## DESCRIPTIVE NOTES

The Touak Fiord map sheet, east-central Cumberland Peninsula, Baffin Island, exposes Archean crustal basement and Paleoproterozoic supracrustal rocks and intrusions of the Hoare Bay group (Jackson 1971). Plutonic basement comprises biotite tonalite (ATn) and foliated to gneissic granodiorite (AGgd) and monzogranite (AMzg) and locally abundant, variably deformed, mesocratic to melanocratic dioritic to granodioritic enclaves. Supracrustal rocks occur as isolated screens and roof pendants in the plutonic rocks and as a continuous, 1–2 km thick, east-trending, steeply dipping, tectonically bounded panel in the south-central part of the map sheet. Rocks of the Hoare Bay group are subdivided into a lower, dominantly clastic unit (PAgd) and an upper, dominantly mafic volcanic unit (PAmv). Mafic volcanic rocks are commonly pillowed and amygdaloidal and are interbedded with minor, laterally discontinuous, iron formation (PAfm) and chert (PAch). Ultramafic rocks (PAum) are rare and occur as small, isolated bodies. Mafic dykes (Amd) are widespread and cut all rocks except Quaternary deposits.

Two major, east-trending, steeply dipping, ductile shear zones, the Touak Fiord shear zone and the Kingnait Fiord shear zone, transect the map area. Both shear zones are characterized by a penetrative, steeply plunging, mineral stretching lineation and by kinematic indicators that consistently indicate dextral, reverse displacement. Rocks in the Kingnait Fiord shear zone are commonly mylonitic and locally ultramylonitic. Rocks in the Touak Fiord shear zone are commonly foliated and lineated, but mylonitic rocks are rare. Both shear zones are interpreted to be crustal-scale structures that developed during the Trans-Hudson orogen (1.9–1.8 Ga).

Quaternary deposits cover much of the map area. Marine limit is at 140 m asl.

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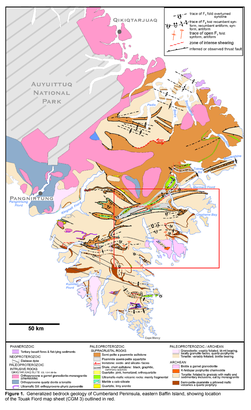
QIKIQTARJUAQ
AUYUITTUQ NATIONAL PARK
PANGNIRTUNG FIORD
Pangnirtung
Cape Dyer
Cape Dyer Lighthouse
Baffin Island
50 km
Cape Dyer Fiord
Tay Sound
Cumberland Peninsula
Nunavut
Hoare Bay
Cape Dyer
Qikiqtarjuaq
Pangnirtung
Auyuittuq National Park
Penny Highlands
Penny Ice Cap
Clyde River
Baffin Island
Nunavut
Hudson Bay
Greenland
Iceland
Europe
Asia
Alaska
Canada
United States
Pacific Ocean
Atlantic Ocean
Arctic Ocean
Hudson Strait
Davis Strait
Labrador Sea
Baffin Bay
Greenland Sea
Barents Sea
Kara Sea
Laptev Sea
East Siberian Sea
Chukchi Sea
Beaufort Sea
Bering Strait
Bering Sea
Sea of Okhotsk
Sea of Japan
Yellow Sea
East China Sea
Philippine Sea
South China Sea
Celebes Sea
Java Sea
Timor Sea
Arafura Sea
Coral Sea
Tasman Sea
Great Australian Bight
Indian Ocean
Red Sea
Persian Gulf
Arabian Sea
Bay of Bengal
Andaman Sea
Gulf of Thailand
Gulf of Carpentaria
Great Barrier Reef
Great Sandy Desert
Great Victoria Desert
Gibson Desert
Simpson Desert
Tanami Desert
Great Sandy Desert
Great Victoria Desert
Nullarbor Plain
Great Australian Bight
Indian Ocean
Tasman Sea
Coral Sea
Great Barrier Reef
Arafura Sea
Timor Sea
Java Sea
Celebes Sea
Philippine Sea
South China Sea
East China Sea
Yellow Sea
Sea of Japan
Sea of Okhotsk
Bering Sea
Bering Strait
Chukchi Sea
Beaufort Sea
East Siberian Sea
Laptev Sea
Kara Sea
Barents Sea
Greenland Sea
Iceland
Europe
Asia
Alaska
Canada
United States
Pacific Ocean
Atlantic Ocean
Arctic Ocean
Hudson Strait
Davis Strait
Labrador Sea
Baffin Bay
Hudson Bay
Greenland