GEOLOGICAL SURVEY OF CANADA COMMISSION GEOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

THE NORTHERN INTERNIDES OF WOPMAY OROGEN

(SLOAN RIVER, HEPBURN LAKE AND PART OF COPPERMINE MAP-AREAS, N.W.T.)

Scale 1:250,000

Kilometres 6 0 6 12 18 Kilometres
Miles 4 0 4 8 Miles

Universal Transverse Mercator Projection
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Table of Formations

MIDDLE PROTEROZOIC

COPPERMINE RIVER GROUP (ε)
- ℄ — COPPER CREEK: basalt flows; minor intercalated sandstone
- MACKENZIE DIKES: diabase, gabbro (north-northwest trending dykes)

NUNAVIK INTRUSION (H^1 - H^9)
- M^4 — gabbro, granophyric gabbro, granophyre, xenolithic granophyre; minor pyroxenite (websterite)
- M^3 — pyroxenite (websterite), orthopyroxenite, clinopyroxenite; minor gabbro, peridotite
- M^2 — serpentinized dunite, peridotite, feldspathic peridotite; minor pyroxenite
- M^1 — bronzite gabbro, picrite, feldspathic peridotite (feeder dyke and border zone)

DISMAL LAKES GROUP (D^2 - D^1)
- D^2 — dolomite, in part stromatolitic; minor red mudstone at base
- D^1 — pure quartz sandstone; minor black shale, conglomerate

WESTERN CHANNEL INSETS: diabase, gabbro (gently dipping sheets)
- diabase, gabbro (northeast trending dykes)

CLEAVER DYKES: diabase, gabbro (east-northeast trending dykes)

HORNBY BAY GROUP (H^3 - H^1)
- LADY NYE: quartz sandstone; minor quartz-cobble conglomerate
- FAULT RIVER: reddish feldspathic sandstone, siltstone, polymictic conglomerate
- H^3 / H^2 / H^1 — DIGNEAR: feldspathic sandstone, quartz sandstone; minor polymictic conglomerate

GREAT BEAR INTRUSIVE SUITES (G^4 - G^1)
- G^4 — hornblende diorite, quartz diorite; minor pegmatitic granite
- G^3 — coarse grained biotite syenogranite, monzogranite
- G^2 — hornblende-biotite granodiorite, monzogranite
- G^1 — hornblende-biotite quartz monzodiorite, quartz monzonite

McTAVISH SUPERGROUP (M^9 - M^0)
- M^0 — biotite gabbro (altered) (correlation with McTavish Supergroup uncertain)
- M^9 — plagioclase-quartz porphyry near Great Bear Lake, plagioclase-hornblende porphyry near Nonacho Lake, K-feldspar-plagioclase-quartz porphyry near Augustus Lake (various ages)
- M^8 — TURBIDITE: facies-thy/dacite lgnimbrite, subgraphitic-lithic sandstone, polymictic conglomerate, silty mudstone, basalt
- M^7 — DUNCAN: silty mudstone, wackestone "golf-ball" rhyolite porphyry, basalt; minor conglomerate, sandstone
- M^6 — JACLAIR: dacite-rhyolite ignimbrite and lava flows, polymictic conglomerate, feldspathic-lithic sandstone, silty mudstone; minor basalt
- M^5 — McLAREN: andesite-dacite-rhyodacite, ignimbrite and lava flows
- M^4 — SLOAN: rhyodacite-rhyolite ignimbrite; minor rhyolite lava flows (M^{3a}); feldspathic-lithic sandstone, conglomerate
- M^3 — DORSEY: dacite-rhyodacite ignimbrite, sills of facite-rhyodacite porphyry; includes some dacite ignimbrite units stratigraphically within M^2
- M^2 — CAMERON BAY, PEMIAK: feldspathic-lithic sandstone, polymictic conglomerate, dacite-rhyodacite-rhyolite ignimbrite, andesite-dacite-rhyolite lava flows, silty mudstone; minor dolomite
- M^1 — PORT RADIUM, ECHO BAY: andesite and basaltic andesite lava flows, reworked andesitic sandstone, andesite porphyry; basal mudstone with silicified tuff, minor rhyolite(?) lava flows

HEPBURN INTRUSIVE SUITE (H^9 - H^0)
- H^9 — biotite gabbro, biotite bronzite gabbro, pegmatitic granules; minor norite, norite-biotite, pyroxenite
- H^8 — hornblende-biotite diorite, pegmatitic granite; minor hornblendite
- H^7 — alaskite (fine-grained leucocratic granite-granodiorite)
- H^6 — hornblende-biotite quartz diorite; minor pegmatitic granite
- H^5 — coarse grained biotite syenogranite
- H^4 — biotite-hornblende tonalite; minor hypersthene (K-feldspar) granodiorite
- H^3 — biotite granodiorite (includes some tonalite with scattered pockets of syenogranite)
- H^2 — garnet-rich hypersthene (K-feldspar) granite, granodiorite; minor tonalite
- H^1 — biotite granite, hypersthene (K-feldspar) granite

OCEANIC FILLS (O^2 - O^1)
- O^2 — K-feldspar-plagioclase-quartz porphyry sills and (according minor undifferentiated dacitoid-felsic sedimentary rocks
- O^1 — plagioclase-phyric rhyolite porphyry

COCHRANE SUPERGROUP (E^2 - E^1)
RECLUSE GROUP (E^2 - E^1)
- R^2 — Cordierite-illitic greywacke (AZIAK), conglomerate, SHALE-CARBONATE (FONTANO) at base; meta-gabbro sills
- R^1 — laminated graphitic pelite (FONTANO); minor greywacke (AZIAK), meta-pelitic meta-gabbro sills

EPWORTH GROUP (E^2 - E^1)
- E^2 — DOCKRILL: cherty stromatolitic dolomite, cryptalgal-algallam dolomite, meta-gabbro sills
- E^1 — CARION: meta-pelite, quartzite; minor conglomerate, argillaceous dolomite, graphitic-cherty meta-pelite

ASKATOMO GROUP (A^8 - A^1)
Upper Suite (A^8 - A^7)
- A^8 — STAMMLER: cherty stromatolitic dolomite; stromatolitic algallam dolomite, chert, dolomitic algallam breccia and chert, dolomitic algallam breccia and clast, dolomitic algallam breccia and clast, dolomitic algallam breccia and clast