

Colluvial unit, age undivided or unassigned
C Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits

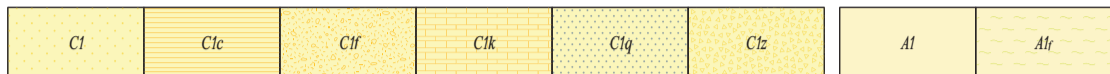
Sheetwash units, age undivided or unassigned
W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage
Wt Silt and sand; surface characterized by shallow depressions aligned perpendicular to slope; supports banded mosaic vegetation ('tiger bush')
Wc Clay, silt, and sand from saprolite and saprock
Wf Low-gradient deposits of ferruginous sand, silt, and gravel
Wk Distal sheetwash with calcrete cutans and carbonate cement
Wq Predominantly quartz-rich silt, sand, and gravel, derived from quartz veins and quartz-rich rock

Alluvial units, age undivided or unassigned
A Clay, silt, sand, and gravel in channels and on floodplains
Aa Sand- or clay-rich alluvium on alluvial plain
Ai Unconsolidated, fine-grained deposits in alluvial drainage depressions, claypans, and ephemeral floodplain lakes; low-lying areas with internal drainage

Lacustrine unit, age undivided or unassigned
Lp Clay, silt, and sand in playa lakes

Eolian units, age undivided or unassigned
Ei Unconsolidated to consolidated, quartz-dominated eolian sand in longitudinal dune field
Er Eolian sandplain

Sandplain unit, age undivided or unassigned
S Quartz sand of mixed origin; includes residual and eolian sands



Colluvial units, unconsolidated
Ct Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
Ctc Clay, quartz sand, and deeply weathered rock fragments; reworked saprolite and saprock
Ctf Unconsolidated ferruginous rubble and scree
Ctk Calcrete and vuggy opaline silica rubble and scree in an unconsolidated, sandy, carbonate-rich matrix
Ctq Unconsolidated quartz fragments in a silt and sand matrix; derived from quartz veins and quartzose rocks
Ctz Unconsolidated rubble and scree of silcrete and brecciated siliceous caprock

Alluvial units, unconsolidated
At Unconsolidated silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
Atr Unconsolidated silt, sand, and minor gravel in floodplains adjacent to present-day drainage

Alluvial unit, weakly consolidated
Az Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage

Alluvial unit, consolidated
Asti Sand and gravel with ferruginous cement; deeply dissected by present-day drainage

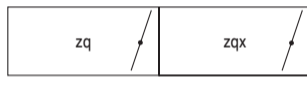
Residual or relict units
Rf Ferruginous deposits, including lateritic, ferruginous, and manganese duricrust
Rk Calcrete, developed in and adjacent to alluvial channels; carbonate and vuggy opaline silica; dissected by major present-day drainage
Rl Saprolite and saprock of uncertain protolith
Rz Silcrete and brecciated siliceous caprock



Winning Group
 KWN-sf Shale, siltstone, marl, and basal sandstone; commonly glauconitic; radiolarian siltstone in central part
 Knq-sz **NANUTARRA FORMATION:** sandstone, siltstone, lesser pebble to cobble conglomerate; texturally immature



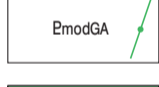
DEVONIAN
 Dmu-st **MUNABIA SANDSTONE:** medium-grained quartz sandstone; minor siltstone, conglomerate, and dolomite
 Dgn-sk **GNEUDNA FORMATION:** calcareous siltstone, limestone (mostly packstone, commonly silty); siltstone, fine- to medium-grained sandstone



NEOPROTEROZOIC
 zq Quartz vein or pod; massive, crystalline, or brecciated; age uncertain
 zqx Brecciated quartz vein; age uncertain

Mulka Tectonic Event (c. 570 Ma)
 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

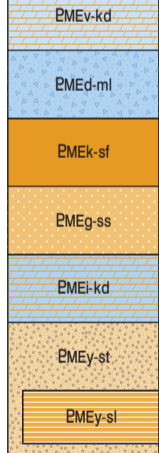
Edmundian Orogeny (1026–954 Ma²)
Mutherbukin Tectonic Event (1321–1171 Ma)



EmodGA Massive metadolerite and foliated amphibolite; fine and medium grained



Enr-od **NARIBUNNA DOLERITE:** dolerite and gabbro sills intruded into Edmund Group

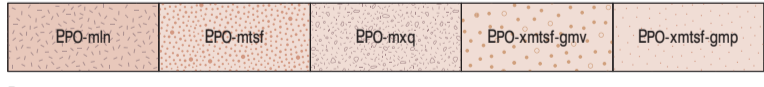


Edmund Group
 EMEv-kd **DEVIL CREEK FORMATION:** laminated dolostone and dolomitic siltstone; local thick-bedded dolerite
 EMEd-ml **DISCOVERY FORMATION:** metamorphosed silicified mudstone; locally with abundant pyrite
 EMEk-sf **KIANGI CREEK FORMATION:** siltstone and thin- to thick-bedded sandstone; minor conglomerate
 EMEg-ss **GOORAGOORA FORMATION:** fine- to very coarse grained sandstone and siltstone; minor conglomerate, dolostone, and dolomitic siltstone
 EMEi-kd **IRREGULLY FORMATION:** stromatolitic and non-stromatolitic dolostone; minor siltstone and sandstone
 EMEy-st **YILGATHERA FORMATION:** sandstone; subordinate siltstone, conglomerate, and dolostone
 EMEy-sl Siltstone; minor dolomitic siltstone and sandstone

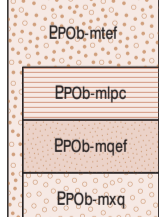


Mangaroo Orogeny (1682–1619 Ma³)

Durifacher Supersuite
 EDUdo-mgmu **DAVEY WELL GRANITE:** schistose, coarse-grained, strongly porphyritic biotite metamonzogranite; round phenocrysts of K-feldspar up to 6 cm in diameter
 EDU-mog Massive metagabbro with xenocrysts of quartz and K-feldspar
 EDUdi-grpv **DINGO CREEK GRANITE:** porphyritic biotite-muscovite monzogranite to syenogranite; fine- to medium-grained with thin, tabular K-feldspar phenocrysts defining a trachytic texture
 EDUpi-gmw **PIMBYANA GRANITE:** massive, medium-grained, megacrystic and porphyritic biotite(muscovite) monzogranite; tabular megacrysts of K-feldspar up to 7 cm long
 EDU-ggvs Schlieric, medium-grained biotite-muscovite granodiorite and minor flow-banded biotite-muscovite monzogranite, both with abundant inclusions of metasedimentary rock and augen gneiss
 EDU-gmp Fine- to medium-grained, biotite(-muscovite) monzogranite; porphyritic; contains small biotite-rich clots
 EDU-gmv Leucocratic, medium-grained muscovite-biotite granodiorite and monzogranite; equigranular to weakly porphyritic
 EDU-gmvt Leucocratic, medium-grained muscovite-tourmaline(-biotite) monzogranite; locally garnet bearing
 EDU-gpt Tourmaline-muscovite pegmatite and coarse-grained granite, and fine-grained, leucocratic tourmaline-muscovite monzogranite
 EDU-gmbi Fine- to medium-grained monzogranite to granodiorite; locally schlieric with abundant metasedimentary inclusions



Pooranoo Metamorphics
 EPO-mln Pelitic gneiss and granulites composed of biotite-muscovite-quartz-plagioclase-sillimanite; also includes migmatitic pelitic gneiss
 EPO-mtsf Psammitic schist and gneiss, and feldspathic metasandstone; includes interbedded pelite, quartzite, and granule metaconglomerate
 EPO-mxq Cobble- and pebble-metaconglomerate, and coarse-grained, granule and pebbly quartz metasandstone; minor quartz-muscovite schist
 EPO-xmtsf-gmv Psammitic schist with interlayered leucocratic muscovite monzogranite; minor pelitic schist
 EPO-xmtsf-gmp Psammitic schist with interlayered porphyritic biotite monzogranite; minor pelitic schist



Biddenev Formation: feldspathic metasandstone and minor feldspathic pebbly metasandstone; medium to coarse grained; locally ripple marked and cross-bedded
 Phyllite and slate; locally chlorite rich with magnetite porphyroblasts
 Coarse-grained, granule and pebbly feldspathic metasandstone; minor quartz-muscovite schist
 Cobble and boulder metaconglomerate; strongly foliated; locally includes quartzite and muscovite-quartz(-biotite) schist



Moorarie Supersuite
 EMO-mgg Fine- to medium-grained, foliated metagranodiorite; locally porphyritic
 EMO-mggn Foliated and gneissic metagranodiorite and metatonalite; weakly pegmatite banded
 EMO-mgmn Pale grey, foliated and gneissic metamonzogranite



Leake Spring Metamorphics
 ELS-mhs Pelitic and psammitic schist; quartz-biotite-muscovite-feldspar schist, quartz-sericite-biotite schist, quartz-sericite-chlorite schist; minor metasandstone and granule metaconglomerate
 ELS-mlsm Pelitic schist; muscovite-quartz-biotite-plagioclase-magnetite and quartz-muscovite-biotite-plagioclase schist
 ELS-mtq Fine- to medium-grained recrystallized quartzite; minor fine-grained sericitic quartzite
 ELS-mts Psammitic schist; quartz-chlorite-muscovite schist
 ELS-mlsd Psammitic schist; quartz-muscovite-chlorite-andalusite schist; minor muscovite-bearing quartzite
 ELS-mk Calc-silicate gneiss and schist; fine grained