LEGEND

Diabase dykes and sills

LATE PROTEROZOIC

H - Undifferentiated sediments and volcanics; includes the Parry Bay Formation, Kanuyak Formation, and Coppermine River Group.

ELLICE FORMATION

E_2 - Kaolinitic quartzite; E_{2p} - with quartz-pebble conglomerate

E_1 - Quartz-pebble conglomerate

---(unconformity)---

TINNEY COVE FORMATION

T_2 - Arkose, pebbly arkose

T_1 - Polymictic conglomerate, coarse-grained arkose

---Angular unconformity---

EARLY PROTEROZOIC

AMAGOK FORMATION

A - White to mauve coarse-grained moderately indurated arkose; minor conglomerate.

- Intraformational intrusive breccia

COCKBURN GROUP

BROWN SOUND FORMATION

B_{0Q} - White quartzite (Brown Sound?)

B_{3C} - Red well-indurated arkose succession interstratified with white and mauve coarse-grained moderately-indurated arkose successions

B_{3B} - Thin vesicular basalt flows interstratified with red arkose

B_{3A} - Red medium to fine-grained well-indurated arkose

B_2 - Ferruginous, carbonated muddy siltstone and very fine sandstone

- Chaotic intraformational breccia and slumped exotic carbonate blocks

B_{1S} - Buff-brown medium to coarse-grained arkose

B_1 - Ferruginous, calcareous mudstone; salt casts abundant at the base

KUUVIK FORMATION

K_4 - Stromatolitic carbonate, clastic carbonate, mudstone; edgewise conglomerate abundant, oncoliths

K_3 - Stromatolitic carbonate, clastic carbonate; intraformational conglomerate abundant, minor mudstone

K_2 - Very thick beds of interstartified carbonate and red and green mudstone (>50% carbonate).

K_1 - Thin-bedded carbonate-mudstone rhythmites (>50% carbonate)

GROUP

PEACOCK HILLS FORMATION.

P_5 - Red and green mudstone and siltstone with minor carbonate (Contwoyto Lake area, equivalent to P_1-P_2)

P_4 - Thin-bedded red and green mudstone-carbonate rhythmites; minor concretionary mudstone

P_3 - Thin-bedded mudstone-carbonate rhythmites; minor concretionary mudstone

P_2 - Thin-bedded green, red and red-brown mudstone rhythmites; massive thick-bedded siltstones with rare concretions or lenses of carbonate

P_1 - Thin-bedded red and green mudstone rhymites; minor concretionary mudstone and carbonate beds

P_{1A} - Grey-green mudstone, minor sandstone; occurs as a subunit in P_1.

QUADYUK FORMATION

Q - Stromatolitic carbonate; clastic carbonate; minor calcareous quartzite; intraformational breccia; minor mudstone

B_G - Quartzose greywacke; grey-green siltstone (Rockinghose Lake only)

B_R - Red siltstone and fine-grained sandstone; minor quartzite; granular hematite ironstone or pisolitic dolomite at the top.

BURNSIDE RIVER FORMATION

B_S - Pisolitic quartzone dolomite; granular hematite ironstone; minor red or pink quartzite

B_1 - Red siltstone; fine-grained subarkose; minor red mudstone and shale; minor rare stromatolitic carbonate

B - Pink, white, red quartzite and minor subarkose; quartz-pebble conglomerate; rare shaly or muddy partings

B_M - Red mudstone, minor dolomite (in south only)

B_D - Arenaceous dolomite; doloarenite; minor stromatolitic carbonate; dolomitic quartz-pebble conglomerate

GOULBURN GROUP

WESTERN RIVER FORMATION

UPPER ARGILLITE MEMBER (W_4)

W_{4B} - Grey, buff, red siltstone and mudstone; minor quartzite

W_{4A} - Red mudstone and argillite

QUARTZITE MEMBER (W_3)

W_{3D} - Fine-grained red and pink quartzite and rare arkose

W_{3C} - Red mudstone and argillite; minor grey-green greywacke

W_{3B} - Stromatolitic carbonate; doloarenite and dolosiltite; minor fine-grained white or pink quartzite (Beechey Platform)

W_{3A} - Grey-green coarse-grained greywacke.

RED SILTSTONE MEMBER (W_2)

W_{2E} - Red silstone and argillite; minor quartzite

W_{2D} - Quartzite; minor dolomite and mudstone

W_{2C} - Red, grey concretionary mudstone

W_{2B} - Grey concretionary mudstone; minor dolomite

W_{2A} - White, pink protoquartzite; minor quartzose carbonate

LOWER ARGILLITE MEMBER (W_1)

W_{1D} - Stromatolitic carbonate; clastic carbonate;minor quartzite and calcareous quartzite (Kimerot Platform)

W_{1C} - Thin-bedded limestone, dolomite and siltstone

W_{1B} - Interbbed siltstone, quartzite, thick-bedded quartzone turbidites (A-E beds); minor subarkos

W_{1A} - Quartzite, argillite, quartz-pebble conglomerat minor carbonate; regolith

---Angular unconformity---

Archean

A undifferentiated metasediments, metavolcanics, granitic rocks.

SYMBOLS

- Bedding - tops known, inclined, vertical, overturned.
- Contact - between formations, defined, approximate, assumed
- Contact - between members, defined, approximate, assumed
- Fault - defined, approximate, assumed
- Anticline, plunge where indicated
- Syncline, plunge where indicated
- X_{1-4} Indicated members are present, but not differentiated due to scale of map
- Settlement.

Notes:

The geology for map sheet 76G was modified from that of Tremblay (1971), and that for 76E from Tremblay (1967). The geology of 86H was modified from that of Bostock (1967), and for 77A from Fraser (1964).

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GEOLOGY OF THE KILOHIGOK BASIN BATHURST INLET, N.W.T.

Geology by F.H.A Campbell and M.P. Cecile

Geological Survey of Canada, 1974, 1975

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