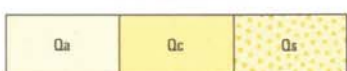


REFERENCE



Qa Alluvium  
Qc Colluvium – superficial, unconsolidated sand and gravel  
Qs Wind-blown sand



Tc Colluvium – partly consolidated valley-fill deposits  
To Calcrete – limestone and calcareous gravels with opaline silica  
Tp **ROBE PISOLITE** : pisolitic limonite deposits with fossil wood fragments. Occurs along old river channels. Contains iron ore.  
Ts Silcrete/calcrete capping developed on dolomite of BANGEMALL GROUP



Kn Conglomerate, arenite and siltstone with some fissile mudstone.  
Includes NANUTARRA FORMATION and YARRALLOOLA CONGLOMERATE

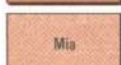


q Quartz veins

d Dolerite, intrudes rocks of all ages up to and including BANGEMALL GROUP



Mk **KIANGI CREEK FORMATION** : arenite (some silicified)



Mia **IRREGULLY FORMATION** :  
Revels Corner Sandstone Member : thin-bedded arenite (some silicified)



Mif **Warrada Dolomite Member** : dolomite; lower part massive with some sandy dolomite and calcarenite; upper part well-bedded with thin silicified bands



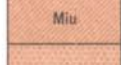
Mie **Yeelinge Member** : mudstone and shale with some arenite and thin dolomite



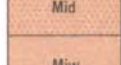
Mio **Weewoddie Dolomite Member** : grey-blue, fine-grained dolomite and shale. Contains manganese nodules



Mih **Chubilyer Member** : mudstone and shale with thin arenite and rare dolomite



Miu **Wannery Member** : mudstone and shale. Probable lateral equivalent of Yeelinge, Weewoddie and Chubilyer Members



Mid **Goragoora Sandstone Member** : thin-bedded, cross-laminated brown arenite (some silicified). Locally pyritic



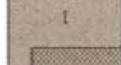
Miw **Wongida Dolomite Member** : well-bedded, white, cream, mauve and grey dolomite. Some sandy dolomite, dolomitic sandstone and chert. Contains abundant stromatolites



Miv Locally developed sedimentary breccia within Miw : includes fragments of silicified dolomite and cross-stratified sandstone



Mt **Yilgatherra Member** : arenite (some silicified) and quartz-pebble conglomerate. Frequently cemented by iron oxides



I **MOUNT MINNIE GROUP** : undifferentiated; arenite (some silicified), shale and rare jaspilite



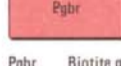
Ia **WARRAMBO SANDSTONE** : thin-bedded arenite (some silicified) with some shale



Ib **WABCO SHALE** : brown shale with interbedded arenite



Ic **BRODAGE SANDSTONE** : arenite (some silicified), and conglomerate. Poorly bedded, some cross-lamination



Pghr Biotite granodiorite, mainly coarse-grained. Contains mafic xenoliths (1684 Ma, Rb–Sr)



Pgmb Muscovite-biotite (-tourmaline) adamellite and granite; most phases are homogeneous, but some are inhomogeneous. Contains xenoliths of schist



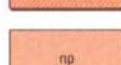
Pglm Porphyritic, muscovite-biotite granite



Pgs Early stage granitoid : gneissic, biotite (-hornblende) granodiorite



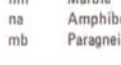
x **MUDONG METAMORPHICS** : undifferentiated; schist, amphibolite, marble, skarn, quartzite and metapelites



xq Quartzite unit within MUDONG METAMORPHICS



np Medium-grade microgneiss and schist. Probable higher grade equivalent of Im



nm Marble



na Amphibolite



mb Paragneiss migmatite



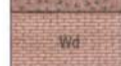
im Low to medium-grade schist, fine to coarse-grained



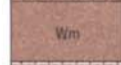
cm Contact metamorphic gneiss and schist, developed in proximity to eastern margin of Boolaloo Granodiorite



Wa **ASHBURTON FORMATION** : wacke, mudstone, ferruginous mudstone, arenite and lithic conglomerate



Wai Ferruginous mudstone and banded iron-formation (in some places basal to Wa)



Wj **JUNE HILL VOLCANICS** : predominantly intermediate and mafic lava, pillow breccia, fine to coarse pyroclastics and minor dolomite, sandstone and mudstone



Wd **DUCK CREEK DOLOMITE** : thin to thick-bedded locally stromatolitic dolomite with minor chert and mudstone



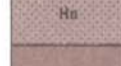
Wm **MOUNT McGRATH FORMATION** : mudstone, arenite (some silicified), lithic conglomerate, dolomite and dolomitic mudstone



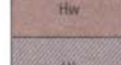
Ww **WOOLLY DOLOMITE** : thin to thick-bedded locally stromatolitic dolomite, mudstone and minor chert. Minor conglomerate and pebbly arenite at base



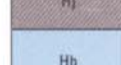
Wb **CHEELA SPRINGS BASALT** : vesicular and amygdaloidal basalt with minor tuff, tuffaceous mudstone and chert



Wc **BEASLEY RIVER QUARTZITE** : conglomerate, fine to coarse arenite (some silicified), mudstone and dolomite; locally includes basal. **Three Corner Conglomerate Member** : clast and matrix supported lithic conglomerate with minor arenite and mudstone



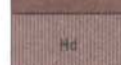
Tk Lithic arenite and sublitharenite (some silicified), wacke, mudstone, pebble-cobble mudstone, carbonate and minor basalt. Intruded by dolerite sills



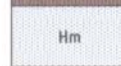
Ho **BOOLGEEDA IRON FORMATION** : fine-grained, finely laminated, dark grey-brown to black, flaggy iron-formation. Minor chert



Hw **WOONGARRA VOLCANICS** : rhyolitic and dacitic volcanics, commonly porphyritic, some tuff. Some phases are intrusive (2470 ± 30 Ma, U–Pb; 2370 Ma, Rb–Sr)



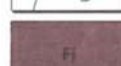
Hl **WEEILI WOLLI FORMATION** : banded iron-formation and some shale. Intruded by dolerite sills



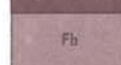
Hb **BROCKMAN IRON FORMATION** : banded iron-formation, chert and shale. Contains hematite (2490 ± 20 Ma, U – Pb)



Ha **MOUNT McCRAE SHALE** : shale, siltstone, dolomitic mudstone with banded iron-formation and chert; and **MOUNT SYLVIA FORMATION** : three thin banded iron-formation units and dolomitic mudstone



Hd **WITTENCOOM DOLOMITE** : grey, thin-bedded dolomite with some shale, chert and iron-formation



Hm **MARRA MAMBA IRON FORMATION** : chert and banded iron-formation with some shale. Contains crocidolite and hematite



Fd Concordant dolerite sills folded with FORTESCUE GROUP, and feeder dyke in basement



Fi **JEERINAH FORMATION** : mudstone, shale, chert, banded iron-formation and basalt. Intruded by abundant dolerite sills



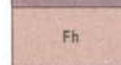
Fb **MOUNT JOHE VOLCANICS** : undifferentiated; mainly pillow basalt with some pyroclastics. Commonly schistose in the south-western half of the WYLOO DOME



Fbt Felsic volcanics : lapilli tuff and quartz-feldspar porphyry



Fbu Medium to coarse-grained arenite



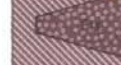
Fbu **Bunjinah Pillow Lava Member** : basalt with some well developed pillows



Fbp **Pyradie Pyroclastic Member** : agglomerate and tuff. Intruded by abundant dolerite sills



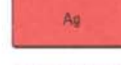
Fbo **Boongal Pillow Lava Member** : basalt with some pillow lava development



Fh **HARDEY SANDSTONE** : feldspathic arenite, lithic arenite and quartz arenite with minor mudstone and wacke (2707 ± 151 Ma, Rb – Sr)



Fr **MOUNT ROE BASALT** : vesicular basalt and basaltic agglomerate. Commonly schistose in the south-western half of the WYLOO DOME



Ffr Felsic volcanics: layered ashfall tuff, dacitic accretionary lapilli tuff and quartz-feldspar porphyry



Fc Cobble mudstone and conglomerate (containing granite clasts), arenite and mudstone



Ag **METAWANDY GRANITE** : sericitized adamellite, cataclastically deformed in part, with locally abundant mafic xenoliths



Ag Mafic volcanics, intruded by dolerite

CAINOZOIC  
QUATERNARY  
TERTIARY  
CRETACEOUS

c. 1100 Ma  
Bangemall Group (M)

c. 1700 Ma  
Mount Minnie Group (I)

c. 1700 Ma  
Morrissey Metamorphic Suite

c. 2000 Ma  
Wyloo Group (W)

c. 2500 Ma  
Turee Creek Group  
Hammersley Group (H)

c. 2700 Ma  
Mount Bruce Supergroup  
Fortescue Group (F)

Pilbara Supergroup

Probable metamorphosed Ashburton Formation  
Metamorphosed Ashburton Formation

?PILBARA CRATON