

PHANEROZOIC

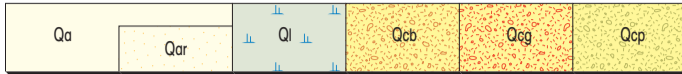
CAINOZOIC

QUATERNARY



Qb Beach sand—quartz and calcareous sand on beaches and in unstable dunes  
 Qt Consolidated coastal deposits—calcareous, locally shelly; forms consolidated dunes and foreshore reefs; equivalent to TAMALA LIMESTONE

Coastal deposits

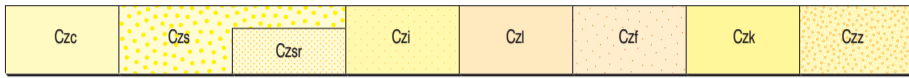


Qa Alluvium—clay, silt, sand, and gravel in channels  
 Qar Reworked Cainozoic deposits—clay, silt, and sand in broad floodplains of mature drainage  
 Ql Lacustrine deposits—clay and silt in claypans and swamps  
 Qcb Colluvium—rubble of boulders and sand derived from MOUNT BARREN GROUP; minor outcrops of MOUNT BARREN GROUP  
 Qcg Colluvium—rubble of boulders and sand derived from granitoid rock and granitoid gneiss; minor outcrops of granitoid rock  
 Qcp Colluvium—scree and sand derived from PALLINUP SILTSTONE

Inland deposits



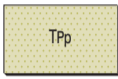
Czd Dune deposits—quartz sand and gypsum in stabilized dunes adjacent to playa lakes  
 Czp Playa deposits—saline and gypsiferous evaporites interbedded with clay, silt, and sand in playa lakes



Czc Colluvium—clay, silt, and rock fragments derived from greenstones  
 Czs Sandplain deposits—unconsolidated sand; remnants of peneplain  
 Czsr Sandplain, undulating; reworked Czs  
 Czi Sand with limonitic pisoliths and gravel  
 Czl Lateritic deposits—laterite, ferruginous duricrust, and ferricrete  
 Czf Ferruginous deposits—undifferentiated; mainly ferruginous quartz sand and granules, and angular rock fragments with ferruginous cement  
 Czk Calcrete  
 Czz Silcrete—angular quartz grains in siliceous cement; mainly developed over granitoid rock

TERTIARY

Plantagenet Group

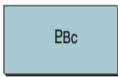


PALLINUP SILTSTONE: white to yellow to brown siltstone, silty sandstone, and spongolite; mainly deeply weathered

BREMEN BASIN

PROTEROZOIC

Mount Barren Group



COWERDUP SILL: dolerite and quartz dolerite, metamorphosed, and mafic to ultramafic schist



KYBULUP SCHIST: pelitic schist and phyllite with minor psammitic layers



Dolomite; metamorphosed; massive to finely bedded; locally ?stromatolitic; with calc-silicate rock and calcareous schist



KUNDIP QUARTZITE: quartzite, massive to coarsely bedded; minor pelitic beds



Oligomictic conglomerate; metamorphosed; quartzite clasts in psammitic matrix; massive to coarsely bedded



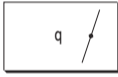
STEERE FORMATION:  
 Dolomite; metamorphosed; massive to finely bedded; locally ?stromatolitic



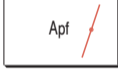
Dolerite dyke, partly interpreted from aerial photography; interpreted from aeromagnetic data where dashed

ALBANY—FRASER OROGEN

ARCHAEOAN



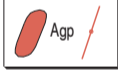
Quartz vein



Feldspar-quartz porphyry dyke



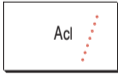
Biotite monzogranite and granodiorite; massive and weakly recrystallized



Pegmatite, granitic to tonalitic



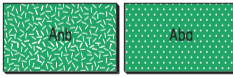
Agn Gneissic granitoid rock; includes trondhjemite, tonalite, granodiorite, and syenogranite  
 Agni Gneissic granitoid rock, mesocratic to leucocratic with some mafic bands



Limonitic unit (?after metamorphosed sulfides); massive to bedded



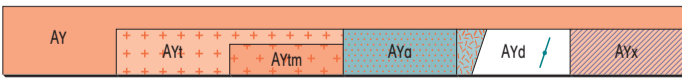
Al Metasedimentary rock, undivided; deeply weathered  
 Ald Quartz-feldspar-biotite-sillimanite schist with andalusite porphyroblasts  
 Alg Garnetiferous quartz-plagioclase-biotite schist; local cordierite, andalusite, and sillimanite  
 Alqm Micaceous quartzite and quartz-mica schist; local sillimanite, andalusite, and garnet  
 Ani Quartz-K-feldspar-sillimanite gneiss and granoblastic quartz-clinopyroxene-amphibole-(K-feldspar) rock  
 Anp Banded quartz-amphibole-plagioclase rock; local garnet; para-amphibolite



Anb Mafic gneiss; fine- to medium-grained, banded plagioclase-hornblende-quartz rock  
 Aba Amphibolite; fine- to medium-grained



Au Ultramafic rock, undivided; includes metamorphic talc-forsterite rock  
 Auk Komatiite; metamorphosed; chlorite-tremolite rock and schist  
 Aur Tremolite-rich rock and schist; local pseudomorphs after metamorphic olivine



AY MANYUTUP TONALITE: tonalitic complex; metamorphosed (Simplified Geology map and section only)  
 AYt Tonalite and quartz diorite; massive, coarse-grained and equigranular; metamorphosed  
 AYtm Tonalite, diorite, and tonalite porphyry; massive, medium-grained, and equigranular to porphyritic; metamorphosed  
 AYa Amphibolite; metamorphosed dolerite  
 AYd Dolerite; metamorphosed  
 AYx Pyroxenite; metamorphosed



AA ANNABELLE VOLCANICS: calc-alkaline volcanic association; metamorphosed (Simplified Geology map and section only)  
 AAv Mafic to intermediate tuff and agglomerate, and related epiclastic rocks (mainly andesite), subordinate dacite; metamorphosed  
 AAva Cordierite-gedrite rock; coarse-grained  
 AAvd Quartz-feldspar-(amphibole-biotite) gneiss; fine-grained; metamorphosed dacite  
 AAvn Quartz-plagioclase-amphibole gneiss; fine- to medium-grained; derived from AAv; local minor metasedimentary layer

Cocoranup greenstones

YILGARN CRATON

Ravensthorpe Terrane