PHANEROZOIC

CAINOZOIC

QUATERNARY

Qa | Qc | Qs | Qw

Qa Alluvium — unconsolidated silt, sand, and gravel; in drainage channels and adjacent floodplains
Qc Colluvium — unconsolidated quartz and rock fragments in soil
Qs Eolian deposit — sand; in sheets and dunes
Qw Alluvium and colluvium — red-brown sandy and clayey soil; on low slope and sheetwash areas

Cza | Czc | Czk | Czl | Czr | Czp

Cza Alluvium — partly consolidated silt, sand, and gravel; old alluvium dissected by present-day drainage
Czc Colluvium — partly consolidated quartz and rock fragments in silt and sand matrix; old valley-fill deposits, locally derived
Czk Calcrete — sheet carbonate, found along major drainage lines
Czl Lateritic deposits — massive and pisolitic ferruginous duricrust
Czr Hematite-goethite deposits on banded iron-formation and adjacent scree deposits
Czp **ROBE PISOLITE** : pisolitic limonite deposits developed along river channels

q — Quartz veins

d_5, d_7 — Dolerite dykes, sills, and small intrusions; numbers identify different suites, lowest numbers earliest

PROTEROZOIC

c. 1840 Ma

Wyloo Group

PWa — **ASHBURTON FORMATION** : thin- to thick-bedded metasandstone, pelite, and local metaconglomerate

PWd — **DUCK CREEK DOLOMITE** : thin- to thick-bedded, locally metamorphosed stromatolitic dolomite; metadolorudite; minor chert and pelite

PWmd — Dolomitic pelite, metadolomite, pelite, and metasandstone

PWm — **MOUNT McGRATH FORMATION** : metamorphosed ferruginous sandstone and conglomerate, pelite, and metadolomite

d_4 — Metadolerite dyke

PWt — Fine- to medium-grained metadolerite sills and small intrusions

PWb — **CHEELA SPRINGS BASALT** : metamorphosed amygdaloidal basalt flows and metabasaltic breccia, pelite, metasandstone, and metadolomite

PWq — **BEAZLEY RIVER QUARTZITE** : fine- to coarse-grained metamorphosed quartzitic sandstone, metamorphosed ferruginous sandstone and conglomerate, and pelite; intruded by metadolerite sills

Ashburton Basin

Turee Creek Group

PTUd — Medium- to coarse-grained metadolerite sills intruded into Turee Creek Group

PTUa — **KAZPUT FORMATION** : pelite, metasandstone, metaconglomerate, metadolomite, and banded iron-formation

PTUo — **KOOLBYE FORMATION** : fine- to coarse-grained metamorphosed quartzitic sandstone; minor pelite and metaconglomerate

PTUk — **KUNGARRA FORMATION** : pelite and subordinate thin- to thick-bedded metasandstone

PTUkm — **Meteorite Bore Member** : metadiamictite; clasts comprise metamorphosed felsic volcanic rock, chert, and sandstone

Hamersley Group

PHt — Medium- to coarse-grained metadolerite sills in Hamersley Group

PHo — **BOOLGEEDA IRON FORMATION** : fine-grained, finely laminated iron-formation; pelite and chert

PHw — **WOONGARRA RHYOLITE** : metamorphosed rhyolite, rhyodacite, rhyolitic breccia, and banded iron-formation

PHj — **WEELI WOLLI FORMATION** : banded iron-formation (commonly jaspilitic), pelite, and numerous metadolerite sills

PHb — **BROCKMAN IRON FORMATION** : banded iron-formation, chert, and pelite

c. 2490 Ma

2500 Ma

AHs — **MOUNT McRAE SHALE and MOUNT SYLVIA FORMATION** : pelite, chert, and banded iron-formation

AHd — **WITTENOOM FORMATION** : metamorphosed thin- to medium-bedded dolomite, dolomitic pelite, chert, and volcanic sandstone

AHm — **MARRA MAMBA IRON FORMATION** : chert, banded iron-formation, and pelite

Hamersley Basin

ARCHAEAN

Mount Bruce Supergroup

Fortescue Group

AFd — Medium- to coarse-grained metadolerite sills intruded into Fortescue Group

AFl — Layered sills intruded into Fortescue Group; sills generally consist of a coarse-grained metapyroxenite base, overlain by leucocratic metagabbro or metadolerite; serpentinite occurs locally at the base of some sills

c. 2690 Ma

AFj — **JEERINAH FORMATION** : pelite, metasandstone, chert, metabasaltic pillow lava and breccia, and metamorphosed felsic volcanic rock; intruded by numerous metadolerite sills

AFjl — Pillowed and massive metabasaltic flows and metabasaltic breccia

AFu — **BUNJINAH FORMATION** : pillowed and massive metabasaltic flows, metabasaltic breccia, metamorphosed volcanic sandstone, and minor chert; amygdaloidal metabasaltic flows occur in upper parts of the formation

AFub — Metabasaltic breccia

CHICHESTER RANGE AREA

AFj — **JEERINAH FORMATION** : carbonaceous pelite, chert, and minor metamorphosed thin-bedded sandstone

AFjo — **Woodiana Member** : metamorphosed quartzitic sandstone, pelite, and chert

AFm — **MADDINA BASALT** : amygdaloidal metabasaltic flows and breccia

AFp — **PYRADIE FORMATION** : metamorphosed pyroxene spinifex-textured basaltic flows and pillow lava; metamorphosed volcanic sandstone and minor chert

AFps — Metamorphosed lithic sandstone and pelite

AFpk — Metakomatiite flow

AFo — **BOONGAL FORMATION** : pillowed and massive metabasaltic flows, metabasaltic breccia, pelite, and minor chert

AFh — **HARDEY FORMATION** : pelite, metasandstone, metaconglomerate, metabasalt, metamorphosed volcanic sandstone, and metabasaltic breccia

AFhc — Metamorphosed conglomerate and pebbly sandstone

AFhs — Metamorphosed feldspathic sandstone, pebbly sandstone, conglomerate, and minor pelite

c. 2765 Ma

AFr — **MOUNT ROE BASALT** : metamorphosed amygdaloidal basaltic flows and breccia

PILBARA CRATON

d_1 — Metadolerite dykes

Agm — Metamorphosed biotite monzogranite; weakly to strongly foliated

As | Ac | Al

As Pelite, metasandstone, metaconglomerate, chert, and minor metabasalt; locally mylonitic
Ac Chert, banded grey and white
Al Quartzofeldspathic schist, talc-carbonate schist, quartz-chlorite schist, quartzitic mylonite, and foliated felsic volcanic rock

Ab | Abm

Ab Metabasalt and metamorphosed pyroxene spinifex-textured basalt
Abm Metamorphosed pyroxene spinifex-textured basalt

Granite – greenstone terrain