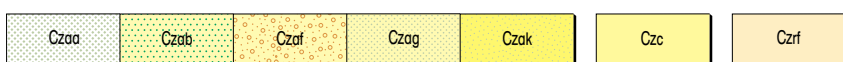




Qhmm Marine mud and silt; intertidal with mangroves
 Qhms Shelly sand in coastal dunes and old beach deposits; contains Anadara granosa
 Qhmu Silt and mud in supratidal to intertidal flats and lagoons
 Qpmb Coastal limestone – lime-cemented shelly sand, dune sand, and beach conglomerate



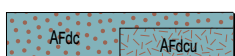
Qaa Alluvial sand and gravel in rivers and creeks; clay, silt, and sand in channels on floodplains
 Qal Alluvial sand and gravel in levees and sandbanks associated with deltas
 Qac Clay and silt in claypan and coastal lacustrine deposits
 Qao Overbank deposits; alluvial sand, silt, and clay on floodplains adjacent to main drainage channels
 Qaac Alluvial sand, silt, and clay; mixed floodplains deposits (Qao) characterized by numerous small claypans
 Qab Alluvial sand, silt, and clay in floodplains, with gilgai surface in areas of expansive clay
 Qas Coastal sand deposits of mixed alluvial and eolian origin
 Qw Low-gradient sheetwash deposits – silt, sand, and pebbles in distal outwash fans; no defined drainage
 Qwb Sand, silt, and clay in distal outwash fans, with gilgai surface in areas of expansive clay
 Qc Colluvium – sand, silt, and gravel in outwash fans; scree, talus; proximal mass-wasting deposits
 Qcq Quartz debris adjacent to large quartz-veins
 Qrg Quartzfeldspathic eluvial sand, with quartz and rock fragments; overlying and derived from granitoid rock
 Qs Eolian sand – red-yellow, wind-blown sand; local sand ridges



Czaa Consolidated alluvial sand, silt, and clay; dissected by present-day drainage
 Czab Variably consolidated alluvial sand, silt, and clay, with gilgai surface, in abandoned alluvial channels; locally dissected by present-day drainage
 Czaf Pisolitic limonite deposits, developed along palaeodrainage lines; dissected by present-day drainage
 Czag Alluvial gravel deposits; unrelated to recent drainage; dissected
 Czak Dissected valley calcrete; massive, nodular, and cavernous limestone; variably silicified
 Czc Colluvium – dissected consolidated clay, silt, and sand, and gravel deposits; derived from adjacent rock outcrop
 Czrf Ferricrete; includes ferruginous duricrust and pisolitic ironstone; residual origin; dissected by present-day drainage



d Dolerite dyke, interpreted beneath regolith from aeromagnetic data where dashed
 q Quartz vein
 g Granite vein
 p Pegmatite
 fb Fault breccia along or adjacent to faults; silicified



AFdc **COOYA POOYA DOLERITE:** fine- to medium-grained dolerite; includes ultramafic layers
 AFdcu Ultramafic rock; fine-grained, silicified pyroxene-rich and commonly olivine-bearing rock with quartz xenocrysts

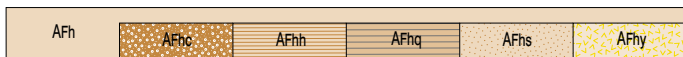


Agday Granophyric quartz diorite

c. 2760 Ma

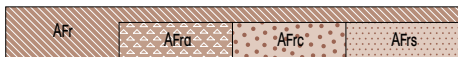
Mount Bruce Supergroup

Fortescue Group

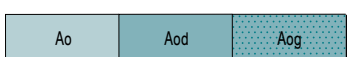


AFh **HARDEY FORMATION:** sandstone, conglomerate, siltstone, shale, and tuff (Section only)
 AFhc Polymictic conglomerate
 AFhh Shale and siltstone
 AFhq Quartzite; as rafts within COOYA POOYA DOLERITE
 AFhs Medium- to coarse-grained poorly sorted sandstone, siltstone, and minor shale and conglomerate; local felsic tuff
 AFhy Lyre Creek Member: basaltic to intermediate tuff and lapilli tuff; minor tuffaceous sandstone and conglomerate

c. 2770 Ma



AFr **MOUNT ROE BASALT:** massive, vesicular, and glomeroporphyritic basalt
 AFra Basaltic agglomerate
 AFrc Polymictic conglomerate and sandstone
 AFrs Sandstone and conglomerate; minor shale



Ao Gabbro and dolerite; metamorphosed
 Aod Dolerite; metamorphosed
 Aog Gabbro; metamorphosed



Amm Mylonite and mylonitic gneiss; derived by extreme shearing of granitoid, gneiss, and a wide range of supracrustal rock types; chiefly in Sholl Shear Zone
 AaSs Plagioclase-hypersthene gneiss; derived by shearing and metamorphism of Sherlock Intrusion
 AgHn Feldspar-quartz-diopside gneiss; derived by partial mylonitization of monzogranite of **HARDING GRANITOID COMPLEX**



HARDING GRANITOID COMPLEX
 AgHd Pegmatitic granodiorite and diorite of **HARDING GRANITOID COMPLEX**; intrudes Andover Intrusion; metamorphosed
 AgHu Pegmatitic muscovite-bearing granitoid; intrudes Andover Intrusion; probable late stage component of **HARDING GRANITOID COMPLEX**



Sherlock Intrusion
 AaSo Gabbro; metamorphosed
 AaSob Gabbro and dolerite containing angular blocks of basalt; metamorphosed
 AaSuo Plagioclase-bearing olivine clinopyroxenite and olivine gabbro; cumulate texture; metamorphosed
 AASy Granophyre; weakly metamorphosed



Opaline Well Intrusion
 AaOb Metabasalt, vesicular; local acicular pyroxene
 AaOo Metagabbro
 AaOd Metamorphosed dolerite and microgabbro
 AaOus Serpentinite



Andover Intrusion
 AaAo Gabbro and minor dolerite; local norite and anorthosite; metamorphosed
 AaAob Gabbro and dolerite containing angular blocks of basalt; metamorphosed
 AaAl Leucogabbro; metamorphosed
 AaAd Dolerite and microgabbro; metamorphosed
 AaAp Peridotite; partly serpentinized; metamorphosed
 AaAx Pyroxenite; metamorphosed
 AaAus Serpentinite; after peridotite
 AaAy Granophyre and granophyric fine-grained monzogranite



HARDING GRANITOID COMPLEX
 AgHm Monzogranite and granodiorite; weakly foliated to banded
 AgHmh Hornblende-, diopside-, and biotite-rich monzogranite; foliated
 AgHmx Monzogranite and granodiorite containing greenstone enclaves



AKALRAH RHYOLITE: porphyritic and flow-banded rhyolite and dacite; metamorphosed



LOUDEN VOLCANICS
 Aeh High-Mg basalt; acicular textures; minor komatiite, characterized by olivine spinifex texture; metamorphosed
 Ael Pillowed basalt; locally pyroxene spinifex textured; metamorphosed
 Aes Sandstone, tuffaceous siltstone and shale, and calcite-cemented volcanoclastic sandstone; metamorphosed
 Aey Vesicular basalt; local abundant aphyric basalt and pyroxene spinifex textured basalt; metamorphosed



MONS CUPRI VOLCANICS
 ACt Felsic volcanic and volcanoclastic rocks, tuffaceous; rhyolite and dacite; metamorphosed
 ACfw Grey-white banded chert; silicified tuffaceous siltstone and shale; metamorphosed



WARAMBIE BASALT: vesicular basalt, basaltic tuff, sandstone, and local polymictic conglomerate; metamorphosed
 ACw Pelitic schist; minor chert and metabasalt
 ACwh Sandstone, conglomerate, and semipelitic sedimentary rocks; metamorphosed
 ACws Basaltic tuff and vesicular basalt; metamorphosed
 ACwt Polymictic mafic conglomerate with fragmental matrix; metamorphosed
 ACwx Basalt, vesicular and commonly pillowed; locally glomeroporphyritic; metamorphosed



Apf Quartz-feldspar porphyry, rhyolite, and dacite; chiefly intrusive; metamorphosed

c. 3270–3260 Ma



Agg Granodiorite, local compositional banding; foliated
 Agm Monzogranite and granodiorite; foliated
 Agka **KARRATHA GRANODIORITE:** weakly foliated granodiorite and tonalite (Section only)



Ac Chert, undivided
 Acb Black chert
 Acf Ferruginous chert, banded iron-formation, and metamorphosed intercalated fine-grained clastic sedimentary rocks
 Aci Banded iron-formation; minor ferruginous chert
 Acj Jaspillite
 Acw Grey-white banded chert, locally associated with quartzite
 Acx Brecciated chert and totally silicified mafic cataclastic rocks



As Sedimentary rocks, undivided; metamorphosed
 Asc Metaconglomerate
 Asf Felsic volcanoclastic rock; metamorphosed
 Asi Ferruginous clastic sedimentary rocks, dominantly pelitic; includes minor chert beds; metamorphosed
 Asq Quartzite
 Ass Schistose metasediments and metasilstone
 Ast Sandstone; minor conglomerate and siltstone; metamorphosed



Af Felsic volcanic rock, undivided; chiefly dacite; metamorphosed
 Afa Felsic agglomerate; metamorphosed
 Afr Rhyolite; metamorphosed
 Aft Rhyolite and dacite tuff; metamorphosed



Ab Basaltic rock, undivided; generally metamorphosed to greenschist facies
 Aba Strongly foliated basalt; metamorphosed to amphibolite facies
 Abgp Foliated and sheared metabasalt with sheared veins and sheets of microgranite and pegmatite; metamorphosed to amphibolite facies
 Abm High-Mg basalt; metamorphosed
 Abs Mafic schist
 Abt Basaltic tuff, well bedded; metamorphosed



Au Ultramafic rock, undivided; includes schist; local silicification
 Aub Intercalated ultramafic and mafic schist with thin chert units (silicified interflow sedimentary rocks)
 Auk Komatiite; characterized by olivine spinifex textures; metamorphosed
 Aur Tremolite-chlorite schist
 Aus Serpentinite; replacing peridotite
 Aut Talc-chlorite schist
 Auv Ultramafic lava; fine-grained peridotite to high-Mg basalt; metamorphosed
 Aux Pyroxenite, commonly schistose; metamorphosed

Pilbara Supergroup

Pilbara Supergroup (no stratigraphic subdivision)

Whim Creek Group

Pilbara Supergroup (no stratigraphic subdivision)

Hammersley Basin

PILBARA CRATON