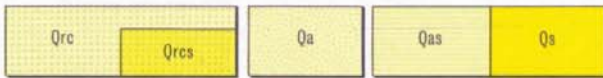


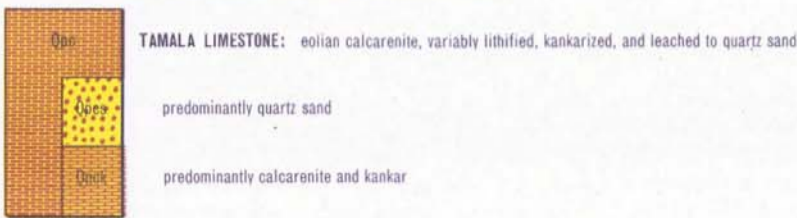
REFERENCE



Qrw Swamp and lacustrine deposits—peat, peaty sand and clay
 Qra Alluvium—clay, sand and loam
 Qrg Estuarine, lagoonal and lacustrine deposits—clay, silt, marl with shell beds
 Qro **HERSCHELL LIMESTONE:**—fossiliferous limestone and un lithified shell beds
 Qrs **SAFETY BAY SAND:** eolian and beach lime sand, slightly lithified
 Qrsm calcareous quartzose sand (mobile dunes)



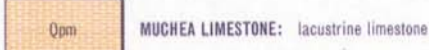
Qrc Colluvium, including valley-fill deposits, variably lateritized and podsolized
 Qrcs Colluvium, sand associated with older drainage courses
 Qa Alluvium and minor colluvium developed on laterite of the Darling Range
 Qas Sand—variously reworked, associated with older stream channels
 Qs Sand—bright yellow, hummocky deposits marginal to stream channels



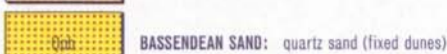
TAMALA LIMESTONE: eolian calcarenite, variably lithified, kankarized, and leached to quartz sand

predominantly quartz sand

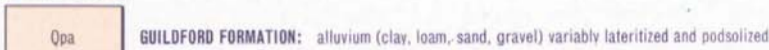
predominantly calcarenite and kankar



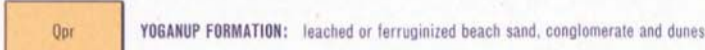
MUCCHA LIMESTONE: lacustrine limestone



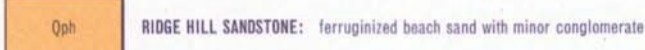
BASSENDEAN SAND: quartz sand (fixed dunes)



GUILDFORD FORMATION: alluvium (clay, loam, sand, gravel) variably lateritized and podsolized



YOGANUP FORMATION: leached or ferruginized beach sand, conglomerate and dunes



RIDGE HILL SANDSTONE: ferruginized beach sand with minor conglomerate



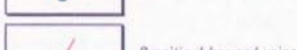
Czl Laterite—chiefly massive, but includes overlying pisolithic gravel and lateritized sand
 Czs Sand overlying laterite—yellow, white or grey
 Czc Conglomerate—unsorted clay, sand, cobbles and boulders



Mafic dykes—fine to coarse-grained doleritic and gabbroic dykes, variously altered



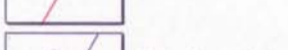
Xenolithic mafic dykes—doleritic dykes with abundant quartzofeldspathic xenoliths



Granitic dykes and veins



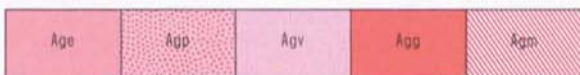
Pegmatite veins



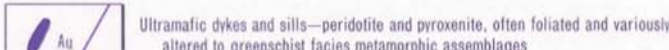
Quartz dykes and veins



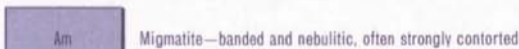
Cardup Group: predominantly white to black shale, with bands of conglomerate, orthoquartzite and sandstone



Age Even-grained granitic rocks—fine to coarse-grained granodiorite, adamellite and granite
 App Porphyritic granite—medium to coarse-grained granite with microcline megacrysts
 Agv Fine to medium-grained adamellite and granite with scattered microcline megacrysts
 Agg Leucocratic adamellite, fine to coarse-grained with abundant pegmatite
 Agm Mixed granitic rocks, chiefly interdeveloped even-grained and porphyritic granite



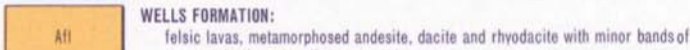
Ultramafic dykes and sills—peridotite and pyroxenite, often foliated and variously altered to greenschist facies metamorphic assemblages



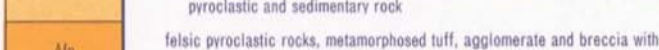
Migmatite—banded and nebulitic, often strongly contorted



MARRADONG FORMATION: mafic volcanic rocks, metabasalt with minor bands of metasediment



WELLS FORMATION: felsic lavas, metamorphosed andesite, dacite and rhyodacite with minor bands of pyroclastic and sedimentary rock



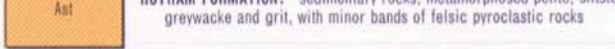
felsic pyroclastic rocks, metamorphosed tuff, agglomerate and breccia with minor units of felsic lava and sediment



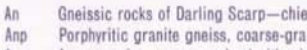
chloritoid schist



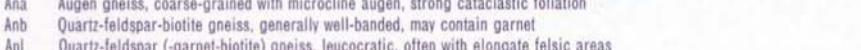
HOTHAM FORMATION: sedimentary rocks, metamorphosed pelite, siltstone, greywacke and grit, with minor bands of felsic pyroclastic rocks



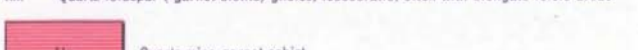
An Gneissic rocks of Darling Scarp—chiefly hornblende gneiss and blastomylonite, with some paragneiss and porphyritic/augen gneiss
 Anp Porphyritic granite gneiss, coarse-grained with abundant tabular megacrysts of microcline
 Ana Augen gneiss, coarse-grained with microcline augen, strong cataclastic foliation
 Anb Quartz-feldspar-biotite gneiss, generally well-banded, may contain garnet
 Anl Quartz-feldspar (-garnet-biotite) gneiss, leucocratic, often with elongate felsic areas



Quartz-mica-garnet schist



Amphibolite, hornblende-plagioclase, some cummingtonite-plagioclase rocks, also includes minor hornblende



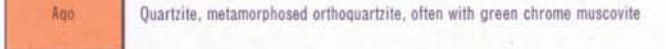
Quartzite, metamorphosed orthoquartzite, often with green chrome muscovite



Ai Undifferentiated—chiefly quartz-magnetite-grunerite-clinopyroxene assemblages
 AiQ Banded magnetite-bearing quartzite



Mafic granulite, hornblende and/or pyroxene-rich assemblages



Overprint, indicating bedrock largely obscured by residual and colluvial deposits

PHANEROZOIC
CAINOZOIC

QUATERNARY

PLEISTOCENE

? TERTIARY

PROTEROZOIC
PRECAMBRIAN UNDETERMINED

ARCHAEAN

Saddleback Group

Banded iron-formations