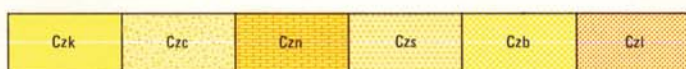


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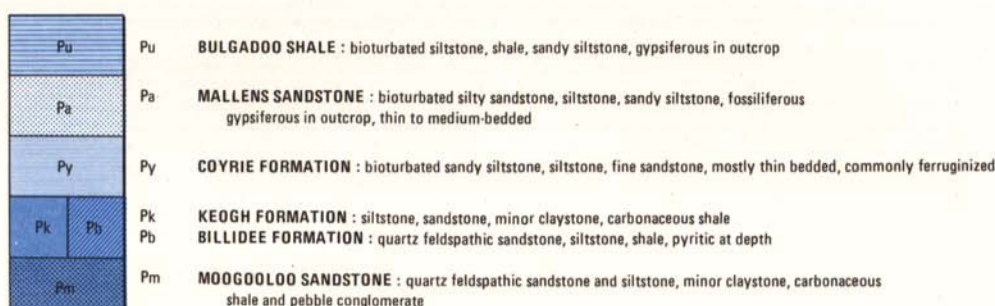


Qa Alluvium - unconsolidated silt, sand and gravel associated with watercourses  
 Ql Alluvium - clay, sand, silt and grit pebbles in playa lakes; saline  
 Qw Alluvium - unconsolidated silt and sand in sheetwash and piedmont plains overlying Tertiary hardpan surfaces; often with banks of windblown sand  
 Qc Colluvium - unconsolidated silt, sand, gravel and rubble forming scree and talus slopes  
 Qs Eolian and residual sand



Czk Calcrete, in part replaced by opaline silica  
 Czc Hardpan - consolidated and semi-consolidated colluvium and alluvium, silt, sand, gravel; commonly dissected  
 Czn **NADARRA FORMATION**: lacustrine limestone, includes minor calcrete  
 Czs Older eolianite, residual sand, semi-consolidated  
 Czb Silcrete, intensely silicified sandstone  
 Czl Laterite, pisolitic and vermiform ironstone, minor ferruginized bedrock

**TP** **PINDILYA FORMATION**: sandstone, conglomerate, minor siltstone

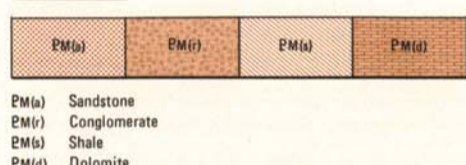


Pu **BULGADOO SHALE**: bioturbated siltstone, shale, sandy siltstone, gypsiferous in outcrop  
 Pa **MALLENS SANDSTONE**: bioturbated silty sandstone, siltstone, sandy siltstone, fossiliferous gypsiferous in outcrop, thin to medium-bedded  
 Py **COYSIE FORMATION**: bioturbated sandy siltstone, siltstone, fine sandstone, mostly thin bedded, commonly ferruginized  
 Pk **KEOGH FORMATION**: siltstone, sandstone, minor claystone, carbonaceous shale  
 Pb **BILLIDEE FORMATION**: quartz feldspathic sandstone, siltstone, shale, pyritic at depth  
 Pm **MOOGOOLOO SANDSTONE**: quartz feldspathic sandstone and siltstone, minor claystone, carbonaceous shale and pebble conglomerate



b Dolerite (or gabbro) sill or plug; d dolerite dyke (may be weakly metamorphosed) of variable Proterozoic age  
 q Quartz vein

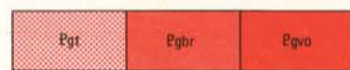
**Badgeradda Group**  
**PU<sub>s</sub>** **ERRABIDY SANDSTONE**: cross-bedded feldspathic sandstone



**MOUNT JAMES FORMATION**  
 EJa Metamorphosed, foliated quartz arenite, with thin metaconglomerate lenses in some areas  
 EJr Metaconglomerate  
 EJp Phyllite slate, graphitic in some areas, includes psammitic schists and thin quartzite in the Coor-de-Wandy area  
 EJd Thin dolomite lenses



Edm Plagioclase-actinolite-tremolite rock; metadolerite or metagabbro  
 Eu Serpentine-tremolite-actinolite-chlorite-talc assemblages



Egt Hornblende-biotite tonalite; medium to coarse-grained, foliated  
 Egr Biotite granodiorite or adamellite; coarse, medium and fine-grained  
 Egvo Biotite (-muscovite) adamellite or granite with ovoid bodies and clusters of tourmaline, foliated in part

Late-stage granitoids



Egl Gneissic biotite granite, adamellite and granodiorite, has microcline augen or laths; coarse to medium-grained  
 Egs Gneissic biotite (-hornblende) granodiorite; coarse, medium and fine-grained  
 Egbp Gneissic biotite (-muscovite) adamellite and granite; dominantly medium-grained, some phases are porphyritic  
 Egb Mixed grey, gneissic biotite granodiorite and biotite-muscovite adamellite and pegmatite  
 Egm Muscovite (-biotite) granite and leucogranite; medium and fine-grained, may have rafts and fragments of schist, migmatitic in part, foliated  
 Egm Weakly banded, coarse-grained, biotite (-muscovite) tonalite to adamellite; commonly has stictolitic structure and biotite schlieren; transitional phase between migmatite and homogenous granitoid

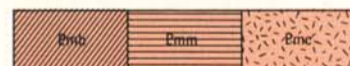
Early-stage gneissic granitoids



Elm Quartz-sericite-muscovite-chlorite (-magnetite-tourmaline-biotite-chloritoid) schist, retrograde in part  
 Eqm Foliated quartzite and micaceous quartzite



Enl Quartz-feldspar-biotite-muscovite paragneiss and schist with interfoliated quartz-biotite-muscovite-garnet (-sillimanite) schist and calc-silicate gneiss; has muscovite granitoid and pegmatoid phases, migmatite in part  
 Enc Tremolite-actinolite-quartz-plagioclase-epidote (-hornblende-clinopyroxene-garnet) compositionally layered assemblages; calc-silicate gneiss  
 Enm Dolomite-calcite (-tremolite-actinolite-chlorite-quartz-serpentine-phlogopite) marble  
 Ena Hornblende-plagioclase (-actinolite-epidote) amphibolite

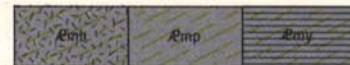


Emb Migmatite with a palaeosome of paragneiss and schist and a neosome of biotite (-muscovite) granitoid and pegmatite  
 Emm Migmatite with a palaeosome of mainly pelitic schist, also minor paragneiss, calc-silicate gneiss and amphibolite, and a neosome of muscovite (-biotite) adamellite, granite and pegmatite; commonly has tourmaline  
 Emc Migmatite with a palaeosome of calc-silicate gneiss, amphibolite, marble, pelitic schist and quartz-feldspathic gneiss and a neosome of muscovite biotite granite and adamellite

**A** denotes Archaean rocks which have been deformed and metamorphosed, or partially melted during Proterozoic orogenesis

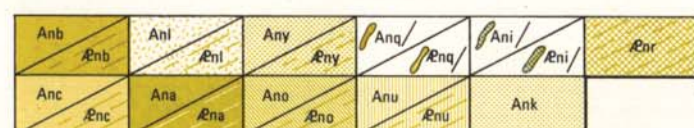


Agb Biotite adamellite; coarse to medium-grained  
 Agl Porphyritic or seriate, biotite poor granodiorite; medium and fine-grained  
 Agla Gneissic biotite granite adamellite and granodiorite, generally has microcline augen and/or laths; coarse to medium-grained; includes porphyritic, seriate and even-grained phases  
 Agbp Gneissic biotite (-muscovite) adamellite and granite; medium-grained



Amb Migmatite with banded microcline-plagioclase-quartz-biotite gneiss and 30% or more anatectic, biotite adamellite and granite  
 Amp Migmatite with fine-grained, banded, biotite tonalite or granodiorite gneiss, various amounts of amphibolite, and 30% or more anatectic biotite granodiorite  
 Amy Pelitic and mafic granofels with migmatitic, quartz-feldspathic gneiss

Archaean gneissic terrain which has undergone Proterozoic anatexis



Anb Banded, microcline-plagioclase-quartz-biotite gneiss; coarse to fine-grained, migmatitic in part  
 Anl Quartz-feldspar-biotite-muscovite (-staurolite) paragneiss and schist  
 Any An association of pelitic and mafic granofels; pelitic granofels consists of quartz-biotite-cordierite-sillimanite-garnet-muscovite (-oligoclase-microcline-clinopyroxene-kyanite); mafic granofels has hornblende-pyroxene-pagioclase  
 Anq Quartzite and micaceous quartzite  
 Ani Quartz-magnetite (-grunerite-garnet) rock, includes metamorphosed banded iron-formation  
 Anr Quartz-graphite-albite-muscovite (-tremolite-garnet-chlorite) paragneiss and schist  
 Anc Tremolite-actinolite-hornblende-epidote-quartz-plagioclase (-clinopyroxene-garnet) compositionally layered assemblages; calc-silicate and amphibolite  
 Ana Hornblende-plagioclase (-actinolite-epidote-clinopyroxene) amphibolite  
 Ano Hornblende-clinopyroxene-hypersthene-bytownite-quartz granofels  
 Anu Serpentine-tremolite-actinolite-talc-chlorite assemblages; silicified cap-rock in places  
 Ank Albite-quartz-clinopyroxene (-amphibole) granofels; alkaline anorthosite

CAINOZOIC

QUATERNARY

TERTIARY

?MIOCENE - PLEISTOCENE

PALAEZOIC

PERMIAN

ARTINSKIAN

Wooram Group

Byro Group

LATE CARBONIFEROUS

SAKMARIAN

LATE PROTEROZOIC

EARLY PROTEROZOIC

ARCHAEAN