














Legend

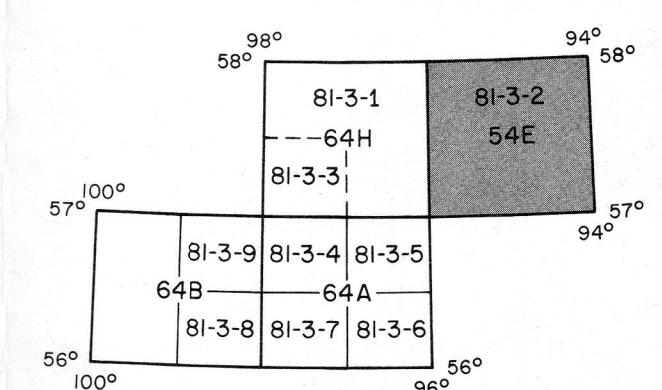
- | PAMEROZIC | |
|--|---|
| Paleozoic | |
| | QCR Ordovician Bad Cache Rapids Group; sandstone, shale, limestone |
| PRECAMBRIAN | |
| Aphelion (Churchill Province) | |
| Intrusive Rocks | |
| 23 ^a | Mafic and ultramafic dykes |
| 22 ^a | Felsic pegmatites of various ages |
| 21 ^a | Grey granite; fine to medium grained megacrystic biotite granite |
| 20 ^a | Leucocratic granite; medium grained homogeneous buff biotite granite |
| 19 ^a | Leucocratic, schlieric granite; anatectic granite with numerous inclusions of gneisses |
| 18 ^a | Megacrystic granite and syenogranite; 18a) megacrystic quartzite |
| 17 ^a | Granodiorite to granite |
| 16 ^a | Granodiorite; hornblende or hornblende and biotite-bearing; locally gneissic |
| 15 ^a | Tonalite and granodiorite; locally gneissic; 15a) garnetiferous tonalite; 15b) quartz-poor hornblende tonalite to granodiorite; 15c) gneissic tonalite-gneissic leucocratic tonalite to granodiorite |
| 14 ^a | Tonalite, gneissic tonalite; hornblende or hornblende-biotite-bearing |
| 13 ^a | Metagabbro, metadiorite; 13a) gabbro pegmatite |
| 12 ^a | Quartz diorite, gabbro; 12a) leucotonalite and associated intrusion breccia |
| Metasedimentary and Metavolcanic Rocks | |
| 11 | Arkosic gneisses; 11a) polymeric metaconglomerate with a pelitic matrix and minor pelite beds; muscovite-potassium feldspar megacrysts-sillinite-bearing; 11b) polymeric metaconglomerate with a psammite matrix interlayered with crossbedded psammite; megacrystiferous; 11c) quartzite meta-arenite, quartzite; 11d) psammite and pelitic metagreywacke; hornblende-magnetite-bearing; locally contact, pelitic metaconglomerate beds; 11e) megacrystiferous feldspathic metagreywacke; locally pebbly; 11f) meta-arenite, sillinite-bearing; locally quartzite pebbly meta-arkose, minor conglomerate |
| 10 ^a | Ambiphilite; 10a) layered hornblende-dioptase granofels; minor metagreywacke beds; 10b) massive amphibolite, salt-and-pepper textured amphibolite with sporadic quartzite and metagreywacke beds; 10c) massive clotted mesocratic amphibolite; 10d) meta-volcanic rocks; basalt, pillow basalt, intertreated metavolcanic rocks (Assen Lake) |
| 9 ^a | Metasediments and metavolcanic rocks; 9a) pelitic to psammite metagreywacke; magnetite-sillinite-bearing; contains sporadic conglomerate beds; 9b) metabasalt; massive basalt, basaltic breccia, basaltic tuff; 9c) intertreated metavolcanic rocks; 9d) massive amphibolite, layered hornblende-dioptase gneiss derived from iron-rich mafic gneiss; 9e) intermediate to acid tuff; 9f) quartzite; 9g) garnetiferous metagreywacke, granofelsic |
| 8 ^a | Metagreywacke; 8a) metatatic greywacke gneiss; interlayered psammite and pelitic metagreywacke; garnet-biotite-granite-bearing; 8b) diatexitic biotite-garnet gneiss; 8c) staurolite-bearing metagreywacke |
| Mixed Aphelion and Archeon Rocks | |
| 7 ^a | Mylonites (Assen Lake); derived from rocks of both the Churchill and Superior Provinces |
| Archeon (Superior Province) | |
| 6 ^a | Multicomponent migmatite; tonalitic to granodioritic gneiss with numerous amphibolite layers |
| 5 ^a | Granite |
| 4 ^a | Mafic dykes; 4a) ultramafic; 4b) gabbro |
| 3 ^a | Gneisses of Kenoran age (units 1 and 2)eworked during the Hudsonian event |
| 2 ^a | Clotted granodiorite; hornblende-bearing |
| 1 ^a | Ambiphilites (massive and compositionally layered) and associated tonalitic gneisses of Kenoran age |

* Units not occurring on this map.

Symbols

- | | |
|---|--|
|  | bedding (tops unknown) |
|  | metamorphic layering (inclined, vertical) |
|  | foliation (inclined, vertical, horizontal) |
|  | foliation and parallel metamorphic layering (inclined, vertical) |
|  | cataclastic foliation |
|  | minor fold axis with symmetry |
|  | mineral lineation |
|  | geological boundary (approximate, assumed, extrapolated using aeromagnetic trends) |
|  | approximate position of the Churchill-Superior boundary
(Ascan Lake to Strong Lake) |
|  | fault |
|  | limit of outcrop |
|  | isolated bedrock exposure |
|  | massive sulphide |

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This map is a provisional summary of work carried out during the summer field season and is printed directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

Scale 1:250 000

