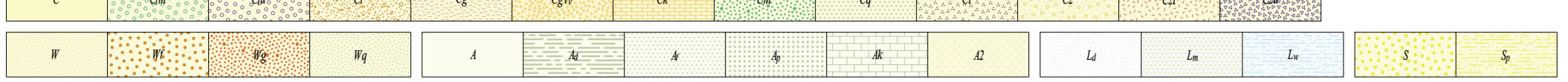


PHANEROZOIC  
CENOZOIC

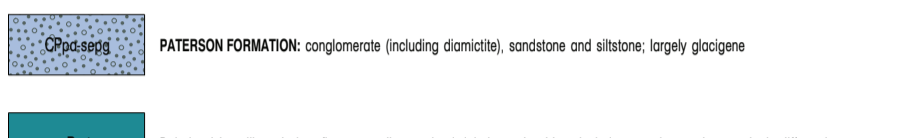


- Colluvial units**  
C Colluvium derived from different rock types; includes gravel, sand, and silt  
Cm Mafic talus  
Cu Ultramafic talus  
CF Ferruginous gravel and reworked ferruginous duricrust  
Cg Quartzfeldspathic gravel, sand, and silt; commonly derived from granitic rock and associated weathering products  
Cgv Quartzfeldspathic gravel, sand, and silt; derived from felsic volcanoclastic rock  
Ck Colluvium dominated by calcareite; includes loose nodules and irregular fragments  
Cm Colluvium derived from ferromagnesian rock  
Cq Quartz-vein debris  
Cl Lithic-rich colluvium  
Cz Colluvium dominated by silcrete debris  
Czi Colluvium dominated by ferruginous silcrete debris  
Czu Colluvium derived from silica caprock above ultramafic rocks
- Sheetwash units**  
W Clay, silt, and sand in extensive fans, local ferruginous gravel  
Wf Clay, silt, and sand with abundant ferruginous grit  
Wg Clay, silt, and sand; commonly derived from granitic rock  
Wq Clay, silt, and sand with abundant quartz-vein grit
- Alluvial units**  
A Clay, silt, sand, and gravel in channels and on floodplains  
Au Clay, silt, and sand in braided swales on floodplains  
Aa Clay, silt, and sand on floodplains  
As Clay and silt in clayspates  
Ak Calcareite and carbonate-cemented alluvium in fluvial channels  
Ad Moderately to strongly indurated sand, with locally abundant pebbles, and minor silt and clay; restricted to old valley systems
- Lacustrine units**  
Ld Sand, silt, and gypsum in dunes adjacent to, and within plays lakes  
Lm Mixed dune, evaporite, and alluvial deposits; typically adjacent to plays lakes  
Lw Clay and silt in swamps
- Sandplain units**  
S Residual and eolian sand with minor silt and clay; low, vegetated dunes locally common  
Sp Sand and plays terrain; dunes dominant

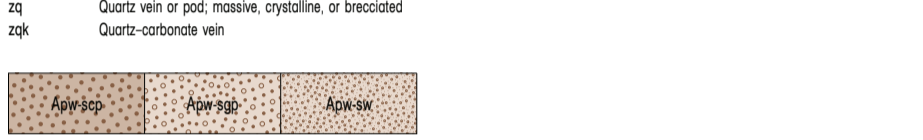


- Residual and relict units**  
Rf Ferruginous duricrust, massive to rubby; includes iron-cemented reworked products  
Rfu Ferruginous duricrust, massive to rubby; over dunite or metamorphic derivatives thereof  
Rz Silcrete  
Rzi Ferruginous silcrete  
Rzfp Siliceous duricrust over granite  
Rzu Silica caprock over ultramafic rock; local chalcodony and chrysoprase  
Rzfpv Quartzfeldspathic sand and minor silcrete over granite; sparse granite outcrop; includes mafic and leached zones of weathering profile  
Rd Yellow sand with minor plastic laterite, ferruginized silcrete, silt, and clay, common on low plateaus associated with weathered granitic rock  
Rzi Koolinitized granite  
Rd Undivided residual or relict material; mainly ferruginous and siliceous duricrust; minor calcareite and koolinitized rock  
Rk Calcareite of residual origin; includes reworked carbonate products  
Rw Deeply weathered rock; protolith undetermined

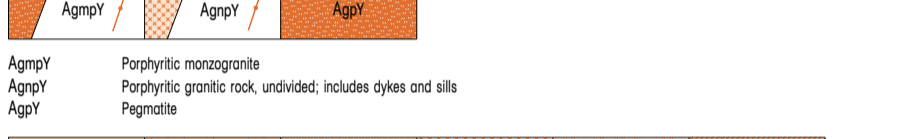
PALEOZOIC  
CARBONIFEROUS-PERMIAN



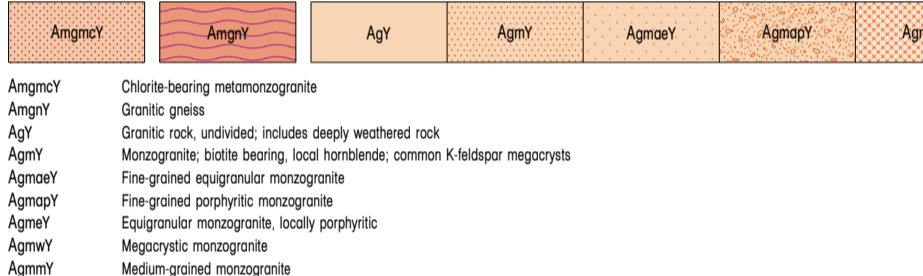
- PATERSON FORMATION** (including domiticite, sandstone and siltstone; largely glaciogenic)  
Ebd Dolerite dyke, sill, and plug; fine- to medium-grained dolerite and gabbro; includes cumulate and granophytic differentiates
- zq Quartz vein or pod; massive, crystalline, or brecciated  
zqk Quartz-carbonate vein



- FIG WELL FORMATION**  
Apw-scp Polyimitic conglomerate; metamorphosed  
Apw-sgp Polyimitic conglomerate and sandstone; metamorphosed  
Apw-sw Lithic wacke; metamorphosed

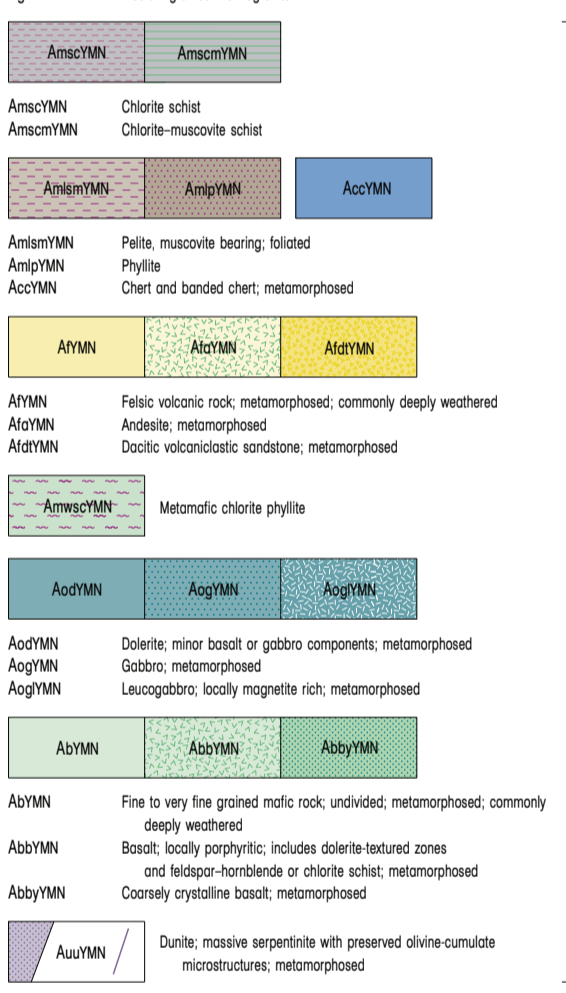


- MONUMENT GRANITE**  
Amm-g Granitic rock, undivided; includes deeply weathered rock  
Amm-ggah Equigranular hornblende granodiorite  
Amm-gmb Monzogranite; biotite bearing; local hornblende; common K-feldspar megacrysts  
Amm-gne Equigranular monzogranite; locally porphyritic  
Amm-gng Megacrystic monzogranite  
Amm-gnp Porphyritic monzogranite

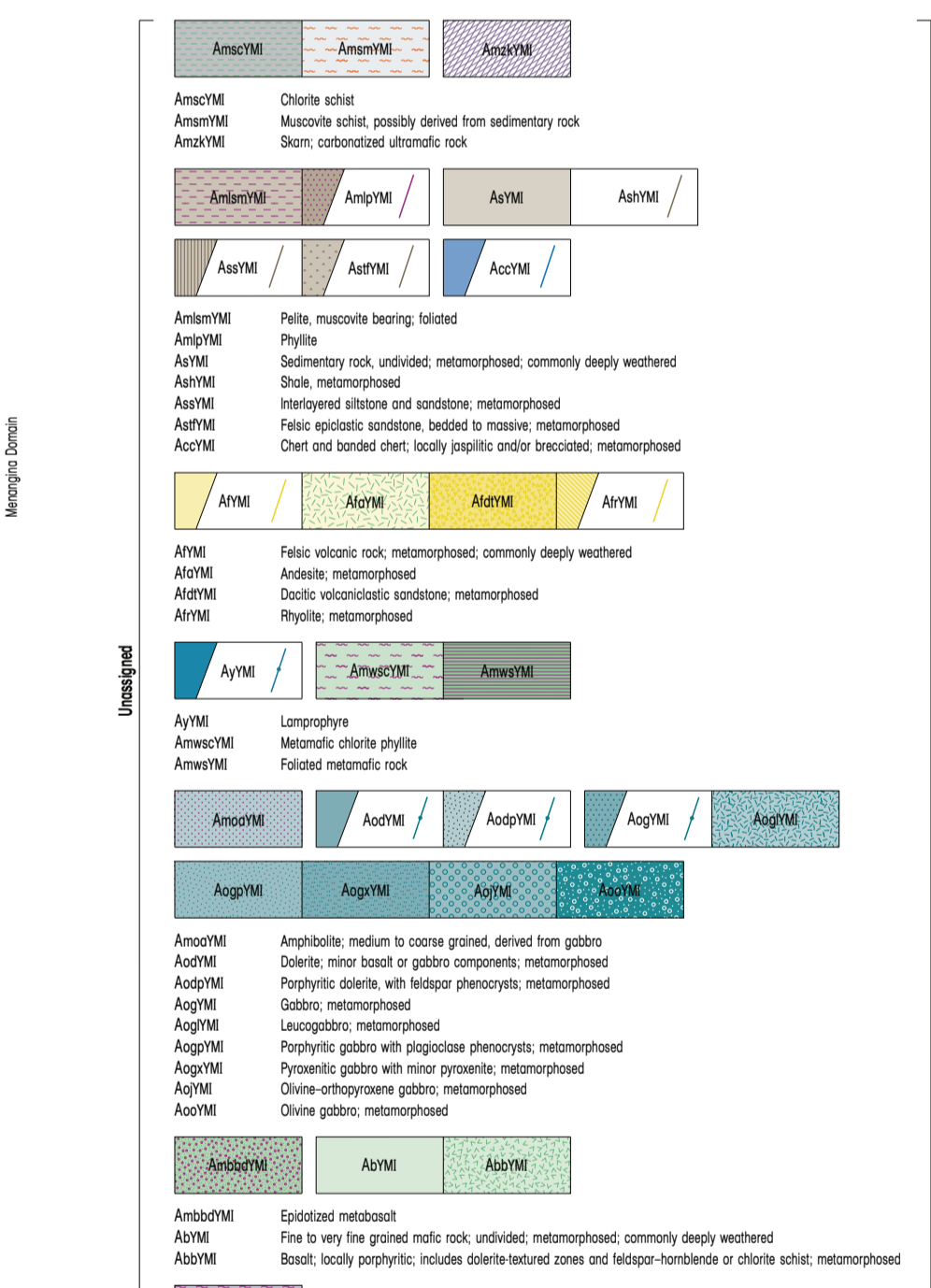


- AmgnCY Chlorite-bearing metamonzogranite  
AmgnT Granitic gneiss  
AgY Granitic rock, undivided; includes deeply weathered rock  
AgMY Monzogranite; biotite bearing; local hornblende; common K-feldspar megacrysts  
AgmaeY Fine-grained equigranular monzogranite  
AgmpY Fine-grained porphyritic monzogranite  
AgmeY Equigranular monzogranite; locally porphyritic  
AgmY Megacrystic monzogranite  
AgmMY Medium-grained monzogranite

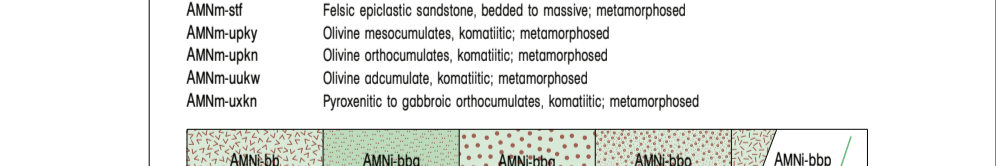
ARCHEAN



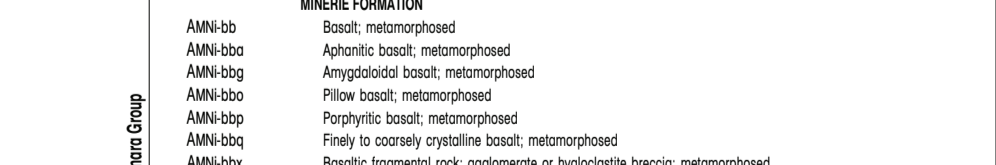
- AmscYMN Chlorite schist  
AmkemYMN Pelite, muscovite bearing; foliated  
AmjYMN Phyllite  
AccYMN Chert and banded chert; metamorphosed
- AHYMN Felsic volcanic rock; metamorphosed; commonly deeply weathered  
AfoYMN Andesite; metamorphosed  
AdiYMN Dacitic volcanoclastic sandstone; metamorphosed
- AmwscYMN Metamorphic chlorite phyllite
- AodYMN Dolerite; minor basalt or gabbro components; metamorphosed  
AogYMN Gabbro; metamorphosed  
AogyMN Leucogabbro; locally magnetite rich; metamorphosed
- AbYMN Fine to very fine grained mafic rock; undivided; metamorphosed; commonly deeply weathered  
AbbYMN Basalt; locally porphyritic; includes dolerite-textured zones and feldspar-hornblende or chlorite schist; metamorphosed  
AbbyYMN Coarsely crystalline basalt; metamorphosed
- AauYMN Dunite; massive serpentine with preserved olivine-cumulate microstructures; metamorphosed



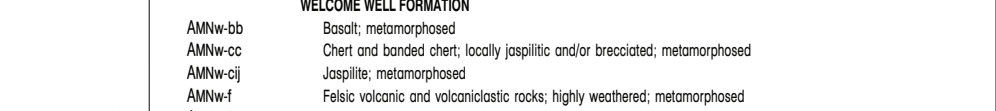
- AmscYMI Chlorite schist  
AmismYMI Muscovite schist, possibly derived from sedimentary rock  
AmzYMI Skarn; carbonized ultramafic rock
- AmismYMI Pelite, muscovite bearing; foliated  
AmpYMI Phyllite  
AsYMI Sedimentary rock, undivided; metamorphosed; commonly deeply weathered  
AshYMI Shale; metamorphosed  
AsyYMI Interlayered siltstone and sandstone; metamorphosed  
AsfYMI Felsic epidiolite sandstone, bedded to massive; metamorphosed  
AccYMI Chert and banded chert; locally jaspillic and/or brecciated; metamorphosed
- AfYMI Felsic volcanic rock; metamorphosed; commonly deeply weathered  
AfoYMI Andesite; metamorphosed  
AdiYMI Dacitic volcanoclastic sandstone; metamorphosed  
AfyMI Rhyolite; metamorphosed
- AyYMI Lamprophyre  
AmwscYMI Metamorphic chlorite phyllite  
AmwYMI Foliated metamorphic rock
- AmooYMI Amphibolite; medium to coarse grained; derived from gabbro  
AodYMI Dolerite; minor basalt or gabbro components; metamorphosed  
AocpYMI Porphyritic dolerite, with feldspar phenocrysts; metamorphosed  
AogyMI Gabbro; metamorphosed  
AogpYMI Leucogabbro; metamorphosed  
AogfYMI Porphyritic gabbro with plagioclase phenocrysts; metamorphosed  
AqfYMI Pyroxenitic gabbro with minor pyroxene; metamorphosed  
AqYMI Olivine-orthopyroxene gabbro; metamorphosed  
AooYMI Olivine gabbro; metamorphosed
- AmbdYMI Epidiolite metabasalt  
AbYMI Fine to very fine grained mafic rock; undivided; metamorphosed; commonly deeply weathered  
AbbYMI Basalt; locally porphyritic; includes dolerite-textured zones and feldspar-hornblende or chlorite schist; metamorphosed
- AmadYMI Serpentine



- MURRIN MURRIN FORMATION**  
AMNm-mut Serpentine  
AMNm-bby Coarsely crystalline basalt with local pyroxene spinifex texture; metamorphosed  
AMNm-bs Pyroxene spinifex-textured basalt; locally variolitic and/or pillowed; metamorphosed  
AMNm-fdv Dacite with accretionary lapilli and pumiceous fragments; graded beds and scours; metamorphosed  
AMNm-stf Felsic epidiolite sandstone, bedded to massive; metamorphosed  
AMNm-apy Olivine mesocumulates, komatiitic; metamorphosed  
AMNm-upkn Olivine orthocumulates, komatiitic; metamorphosed  
AMNm-uukw Olivine orthocumulate komatiitic; metamorphosed  
AMNm-uukn Pyroxenitic to gabbroic orthocumulates, komatiitic; metamorphosed



- MINERIE FORMATION**  
AMNi-bb Basalt; metamorphosed  
AMNi-bba Aphanitic basalt; metamorphosed  
AMNi-bbg Amygdaloid basalt; metamorphosed  
AMNi-bbo Pillow basalt; metamorphosed  
AMNi-bbp Porphyritic basalt; metamorphosed  
AMNi-bbq Finely to coarsely crystalline basalt; metamorphosed  
AMNi-bbae Basaltic fragmental rock, agglomerate or hyaloclastite breccia; metamorphosed  
AMNi-bby Basalt with volcanoclastic texture; metamorphosed  
AMNi-bbd Pillow basaltic andesite; metamorphosed  
AMNi-bs Pyroxene spinifex-textured basalt; metamorphosed  
AMNi-fd Dacite; metamorphosed  
AMNi-fdi Dacitic siltstone; metamorphosed  
AMNi-stf Felsic epidiolite sandstone; metamorphosed  
AMNi-cc Chert and banded chert; locally jaspillic and/or brecciated; metamorphosed



- WELCOME WELL FORMATION**  
AMNw-bb Basalt; metamorphosed  
AMNw-cc Chert and banded chert; locally jaspillic and/or brecciated; metamorphosed  
AMNw-cj Jaspilite; metamorphosed  
AMNw-f Felsic volcanic and volcanoclastic rocks; highly weathered; metamorphosed  
AMNw-fa Massive andesite; metamorphosed  
AMNw-fax Brecciated andesite; metamorphosed  
AMNw-fdi Rhyolite to dacitic siltstone; metamorphosed  
AMNw-fd Dacite; commonly tuffaceous; metamorphosed  
AMNw-fr Rhyolite lava flows, quartz phytic; locally tuffaceous; metamorphosed  
AMNw-scf Conglomerate, dominantly andesitic clasts; metamorphosed  
AMNw-sgf Conglomerate, sandstone, and tuff with dominantly andesitic clasts; epidiolite; metamorphosed  
AMNw-sh Shale; metamorphosed  
AMNw-stf Felsic volcanoclastic sandstone, bedded to massive; metamorphosed

GUMABERE BASIN  
Lenaia Domain  
YILGANN CRATON  
Kurajipi Terrane