltstone, mudstone, tuff, and stromatolitic dolomite and limestone; minor basalt and chert
 Basalt
 Dacite
KYLENA FORMATION: massive or amygdaloidal basalt, basaltic andesite, and dacite; local high-Mg basalt and rhyolite
 Quartz-rich sandstone and pebbly sandstone
HARDEY FORMATION
 Lyre Creek Member: felsic volcanoclastic sandstone and tuff
 Sandstone and quartz sandstone
 Tuff and minor quartz sandstone
 Polymictic conglomerate; basal unit

AF(o) Gabbroic rock, intrudes Fortescue Group in Dampier Archipelago

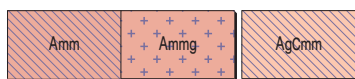
AyG **GIDLEY GRANOPHYRE:** fine- to medium-grained granophyre; commonly porphyritic
 AyGo Gabbro; interpreted from aeromagnetic data where dashed (c. 2725 Ma ⁴)
 g Microgranitoid dyke; possibly related to GIDLEY GRANOPHYRE

AF(b) Unassigned basalt and andesite of Fortescue Group; in Dampier Archipelago

c. 2770 Ma ^{2 5 7}

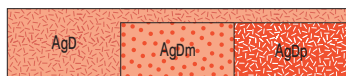


MOUNT ROE BASALT: massive and vesicular basalt; local volcanoclastic breccia to conglomerate
 Extremely hydrothermally altered rock; pyrophyllite-diospore rock
 Brecciated and hydrothermally altered basalt
 Basaltic agglomerate
 Volcanoclastic sandstone
 Basaltic tuff
 Basaltic breccia
 High-Mg basalt
 Sandstone and feldspathic sandstone; basal pebbly sandstone



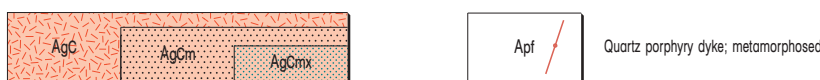
Mylonite; in Shall Shear Zone (Section only)
 Mylonitized granitoid rock
 Mylonitic granitoid rock, predominantly monzogranite, of **CHERRATTA GRANITOID COMPLEX**

c. 2990 Ma ⁸



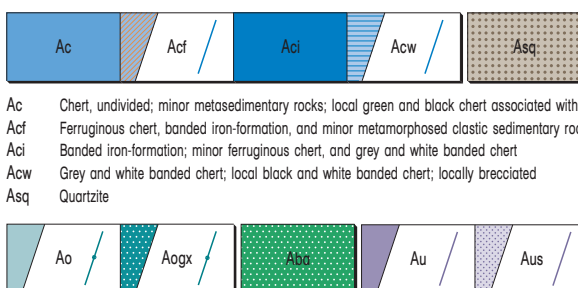
DAMPIER GRANITOID COMPLEX
 Undivided granitoid rock; monzogranite to granodiorite, local tonalite; locally porphyritic, locally well foliated; metamorphosed
 Monzogranite to granodiorite; metamorphosed
 Porphyritic granitoid rock; metamorphosed

3240–2940 Ma ^{3 8 9 10}



CHERRATTA GRANITOID COMPLEX
 Undivided granitoid rock; metamorphosed (Section only)
 Monzogranite to granodiorite; locally foliated
 Foliated granitoid rock, with amphibolite

Pilbara Supergroup (no stratigraphic subdivision)



Chert, undivided; minor metasedimentary rocks; local green and black chert associated with gabbroic units
 Ferruginous chert, banded iron-formation, and minor metamorphosed clastic sedimentary rocks; locally brecciated
 Banded iron-formation; minor ferruginous chert, and grey and white banded chert
 Grey and white banded chert; local black and white banded chert; locally brecciated
 Quartzite
 Gabbro; locally metamorphosed
 Pyroxenitic gabbro; metamorphosed
 Amphibolite and strongly foliated metabasalt
 Ultramafic rock, undivided; metamorphosed; highly weathered; local interbedded green chert
 Serpentinite; replacing peridotite

Hammersley Basin

PILBARA CRATON