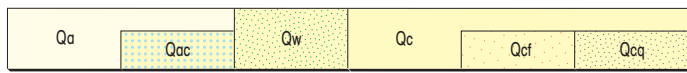


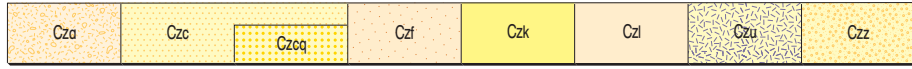
PHANEROZOIC

CAINOZOIC

QUATERNARY



Qa Alluvium—clay, silt, sand, and gravel in channels and flood plains
 Qac Clay and silt in claypans
 Qw Sheetwash deposits—clay, silt, and sand as extensive alluvial fans
 Qc Colluvium—gravel, sand, and silt as scree and sheetwash
 Qcf Ferruginized rubble and colluvium—dominantly ferruginized pisolites and nodules; degraded lateritic duricrust
 Qcq Quartz vein rubble and debris

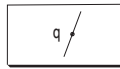


Cza Sheetwash deposits—ferruginous clay, silt, and sand as extensive fans
 Czc Colluvium—gravel, sand, and silt as scree and sheetwash
 Czcq Quartz vein rubble and debris
 Czf Ferruginized rubble and colluvium—dominantly ferruginized pisolites, nodules, rock, and ironstone rubble; degraded lateritic duricrust
 Czk Calcrete
 Czl Lateritic deposits—nodular and pisolitic laterite, and associated debris
 Czu Chalcedony over ultramafic rock
 Czz Silcrete

PROTEROZOIC

MIDDLE PROTEROZOIC

EARLY PROTEROZOIC



Quartz vein



Dolerite dyke; locally with plagioclase phenocrysts; dashed where interpreted from aeromagnetic anomaly, + positive anomaly, - negative anomaly

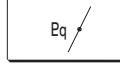


Chert pod or bed

Bangemall Group



EMa Quartz arenite and sandstone
 EMs Shale and siltstone



Quartz vein; ranging from massive to foliated; associated with faults and shear zones



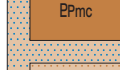
Metasedimentary rock, comprising biotite-muscovite-quartz schist, containing andalusite porphyroblasts; unassigned



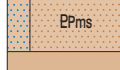
MILLIDIE CREEK FORMATION: sericitic shale and siltstone; metamorphosed



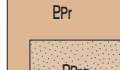
Banded iron-formation, shale, and siltstone; metamorphosed



Sericitic shale with finely laminated carbonate layers; metamorphosed



Metamorphosed chloritic siltstone



ROBINSON RANGE FORMATION: ferruginous finely bedded shale and siltstone; thin and discontinuous chert layers; minor banded and granular iron-formation; metamorphosed



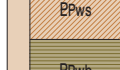
Granular iron-formation; minor shale; metamorphosed



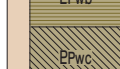
Banded iron-formation; minor shale; metamorphosed



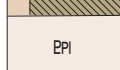
WILTHORPE FORMATION: vein quartz pebble conglomerate, including some chert pebbles; quartz wacke and finely bedded siltstone; graded units; metamorphosed



Metamorphosed quartz-sericite siltstone; finely bedded; phyllite



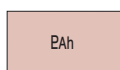
Beatty Park Member: fine- to very fine-grained quartz-chlorite shale to sandstone with breccia layers, containing fragments of quartz wacke and massive chlorite rock; thin, interleaved chert layers towards the top; metamorphosed



Quartz-chloritoid-sericite-chlorite rock



LABOUCHERE FORMATION: metamorphosed quartz wacke, siltstone, and shale; zones of pervasive foliation comprising quartz schist, quartz-muscovite schist, and quartz-biotite-muscovite schist; locally with staurolite and andalusite porphyroblasts



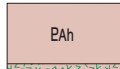
Metamorphosed sericitic shale

Padbury Group

Bryah Group

Yerrida Group

Winaplain Subgroup



HORSESHOE FORMATION: manganeseiferous shale, siltstone, quartz wacke, and banded iron-formation; metamorphosed



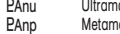
NARRACOOTA FORMATION: metabasalt, mafic schist, minor ultramafic schist, locally with possible fragmental textures, and metadolomite



Actinolite-tremolite schist



Metadolomite



Metabasaltic hyaloclastite; generally weathered



Ultramafic and mafic schist; talc-chlorite(-carbonate) schist and tremolite schist



Metamorphosed peridotite, picrite, and basaltic komatiite with alivine cumulate and pyroxene spinifex textures; serpentinized



Carbonated and silicified ultramafic rock



JOHNSON CAIRN FORMATION: shale and slate



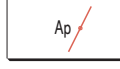
JUDERINA FORMATION: siltstone and quartz wacke, with interbedded quartz pebble conglomerate layers and lenses; minor quartz sandstone



Quartz pebble conglomerate



Finlayson Member: quartz arenite and finely bedded siltstone



Metamorphosed dolerite dyke; amphibolite and garnetiferous hornblende-plagioclase schist



Pegmatite veins



Biotite monzogranite; variably foliated; includes narrow mylonite zones



Metamorphosed banded iron-formation and chert



Metasedimentary schist and slate



Felsic schist, with quartz and/or feldspar clasts



Foliated metabasalt comprising actinolite-tremolite and feldspar schist



Basalt and dolerite; locally pyroxene-phyric; with rare banded iron-formation and lenses of quartz-epidote rock; metamorphosed



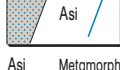
Metamorphosed high-Mg basalt, with pyroxene spinifex textures; minor tremolite schist



Serpentinized peridotite with talc-chlorite schist and tremolite schist



Tremolite schist with dolerite-textured metamorphosed high Mg-basalt



Ultramafic rock, variably silicified; undivided



Granitic gneiss with inclusions of mafic and ultramafic rocks; prograde granulite and retrograde amphibolite facies metamorphism



Mafic granulite containing hypersthene (opx), diopside (cpx), and plagioclase

Ultramafic granulite and amphibolite containing olivine, clinopyroxene, orthopyroxene; minor retrograde serpentinite and magnetite

DESPAIR GRANITE: biotite granite; massive to deformed; lenses of biotite schist, quartzite, amphibolite, and banded iron-formation

Granitic gneiss derived from c.3400–3300 Ma and c.2700 Ma biotite monzogranite (both deformed by Late Archaean D₁–D₃); both intruded by sheets and veins of granite and pegmatite (deformed by Late Archaean D₃); reworked during Early Proterozoic

Metamorphosed banded iron-formation

Quartzite

Amphibolite

Undivided ultramafic rock and metapyroxenite

ARCHAEAN

c 2700 Ma

BANGEMALL BASIN

PADBURY BASIN

BRYAH BASIN

YERRIDA BASIN

Murchison Terrane

YILGARN CRATON

Narryer Terrane