PHANEROZOIC
CENOZOIC
QUATERNARY
PALEOGENE–NEOGENE
MIOCENE
PROTEROZOIC

C1 W1 W1gPe Ab Ac Ar S1

R1gPe R1k

Colluvial unit, third generation
C1 Colluvial sand, silt, and gravel in outwash fans; scree and talus; proximal mass-wasting deposits; unconsolidated

Sheetwash units, second generation
W1 Silt, sand, and pebbles in distal sheetwash fans; no defined drainage; unconsolidated
W1gPe Quartzofeldspathic sand and quartz pebbles in sheetwash fans; derived from mass-wasting of granitic rocks; unconsolidated

Alluvial units, third generation
Ab Sand, silt, and gravel in the beds of major active drainage channels; unconsolidated
Ac Sand, silt, and gravel in active drainage channels; includes clay, silt, and sand in poorly defined drainage courses on floodplains; unconsolidated
Ar Floodplain deposits; sand, silt, clay, and gravel adjacent to main drainage channels; unconsolidated

Sandplain unit, second generation
S1 Sandplain deposits; sand of mixed residual, sheetwash, and eolian origin; unconsolidated

Residual units, third generation
R1gPe Residual quartzofeldspathic sand, with quartz and rock fragments; overlying and derived from mass-wasting of granitic rocks; unconsolidated
R1k Residual calcrete; massive, nodular, and cavernous limestone; variably silicified

C2 C2f C2gPe A2alk R2gPe R2k

Colluvial units, second generation
C2 Partly consolidated colluvial sand, silt, and gravel in proximal outwash fans; scree and talus; dissected by present-day drainage
C2f Ferruginous colluvium; consolidated sand, silt, clay, and rock fragments in proximal outwash fans and scree; dissected by present-day drainage
C2gPe Variably consolidated quartzofeldspathic sand, silt, clay, and rock fragments derived from granitic rocks; dissected by present-day drainage

Alluvial unit, second generation
A2alk Consolidated alluvial gravel, sand, and silt; local carbonate cement; dissected by present-day drainage

Residual units, second generation
R2gPe Variably consolidated eluvial and colluvial sand, gravel, and silt overlying and derived from granitic rocks; dissected by present-day drainage
R2k Residual calcrete; massive, nodular, and cavernous limestone; variably silicified; dissected by present-day drainage

Nmrb-cip **ROBE PISOLITE:** pisolitic limonite, goethite, and hematite deposits; developed along paleodrainage lines; dissected by present-day drainage

R3f **Residual or relict unit, first generation**
Ferruginous duricrust and ferruginous colluvium; locally includes ferruginous alluvium; consolidated to partly consolidated; related to Hamersley Surface; dissected by present-day drainage

zq Quartz vein or pod; massive, crystalline, or brecciated; age uncertain

EMW-od ERH-od

c. 755 Ma[1]

EMW-od **Mundine Well Dolerite Suite:** dolerite dykes, sills, and small intrusions with locally abundant xenoliths and potassic alteration of wallrocks; includes minor quartz diorite, syenite, tonalite, and biotite monzogranite

ERH-od **Round Hummock Dolerite Suite:** dolerite dyke, fine to medium grained

Fortescue rifting event (2775–2760 Ma)

ASR-gnl ASRsh-gmp

Split Rock Supersuite

ASR-gnl Seriate to porphyritic biotite leucogranite; massive to weakly foliated; metamorphosed
ASRsh-gmp **SPEAR HILL MONZOGRANITE:** coarse-grained to K-feldspar porphyritic biotite monzogranite

AST-gm AST-gmaf AST-gmap ASTmg-gme ASTwo-gm ASTwo-gmi ASTki-gme ASTki-gmp

Sisters Supersuite

2934–2919 Ma
2933–2927 Ma
c. 2936 Ma

AST-gm Biotite monzogranite with K-feldspar and local quartz phenocrysts; leucocratic; massive to weakly foliated; weakly metamorphosed
AST-gmaf Micromonzogranite dykes; local flow banding; silicified and weakly recrystallized
AST-gmap Micromonzogranite dykes; phenocrysts of quartz and feldspar; silicified and weakly recrystallized
ASTmg-gme **MULGANDINNAH MONZOGRANITE:** fine- to medium-grained, magnetite-bearing biotite monzogranite; weakly foliated
ASTwo-gm **WOODSTOCK MONZOGRANITE:** biotite monzogranite; equigranular to feldspar porphyritic; weakly to moderately foliated; locally abundant pegmatite and granodiorite dykes; magnetite-bearing leucogranite pods
ASTwo-gmi Biotite monzogranite; equigranular to feldspar porphyritic; weakly to moderately foliated; with abundant greenstone and granitic gneiss xenoliths
ASTki-gme **KEEP IT DARK MONZOGRANITE:** equigranular monzogranite; locally weakly porphyritic; metamorphosed
ASTki-gmp Porphyritic monzogranite; locally equigranular; metamorphosed

North Pilbara Orogeny (2950–2930 Ma)

ARCHEAN
3022–3016 Ma

De Grey Supergroup

Croydon Group
ACDl-sg ACDl-sp
LALLA ROOKH SANDSTONE
ACDl-sg Pebble to boulder conglomerate and interbedded pebbly to coarse-grained sandstone; metamorphosed
ACDl-sp Coarse-grained to pebbly sandstone and pebble conglomerate; minor siltstone and grey shale; metamorphosed

LALLA ROOKH BASIN

Gorge Creek Group
AGCe-ci AGCe-sh
CLEAVERVILLE FORMATION
AGCe-ci Banded iron-formation and ferruginous chert; local banded quartz–magnetite–grunerite rock; metamorphosed
AGCe-sh Black shale, with minor chert and banded iron-formation; local siltstone; metamorphosed

AGCf-sp
FARREL QUARTZITE
Sandstone and minor interbedded conglomerate; local siltstone and shale; metamorphosed

GORGE CREEK BASIN
DE GREY SUPERBASIN

Prinsep Orogeny (3070–3060 Ma)

AmodP AmogP AmwazP Axmwo-gP Axmws-musP AmoptP AmuskP AmusrP AophP

AmodP Metadolerite
AmogP Medium- to coarse-grained metagabbro; foliated
AmwazP Amphibolite after basalt or dolerite; metasomatized; local amphibolite schist
Axmwo-gP Amphibolite with abundant granitic dykes and veins; local interleaved meta-ultramafic rocks
Axmws-musP Mafic and ultramafic schist
AmoptP Metamorphosed serpentinized peridotite and serpentine–chlorite schist
AmuskP Talc–carbonate and talc–carbonate–chlorite(–magnetite) schist
AmusrP Tremolite–chlorite–talc schist
AophP Harzburgite; medium to coarse grained; metamorphosed

PROTEROZOIC

APO-o Dolerite or gabbro dyke or sill

APOt-fntt APOt-bntt
2727–2715 Ma
TUMBIANA FORMATION
APOt-fntt Felsic volcaniclastic sandstone and tuffaceous rocks; minor pebbly conglomerate and quartz arenite
APOt-bntt Basaltic to andesitic volcaniclastic siltstone and sandstone; well bedded, with local cross bedding and } accretionary lapilli; common welded matrix; local stromatolites; local shale, quartz sandstone, and wacke

APOk-bb APOk-bbx APOk-od
2749–2735 Ma[2]
KYLENA FORMATION
APOk-bb Massive and vesicular tholeiitic basalt to basaltic andesite; thick flows
APOk-bbx Basaltic fragmental rock
APOk-od Dolerite; sills and dykes; commonly amygdaloidal; local columnar jointing

APOh-sh APOh-sp APOh-st
2766–2752 Ma[3]
HARDEY FORMATION
APOh-sh Shale and siltstone; local minor conglomerate
APOh-sp Thickly bedded sandstone, pebbly sandstone, and conglomerate
APOh-st Sandstone, coarse to medium grained; generally arkosic; includes local volcaniclastic rocks

APOr-bbg APOr-bbx
2775–2763 Ma[4]
MOUNT ROE BASALT
APOr-bbg Massive, porphyritic, vesicular, and amygdaloidal basalt; some pillow basalt; metamorphosed
APOr-bbx Basaltic volcanic breccia and agglomerate; local accretionary lapilli

Fortescue Group

c. 2772 Ma[5]

ABL-od **Black Range Dolerite Suite:** dolerite dyke; local gabbro; weakly metamorphosed

FORTESCUE BASIN

Fortescue rifting event (2775–2760 Ma)

ASR-gnl ASRsh-gmp

Split Rock Supersuite

ASR-gnl Seriate to porphyritic biotite leucogranite; massive to weakly foliated; metamorphosed
ASRsh-gmp **SPEAR HILL MONZOGRANITE:** coarse-grained to K-feldspar porphyritic biotite monzogranite

AST-gm AST-gmaf AST-gmap ASTmg-gme ASTwo-gm ASTwo-gmi ASTki-gme ASTki-gmp

Sisters Supersuite

2934–2919 Ma
2933–2927 Ma
c. 2936 Ma

AST-gm Biotite monzogranite with K-feldspar and local quartz phenocrysts; leucocratic; massive to weakly foliated; weakly metamorphosed
AST-gmaf Micromonzogranite dykes; local flow banding; silicified and weakly recrystallized
AST-gmap Micromonzogranite dykes; phenocrysts of quartz and feldspar; silicified and weakly recrystallized
ASTmg-gme **MULGANDINNAH MONZOGRANITE:** fine- to medium-grained, magnetite-bearing biotite monzogranite; weakly foliated
ASTwo-gm **WOODSTOCK MONZOGRANITE:** biotite monzogranite; equigranular to feldspar porphyritic; weakly to moderately foliated; locally abundant pegmatite and granodiorite dykes; magnetite-bearing leucogranite pods
ASTwo-gmi Biotite monzogranite; equigranular to feldspar porphyritic; weakly to moderately foliated; with abundant greenstone and granitic gneiss xenoliths
ASTki-gme **KEEP IT DARK MONZOGRANITE:** equigranular monzogranite; locally weakly porphyritic; metamorphosed
ASTki-gmp Porphyritic monzogranite; locally equigranular; metamorphosed

ADA-mapt ADA-mats ADA-mod ADA-mog ADA-o ADA-ocl ADA-od ADA-og ADA-px ADA-qp ADA-ol

Dalton Suite

c. 3185 Ma

ADA-mapt Metaperidotite and serpentine–chlorite schist
ADA-mats Serpentinite, schistose
ADA-mod Metadolerite
ADA-mog Metagabbro
ADA-o Gabbro and dolerite, with local diorite; metamorphosed
ADA-ocl Pyroxene leucogabbro; metamorphosed
ADA-od Dolerite, partly in dykes; local mafic schist; metamorphosed
ADA-og Pyroxene leucogabbro; weakly metamorphosed
ADA-px Pyroxenite; includes olivine pyroxenite and orthopyroxenite; metamorphosed
ADA-qp Peridotite; partly serpentinized; metamorphosed
ADA-od Dunite; partly serpentinized; metamorphosed

PILBARA CRATON

ARCHEAN
3252–3235 Ma[8]
c.3235 Ma[8]
c.3238 Ma[8]
c.3240 Ma[8]
c.3235 Ma[8]
c.3255 Ma[8]
3350–3335 Ma
c.3350 Ma
< 3426 Ma
3449–3427 Ma[9, 10]
c.3433 Ma
c.3434 Ma
3471–3463 Ma[9, 11]
c.3458 Ma[9]
c.3466 Ma
3477–3499 Ma
c.3470 Ma[14]
< 3481 Ma
c.3477 Ma
>3490 Ma[15]
c.3515 Ma[13]

East Pilbara Terrane rifting event (3220–3160 Ma)

API-mod API-mop

API-mod Metadolerite
API-mop Serpentinized metaperidotite and serpentine–chlorite schist

Pilbara Supergroup

Sulphur Springs Group

ASSc-ex ASSc-ci ASSc-ccb ASSc-sh ASSc-fci ASSc-fcit ASSc-fcl ASSc-fn ASSc-fnx ASSc-fr

KANGAROO CAVES FORMATION
ASSc-ex Olistostrome megabreccia; metamorphosed
ASSc-ci **Pincunah Banded-Iron Member:** banded iron-formation; jaspilitic; minor layered chert and shale; metamorphosed
ASSc-ccb White, grey, and black layered chert; includes felsic volcaniclastic sandstone and shale; metamorphosed
ASSc-sh Shale; metamorphosed
ASSc-fn Andesite and minor basalt; pillowed or massive; local dolerite sills; locally overlain by tuffaceous dacitic to rhyolitic volcaniclastic rocks; metamorphosed
ASSc-fcit Andesitic volcanic sandstone; tuffaceous; local shale, and chert; metamorphosed
ASSc-fcl Dacite and rhyodacite; flows, sills, and breccia; metamorphosed
ASSc-fn Felsic volcanic rocks and minor quartz–sericite schist; local chert; metamorphosed
ASSc-fnx Felsic volcanic breccia and volcaniclastic sandstone; metamorphosed
ASSc-fr Rhyolite lava and pumice breccia, metamorphosed

c.3238 Ma[8]
c.3239 Ma[8]
c.3239 Ma[8]
c.3240 Ma

ACE-gmh ACEst-gmhp ACEst-gmhb ACEst-gmy ACEst-gv ACEst-gi ACEst-od ACEko-mggb

Cleland Supersuite

ACE-gmh Hornblende-porphyritic monzogranite; medium grained; foliated; metamorphosed
STRELLEY MONZOGRANITE
ACEst-gmhp Porphyritic hornblende–biotite monzogranite; inner phase; rapakivi textures; metamorphosed
ACEst-gmhb Equigranular hornblende–biotite monzogranite; outer phase; rapakivi textures; metamorphosed
ACEst-gmy Layered monzogranite; fine- to medium-grained; metamorphosed
ACEst-gv Fine-grained, granophyric monzogranite; common epidote alteration spots; metamorphosed
ACEst-gi Microdiorite and diorite; metamorphosed
ACEst-od Dolerite and gabbro; metamorphosed
ACEko-mggb **KAVIR GRANODIORITE:** meta biotite granodiorite and minor pegmatitic granite; fine to medium grained; foliated

ASSk-mbk ASSk-mbs ASSk-xmus-mbs ASSk-mus ASSk-xb-mbs ASSk-xb-mus ASSk-ccb ASSk-ccf ASSk-sh ASSk-fd ASSk-bb ASSk-bk ASSk-xuk-bk ASSk-uk

KUNAGUNARRINA FORMATION
ASSk-mbk Carbonate-altered metamafic volcanic rocks; locally includes chlorite–sericite rock and mafic schist
ASSk-mbs Mafic schist derived from mafic volcanic rocks
ASSk-xmus-mbs Interlayered ultramafic and mafic schist; locally includes talc–chist
ASSk-mus Ultramafic schist; mainly serpentine–chlorite schist
ASSk-xb-mbs Interlayered mafic volcanic rock and mafic schist
ASSk-xb-mus Interlayered mafic volcanic rock and ultramafic schist
ASSk-ccb White-, blueish black-, and grey-layered chert; metamorphosed
ASSk-ccf Bright green, fuchsitic chert; includes local silicified komatiitic basalt flow tops; metamorphosed
ASSk-sh Shale; local wacke, sandstone, siltstone, or banded iron-formation; metamorphosed
ASSk-fd Dacite
ASSk-bb Basalt; metamorphosed
ASSk-bk Komatiitic basalt; massive and pillowed flows; metamorphosed
ASSk-xuk-bk Komatiite and basaltic komatiite; local pyroxene spinifex texture; locally pillowed; metamorphosed
ASSk-uk Komatiite, with pyroxene spinifex texture; local talc–carbonate rock; metamorphosed

ASSl-mfq ASSl-cc ASSl-sw ASSl-fd

LEILIRA FORMATION
ASSl-mfq Silicified fine-grained felsic volcaniclastic rocks; layered grey, white, and cream chert
ASSl-cc Chert
ASSl-sw Wacke; local volcaniclastic sandstone, shale, and quartzite; metamorphosed
ASSl-fd Dacite; includes local minor felsic schist; metamorphosed

Emu Pool event (3300–3290 Ma)

AKEe-mwsc AKEe-mbk AKEe-mbms AKEe-xmus-mbs AKEe-cc AKEe-ccb AKEe-ss AKEe-fnt AKEe-bb AKEe-bbo AKEe-bk AKEe-ocl AKEe-od

Kelly Group

EURO BASALT
AKEe-mwsc Strongly sheared chlorite schist
AKEe-mbk Carbonate-altered mafic volcanic rock and derived mafic schist
AKEe-mbms Tremolite–chlorite–serpentine schist, derived from komatiitic basalt
AKEe-xmus-mbs Interlayered ultramafic and mafic schist derived from interbedded komatiitic and tholeiitic basalt.
AKEe-cc Chert; metamorphosed
AKEe-ccb Chert; white, grey, and blue-black layered; locally massive blue-grey; metamorphosed
AKEe-ss Sandstone, siltstone, shale, and local tuffaceous sandstone; metamorphosed
AKEe-fnt Felsic volcanic sandstone; metamorphosed
AKEe-bb Massive basalt; metamorphosed
AKEe-bbo Pillowed basalt; includes local massive basalt, dolerite, and komatiitic basalt; metamorphosed
AKEe-bk Komatiitic basalt; massive and pillowed lavas and subvolcanic intrusions; local pyroxene spinifex texture; metamorphosed
AKEe-ocl Pyroxene leucogabbro; metamorphosed
AKEe-od Dolerite; includes local gabbro; metamorphosed

APIs-xs-c APIs-kdz APIs-stq APIs-fnc

STRELLEY POOL FORMATION: silicified carbonate rocks, sandstone, conglomerate, chert, and dolomite; stromatolitic; metamorphosed
APIs-xs-c White-, grey-, and blue-black-layered chert after dolomite; locally stromatolitic; metamorphosed
APIs-kdz Quartz-rich sandstone or arenite; thickly bedded; local chert; metamorphosed
APIs-stq Quartz-rich sandstone or arenite; thickly bedded; local chert; metamorphosed
APIs-fnc Felsic volcaniclastic conglomerate and sandstone; minor felsic schist; locally silicified; metamorphosed

Warrawoona event (3430–3410 Ma)

AWAp-mfs AWAp-ccb AWAp-ci AWAp-cij AWAp-fnc AWAp-fnck AWAp-fnp AWAp-fntt AWAp-fnx AWAp-fnxz AWAp-frtt

Salgash Subgroup

PANORAMA FORMATION
AWAp-mfs Metafelsic volcanic rock; schistose
AWAp-ccb Layered grey-blue and white chert; minor massive cream chert; weakly metamorphosed
AWAp-ci Banded iron-formation; local ferruginous shale; metamorphosed
AWAp-cij Jaspilitic banded iron-formation; metamorphosed
AWAp-fnc Felsic volcaniclastic conglomerate and sandstone; minor felsic schist; locally silicified; metamorphosed
AWAp-fnck Felsic volcaniclastic conglomerate and sandstone; minor felsic schist; carbonate cemented; metamorphosed
AWAp-fnp Porphyritic to aphanitic felsic dyke; metamorphosed
AWAp-fntt Felsic, tuffaceous volcaniclastic rocks; minor agglomerate and volcanic breccia; metamorphosed
AWAp-fnx Felsic volcanic breccia; unsorted vent facies; metamorphosed
AWAp-fnxz Felsic volcanic breccia; hydrothermally altered
AWAp-frtt Rhyolitic tuffaceous volcaniclastic sandstone, including ash beds; well bedded; metamorphosed

AWAo-mbk
APEX BASALT
Carbonate-altered mafic volcanic rock and derived mafic schist

c. 3420 Ma
c. 3428 Ma
< 3459 Ma[9]

ATA-gml ATA-mgg ATA-mgmo ATAww-mgtn ATApe-mgtn ATAno-gm

Tambina Supersuite

ATA-gml Leucocratic monzogranite; inequigranular, medium- to coarse-grained; varies from homogeneous, to schlieric-textured, to locally gneissic; metamorphosed
ATA-mgg Orthogneiss derived from granodiorite; leucocratic; fine to medium grained
ATA-mgmo Meta hornblende granodiorite with deformed feldspar phenocrysts; biotite foliation
ATAww-mgtn **WILSON WELL GNEISS:** heterogeneous, migmatitic, tonalitic orthogneiss and schlieric hornblende granodiorite
ATApe-mgtn **PETROGLYPH GNEISS:** tonalitic orthogneiss with sheeted pegmatitic granitic veins and local white leucogranite
ATAno-gm **NORTH POLE MONZOGRANITE:** biotite monzogranite; equigranular to weakly porphyritic

AWAdm-ccj AWAd-f AWAd-mfs AWAd-sp AWAd-fnt AWAd-fnx

Warrawoona Group

Coongan Subgroup

AWAdm-ccj **Marble Bar Chert Member**
Jaspilitic chert; metamorphosed

AWAd-f **DUFFER FORMATION:** felsic volcanic rock; local basalt, chert, and felsic schist; metamorphosed
AWAd-mfs Felsic schist derived from felsic volcanic rocks
AWAd-sp Sandstone and minor conglomerate; metamorphosed
AWAd-fnt Fine-grained felsic volcanic sandstone; local chert, wacke and conglomerate; thinly bedded; locally silicified; metamorphosed
AWAd-fnx Felsic volcanic breccia; locally schistose; metamorphosed

c.3466 Ma

AWAm-mb AWAm-mba AWAm-mbbk AWAm-mbq AWAm-cc AWAmo-xcc-f AWAmo-saz AWAm-od AWAm-bbo AWAm-bk

MOUNT ADA BASALT
AWAm-mb Metamafic volcanic rock
AWAm-mba Fine-grained amphibolite; locally schistose; derived from basalt; includes minor metachert and meta-ultramafic rocks
AWAm-mbbk Carbonate-altered metabasalt; commonly schistose
AWAm-mbq Silicified metamafic volcanic rock
AWAm-cc Chert; metamorphosed
AWAmo-xcc-f Antarctic Creek Member: chert, felsic volcaniclastic rocks, and carbonate rocks; metamorphosed
AWAmo-saz Arenite and layered black, grey, red and white chert; contains an impact spherule bed; metamorphosed
AWAm-od Dolerite and local gabbro; metamorphosed
AWAm-bbo Pillow basalt; local massive basalt and dolerite sills; metamorphosed
AWAm-bk Komatiitic basalt, massive and pillowed lavas; local pyroxene spinifex texture; metamorphosed

c.3484 Ma
c.3469 Ma
c.3468 Ma[13]
c.3468 Ma
3469–3467 Ma[6, 12]

ACL-mgg ACL-mgm ACL-mgmo ACL-mgti ACL-gml ACL-gmap ACLns-mgto ACLco-mgg

Callina Supersuite

ACL-mgg Leucocratic, equigranular biotite–hornblende metagranodiorite to metamonzogranite
ACL-mgm Meta biotite monzogranite; fine to medium grained
ACL-mgmo Partly melted orthogneiss, with hornblende porphyroblastic texture
ACL-mgti Migmatitic tonalitic orthogneiss and diatexite; intrusive sheets of leucogranite and/or leucosome; common xenoliths of amphibolite; local xenoliths of quartzite
ACL-gml Biotite–hornblende monzogranite; leucocratic; medium grained, seriate to weakly porphyritic; weakly metamorphosed
ACL-gmap Porphyritic fine-grained monzogranite; high-level equivalent of ACL-gml
ACLns-mgto NORTH SHAW TONALITE: meta hornblende tonalite to diorite; equigranular, with local plagioclase phenocrysts
ACLco-mgg COOLYIA CREEK GRANODIORITE: metagranodiorite to metatonalite; clotty hornblende textured; strongly foliated

AWAr-zc AWAr-ccb AWAr-bko AWAh-mc AWAh-mba AWAh-mbk AWAh-mutc

Talga Talga Subgroup

DRESSER FORMATION
AWAr-zc Hydrothermal black, blue-black, or grey chert; in dykes and sills; local barite veins
AWAr-ccb Layered chert; includes silicified evaporite deposits and volcanic sandstone; locally stromatolitic; metamorphosed
AWAr-bko Pillowed komatiitic basalt and minor basalt; metamorphosed
MCPHEE FORMATION
AWAh-mc Metachert
AWAh-mba Fine- to medium-grained amphibolite; locally schistose; metamorphosed basalt
AWAh-mbk Carbonate-altered mafic volcanic rock and derived mafic schist
AWAh-mutc Talc–chlorite schist; metamorphosed ultramafic rocks

AWAn-mwsz AWAn-mb AWAn-mba AWAn-mbbk AWAn-bb

NORTH STAR BASALT
AWAn-mwsz Altered amphibolite and amphibolite schist; medium grained and variably foliated
AWAn-mb Metabasalt and metadolerite; local pillow structures
AWAn-mba Medium-grained, foliated amphibolite and amphibolite schist
AWAn-mbbk Carbonate-altered metabasalt; commonly schistose
AWAn-bb Basalt; generally massive; includes syn-volcanic dolerite intrusions; locally schistose; metamorphosed

AWAo-b AWAo-mwqq AWAo-mbq AWAo-mbs

Coonterunah Subgroup

AWAo-b **DOUBLE BAR FORMATION:** basalt; massive or pillowed; locally schistose; metamorphosed
AWAo-mwqq Silicified amphibolite and amphibolite schist; medium grained and variably foliated
AWAo-mbq Silicified metamafic volcanic rock
AWAo-mbs Mafic schist derived from basalt

AWAc-f AWAc-cci AWAc-xbb-fa

AWAc-f **COUCAL FORMATION:** felsic volcanic rocks; local felsic volcanic breccia; metamorphosed
AWAc-cci Ferruginous chert; includes cherty banded iron-formation and layered chert; metamorphosed
AWAc-xbb-fa Basalt and andesite; locally schistose; metamorphosed

AWAt-mwq

TABLE TOP FORMATION: amphibolite; metamorphosed mafic volcanic and intrusive rocks; locally schistose

East Pilbara Terrane
PILBARA CRATON

3022–3016 Ma

ARCHEAN

De Grey Supergroup

Soanesville Group

ASOy-ci ASOy-sh ASOy-shz

PYRAMID HILL FORMATION
ASOy-ci Banded iron-formation; minor chert and shale; metamorphosed
ASOy-sh Red-weathered, ferruginized, black shale; metamorphosed
ASOy-shz Silicified shale; grey, white, and black layered chert; metamorphosed

ASOh-b ASOh-mbbs ASOh-cc ASOh-bb ASOh-bk

ASOh-b **HONEYEATER BASALT:** massive and pillowed basalt and komatiitic basalt; locally vesicular; metamorphosed
ASOh-mbbs Schist derived from metabasalt
ASOh-cc Layered chert; metamorphosed
ASOh-bb Basalt; metamorphosed
ASOh-bk Komatiitic basalt; locally pillowed; metamorphosed

ASOp-mi ASOp-ccl ASOp-sh ASOp-shz ASOp-fdw

PADDY MARKET FORMATION
ASOp-mi Meta-iron formation
ASOp-cci Cherty banded iron-formation and chert; thinly bedded and partly jaspilitic; minor ferruginous shale; metamorphosed
ASOp-sh Red-weathered, ferruginized shale, grey-green shale, and siltstone; metamorphosed
ASOp-shz Silicified shale; grey and white layered secondary chert; metamorphosed
ASOp-fdw Massive to spherulitic dacite; metamorphosed

ASOc-xmt-mbs ASOc-mi ASOc-mtqm ASOc-sg ASOc-sp ASOc-ss ASOc-stq ASOc-sw

c.3190 Ma[7]
CORBOY FORMATION
ASOc-xmt-mbs Tectonically intercalated psammite (metamorphosed sandstone, partly lithic) and mafic schist
ASOc-mi Pelite; metamorphosed siltstone, mudstone, and shale
ASOc-mtqm Muscovite-bearing quartzite; minor pelite
ASOc-sg Pebble and cobble conglomerate and minor coarse-grained arkosic sandstone; metamorphosed
ASOc-sp Sandstone and minor interbedded conglomerate; local siltstone and shale; metamorphosed
ASOc-ss Sandstone, siltstone, and local conglomerate; metamorphosed
ASOc-stq Quartz sandstone and quartzite; locally fuchsitic; minor conglomerate and chert; metamorphosed
ASOc-sw Wacke and lithic arenite; local sandstone, conglomerate, shale; metamorphosed

ASOo-sh ASOo-shz ASOo-mfq

ASOo-sh **CARDINAL FORMATION:** red-weathered, ferruginized black shale, with minor siltstone; local banded iron-formation, chert, sandstone, and conglomerate; metamorphosed
ASOo-shz Silicified shale; variegated, layered secondary chert; metamorphosed
ASOo-mfq Secondary chert formed by silicification of fine-grained felsic volcaniclastic rocks; layered grey, white, and cream chert

PILBARA CRATON