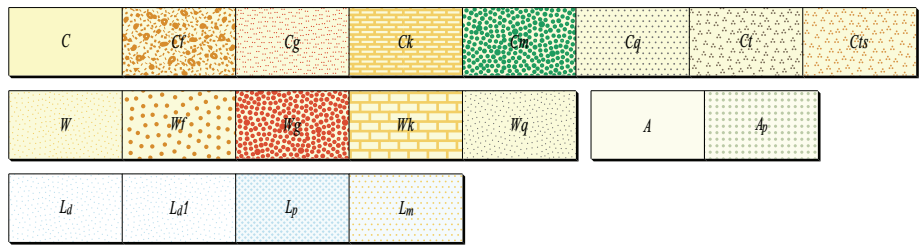
PHANEROZOIC

CAINOZOIC



Colluvial units

C	Colluvium derived from different rock types; includes gravel, sand, and silt
Cf	Ferruginous gravel and reworked ferruginous duricrust
Cg	Quartzofeldspathic gravel, sand, and silt, commonly derived from granitic rock and associated weathering products
Ck	Colluvium dominated by calcrete; includes loose nodules and irregular fragments
Cm	Colluvium derived from ferromagnesion rock
Cq	Quartz-vein debris
Cl	Lithic-rich colluvium
Cts	Lithic-rich colluvium predominantly from the Proterozoic **WOODLINE FORMATION**

Sheetwash units

W	Clay, silt, and sand in extensive fans; local ferruginous gravel
Wf	Clay, silt, and sand with abundant ferruginous grit
Wg	Clay, silt, and sand commonly derived from granitic rock
Wk	Clay, silt, and sand with abundant partially eroded calcrete nodules
Wq	Clay, silt, and sand with abundant quartz-vein debris

Alluvial units

A	Clay, silt, sand, and gravel in channels and on floodplains
Ap	Clay and silt in claypans

Lacustrine units

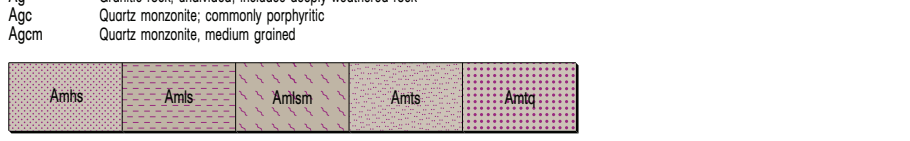
Ld	Sand, silt and gypsum in dunes adjacent to and within playa lakes
Ld1	Dune and lake deposits—active systems within and adjacent to playa lakes; non-vegetated or poorly vegetated
Lp	Saline and gypsiferous evapotite deposits, clay, silt, and sand in playa lakes
Lm	Mixed dune, evaporite, and alluvial deposits, typically adjacent to playa lakes

Lacustrine unit

Ld2	Stabilized dunes within and adjacent to playa lakes; typically vegetated

Sandplain unit

S	Residual and eolian sand with minor silt and clay; low, vegetated dunes locally



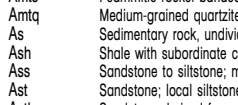
Residual and relict units

Rf	Ferruginous duricrust, massive to rubbly; includes iron-cemented reworked products
Rgpg	Quartzofeldspathic sand, gravel, and minor silcrete over granite; sparse granite outcrop; includes mottled and leached zones of weathering profile
Rk	Calcrete of residual origin; includes reworked carbonate products
Rmp	Residual, deep red, unconsolidated soil, overlying Proterozoic mafic and ultramafic rock
Rs	Quartz-rich residual sand; locally with an eolian component
Rz	Silcrete
Rzi	Ferruginous silcrete
Rzu	Silica caprock over ultramafic rock; local chalcedony and chrysoprase

PALAEOGENE

EOCENE

Eundynie Group



EeEU-s **Eundynie Group:** undivided; dominant sandstone; includes conglomerate, siltstone, mudstone, spongolitic or bituminous siltstone, calcareous sandstone, and bioclastic calcarenite; generally poorly indurated, locally silicified and with common ferruginous cappings

EeEU-kl Limestone, massive to weakly bedded; locally fossiliferous with gastropod, brachiopod, and bivalve fossils

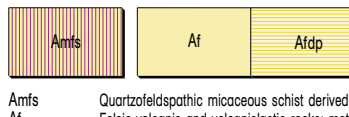
EUCLA BASIN

Albany–Fraser Orogeny, Stage 1 (1345–1260 Ma[1 2 3])

PROTEROZOIC

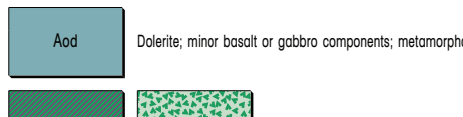
MESOPROTEROZOIC

c. 1293 Ma[4]



ƐmnBR Undivided gneiss
ƐmgnBR Granitic gneiss
ƐmguBR Granitic augen gneiss

c. 1301 Ma[4]



FRASER COMPLEX

Ɛfr-moa	Mafic gneiss, amphibole rich
Ɛfr-moo	Mafic granulite, orthopyroxene rich
Ɛfr-xmoo-mg	Mafic granulite, orthopyroxene rich and garnet-abundant metagranitic layers
Ɛfr-moom	Mafic granulite, orthopyroxene and magnetite rich

c. 1388 Ma[4]

Metasedimentary gneiss; quartz and garnet rich

c. 1670 Ma[5]

DALYUP GNEISS: granitic gneiss

BIRANUP COMPLEX

PALAEOPROTEROZOIC

>1620 Ma[6]

Ɛwo-s **WOODLINE FORMATION:** undivided; quartz sandstone, quartz conglomerate, and mudstone

Ɛwo-stq Quartz sandstone; minor conglomerate

Ɛwo-sxc Breccia composed of angular chert clasts

Widgiemooltha Dyke Suite

JIMBERLANA DYKE

ƐWlji-ax	Pyroxenite
ƐWlji-od	Dolerite, gabbro, gabbronorite, and norite
ƐWlji-ow	Norite

zq	Quartz vein or pod; massive, crystalline, or brecciated
g	Granitic dyke
gp	Pegmatite dyke

Amscm	Chlorite–muscovite schist
Amsm	Muscovite schist
Amsmg	Muscovite–garnet schist
Amsqm	Quartz–muscovite(–feldspar) schist

2660–2645 Ma[8 9]

Amgms	Foliated biotite monzogranite, medium to coarse grained; minor granodiorite and pegmatite dykes
Amgsn	Foliated and gneissic granitic rock; moderately to strongly foliated granite with local gneissic component
Amgsm	Foliated, muscovite-rich granite
Ag	Granitic rock, undivided; includes deeply weathered rock
Agc	Quartz monzonite; commonly porphyritic
Agcm	Quartz monzonite, medium grained

Amhs	Psammitic and pelitic rocks: banded quartzofeldspathic to chloritic schist, with interlayered quartz–mica schist derived from felsic and mafic igneous rocks
Amls	Pelitic rocks: includes minor psammite; commonly schistose
Amlsm	Pelitic rocks: commonly schistose with coarse-grained muscovite
Amts	Psammitic rocks: banded quartzofeldspathic schist
Amtq	Medium-grained quartzite: locally metamorphosed quartz siltstone and quartz–muscovite schist
As	Sedimentary rock, undivided; includes sandstone, siltstone, shale, and chert; metamorphosed; commonly deeply weathered
Ash	Shale with subordinate chert; minor siltstone and sandstone; variably foliated; commonly silicified; metamorphosed; may include some slate and phyllite
Ass	Sandstone to siltstone; metamorphosed
Ast	Sandstone; local siltstone; metamorphosed
Astb	Sandstone derived from mafic rock; metamorphosed
Akl	Limestone; metamorphosed
Accb	Grey-white banded chert, locally iron-rich; metamorphosed

Amfs	Quartzofeldspathic micaceous schist derived from felsic volcanic or volcaniclastic protolith
Af	Felsic volcanic and volcaniclastic rocks; metamorphosed; commonly deeply weathered and kaolinized
Afdp	Feldspar–quartz porphyritic rock; dacitic to rhyolitic; volcanic or subvolcanic; metamorphosed; locally schistose

Dolerite; minor basalt or gabbro components; metamorphosed

Ambs	Foliated, fine-grained mafic rock; metamorphosed
Abb	Basalt; locally porphyritic; metamorphosed; includes dolerite-textured zones and feldspar–hornblende or chlorite schist

ARCHAEAN

YILGARN CRATON