

Colluvial units

- Cgpz** Quartzofeldspathic sand, silt, and gravel in colluvial deposits derived from granitic rocks
- Cgs** Quartzofeldspathic sand, silt, and gravel in colluvial deposits derived from sedimentary rocks
- Ckc** Carbonate-rich colluvial deposits derived from biochemical sedimentary rocks; dolomite and limestone
- Cmpz** Ferromagnesian colluvial deposits and lateritic soils derived from dolerite
- Cmvz** Ferromagnesian, red-brown sand and silt, with pisoliths; derived from basalt
- Cqs** Quartz-rich sand, silt and gravel in colluvial deposits derived from sedimentary rocks
- Ccs** Micaceous colluvium derived from sedimentary rocks

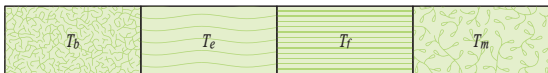


Sheetwash unit

- W** Clay, silt, sand, and ferruginous pisoliths in localized fans

Alluvial units

- A** Clay, silt, sand, and gravel in channels and on floodplains
- Aoc** Black soils (gilgai); grey to black smectitic clays on alluvial plains



Coastal (tide-dominated) units

- Tb** Sand, silt, and mud in tidal channels
- Te** Estuary
- Tf** Sand, silt, and mud on tidal flats; locally with salt crust
- Tm** Sand, silt, and mud on mangrove flats



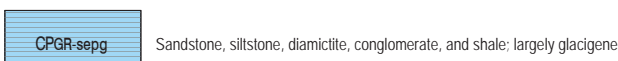
Residual or relict unit

- Rr** Residual sand; locally iron-rich and rubby, containing ferruginous pisoliths and nodules



Residual or relict units

- Rrwb** In situ weathered basalt
- Rrpn** Ferruginous duricrust derived from dolerite
- Rrfs** Ferruginous duricrust, massive to rubby; derived from siliciclastic sedimentary rocks; includes iron-cemented reworked product
- Rrnb** Ferruginous duricrust: pisolitic and locally rubby; indurated weathered basalt as mesas and caps



Sandstone, siltstone, diamictite, conglomerate, and shale; largely glaciogene



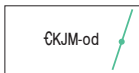
NULLARA LIMESTONE: well-bedded microbial, oolitic and peloidal limestone; locally dolomitized, sandy, or conglomeratic; Famennian back-reef platform facies in carbonate reef complexes



Dno-ktxi **NAPIER FORMATION:** well-bedded to massive fore-reef, reefal slope, and basalinal limestone; locally dolomitized and steeply dipping; locally microbial and sponge rich; some allochthonous blocks and debris flows, some sandstone (section only)

Dve-sbp **VAN EMMERICK CONGLOMERATE:** siliciclastic cobble to boulder conglomerate, minor sandstone and interbedded limestone; Frasnian and Famennian platform- to basin-level conglomerates associated with carbonate reef complexes

c. 510 Ma



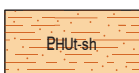
MILLIWINDI DOLERITE: dolerite dyke



Quartz vein; massive, crystalline, or brecciated; various ages from Paleoproterozoic to Phanerozoic



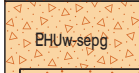
Dolerite dykes crosscutting the Paperbark Supersuite; commonly metamorphosed to amphibolite facies



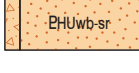
THROSELL SHALE: blue-grey or grey-green, poorly laminated, micaceous siltstone with minor shale interbeds; coarsening upwards with grey-green, fine-grained, flaggy, laminated, micaceous sandstone interbeds



TRAINE FORMATION: green to brown, coarse-grained, lithic sandstone with minor sandy dolomite and dolomitic sandstone; scattered glacial erratics up to 2.5 m diameter



WALSH TILLITE: matrix-supported, polymictic pebble to boulder tillite, green siltstone and shale matrix; capped by microbial to stromatolitic dolomite



Beverley Springs Member: poorly sorted, pebbly quartz sandstone

c. 1784 Ma



HART DOLERITE: dark-grey dolerite and gabbro, and pink to pale-grey, medium- to coarse-grained granophyre

Pink to pale-grey, medium- to coarse-grained granophyre



EKMp-st **PENTECOST SANDSTONE:** quartz sandstone, pebbly sandstone, siltstone, and claystone (section only)

EKMp-stq Lower unit: quartz sandstone, feldspathic sandstone, and micaceous siltstone



ELGEE SILTSTONE: red-brown and grey siltstone and mudstone, stromatolitic dolostone, sandy dolostone, oolitic dolostone, and sandstone



WARTON SANDSTONE: white to buff quartz sandstone and feldspathic sandstone; siltstone interbeds: minor hematitic sandstone

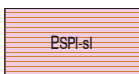


CARSON VOLCANICS: massive and amygdaloidal basalt and basaltic volcanoclastic rock; interbedded quartz sandstone, feldspathic sandstone, siltstone, and mudstone



KING LEOPOLD SANDSTONE: white to pale-brown, medium- to coarse-grained quartz sandstone and pebbly quartz sandstone; minor siltstone and granule to pebble conglomerate

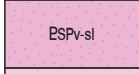
c. 1835 Ma



LUMAN SILTSTONE: green and brown siltstone, mudstone, and thin-bedded sandstone; ferruginous, micaceous siltstone



LANSDOWNE ARKOSE: thin-bedded, purple-brown, grey, and white feldspathic sandstone with interbedded quartz sandstone; minor micaceous siltstone and mudstone



VALENTINE SILTSTONE: flaggy siltstone and mudstone, commonly micaceous or chloritic; minor, thin-bedded, feldspathic quartz sandstone and dacitic to rhyolitic, volcanoclastic siltstone

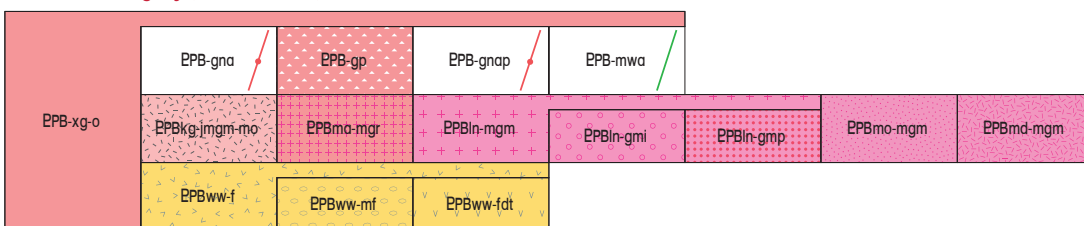


TUNGANARY FORMATION: buff and grey feldspathic sandstone, quartz sandstone, brown and green siltstone and mudstone



O'DONNELL FORMATION: fine- to coarse-grained quartz sandstone and lithic quartz sandstone, pebbly sandstone, chloritic siltstone and mudstone, and granule to pebble conglomerate

Halls Creek Orogeny (1832–1808 Ma)



EPB-xg-o Granite, microgranite, gabbro, layered mafic-ultramafic intrusions, and felsic volcanic rock (section only)

EPB-gna Aplitic dyke; crosscutting earlier rocks of the Paperbark Supersuite

EPB-gp Pegmatite

EPB-gnap Quartz-feldspar porphyritic microgranite; as dykes crosscutting earlier rocks of the Paperbark Supersuite

EPB-mwa Isolated dykes of amphibolite

EPBkg-jmgm-mo **KONGOROW GRANITE:** foliated, porphyritic, biotite-rich metamonzogranite and metagranodiorite; contains mafic inclusions and mafic bands

EPBmo-mgr **MOUNT AMY GRANITE:** foliated biotite-muscovite metasyenogranite; weakly porphyritic

EPBln-mgm **LENNARD GRANITE:** foliated, coarse-grained, porphyritic biotite metasyenogranite; minor metasyenogranite, metagranodiorite, and equigranular metamonzogranite

EPBln-gmi Monzogranite with zones rich in xenoliths of metasedimentary rocks

EPBln-gmp Coarse-grained, porphyritic monzogranite

EPBmo-mgm **MONDOOMA GRANITE:** foliated biotite metamicromonzogranite with quartz phenocrysts; minor metasyenogranite and metagranodiorite

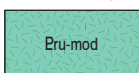
EPBmd-mgm **MOUNT DISASTER PORPHYRY:** foliated, porphyritic, biotite metamicromonzogranite; phenocrysts of K-feldspar, plagioclase, and quartz

EPBww-f **WHITEWATER VOLCANICS:** porphyritic rhyolite to dacite; coherent lavas, subvolcanic intrusions, and pyroclastic deposits; commonly crystal rich; minor volcanic breccia, lapilli tuff, and volcanoclastic rock; locally foliated

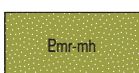
EPBww-mf Foliated, crystal-poor, porphyritic metadacite and metarhyodacite; metamorphosed lava, tuff, and volcanic breccia

EPBww-tdt Dacitic and minor rhyodacitic ash-flow tuff; biotite rich

Hooper Orogeny (1870–1850 Ma)



RUINS DOLERITE: coarse- to fine-grained metadolerite; equigranular to porphyritic



MARBOO FORMATION: thin-bedded, turbiditic metasandstone and quartz-chlorite-muscovite phyllite; hornfelsed adjacent to granite intrusions