PHANEROZOIC

CAINOZOIC

QUATERNARY

Qa Alluvium—unconsolidated silt, sand, and gravel; in drainage channels and on adjacent floodplains
Ql Lacustrine deposits—clay and silt; claypan (predominantly freshwater) deposits
Qc Colluvium—unconsolidated quartz and rock fragments in soil; locally derived soil, and scree, and talus deposits
Qs Eolian deposit—sand; in sheets and longitudinal dunes
Qw Alluvium and colluvium—red-brown sandy and clayey soil; on low slopes and sheetwash areas

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
Czg Sand over granitoid rock—quartzofeldspathic sand; includes areas of low, weathered outcrop
Czz Brecciated siliceous caprock over dolomitic rock; angular chert fragments in a chert matrix; overlies WITTENOOM FORMATION
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

d4, d5, d7 Dolerite dykes, sills, and small intrusions; numbers identify different suites, lowest number earliest

PROTEROZOIC

Hamersley Group

PHt Medium- to coarse-grained metadolerite sills intruded into 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

c. 2490 Ma

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

c. 2500 Ma

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

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

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

Mount Bruce Supergroup

Fortescue Group

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

c. 2690 Ma

AFj **JEERINAH FORMATION:** pelite, chert, and thin-bedded metasandstone; intruded by metadolerite sills in the Hamersley Range

AFjl Pillowed and massive metabasaltic flows and metabasaltic breccia

AFjd Pelite and thin-bedded metadolomite

AFjo **Woodiana Member:** metamorphosed quartzitic sandstone, pelite, and chert (locally stromatolitic)

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

AFmk **Kuruna Member:** metamorphosed volcanic sandstone, pelite, chert, and metadolomite; local accretionary lapilli and stromatolites

AFms Pelite, metamorphosed mafic to intermediate volcanic sandstone, and chert; local accretionary lapilli and stromatolites

AFtc **Meentheena Member:** metamorphosed stromatolitic limestone and dolomite, pelite, and volcanic sandstone

AFt **TUMBIANA FORMATION:** metamorphosed mafic to intermediate volcanic sandstone, pelite, metabasaltic flows and breccia, chert, and metadolerite; local accretionary lapilli and stromatolites

AFtl Metabasaltic flows and breccia

AFk **KYLENA BASALT:** thin to very thick, massive or amygdaloidal metabasaltic flows; minor metabasaltic breccia and metasandstone

Hamersley Basin

q Quartz vein

d_1 Metadolerite dyke

Shaw Granitoid Complex

AgSb **BAMBOO SPRINGS MONZOGRANITE:** metamorphosed porphyritic biotite monzogranite; weakly to strongly foliated; intruded by a network of metamorphosed muscovite pegmatite veins

AgSm Metamorphosed biotite monzogranite and minor granodiorite; weakly to strongly foliated; local metabasalt and metadolerite xenoliths intruded by a network of metamorphosed muscovite pegmatite veins

Yule Granitoid Complex

AgYa AgYm

AgYa **TAMBOURAH GRANODIORITE:** metamorphosed medium- to coarse-grained biotite granodiorite and monzogranite; weakly to strongly foliated; locally intruded by a network of metamorphosed muscovite pegmatite veins
AgYm Metamorphosed biotite monzogranite and minor granodiorite

Kurrana Granitoid Complex

AgKm Strongly foliated monzogranite

Granite—greenstone terrain

Aci Al

Aci Banded iron-formation; locally jaspilitic
Al Quartzofeldspathic schist and quartz-chlorite schist

Aog Ab Abm Au

Aog Metagabbro and hornblende schist
Ab Metabasalt and metamorphosed pyroxene spinifex-textured basalt, chlorite schist, and tremolite schist
Abm Metamorphosed pyroxene spinifex-textured basalt and tremolite schist
Au Massive serpentinite, and tremolite-chlorite schist

ARCHAEAN

PILBARA CRATON