

LEGEND FOR CORDILLERA, INTERIOR PLAINS, AND ARCTIC ISLANDS

QUATERNARY AND RECENT
Q Surficial deposits (where obscuring bedrock relationships),
 glacial drift, and Mackenzie deltaic silts
T Tertiary
Tr Basalt, andesite, dacite, trachyte, rhyolite, tuff, agglomerate (includes CARMACKS, SKUKUM)

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CRETACEOUS
UPPER CRETACEOUS
Ku Shale, sandstone, conglomerate, in part non-marine (named and undivided)
LOWER CRETACEOUS
Ki Shale, sandstone, conglomerate, in part non-marine (named and undivided)
Kic CHRISTOPHER: shale, marine
Kid DEZADEASH GROUP: conglomerate, slate, tuff, chert, coal
Kif FORT ST. JOHN GROUP: shale, sandstone, marine
Kil ISACHSEN: sandstone, shale, conglomerate, coal, non-marine; local basalt
Kir TANTALUS: arkose, conglomerate, coal

JURASSIC
J Shale, sandstone, conglomerate, in part non-marine, (partly Lower Cretaceous unnamed and undivided, includes SAVIK)
Ji LABERGE GROUP: conglomerate, greywacke, argillite, coal
Jv NORDENSKJOLD: dacite, tuff

TRIASSIC
Tr Sandstone, siltstone, shale, limestone
Trl LEWES RIVER GROUP: greywacke, limestone, argillite, conglomerate, basalt, tuff
Trh HEIBERG: sandstone, shale, coal, in part non-marine

Sandstone, conglomerate, siltstone
Trs SCHEI POINT
Trb BJORNE
Trbs Undivided: BJORNE, SCHEI POINT

Sandstone, shale, in part non-marine
Ja AWINGAK
Ji JAEGER
Jw WILKIE POINT
Jb BORDEN ISLAND

PERMIAN
P Sandstone, conglomerate
Pa ASSISTANCE: sandstone, chert
Pg Siltstone, greywacke, chert, limestone
TAKU GROUP
Pl Limestone, chert
Ptv Volcanic and pyroclastic rocks, greywacke, serpentine

CARBONIFEROUS
PENNSYLVANIAN
Cp CANYON FORD: sandstone, conglomerate, limestone
MISSISSIPPIAN
Cm Limestone, phyllite, chert, quartzite
Cmf FLETT, CLAUSEN, YOHIN: limestone, shale, sandstone
Cml LISBURN, KYAK: limestone, shale
Cmn Sandstone, coal, non-marine

DEVONIAN
UPPER DEVONIAN
Dug GRIPER BAY
Duh HECLA BAY
Dur REDKNIFE
Duu Unnamed
Dui (may include Middle Devonian shale)
Dum IMPERIAL
Duo MELVILLE ISLAND
Duo OKSE BAY

Limestone, shale, dolomite, siltstone
Due ESCARPMENT
Duk KAKISA
Duff TWIN FALLS
Dutt TROUT RIVER, TETCHO
Duhr HAY RIVER
Dus FORT SIMPSON (may include Middle Devonian shale)
Dut FATHLINA

MIDDLE DEVONIAN
Limestone, dolomite, shale
Dm Unnamed and undivided: ARNICA, MANETOE, LANDRY, NANAUNI, HEADLESS, FUNERAL, BEAR ROCK, HUME
Dmb BIRD FORD, BLUE FORD
Dmd DISAPPOINTMENT BAY
Dmh HUME
Dml LONELY BAY
Dmb LITTLE BUFFALO
Dmn NANAUNI
Dmp PRESQU'ILE
Dmpp PINE POINT
Dmhp HORN PLATEAU
Dmk KEE SCARP
Dmki KEE SCARP, HARE INDIAN
Dmsp SLAVE POINT
Dmws WATT MOUNTAIN, SULPHUR POINT

Shale, siltstone, limestone
Dmc CANOL
Dmci CANOL, HARE INDIAN
Dmf FUNERAL, HEADLESS
Dmhi HARE INDIAN
Dmhr HORN RIVER
Dms Unnamed shale
Dmw WEATHERALL
Anhydrite, salt, breccia
Dmbr BEAR ROCK
Dmch CHINCHAGA
Dmny NYARLING

LOWER DEVONIAN
Limestone, dolomite, sandstone
Dic CAMSELL, SOMBRE
Dig GOOSE FORD
Dls SNOWBLIND BAY
Dlsa SHERARD OSBORN
Dlv STALLWORTHY, SVARTEVAEG GROUPS: sandstone, shale, conglomerate, tuff, basalt
Shale, siltstone, limestone
Dib BATHURST ISLAND, STUART BAY
Dle EIDS
Dlp PEEL SOUND: sandstone, conglomerate

ORDOVICIAN
Limestone
Obs BAILLARGE BAY, SHIP POINT
Oe ELEANOR RIVER
Ocr CANROBERT
Os SUNBLOOD
Dolomite, limestone, gypsum
Oc CORNWALLIS
Occ COPES BAY, CORNWALLIS
Ov Serpentinized volcanic rocks

CAMBRIAN
C Sandstone, shale
Cr Conglomerate, hematite
Sandstone, shale, dolomite, gypsum, salt
Ecs SAULNE RIVER, MT. CAP, MT. CLARK
Ein MACDOUGAL GROUP

Limestone, dolomite, shale, sandstone
Ec Unnamed
Ecp SCORESBY BAY, PARRISH GLACIER

TERTIARY AND QUATERNARY
TQ Non-marine sand and gravel
TQb BEAUFORT
TQk KLONDIKE, WHITE CHANNEL
TQv Andesite, basalt, agglomerate, tuff (includes SELKIRK, MILES CANYON)

CRETACEOUS
K Shale, sandstone, marine and non-marine (named and undivided, includes SANS SAUL, SLATER RIVER, LITTLE BEAR, EAST FORK)
Kv Basalt, andesite, dacite, tuff breccia (includes HUTSHI, MOUNT NANSEN)
JURASSIC AND CRETACEOUS
JK Argillite, greywacke, limestone, conglomerate
Jkd DEER BAY: shale
Jkm MOULD BAY: sandstone, shale

TRIASSIC AND JURASSIC
Trjm MUSH LAKE: andesite, basalt, limestone, greywacke, argillite
Trjv Sandstone, greywacke, conglomerate and volcanic rocks
PERMIAN (AND/OR TRIASSIC?)
Pr Quartzite, phyllite, siltstone
Prf Conglomerate, chert, tuff andesite, greywacke, limestone, quartzite
Prv Andesite, basalt, limestone, metamorphosed volcanic rocks

CARBONIFEROUS (Mainly Pennsylvanian) AND PERMIAN
CP Sandstone, limestone, chert (includes CANYON FORD, BELCHER CHANNEL, ASSISTANCE)
CPa Sandstone, conglomerate
CPm MATTSON, FANTASQUE: sandstone, shale, limestone, chert, partly non-marine
CPk KASKAWULSH: marble, slate, quartzite, chert, andesite
CPp Argillite, slate, phyllite, quartzite, tuff, limestone, chert
CPs Siltstone, shale
CPc Limestone, shale, chert (includes CALICO BLUFF, TAHKANIDIT)
CPv Andesite, basalt, breccia, diorite, phyllite, limestone, chert

DEVONIAN AND CARBONIFEROUS (Mainly Mississippian)
DC Shale, slate, siltstone, limestone, chert (includes ETANDA)
DCp Slate, chert, quartzite, limestone
DCr Conglomerate, quartzite, greywacke, chert, slate
DCs Schist, metamorphosed greywacke, quartzite, greenstone
DCv Greenstone, schist, quartzite, amphibolite, limestone

SILURIAN AND DEVONIAN
SD Dolomite, quartzite, chert
Sdr READ BAY: limestone, dolomite, sandstone
Sdrp Undivided READ BAY, PEEL SOUND: limestone, shale

ORDOVICIAN, SILURIAN AND DEVONIAN
OSD Shale, siltstone, slate, phyllite, greywacke, quartzite, limestone, chert (includes CAPE RAWSON, MOUNT DISRAEL, SAIL HARBOUR, VIEW CREEK GROUPS)
ORDOVICIAN AND SILURIAN
OS Dolomite, limestone
OSa Unnamed and undivided
OSb ALLEN BAY
OSar ALLEN BAY, READ BAY
OSca CORNWALLIS, ALLEN BAY
OSch CHEDABUO LAKE
OSk MOUNT KINDLE, FRANKLIN MTN.
OSw WHITTAKER, DELORME

Graptolitic shale, siltstone (may include Lower Devonian shale)
OScp CAPE PHILLIPS
OSi IBBETT BAY
OSr ROAD RIVER
OScs Chert, shale
OSp Phyllite, chert, conglomerate, limestone, volcanic breccia
OSv Andesite, basalt, breccia, tuff, slate, limestone, conglomerate, quartzite (MCLINTOCK, CHALLENGER, BOURNE, IMINA, RENS FORD GROUPS)
EO Unnamed carbonates
EOgt GALLERY, TURNER CLIFFS: limestone, dolomite

CAMBRIAN AND ORDOVICIAN (Mainly Lower)
EOa Sandstone, shale, gypsum
EOi LAMARTE, MAZENDO, OLD FORT ISLAND: gypsum, dolomite, salt, shale, sandstone
EOm RABBIT POINT, BEAR POINT, OQYANGAH, MINGO RIVER, NABO POINT: shale, limestone, sandstone
EOp Phyllite, shale, argillite
CAMBRIAN (Upper), ORDOVICIAN AND SILURIAN
EOS Dolomite, limestone
PROTEROZOIC AND CAMBRIAN
Eea Quartzite, gnt, conglomerate, slate, phyllite
Ekm KATHERINE, MACDOUGALL GROUPS
Eev Volcanic rocks, andesite, breccia, tuff

PROTEROZOIC
E Argillite, quartzite, dolomite (includes LONELAND)
Ea Quartzite, conglomerate, basalt
Ek KATHERINE GROUP: quartzite, argillite
Ec Carbonates and clastics
Phyllite
Ep Unnamed
En NUEROUKPUK GROUP
Et TINDIR GROUP
Es Schist, quartzite, altered volcanic rocks

INTRUSIVE ROCKS

5 Granite, granitic porphyry, probably Palaeozoic in Yukon; syenite, granite, probably Devonian on Arctic Islands
4 Granite, granitic porphyry, syenite porphyry, monzonite porphyry; mainly Tertiary
3 Granodiorite, quartz diorite, granite, includes COAST INTRUSIONS, mainly Cretaceous
2 Gabbro, diorite, of various ages
1 Peridotite, dunite, pyroxenite, serpentine; of various ages

METAMORPHIC ROCKS (of various ages)

Mc CAPE COLUMBIA GROUP: granitic gneiss, granite, pegmatite
Mg Granitic gneiss
Mq Micaceous quartzite and schist
Ms Quartz mica schist, micaceous quartzite
Ml Limestone, marble
Mv Greenstone, amphibolite gneiss
My YUKON GROUP: quartzite, quartz-mica schist, slate, limestone, greenstone

FIGURE 1. THE WESTERN ARCTIC AREA

SCALE 1:3,000,000
 1 inch equals approximately 47 miles

Miles 50 0 50 100 150 200 Miles
 Kilometres 100 0 100 200 Kilometres

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 DOSSIER PUBLIC
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 GEOLOGICAL SURVEY
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INTERIOR PLATFORM
PRECAMBRIAN CORE
INNUITIAN OROGEN
ARCTIC COASTAL PLAIN
CORDILLERA

