

DEVONIAN

LOWER DEVONIAN

Dv VEZINA FORD FORMATION: siltstone, shale (mainly red); minor conglomerate and dolomite

Dc UNDIVIDED CLASTIC ROCKS: siltstone, shale, sandstone, variably calcareous, massive

S-Dcp SILURIAN AND DEVONIAN UPPER ORDOVICIAN, LOWER, MIDDLE AND UPPER SILURIAN, AND LOWER DEVONIAN CAPE PHILLIPS FORMATION: limy siltstone, graptolitic shale

OSa ORDOVICIAN AND SILURIAN UPPER ORDOVICIAN AND LOWER SILURIAN ALLEN BAY FORMATION: dolomite; minor limestone

OC ORDOVICIAN MIDDLE ORDOVICIAN CORNWALLIS GROUP (unstudied) ELEANOR BAY FORMATION: limestone with shales of pure shales; THUMB MOUNTAIN FORMATION: limestone; BAY FORD FORMATION: limestone, dolomite, variably siltstone, sandstone and gypsiferous (massive)

Oe LOWER AND MIDDLE ORDOVICIAN ELEANOR RIVER FORMATION: limestone

Ob LOWER ORDOVICIAN BAUMANN FIORD FORMATION: anhydrite, gypsum, minor limestone (recessive)

Oco COPES BAY FORMATION: limestone, minor flat-pebble conglomerate, anhydrite and dolomite

EPg CAMBRIAN MIDDLE CAMBRIAN PARRISH GLACIER FORMATION: limestone, shale interbeds; minor sandstone and flat-pebble conglomerate

Esb LOWER CAMBRIAN SCORESBY BAY FORMATION: dolomite; minor limestone

PEu PROTEROZOIC AND CAMBRIAN PROTEROZOIC AND LOWER CAMBRIAN ELLESMERE GROUP (Lower Cambrian) KANE BASIN FORMATION: sandstone, siltstone; RAWLINGS BAY FORMATION: sandstone and conglomerate; ELLA BAY FORMATION (Proterozoic): dolomite

LEG ARCHEAN Gneiss, granite, migmatite, and related rocks (not studied in detail)

Geological boundary (defined, approximate, assumed)
 Bedding (from air photographs or observed from aircraft)
 Fault (defined, approximate; solid circle indicates downthrow side)
 Thrust fault (defined, assumed; teeth indicate upthrust side)
 Anticline (defined, approximate; showing plunge of axis)
 Syncline (defined, approximate; showing plunge of axis)
 Fossil locality
 Measured section showing section number and approximate line of traverse
 Boundary of Quaternary sediments
 Geological boundary, fold axis, or fault, inferred beneath water or glacier
 Type section

ORDOVICIAN, SILURIAN, AND DEVONIAN

O-Dar (Unstudied) READ BAY FORMATION: limestone, siltstone; ALLEN BAY FORMATION: dolomite

Oe LOWER AND MIDDLE ORDOVICIAN ELEANOR RIVER FORMATION: limestone

Ob LOWER ORDOVICIAN BAUMANN FIORD FORMATION: anhydrite, gypsum, minor limestone (recessive)

Ou (Unstudied) NYGAARD BAY FORMATION: limestone; POLISEN CLIFF FORMATION: shale; CAPE CLAY FORMATION: limestone and dolomite; CASS FIORD FORMATION: limestone and flat-pebble conglomerate

Eu LOWER AND MIDDLE CAMBRIAN (Unstudied) CAPE WOOD FORMATION: limestone, dolomite, and minor conglomerate (Middle Cambrian); CAPE KENT FORMATION: dolomite and dolomitic limestone; POLICE POST FORMATION: sandstone and limestone; CAPE INGERSOLL FORMATION: dolomite; CAPE LEIPER FORMATION: dolomite; RENNELAER BAY FORMATION: sandstone; includes Sverdrup member of formation only (Lower Cambrian)

PEg ARCHEAN Gneiss, granite, migmatite, and related rocks (not studied in detail)

Geology North of Lat. 79°15' by J. W. Kerr, 1961, 1962
 Geology South of Lat. 79°15' by R. L. Christie, 1961
 Compiled by J. W. Kerr, 1972

DEVONIAN

LOWER DEVONIAN

De EIDS FORMATION: siltstone, limy

ODcp ORDOVICIAN, SILURIAN, AND DEVONIAN UPPER ORDOVICIAN, LOWER, MIDDLE AND UPPER SILURIAN, AND LOWER DEVONIAN CAPE PHILLIPS FORMATION: limy siltstone, graptolitic shale

OSa ORDOVICIAN AND SILURIAN UPPER ORDOVICIAN AND LOWER SILURIAN ALLEN BAY FORMATION: dolomite; minor limestone

Oe-c LOWER AND MIDDLE ORDOVICIAN (Unstudied) limestone, minor dolomite, greenish siltstone, anhydrite and gypsum

Ob LOWER ORDOVICIAN BAUMANN FIORD FORMATION: anhydrite, gypsum; minor limestone (recessive)

Oco COPES BAY FORMATION: limestone, minor flat-pebble conglomerate, anhydrite and dolomite

EPg CAMBRIAN MIDDLE CAMBRIAN PARRISH GLACIER FORMATION: limestone, shale interbeds; minor sandstone and flat-pebble conglomerate

Esb LOWER CAMBRIAN SCORESBY BAY FORMATION: dolomite; minor limestone

PEu PROTEROZOIC AND CAMBRIAN PROTEROZOIC AND LOWER CAMBRIAN ELLESMERE GROUP (Lower Cambrian) KANE BASIN FORMATION: sandstone, siltstone; RAWLINGS BAY FORMATION: sandstone and conglomerate; RITTER BAY FORMATION: shyllite, dark gray to black; ARCHER FIORD FORMATION: sandstone and conglomerate; ELLA BAY FORMATION (Proterozoic): dolomite, minor limestone; basal conglomerate; KENNEDY CHANNEL FORMATION: sandstone, shyllite, limestone, dolomite

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Geological boundary (defined, approximate, assumed)
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 Fault (defined, approximate; solid circle indicates downthrow side)
 Thrust fault (defined, assumed; teeth indicate upthrust side)
 Anticline (defined, approximate; showing plunge of axis)
 Syncline (defined, approximate; showing plunge of axis)
 Fossil locality
 Measured section showing section number and approximate line of traverse
 Boundary of Quaternary sediments
 Geological boundary, fold axis, or fault, inferred beneath water or glacier
 Type section

PALEOZOIC

DEVONIAN

LOWER DEVONIAN

De EIDS FORMATION: siltstone, sandstone, shale (all variably calcareous); minor pebble layers

S-Dcp SILURIAN AND DEVONIAN LOWER, MIDDLE AND UPPER SILURIAN CAPE PHILLIPS FORMATION: limy siltstone, graptolitic shale

OSa ORDOVICIAN AND SILURIAN UPPER ORDOVICIAN AND LOWER SILURIAN ALLEN BAY FORMATION: dolomite; minor limestone

ORDOVICIAN

LOWER AND MIDDLE ORDOVICIAN (Unstudied) limestone, minor dolomite, greenish siltstone, anhydrite and gypsum

Ob LOWER ORDOVICIAN BAUMANN FIORD FORMATION: anhydrite, gypsum; minor limestone (recessive)

Oco COPES BAY FORMATION: limestone, minor flat-pebble conglomerate, anhydrite and dolomite

CAMBRIAN

MIDDLE CAMBRIAN PARRISH GLACIER FORMATION: limestone, shale interbeds; minor sandstone and flat-pebble conglomerate

Esb LOWER CAMBRIAN SCORESBY BAY FORMATION: dolomite; minor limestone

PROTEROZOIC AND CAMBRIAN

PROTEROZOIC AND LOWER CAMBRIAN ELLESMERE GROUP (Lower Cambrian) KANE BASIN FORMATION: sandstone, siltstone; RAWLINGS BAY FORMATION: sandstone and conglomerate; ELLA BAY FORMATION (Proterozoic): dolomite

PRECAMBRIAN

PEg ARCHEAN Gneiss, granite, migmatite, and related rocks (not studied in detail)

Geological boundary (defined, approximate, assumed)
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 Fault (defined, approximate; solid circle indicates downthrow side)
 Thrust fault (defined, assumed; teeth indicate upthrust side)
 Anticline (defined, approximate; showing plunge of axis)
 Syncline (defined, approximate; showing plunge of axis)
 Fossil locality
 Measured section showing section number and approximate line of traverse
 Boundary of Quaternary sediments
 Geological boundary, fold axis, or fault, inferred beneath water or glacier
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QUATERNARY

Q Stream, deltaic, glacial and marine beach sediments (mapped only where underlying rock geology cannot be inferred with reasonable certainty)

KTe EUREKA SOUND FORMATION: sandstone, arkose, coal

ORDOVICIAN, SILURIAN, AND DEVONIAN (?)

O-Du (Unstudied) READ BAY FORMATION (?); ALLEN BAY FORMATION: CORNWALLIS GROUP; ELEANOR RIVER FORMATION

ORDOVICIAN

LOWER ORDOVICIAN

Oe limestone

Ob BAUMANN FIORD FORMATION: anhydrite, gypsum; minor limestone (recessive)

Ou (Unstudied) NYGAARD BAY FORMATION: limestone; POLISEN CLIFF FORMATION: shale; CAPE CLAY FORMATION: limestone and dolomite; CASS FIORD FORMATION: limestone and flat-pebble conglomerate

CAMBRIAN

LOWER AND MIDDLE CAMBRIAN (Unstudied) CAPE WOOD FORMATION: limestone, dolomite, and minor conglomerate (Middle Cambrian); CAPE KENT FORMATION: dolomite and dolomitic limestone; POLICE POST FORMATION: sandstone and limestone; CAPE INGERSOLL FORMATION: dolomite; CAPE LEIPER FORMATION: dolomite; RENNELAER BAY FORMATION: sandstone; includes Sverdrup member of formation only (Lower Cambrian)

Es LOWER CAMBRIAN RENNELAER BAY FORMATION: BACHE PENINSULA MEMBER: arkose, conglomerate, CAMPERDOWN MEMBER: sandstone, shale, dolomite (the uppermost member is included with the overlying map unit)

ARCHEAN

PEg Gneiss, granite, migmatite and related rocks (not studied in detail)

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Note 1. Section 2 contains the type sections of the Kennedy Channel and Ella Bay Formations. It also contains the type sections of the Ellesmere Group and four of its five members, notably the Archer Fiord, Ritter Bay, Rawlings Bay and Kane Basin Formations. This section has been figured and described in Geological Survey of Canada Paper 67-27 Part II.

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