

REFERENCE



Qa Alluvium — unconsolidated silt, sand and gravel
 Ql Lacustrine deposits — clay, silt; saline in part
 Qd Mixed lacustrine and eolian deposits — clay, silt, sand
 Qs Eolian sand — in sheets and dunes



Qb Eluvium — gilgai; swelling clay soils
 Qw Alluvium and colluvium — red-brown sandy and clayey soil
 Qc Colluvium — unconsolidated quartz and rock fragments in soil
 Qe Colluvium and eluvium — clay hardpan



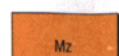
Czc Colluvium — partly consolidated valley-fill deposits
 Czb Silcrete — siliceous duricrust
 Czl Laterite — massive and pisolitic ferruginous duricrust
 Czl Laterite, includes surficial hematite-goethite deposits on banded iron-formation; forms Hamersley Surface
 Czp **ROBE PISOLITE** — pisolitic limonite deposits developed along old river channels
 Czk Calcrete — sheet carbonate usually formed in major drainage lines
 Czo Opaline silica — vuggy white opaline silica developed within calcrete and on partially consolidated valley-fill



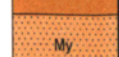
q Quartz veins
 d_{3.a} Dolerite and metadolerite dykes; numbers identify different swarms, lowest number oldest



db Dolerite — in sills and small intrusions



Mz ILGARARI FORMATION: shale, some manganeseiferous; siltstone, claystone, fine-grained sandstone; minor chert



My CALYIE FORMATION: quartz arenite; flaggy to massive pebbly sandstone, minor conglomerate, siltstone and shale



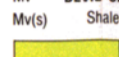
Mb BACKDOOR FORMATION: shale, siltstone, minor fine-grained sandstone, dolomite and chert



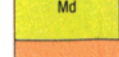
Silicified marker horizon



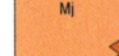
Mv DEVIL CREEK FORMATION: laminated and massive dolomite, interbedded shale, dolomitic breccia, chert and siltstone



Shale, siltstone



Black chert, banded chert; may be a correlate of DISCOVERY CHERT



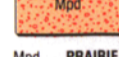
Mj JILLAWARRA FORMATION: shale, siltstone, minor sandstone, chert, claystone



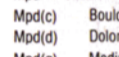
Mk KIANGI CREEK FORMATION: quartz arenite, pebbly sandstone, minor conglomerate, siltstone



Mp CHEYNE SPRINGS FORMATION: dolomite, dololulite, dolomitic breccia



Mpd PRAIRIE DOWNS FORMATION: quartz arenite, quartz wacke, pebbly sandstone, interbedded conglomerate



Boulder conglomerate interbedded coarse-grained sandstone



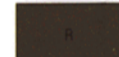
Dolomite



Medium-grained glauconitic sandstone, siltstone, shale



M IRREGULARLY FORMATION: dolomite, dololulite, chert



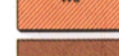
Boulder conglomerate, conglomeratic sandstone, pebbly sandstone, interbedded fine sandstone and mudstone



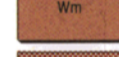
C CAPRICORN FORMATION: fine- to medium-grained sandstone, siltstone and mudstone



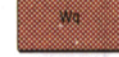
Unassigned; dolomite, usually stromatolitic



Wa ASHBURTON FORMATION: mudstone interbedded with sandstone and dolomite; intruded by dolerite sills



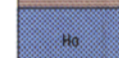
Wm MOUNT McGRATH FORMATION: coarse sandstone



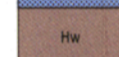
Wq BEASLEY RIVER QUARTZITE: fine- to coarse-grained sandstone; may be silicified



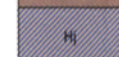
Undifferentiated; mudstone



Ho BOOLGEEDA IRON FORMATION: fine-grained, finely laminated, dark grey-brown to black, flaggy iron-formation; minor chert, jaspilite and shale



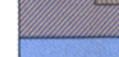
Hw WOONGARRA VOLCANICS: quartz- or feldspar-phyric rhyolite and rhyodacite as sills or flows; tuff and minor jaspilitic banded iron-formation (2470 ± 30 Ma, U-Pb; 2370 Ma, Rb-Sr)



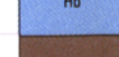
H WEELI WOLLI FORMATION: interlayered banded iron-formation and metadoleritic sills, minor shale



Medium- to coarse-grained massive grey-green metadolerite sills, usually foliated



Hb BROCKMAN IRON FORMATION: banded iron-formation, chert and minor shale (2490 ± 20 Ma, U-Pb)



Hs MOUNT McRAE SHALE and MOUNT SYLVIA FORMATION: interbedded shale, chert and banded iron-formation



Hd WITTENOOM DOLOMITE: dolomite; interbedded thin chert, shale and dolomite in upper part



Hm MARRA MAMBA IRON FORMATION: chert, ferruginous chert and banded iron-formation with minor shale



Metadolerite sills intruded into Fortescue Group; medium- to coarse-grained, massive grey-green rock, usually foliated



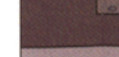
Fj JEERINAH FORMATION: interbedded mudstone, siltstone and chert with minor felsic tuff, dolomite and sandstone



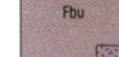
Metabasalt; pillows locally well developed



Upper mafic volcanic unit; metabasalt with minor metadolerite sills



Spinifex-textured komatiitic metabasalt, ultramafic schist



Serpentinite



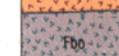
Felsic pyroclastic unit; felsic metatuff with minor banded chert



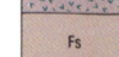
Lower mafic volcanic unit; interbedded metabasalt and mafic metatuff



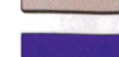
Basal metasedimentary unit; phyllite, quartz-muscovite schist, metasandstone and metaconglomerate, minor carbonate



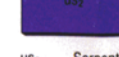
us₂ Serpentinite forming southern ultramafic intrusion



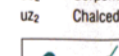
uz₂ Chalcedonic and opaline silica developed on us₂



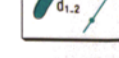
d_{1.2} Metadolerite and amphibolite dykes



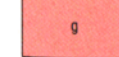
g Granitoid rocks, undifferentiated, deeply weathered



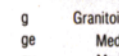
ge Medium, even-grained, metagranite to metagranodiorite



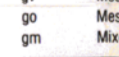
gv Medium-grained, metagranite to metagranodiorite with sparse feldspar phenocrysts



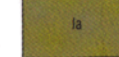
go Mesocratic to melanocratic metamonzodiorite to metaquartz-diorite; coarse cumulate phase locally present



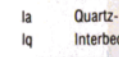
gm Mixed granitoid unit; extensive veins and patches of ge and gv intrude into a strongly foliated or banded metagranite to metagranodiorite



la Quartz-muscovite schist



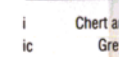
lq Interbedded chert, fuchsitic metaquartzite, minor pelitic and semi-pelitic schist



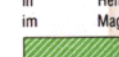
i Chert and banded iron-formation, undifferentiated



ic Grey and white banded chert



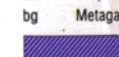
ih Hematite-magnetite-quartz banded iron-formation



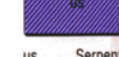
im Magnetite-quartz banded iron-formation; recrystallized, higher grade equivalent of ih



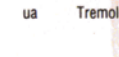
ba Amphibolite; fine-, medium- and coarse-grained varieties derived from extrusive and intrusive rocks



bg Metagabbro; medium- to coarse-grained



us Serpentinite; cumulate textures may be preserved



ua Tremolite-chlorite-talc schist

PHANEROZOIC

CAINOZOIC

QUATERNARY

c. 1100 Ma

c. 1500 Ma

c. 2000 Ma

2500 Ma

c. 2750 Ma

ARCHAEOAN

> 2750 Ma

Collier Subgroup

Bangemall Group

Edmund Subgroup

Bresnahan Group

Wyloo Group

Turee Creek Group

Hamersley Group

Fortescue Group

BANGEMALL BASIN

BLAIR BRESNAHAN BASIN

ASHBURTON BASIN

HAMERSLEY BASIN

SYLVANIA INLIER