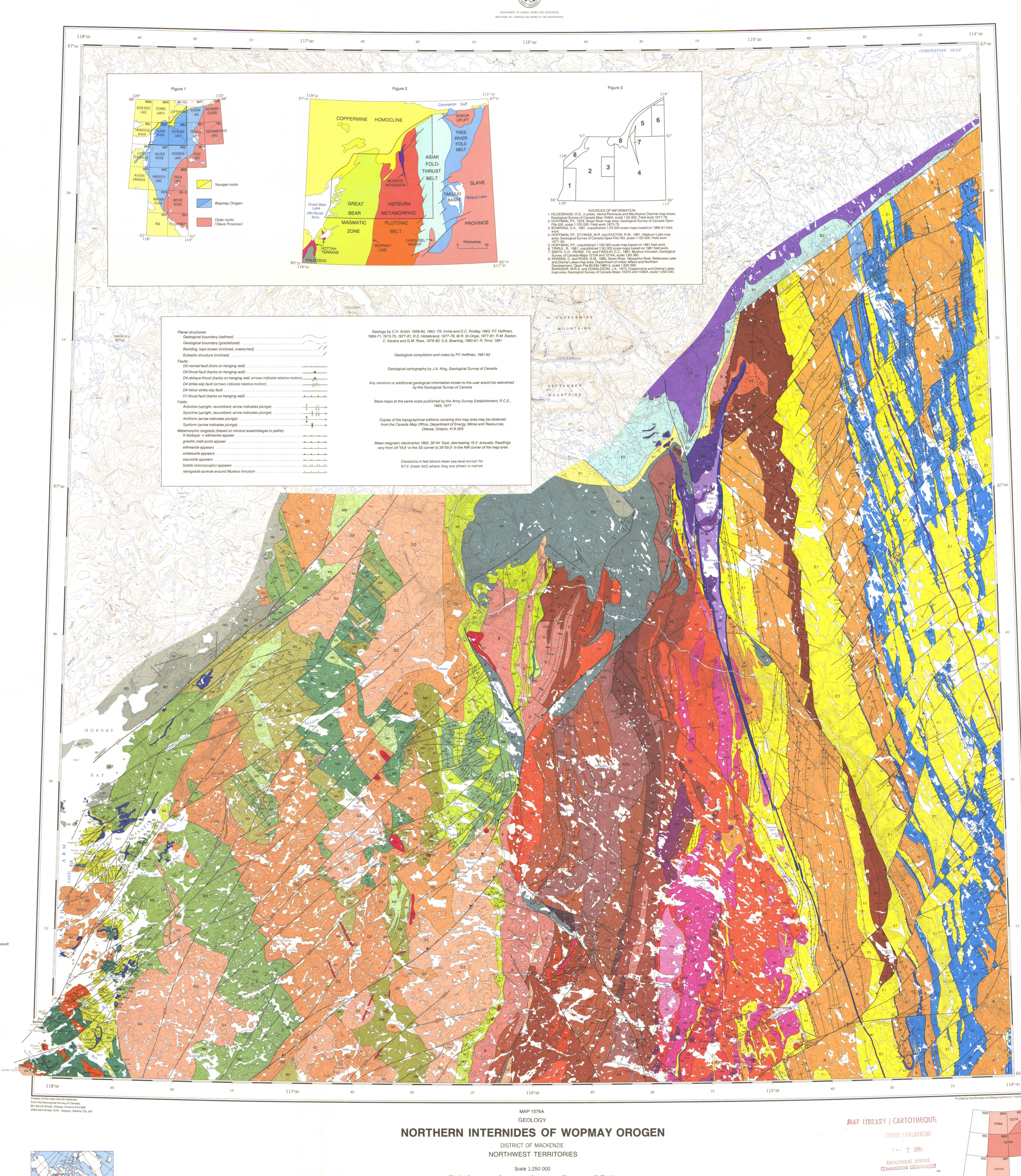


LEGEND

- UNCONSOLIDATED SUBGLACIAL AND PROGLACIAL DEPOSITS, MAINLY RELATED TO WESTERN LAKE SUPERGLACIAL, RECENT POSTGLACIAL DEPOSITS
COPPERMINE RIVER GROUP (C)
COPPER CREEK FORMATION: basal flows, minor intercalated sandstone
MACKENZIE DYKES: diabase, gabbro (north-northwest-trending dykes)
MUSKOKE INTRUSION (M1-M4)
Gabbro, granophyric gabbro, granophyre, xenolithic granophyre, minor pyroxenite (websterite)
Pyroxenite (websterite), orthopyroxene, clinopyroxene, minor gabbro, peridotite
Serpentinized dunite, peridotite, feldspathic peridotite, minor pyroxenite
Bronzite gabbro, point, feldspathic peridotite (flooded dyke and border zone)
DISMAL LAKES GROUP (D1-D2)
Dolomite, in part stratiolitic; minor red mudstone at base
Pure quartz sandstone; minor black shale, conglomerate
WESTERN CHANNEL DIABASE: diabase, gabbro (northwest-trending dykes and gently dipping sheet)
HORNBY BAY GROUP (H1-H3)
LADY MINE FORMATION: quartz sandstone, minor quartz-pebble conglomerate
FALLT RIVER FORMATION: reddish feldspathic sandstone, siltstone, polyimitic conglomerate
BIG BEAR FORMATION: feldspathic sandstone, quartz sandstone, minor polyimitic conglomerate
CLEAVE DYKES: diabase, gabbro (west-northwest-trending dykes)
GREAT BEAR INTRUSIVE SUITES (G1-G4)
Hornblende diorite, quartz diorite, minor pegmatitic granite
Coarse grained biotite syenogranite, monzogranite
Hornblende-biotite granodiorite, monzogranite
Hornblende-biotite quartz monzonite, quartz monzonite
MCTAVISH SUPERGROUP (M1-M10)
Altered biotite gabbro (correlation with M2; biotite Supergroup uncertain)
Phlogopite-quartz porphyry near Great Bear Lake, algalite-biotite hornblende (porphyry near McLaren Lake, K-feldspar-epidote-quartz porphyry near Augustus Lake (porphyry near McLaren Lake))
Diabase-ryholite gabbro, feldspathic-illitic sandstone, polyimitic conglomerate, siltstone, basalt
Siltstone, megacrystic 'soft-salt' rhyolite porphyry, basalt, minor conglomerate, sandstone
Diabase-ryholite ignimbrite and lava flows, polyimitic conglomerate, feldspathic-illitic sandstone, siltstone, minor basalt
Andesite-diabase-ryholite ignimbrite and lava flows
Rhyolite-ryholite ignimbrite, minor rhyolite lava flows (M4); feldspathic-illitic sandstone, conglomerate
Diabase-ryholite gabbro, siltstone, diorite-ryholite porphyry
LARINE GROUP (L1-L2)
UNDIVIDED CAMERON BAY AND FENAK FORMATIONS: feldspathic-illitic sandstone, polyimitic conglomerate, diabase-ryholite ignimbrite, andesite-diabase-ryholite lava flows, siltstone, minor diorite
UNDIVIDED FORT RADCLIFF AND ECHO BAY FORMATIONS: andesite and calcic andesite lava flows, reworked andesite, andesite porphyry, basalt mudstone with calcified rhyolite, minor rhyolite (L1) lava flows
Mylonite (probably uncontacted but probably derived chiefly from units A2 and H3), hornblende pyroxene (unit G1)
HEPBURN INTRUSIVE SUITE (H1-H9)
Biotite gabbro, biotite-bronzite gabbro, pegmatitic granite, minor anorthosite, pyroxenite, peridotite
Hornblende-biotite diorite, pegmatitic granite, minor hornblende
Asbestos (fine grained leucocratic granite-granodiorite)
Hornblende-biotite quartz diorite, minor pegmatitic granite
Coarse grained biotite syenogranite
Biotite-hornblende tonalite, minor megacrystic (K-feldspar) granodiorite
Biotite hornblende (includes some tonalite with scattered pockets of syenogranite)
Garnet-rich megacrystic (K-feldspar) granite, granodiorite, minor tonalite
Biotite granite, megacrystic (K-feldspar) granite
CORONATION SUPERGROUP (A1-R)
RECLUSE GROUP (R)
FOWLING AND ASIARK FORMATIONS: andesitic-illitic greywacke, laminated granitic-wolfsite, quartzite, metabasite, mafic gabbro, andesite and diabase units
EPWORTH GROUP (E1-E3)
RICHESTON COMPLEX (E1-E3)
Dolomite, probable slope and reef facies (indistinguishable due to karst development beneath Dismal Lakes Group)
Slope facies dolomite rhyolite, rhyolite breccias; minor reddish sandstone
Reef facies stratiolitic dolomite, dolomite, dolostone
Shelf facies cyclic dolomite shales and stratiolitic cherty dolomite
DOLICK FORMATION: sandstone, quartzite; minor conglomerate, argillaceous dolomite, granitic pebble
AKATCHO GROUP (A1-A3)
CROSS RIVER (A1-A3)
UNDIVIDED WILKINSON AND STANBROOK FORMATIONS: massive pillowed and fragmental metabasalt; metabasite; minor reef facies metabasalt; and quartz metabasite dolomite, slope facies dolomite, rhyolite and megacrystic, granitic pebble, feldspathic sandstone and grit
DELLI FORMATION: feldspathic sandstone and grit, granitic pebble, quartz pebble conglomerate with outside dolomite, mafic silt, metabasite
Mason Three Sites (A5-A6)
UNDIVIDED ASLOROK AND TALLER FORMATIONS: olive palite, metabasalt, metabasite, siltstone, mafic silt, minor carbonates, feldspathic-illitic sandstone, conglomerate
NASITOK SUBGROUP (A5-A7)
Pachystratitic (K-feldspar) rhyolite (negative equivalent of Drank Site?)
Pillowed, massive and fragmental metabasalt, metabasite; minor rhyolite
Rhyolite, feldspathic sandstone and grit, metabasite silt
Cheek Three Sites (A2-A4)
BELLEAU FORMATION: pillowed and massive metabasalt, metabasite; minor rhyolite, chert, palite (stratigraphic and structural position uncertain)
OSBARK SILEX: K-feldspar porphyritic rhyolite (AS1), phlogopite porphyritic rhyolite (AS2)
ZEPHYR FORMATION: arkosic tuffaceous, sandstone, minor metabasalt, metabasite, mafic silt
High Grade De Carbonates (A1)
BRYAN AND ZEPHYR FORMATIONS: migmatite derived from arkose, sandstone, mafic silt, metabasalt, metabasite; minor mafic, porphyritic rhyolite
Allochthonous Basement (B)
Altered hornblende-biotite granodiorite, monzogranite, syenogranite, pegmatite



DESCRIPTIVE NOTES
This map was compiled from results of more detailed mapping projects (1:25 000 to 1:250 000 scale) between 1977 and 1981 in the Early Proterozoic Wopmay Orogen (Fig. 1) on the west side of the Athabasca Slave Province in the northern part of the Canadian Shield. The area is located about 400 km north of the Mackenzie River, north of the northern limit of the Canadian Shield, and north of the Mackenzie River valley. The Coppermine River valley, most prominent topographic break in the geology, is a major tectonic feature. The Coppermine River valley, most prominent topographic break in the geology, is a major tectonic feature. The Coppermine River valley, most prominent topographic break in the geology, is a major tectonic feature.
Wopmay Orogen consists of the following zones (Fig. 2), which in this order occur from west to east: Zone 1, the Early Proterozoic Wopmay Orogen; Zone 2, the Early Proterozoic Wopmay Orogen; Zone 3, the Early Proterozoic Wopmay Orogen; Zone 4, the Early Proterozoic Wopmay Orogen; Zone 5, the Early Proterozoic Wopmay Orogen; Zone 6, the Early Proterozoic Wopmay Orogen; Zone 7, the Early Proterozoic Wopmay Orogen; Zone 8, the Early Proterozoic Wopmay Orogen; Zone 9, the Early Proterozoic Wopmay Orogen; Zone 10, the Early Proterozoic Wopmay Orogen.
The continental margin of the Wopmay Orogen is marked by the Asiak Fold-Thrust Belt, which consists of a series of north-south trending folds and faults. The Asiak Fold-Thrust Belt is a major tectonic feature. The Asiak Fold-Thrust Belt is a major tectonic feature. The Asiak Fold-Thrust Belt is a major tectonic feature.
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MAP 1576A GEOLOGY NORTHERN INTERNIDES OF WOPMAY OROGEN DISTRICT OF MACKENZIE NORTHWEST TERRITORIES Scale 1:250 000

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