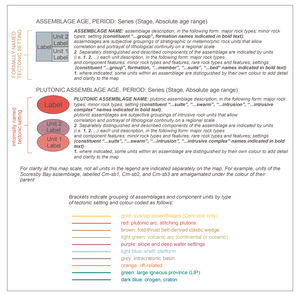


ASSEMBLAGE AGE, PERIOD: Series (Stage, Absolute age range)

ASSEMBLAGE NAME: *assemblage description, in the following form: major rock types; minor rock types; setting* **(constituent "...group", formation names indicated in bold text)**.
1. *Where indicated, some units within an assemblage are distinguished by their own colour to add detail and clarity to the map.*
2. *Separately distinguished and described components of the assemblage are indicated by units (i.e. 1.2. ...) each unit description, in the following form: major rock types and component features; minor rock types and features; rare rock types and features; setting* **(constituent "...suite", "...awarm", "...intrusion", formation names indicated in bold text)**
1. *Where indicated, some units within an assemblage are distinguished by their own colour to add detail and clarity to the map*

PLUTONIC ASSEMBLAGE AGE, PERIOD: Series (Stage, Absolute age range)

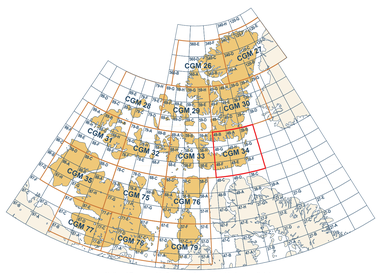
PLUTONIC ASSEMBLAGE NAME: *plutonic assemblage description, in the following form: major rock types; minor rock types; setting* **(constituent "...suite", "...awarm", "...intrusion", "...intrusive complex" names indicated in bold text)**.
plutonic assemblages are subjective groupings of intrusive rock units that have a common correlation and portrayal of lithological continuity on a regional scale
1. *Where indicated, some units within an assemblage are distinguished by their own colour to add detail and clarity to the map*
2. *Separately distinguished and described components of the assemblage are indicated by units (i.e. 1.2. ...) each unit description, in the following form: major rock types and component features; minor rock types and features; rare rock types and features; settings* **(constituent "...suite", "...awarm", "...intrusion", "...intrusive complex" names indicated in bold text)**
1. *Where indicated, some units within an assemblage are distinguished by their own colour to add detail and clarity to the map*

For clarity at this map scale, not all units in the legend are indicated separately on the map. For example, units of the Scoresby Bay assemblage, labelled Cm-sb1, Cm-sb2, and Cm-sb3 are amalgamated under the colour of their parent

Brackets indicate grouping of assemblages and component units by type of tectonic setting and colour coded as follows:

- (pale) shelf/ramp assemblages (Cambrian only)
- red: plutonic arc, stitching plutons
- brown: fold/thrust belt-derived clastic wedge
- light green: volcanic arc (continental or oceanic)
- purple: slope and deep water settings
- light blue: shelf/ramp
- grey: intracratonic basin
- orange: rift-related
- green: large igneous province (LIP)
- dark blue: orogen, craton

Figure 1. Explanation of map unit features.



National Topographic System reference and index to adjoining published Geological Survey of Canada maps

Abstract

This map and the related geodatabase illustrate the bedrock geology of eastern Devon Island, Coburg Island, and southern Ellesmere Island. Major features of the area include: high-grade Neoarchean and Paleoproterozoic metasedimentary and granitoid rocks of the (?)Rae craton and Inglefield Orogen, Mesoproterozoic (Ectasian and Stenian) sedimentary and Devonian platformal strata, and (on Ellesmere Island) the Middle and Upper Devonian foreland clastic wedge associated with the Ellesmerian Orogen.

Résumé

Cette carte et la géodatabase qui s'y rapporte documentent la géologie du substratum rocheux dans l'est de l'île Devon, l'île Coburg et le sud de l'île d'Ellesmere. Les principales entités géologiques de la région comprennent : des roches métamorphiques et granitoïdes néoarchéennes et paléoprotérozoïques à haut degré du (?)craton de Rae et de l'orogène de Inglefield, des roches sédimentaires mésozoïques (ectasiennes et sténiennes) et des strates de plate-forme discordantes et généralement horizontales (Cambrien au - Dévonien inférieur), et, sur l'île d'Ellesmere, la prisme de roches clastiques d'avant-pays du Dévonien moyen et supérieur associé à l'orogène ellesmérien.

Cover illustration
Paleoproterozoic basement gneisses, Makinson Inlet, southeastern Ellesmere Island, Nunavut. Photograph by J.C. Harrison. 2013-066

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CANADIAN GEOSCIENCE MAP 34
GEOLOGY
TECTONIC ASSEMBLAGE MAP OF GRISE FIORD
eastern Devon and southern Ellesmere islands, Nunavut
1:500 000

Preliminary

Canadian Geoscience Maps

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Canada

Preliminary

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Preliminary

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Critical review by K. Dewing

Initiative of the Geological Survey of Canada, conducted under the auspices of the Tri-Territorial Project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program.

CANADIAN GEOSCIENCE MAP 34
GEOLOGY
TECTONIC ASSEMBLAGE MAP OF GRISE FIORD
eastern Devon and southern Ellesmere islands, Nunavut

1:500 000

10 0 10 20 30 40 km

Preliminary

Map projection Lambert Conformal Conic, standard parallels 74°30'N and 76°30'N. North American Datum 1983

Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications.

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area.

Mean magnetic declination 2014, 45°22'W, decreasing 58.1' annually. Readings vary from 35°39'W in the SW corner to 50°22'W in the NE corner of the map.

Preliminary

The Geological Survey of Canada welcomes corrections or additional information from users.

Data may include additional observations not portrayed on this map. See documentation accompanying the data.

This publication is available for free download through GEOSCAN (http://geoscan.nrcan.gc.ca/).

This map is not to be used for navigational purposes

Preliminary Preliminary

Preliminary publications in this series have not been scientifically edited.

CANADIAN GEOSCIENCE MAP 34
GEOLOGY
TECTONIC ASSEMBLAGE MAP OF GRISE FIORD
eastern Devon and southern Ellesmere islands, Nunavut

QUATERNARY

HOLOCENE

Glacier ice: Ice cap.

PLEISTOCENE

Surficial: Sand, silt, clay, gravel; unconsolidated; marine bivalves; glacio-fluvial, nearshore marine deposits.

PALEOGENE

PALEOCENE AND EOCENE (Selandian to middle Eocene)

Eurekan orogen cover

EUREKAN OROGEN, Eurekan foreland

EUREKA SOUND: Sandstone, siltstone, shale; local conglomerate; minor coal; volcanogenic sandstone; mostly fluvial and deltaic; local syntectonic alluvial fan deposits **(Eureka Sound)**.
1. Sandstone, fine- to coarse-grained; siltstone, shale; local conglomerate, coal, volcanogenic sandstone; common plant fossils; mostly fluvial and deltaic; local syntectonic alluvial fan deposits **(Eureka Sound)**.

DEVONIAN

LATE DEVONIAN (Frasnian)

Dnp

Dng

NORDSTRAND: Sandstone, quartzose and cherty, fine-grained, thin- to medium-bedded; red brown and green weathering; siltstone; ripples, trough cross-stratified, fining upward cycles, burrows, root casts, plant fragments; rare thin coal; meandering fluvial and overbank settings **(Nordstrand Point)**.

HELL GATE: Sandstone, quartzose and cherty, yellow to orange weathering, very fine- to medium-grained, medium- to thick-bedded; trough and planar cross-stratified, fining upward cycles, minor pebbly sandstone, shale chip conglomerate; siltstone, green and red weathering; thin-bedded, recessive; fluvial channel and overbank deposits **(Hell Gate)**.

Df

FRAM: Sandstone, quartzose and cherty, dusky red, green and grey weathering, very fine- to fine-grained, thin- to thick-bedded, trough cross-stratification; fining and coarsening upward cycles; siltstone, thin-bedded; rip-up clasts, plant and fish fragments; meandering fluvial channel and overbank deposits **(Fram)**.

Ellesmerian foreland, ELLESMERIAN OROGEN

MIDDLE DEVONIAN (Eifelian and Givetian)

Dhb

HECLA BAY: Sandstone, quartzose, fine- to medium-grained, locally pebbly, friable grading to cemented and resistant in the western Arctic; off-white, yellowish grey, and light green weathering, mod to thick-bedded, trough cross-stratified; minor very fine sandstone, siltstone, shale; coarsening upward cycles; local chert pebble conglomerate; humid tropical setting, fluvial braidplain and deltaic; grading to marginal marine in the western Arctic **(Hecla Bay)**.

EARLY AND MIDDLE DEVONIAN (Emsian and Eifelian)

Dbl4

Dbl1

BIRD FIORD: Sandstone, limestone, dolostone; minor siltstone, shale; local anhydrite; deltaic and shallow marine shelf, mostly unrestricted.
4. Sandstone, micaceous, red, fine-grained, thin-bedded, calcareous; siltstone, shale; common coarsening-upward cycles; deltaic **(Bird Fiord, Redbed facies)**.
1. Sandstone, micaceous, grey-green, fine-grained, thin-bedded, calcareous, fossiliferous; limestone, light grey to yellow grey, thin-bedded and stromatolitic; minor chert nodules; local stromatoporoid-coral biohermes, dolostone, fine-grained, laminated; minor siltstone, shale; common coarsening-upward cycles; local gypsum, anhydrite; deltaic and shallow marine shelf, mostly unrestricted **(Bird Fiord)**.

Dsf1

STRATHCONA FIORD: Siltstone, sandstone, minor conglomerate, limestone; meandering fluvial settings, locally brackish shallow marine.
1. Siltstone, micaceous, grey, red and green weathering; sandstone, yellow to grey weathering, thin- to thick-bedded, cross-stratified, fine-grained; fining upward cycles; minor chert pebble conglomerate, limestone containing crinoids, ostracodes and fish fragments; mostly meandering fluvial settings, locally brackish shallow marine **(Strathcona Fiord)**.

EARLY DEVONIAN (Emsian)

Baffin uplift cover

DblE3

DblE2

DblE1

BLUE FIORD-EAST: Limestone, dolostone, wackestone, sandstone; minor shale; nearshore and restricted, grading to shallow subtidal, unrestricted.
3. Dolostone and limestone, yellow and yellowish brown weathering; thick-bedded, fenestral, vuggy porosity; shallow marine shelf, restricted and unrestricted; locally on central Ellesmere Island; dolostone, limestone, silty, red and yellowish-green-weathering; thin-bedded; recessive; siltstone, laminated, ripple marks; minor gypsum-anhydrite, nodular and laminated; mostly shallow, restricted to peritidal, hypersaline **(Blue Fiord, Upper part)**.
2. Limestone, yellowish grey; medium- to thick-bedded, bioturbated; fossiliferous, fenestral, biostromal, biohermal; minor dolostone, shale; minor sandstone, calcareous; pale yellowish brown and dusky yellow weathering; thin-bedded, shallow subtidal unrestricted to nearshore **(Blue Fiord, Lower part)**.
1. Limestone, grey; medium- to thick-bedded, bioturbated; fossiliferous, dark grey, argillaceous; fossiliferous dolostone and argillaceous limestone; stromatoporoids, cnroids, brachiopods, corals, fenestralids; dolostone and limestone, light grey to yellow, fenestral, fine- to medium-grained; local sandstone; minor shale; mostly shallow subtidal, periodically peritidal, restricted and unrestricted **(Blue Fiord)**.

EARLY DEVONIAN (Pragian and Emsian)

BACHE UPLIFT

Dv

VENOM: Dolostone, variably arenaceous, red, yellowish green, and yellowish brown weathering; thin- to thick-bedded; variably laminated with tint's eye and local bromoidic porosity, locally fossiliferous; conglomeratic, granule to cobble, rarely boulder grade; minor sandstone, siltstone, gypsum; and climate alluvial fans grading to restricted nearshore **(Vendom Fiord)**.

SILURIAN AND DEVONIAN

LUDLOW TO EARLY DEVONIAN (Pragian)

Cape Phillips embayment

SDd1

DEVON ISLAND: Shale, limestone; local oldostromes, biohermsl; deep water and sediment starved, locally grading to shelf ramp.
1. Calcareous shale and silty shale, dark grey to black; argillaceous limestone, thin-bedded, local stromatoporoid-coral biohermsl often dolomitized, carbonate conglomerate, breccia, concretions; common graptolites in the lower part; mostly deep water and sediment starved, locally grading to shallow shelf ramp on southern Ellesmere **(Devon Island)**.

SDg1

GOOSE FIORD: Dolostone, limestone, mudstone; minor wackestone, siltstone, sandstone; nearshore, shelf and shelf edge including reefs and foreslope, mostly unrestricted.
1. Dolostone, limestone; light grey to pale yellowish brown weathering; thin- to massive-bedded, resistant; locally common brachiopods, bryozoa, corals, silicified trilobites; chert nodules; local stromatoporoid-coral biohermsl, oldostolithi; minor siltstone, sandstone (upper part); feldspathic, fine-grained; medium- to thick-bedded, cross-stratified; overall shallowing upward from subtidal to peritidal, mostly unrestricted **(Goose Fiord)**.

SILURIAN

LUDLOW

Sdo1

DOURO: Limestone; minor dolostone, shale; local biohermis; shallow to deep subtidal shelf ramp.
1. Argillaceous limestone, limestone, dolomitic limestone; nodular, burrow-mottled, minor dolostone, calcareous shale, calcisiltite; local sponge-coral-stromatoporoid mud mounds on Somerset Island, and favosid-microbial biostromes in basal beds on Grinnell Peninsula; shallow to deep subtidal outer shelf ramp **(Douro)**.

Scs

CAPE STORM: Dolostone; grey, buff and brown weathering; very fine- to fine-grained, thin- to thick-bedded, laminated, mud-cracked, molar-tooth structures, stromatolitic, microbial; lesser dolomitic limestone, oolitic and peloidal; minor silty dolostone, siltstone, shale; mostly restricted intertidal and supratidal **(Cape Storm)**.

ORDOVICIAN TO SILURIAN

RICHMONDIAN TO LUDLOW

Osa

ALLEN BAY: Dolostone, limestone; local biohermis, anhydrite; arid subtidal to supratidal settings.
1. Dolostone, medium- to thick-bedded, light grey to yellowish brown, medium-grained, in part fossiliferous; bitumen stained; lesser dolomitic limestone, burrow mottled; minor flat pebble conglomerate; local stromatoporoid biohermis, local gypsum and anhydrite (Somerset Island); common shallowing upward cycles; semi-arid to arid subtidal to supratidal settings **(Allen Bay)**.

ORDOVICIAN

MIDDLE AND LATE ORDOVICIAN (Blackriveran to Richmondian)

Oct5

THUMB MOUNTAIN: Limestone, mudstone, grainstone, wackestone, dolostone; subtidal and intertidal, restricted and unrestricted.
5. **Thumb Mountain, Irene Bay**, undivided.

MIDDLE ORDOVICIAN (Whiterockian)

Odb1

BAY FIORD: Dolostone, limestone; minor anhydrite, rock salt, breccia; initially hypersaline grading to mostly restricted peritidal.
1. Dolostone, dolomitic limestone; very fine- to fine-grained, thin- to medium-bedded, grey to grey-green weathering; limestone, pale to dark brown, massive-bedded, burrow mottled, locally bioclastic; basal discontinuous member of gypsum, anhydrite, solution breccia and, in the Parry Islands, subsurface rock salt; initially hypersaline grading up into mostly restricted peritidal **(Bay Fiord)**.

EARLY ORDOVICIAN (Arenig)

Oe1

ELEANOR RIVER: Limestone, dolostone, grainstone, packstone, wackestone, mudstone; unrestricted, peritidal to subtidal shelf.
1. Limestone, lesser dolostone; light brown to dark brown, thick- to massive-bedded, burrow mottled, grainstone, packstone, wackestone, stromatolitic and thrombolitic members alternating with recessive light yellowish grey, very thin- and thin-bedded lime mudstone and grainstone members; unrestricted subtidal to peritidal **(Eleanor River)**.

EARLY ORDOVICIAN (Tremadoc and Arenig)

Ob1

BAUMANN FIORD: Anhydrite; minor dolostolite, limestone; and climate, hypersaline subtidal to peritidal shelf.
1. Gypsum, anhydrite; white and light grey weathering; planar parallel lamination; intensely tectonized; recessive; minor dolosiltite, limestone including mudstone, grainstone, packstone, stromatolitic boundstone, flat pebble conglomerate; and climate, hypersaline subtidal to peritidal shelf **(Baumann Fiord)**.

EARLY ORDOVICIAN (Tremadoc)

Oce

CHRISTIAN ELV: Limestone, including lime mudstone, calcisiltite; medium to dark grey weathering; medium- to thick-bedded; ripples, mud cracks; intraclast flat pebble conglomerate; minor thrombolitic boundstone; dolosiltite, quartz sandstone, calcareous; medium-grained; medium- to thick-bedded; cross-stratified; restricted shelf, shallow subtidal to peritidal **(Christian Elv)**.

Occ

CAPE CLAY: Dolostone, limestone including lime mudstone, packstone, grainstone, thrombolitic microbialite; thick- to massive-bedded; grey to grey-brown weathering, burrow-mottled; rare dolosiltite, flat pebble conglomerate, nodular chert; mostly subtidal unrestricted shallow marine shelf **(Cape Clay)**.

Prairie Creek Embayment, ARCTIC PLATFORM

CAMBRIAN AND ORDOVICIAN

MIDDLE CAMBRIAN TO EARLY ORDOVICIAN (Tremadoc)

Cm-cf1

CASS FJORD: Dolostone, limestone, intraclast conglomerate; minor shale, sandstone, gypsum; local biohermis; peritidal grading to subtidal shelf.
1. Dolostone, limestone; light grey and grey-brown, thin-bedded; intraclast flat-pebble conglomerate; calcisiltite, dolosiltite, stromatolitic boundstone; minor shale, sandstone, gypsum, local carbonate mud mounds and algal reefs; mostly peritidal grading northwest to subtidal settings **(Cass Fjord)**.

CAMBRIAN

EARLY AND MIDDLE CAMBRIAN (Series 2, 3)

Framstrait shelf, ARCTIC PLATFORM

Cm-sb3

SCORESBY BAY: Dolostone, limestone; minor basal sandstone, intraclast conglomerate, sedimentary breccia; nearshore grading to shallow marine shelf.
3. Limestone, dolostone, variably argillaceous and arenaceous, medium- to thick-bedded, medium- and coarse-grained, yellow-orange and brown; minor flat-pebble conglomerate, sandstone; nearshore and shallow marine, restricted and unrestricted **(Cape Leiper, Cape Ingersoll, Police Post, Cape Kent, Cape Wood)**; sandstone, coarse-grained to pebbly, medium- to thick-bedded; crossbedded; yellow-orange; shoreface and nearshore shallow marine **(Dallas Bugt)**.

ARCTIC PLATFORM

Cm-rb1

RABBIT POINT: Limestone, dolostone; sandstone; fluvial and nearshore grading to shallow subtidal.
1. Sandstone, thick-bedded, planar and trough cross-stratified, medium- to coarse-grained, grey, yellow, red weathering; sandstone, very fine- to fine-grained, thin-bedded, ripples, desiccation cracks, trace fossils; fluvial and nearshore settings **(Rabbit Point)**; limestone, nodular, burrowed, tribolite fragments; dolostone, medium- to coarse-grained, in part silty or arenaceous, burrow mottled; subtidal shelf ramp **(Bear Point)**.

MESOPROTEROZOIC

ECTASIAN AND STENIAN (1270 to 1000 Ma)

BORDEN BASIN

mPs1

BORDEN: Siltstone, shale, sandstone, dolostone; syntectonic alluvial fans grading to fluvial and shallow marine.
1. Siltstone and shale, laminated to thin-bedded; sandstone to very thick-bedded; stromatolitic dolostone, dolostone intraclast and polymictic conglomerate; synteconic alluvial fans grading to fluvial and shallow marine settings **(Strathcona Sound)**.

THULE BASIN

mPt4

mPt3

THULE: Quartzite, conglomerate, siltstone, shale, dolostone; minor basalt.
4. Orthoquartzite, quartz-pebble conglomerate, red siltstone, shale, dolostone, microbialite, minor limestone, basalt flows; intruded by sills of Franklin-Thule swarm **(Nares Strait group, Smith Sound group)**.

PALEOPROTEROZOIC

OROSIRIAN (1980 to 1915 Ma)

INGLEFIELD OROGEN

pPeg2

pPep1

ETAH plutonic assemblage: Tonalite, granite; minor paragneiss, pegmatite; collisional setting plutonic complex.
2. Orthopyroxene granite, perthite porphyroblasts, red and pink, locally containing metasedimentary enclaves, locally retrograded.
1. Orthopyroxene tonalite; minor orthopyroxene granite, granodiorite; plagioclase porphyroblasts; red, brown, grey; common granite and pegmatite veins, layers; locally retrograded.

OROSIRIAN (1980 to 1920 Ma)

INGLEFIELD OROGEN, Rae cratonic cover

pPe5

pPe4

pPe3

pPe2

pPe1

ETAH: Paragneiss, cordierite sillimanite gneiss, quartzite, marble; minor pyriboilte; interleaved granoiloids, orthogneiss; granulite grade supracrustal rocks.
5. Ultramafic pyriboilte.
4. Pyriboilte, amphibolite, metadykes.
3. Marble, calsilicate.
2. Quartzite with sillimanite, garnet, feldspar.
1. Sillimanite gneiss with garnet, cordierite, biotite; minor pyriboilte, marble, quartzite, quartzofeldspathic gneiss with pyroxene.

NEOARCHEAN AND PALEOPROTEROZOIC (to 1915 Ma)

INGLEFIELD OROGEN, Rae craton

ApPi

INGLEFIELD: orthogneiss, granite, tonalite; minor syenite, pegmatite; high grade collisional plutonic complex.
5. Granulite, granulite gneiss, granite, tonalite, minor pyriboilte, amphibolite, marble, cordierite and sillimanite gneiss and other metasediments.
4. Hornblende-biotite gneiss; grey, pink, red; retrograded.
2. Orthopyroxene tonalite, tonalitic gneiss; minor granitic gneiss, granite veins, pegmatite; grey, greenish grey; locally retrograded.
1. Orthopyroxene granite, granitic gneiss, tonalite, tonalitic gneiss; minor orthopyroxene granodiorite, syenite, granite veins, pegmatite; brown, red, feldspar porphyroblasts, locally retrograded.

Contacts

Geological boundary; defined or approximate

Faults

Fault: approximate

Fault: assumed

Fault: inferred

Fault: approximate, showing downthrown side

Fault: assumed, showing downthrown side

Fault: inferred, showing downthrown side

Thrust faults

Thrust fault: approximate, teeth indicate upthrust side

Thrust fault: inferred, teeth indicate upthrust side

REFERENCES

Dawes, P.R., 1997. The Proterozoic Thule Supergroup, Greenland and Canada: history, lithostratigraphy and development. Geology of Greenland Survey Bulletin 174.

Dawes, P.R., 2006. Explanatory notes to the geological map of Greenland, 1:500,000, Thule, sheet 5. Geological Survey of Denmark and Greenland Map Series 2.

de Freitas, T.A., Harrison, J.C., and Mayr, U., 1997. Sequence stratigraphic correlation chart of the lower Paleozoic Franklinian succession, Canadian Arctic Islands and parts of north Greenland; Geological Survey of Canada, Open File 3410.

Dewing, K. and Nowlan, G.S., 2004. Correlation chart of Cambrian and Ordovician stratigraphy, Arctic Islands, Nunavut, Canada. Geological Survey of Canada, Open File 1837, 1p.

Dewing, K. and Nowlan, G.S., 2012. The Lower Cambrian to Lower Ordovician carbonate platform and shelf margin, Canadian Arctic Islands, in The great American carbonate bank: The geology and economic resources of the Cambrian–Ordovician Sauk megasequence of Laurentia, (ed.) J.R. Derby, R.D. Fritz, S.A. Longacre, W.A. Morgan, and S.A. Sternbach: AAPG Memoir 98, p. 627–647.

Embry, A.F. 1991a. Chapter 10: Middle-Upper Devonian Clastic Wedge of the Arctic Islands in Geology of the Innuitian Orogen and Arctic Platform of Canada and Greenland, (ed.) H.P.Trettin; Geological Survey of Canada, Geology of Canada Series no. 3 p. 263–279.

Frisch, T., 1984a. Geology, Makinson Inlet, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1573A, scale 1:250 000.

Frisch, T., 1984b. Geology, Devon Ice Cap, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1574A, scale 1:250 000.

Frisch, T., 1988. Reconnaissance Geology of the Precambrian Shield of Ellesmere, Devon and Coburg Islands, Canadian Arctic Archipelago; Geological Survey of Canada, Memoir 409, 102 p.

Harrison, J.C., Mayr, U., McNeil, D.H., Sweet, A.R., McIntyre, D.J., Eberle, J.J., Harington, C.R., Chalmers, J.A., Dam, G., and Nøhr-Hansen, H., 1999. Correlation of Cenozoic sequences of the Canadian Arctic region and Greenland; implications for the tectonic history of northern North America; Bulletin of Canadian Petroleum Geology vol. 47, no. 3, p. 223–254.

Kerr, J.W. and Thorsteinsson, R., 1972. Geology, Baumann Fiord, District of Franklin; Geological Survey of Canada, Map 1312A, scale 1:250 000.

Mayr, U. and Okulitch, A.V., 1984a. Geology, Basil Fiord – Cardigan Strait, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1564A, scale 1:250 000.

Mayr, U. and Okulitch, A.V., 1984b. Geology, Craig Harbour, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1841A, scale 1:250 000.

Miall, A.D., 1986. The Eureka Sound Group (Upper Cretaceous – Oligocene), Canadian Arctic Islands. Bulletin of Canadian Petroleum Geology v. 34, p. 240–270.

Miall, A.D., 1991. Chapter 15 Late Cretaceous and Tertiary Basin Development and Sedimentation, Arctic Islandsin Geology of the Innuitian Orogen and Arctic Platform of Canada and Greenland, (ed.) H.P. Trettin; Geological Survey of Canada, Geology of Canada Series no. 3, p. 437–458.

Thorsteinsson, R., 1986a. Geology, Bear Bay East and Lady Ann Strait, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1610A, scale 1:250 000.

Thorsteinsson, R., 1986b. Geology, Bear Bay West and Baillie-Hamilton Island, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1614A, scale 1:250 000.

Thorsteinsson, R., 1986c. Geology, Dundas Harbour, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1616A, scale 1:250 000.

Thorsteinsson, R., 1986d. Geology, Maxwell Bay and Resolute, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1615A, scale 1:250 000.

Thorsteinsson, R., 1986e. Geology, Powell Inlet, District of Franklin, Northwest Territories; Geological Survey of Canada, Map 1612A, scale 1:250 000.

Thorsteinsson, R. and Mayr, U., 1987. The Sedimentary Rocks of Devon Island, Canadian Arctic Archipelago; Geological Survey of Canada, Memoir 411, 182 p.

Thorsteinsson, R., Harrison, J.C., and de Freitas, T.A., 2009. Phanerozoic bedrock geology, Vendom Fiord area, Ellesmere Island, Nunavut; Geological Survey of Canada, Map 2142A, scale 1:125 000.

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