

Table I

| ERA       | SYSTEM     | SERIES OR STAGE        | North and West of Dividing Line                  |   | South and East of Dividing Line                 |   |
|-----------|------------|------------------------|--|---|---|---|
|           |            |                        | Formation and Thickness in Feet                  | Lithology   | Formation and Thickness in Feet                 | Lithology   |
| CENOZOIC  | QUATERNARY | Pleistocene and Recent | UNNAMED (Q)                                      | Alluvium, sand, gravels, clay, muds   | UNNAMED (Q)                                     | <del>ALLUVIUM</del><br>Alluvium, sand, gravels, clay, muds  |
|           |            | Maestrichtian          | UNKNOWN  |   | UNKNOWN   |   |
| MESOZOIC  | CRETACEOUS |                        |  |   | Eureka Sound (KT <sub>e</sub> ) 50+             | Sandstone, shale, coal, (interbedded lava flow and related intrusives shown on map as KT <sub>i</sub> ) |
|           |            |                        |  |   |   |   |
| MESOZOIC  | JURASSIC   | Middle                 | Jaeger (J <sub>j</sub> )                         | Sandstone, quartzose  |   |   |
|           |            |                        |  |   |   |   |
| MESOZOIC  | TRIASSIC   | Upper                  | Heiberg 70+ (T <sub>h</sub> )                    | Quartz sandstone, minor ferruginous sandstone and coal  |   |   |
|           |            | Middle                 | Schei Point 60+ (T <sub>s</sub> )                | Calcareous sandstone, bioclastic limestone  |   |   |
| MESOZOIC  | TRIASSIC   | Lower                  | Bjorne 200+ (T <sub>b</sub> )                    | Quartz sandstone, crossbedded   |   |   |
|           |            |                        |  |   |   |   |
| MESOZOIC  | PERMIAN    | Upper                  | (P <sub>tf</sub> ) Troid Fiord 75-140            | Sandstone, glauconitic, minor chert   |   |   |
|           |            | Lower                  | (P <sub>bc</sub> ) Belcher Channel 510           | Limestone, dolomitic, porous to vuggy; minor chert  |   |   |
| PALEOZOIC | DEVONIAN   | Famennian              | Griper Bay 1,500-4,875 (D <sub>mg</sub> )        | Quartz sandstone, siltstone, shale, commonly greenish weathering                                    | Griper Bay (D <sub>mg</sub> ) 980-1,500         | Quartz sandstone, siltstone, shale, commonly greenish weathering  |
|           |            | Frasnian               | (D <sub>mh</sub> ) Hecla Bay 1,235-4,080         | Quartz sandstone, resistant to recessive  | Hecla Bay 500-700 (D <sub>mh</sub> )            | Quartz sandstone, resistant to recessive  |
| PALEOZOIC | DEVONIAN   | Givetian               | (D <sub>bi</sub> ) Bird Fiord 1,100 - 2,300      | Limestone, quartz sandstone, siltstone, commonly greenish   | (D <sub>bi</sub> ) 600-1,100                    | Limestone, quartz sandstone, siltstone, commonly greenish   |
|           |            | Eifelian               | Eids 300-2,000 (D <sub>e</sub> )                 | Limestone, siltstone, shale, fissile, recessive in north and west, resistant in east and south      | Blue Fiord 600-1,700 (D <sub>bi</sub> )         | Limestone, micritic on shelf, biostromal to the west  |
| PALEOZOIC | DEVONIAN   | Emsian                 | (D <sub>st</sub> ) Stuart Bay 0 - 2,400          | Siltstone, shale, limy; minor conglomerate and limestone interbeds (local angular or conglomeratic) | Disappointment Bay 600-2,000 (D <sub>d</sub> )  | Dolomite, porous to vuggy, resistant, light cream   |
|           |            | Siegenian              | (D <sub>ba</sub> ) Bathurst Island 1,150 - 3,600 | Siltstone, fine grained sandstone, thin bedded dolomite   | (D <sub>st</sub> ) Stuart Bay 0 - 1,850         | Dolomite, siltstone, limestone, reef and boulder conglomerates  |
| PALEOZOIC | DEVONIAN   | Gedinnian              |  |   | Bathurst Island (D <sub>ba</sub> ) 0 - 2,200    | Dolomite, siltstone, minor limestone  |
|           |            |                        |  |   |   |   |
| PALEOZOIC | SILURIAN   | Pridolian              | (O-D <sub>cp</sub> )                             | Siltstone, shale, argillaceous limestone; graptolitic; minor dolomite                               | (O-D <sub>cp</sub> )                            | Siltstone, shale, argillaceous limestone; graptolitic; minor dolomite                                   |
|           |            | Ludlovian              | Cape Phillips 1,020 - 1,500                      |   | Cape Phillips 1,400 - 2,704                     |   |
| PALEOZOIC | SILURIAN   | Wenlockian             |  |   |   |   |
|           |            | Llandoveryan           |  |   |   |   |
| PALEOZOIC | ORDOVICIAN | Richmond               |  |   |   |   |
|           |            | Maysville              |  |   |   |   |
| PALEOZOIC | ORDOVICIAN | Eden                   | Irene Bay (O <sub>i</sub> ) 50-180               | Limestone, thin bedded; green limy shale interbeds; recessive                                       | Irene Bay (O <sub>i</sub> ) 30-50               | Limestone, thin bedded, green limy shale interbeds; recessive   |
|           |            | Barnveld               | (O <sub>ct</sub> ) Thumb Mountain 1,600 - 2,000  | Limestone, thick bedded bluff forming; minor dolomite   | (O <sub>ct</sub> ) Thumb Mountain 1,500 - 1,800 | Limestone, thick bedded bluff forming; in places largely dolomitized                                    |
| PALEOZOIC | ORDOVICIAN | Wilderness             | (O <sub>cb</sub> ) Bay Fiord 300+                | Anhydrite and anhydritic shale; caprock of limestone and limy dolomite                              | (O <sub>cb</sub> ) Bay Fiord 3,233+             | Halite, gypsiferous shale, dolomite, siltstone, anhydrite   |
|           |            |                        |  |   |   |   |

Table 1. Table of Formations, Bathurst Island group, and Byam Martin Island, Arctic Canada. Map symbols are shown in brackets and are used on the geological map. The Thumb Mountain and Irene Bay Formations are combined on the geological map and are shown there as (O<sub>cti</sub>).