

Sedimentary basins concealed by volcanic rocks

In two areas, one off East Greenland between latitudes 72° and 75°N and the other between 68° and 73°N off West Greenland, there are extensive Tertiary volcanic rocks which are known in places to overlie thick sedimentary successions. It is difficult on the basis of existing seismic data to learn much about these underlying sediments, but extrapolation from neighbouring onshore areas suggests that oil source rocks are present.

Seismic data acquired west of Disko in 1995 have revealed an extensive direct hydrocarbon indicator in the form of a 'bright spot' with a strong AVO (Amplitude Versus Offset) anomaly, which occurs in the sediments *above* the basalts in this area. If hydrocarbons are indeed present here, they could either have been generated below the basalts and have migrated through the fractured lavas into their present position (Skaarup & Chalmers 1998) or, alternatively, be derived from a source rock in the presumably upper Paleocene – lower Eocene sediments above the lavas and down-dip from the bright spot (see Fig. 50).

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Legend explanation

Geological units

Onshore: indicated by numbers [1]–[86] in the map legend.

Offshore: indicated by letters [a]–[g] and six ornamentations in the map legend.

Onshore

- [1] Sverdrup Basin (undifferentiated). Unit occurs only on Ellesmere Island, Canada.
- [2] Pearya – mainly exotic terrane. Unit occurs only in northernmost Ellesmere Island, Canada (p. 37).
- [3]–[5] late middle Proterozoic/earliest late Proterozoic Thule Supergroup (p. 30), North-West Greenland. Age shown on map revised following new acritarch studies.
- [3] Carbonate and siliciclastic sediments: Narssârssuk Group, North-West Greenland.
- [4] Shales and siltstones: Dundas Group, North-West Greenland.
- [5] Sandstones and shales: Smith Sound, Nares Strait and Baffin Bay Groups, North-West Greenland.
- [6] Paleocene tholeiitic lavas, central West Greenland (p. 48).
- [7] Paleocene picritic lavas, central West Greenland (p. 48).
- [8] Cretaceous–Paleocene sediments: Kome, Atane, Kangilia, Quikavsak, Atanikerdluk Formations and Itilli succession, central West Greenland (pp. 46, 62).
- [9] Ordovician limestone in fault block in Archaean gneiss. 'Fossilik' locality (Stouge & Peel 1979), southern West Greenland (65°25'N).
- [10] Phanerozoic limestones in fault block within reworked Archaean gneiss (Peel & Secher 1979), southern West Greenland (66°32'N).
- [11] Basaltic lavas: Eriksfjord Formation, middle Proterozoic, Gardar Province, South Greenland (p. 26).
- [12] Continental sandstones and conglomerates: Eriksfjord Formation, middle Proterozoic, Gardar Province, South Greenland (p. 26).
- [13] Pliocene–Pleistocene sand-silt deposits: Kap København Formation, central North Greenland (p. 51).
- [14] Paleocene–Eocene fluvial sandstones: Thyra Ø Formation, Wandel Sea Basin, eastern North Greenland (p. 43).
- [15] Upper Cretaceous sandstones and shales: Herlufsholm Strand Formation and correlatives, Wandel Sea Basin, central and eastern North Greenland (p. 43).
- [16] Uppermost Cretaceous basic volcanics and volcanogenic sediments: Kap Washington Group, Wandel Sea Basin, central North Greenland (p. 43).
- [17] Upper Jurassic – Lower Cretaceous sandstones and shales: Ladegårdsåen Formation and correlatives, Wandel Sea Basin, central and eastern North Greenland (p. 43).
- [18] Upper Permian – Middle Triassic shales and sandstones: Trolle Land Group, Wandel Sea Basin, central and eastern North Greenland (p. 43).
- [19] Upper Carboniferous – Lower Permian carbonates: Mallemuk Mountain Group, Wandel Sea Basin, central and eastern North Greenland (p. 43).
- [20] Lower Carboniferous sandstones and siltstones: Sortebakker Formation, Wandel Sea Basin, eastern North Greenland (p. 43).
- [21] Silurian carbonates deposited on shelf and slope areas: Washington Land Group, Franklinian Basin, North Greenland (pp. 35, 36).
- [22] Silurian sandstones and siltstones deposited in deep-water turbiditic trough: Peary Land Group, Franklinian Basin, North Greenland and Ellesmere Island (pp. 35, 36).
- [23] Lower Cambrian – Lower Silurian carbonates from shelf and slope areas: Brønlund Fjord, Tavsen Iskappe, Ryder Gletscher and Morris Bugt Groups, Franklinian Basin, North and North-West Greenland and Ellesmere Island (pp. 35, 36).
- [24] Upper part of Lower Cambrian – Lower Silurian mudstones and shales: starved slope and trough deposits, Vølvedal and Amundsen Land Groups, Franklinian Basin, North Greenland and Ellesmere Island (pp. 35, 36, 62).
- [25] Lower Cambrian carbonates and siliciclastic sediments; shallow-water deposits: Portfeld and Buen Formations, Franklinian Basin, North and North-West Greenland and Ellesmere Island (pp. 35, 36).
- [26] Lower Cambrian calcareous mudstones and sandy turbidites: Skagen, Paradisfjeld and Polkorridoren Groups, deep-water trough deposits in the Franklinian Basin in North Greenland and on Ellesmere Island (pp. 35, 36).
- [27] Upper Proterozoic siliciclastic and carbonate sediments: Hagen Fjord Group, North Greenland (p. 31).
- [28] Uppermost Precambrian (Varangian) diamictites and sandstones: Morænesø Formation, central North Greenland (pp. 32, 33).
- [29] Upper Proterozoic sandstones in Caledonian nappe units: Rivieradal sandstones, in part equivalent to the Hagen Fjord Group, eastern North Greenland (pp. 31, 32).
- [30] Middle Proterozoic tholeiitic basalts: Zig-Zag Dal Basalt Formation, central and eastern North Greenland (pp. 26, 31).
- [31] Lower–middle Proterozoic sandstones: Independence Fjord Group, central and eastern North Greenland. Shown as middle Proterozoic on the map legend, but new age dating indicates parts are older than 1740 Ma (pp. 24, 31).
- [32] Tertiary (Paleocene–Eocene?) plateau basalts: North-East Greenland (p. 50).
- [33] Upper Jurassic and Lower Cretaceous shallow marine sandstones: Raukelv, Hesteelv, Lindemans Bugt and Palnatokes Bjerg Formations and Aptian–Albian sediments, central East and North-East Greenland (p. 45).
- [34] Middle–Upper Jurassic marine sandstones and shales: Vardekloft, Olympen, Hareelv and Bernberg Formations, central East and North-East Greenland (p. 45).

- [35] Upper Triassic – Lower Jurassic lacustrine sandstones and shales: Kap Stewart and Neill Klintor Groups, central East Greenland (pp. 44, 45).
- [36] Lower–Upper Triassic alluvial sandstones and lacustrine dolomites and shales: Pingo Dal, Gipsdalen and Fleming Fjord Formations, central East Greenland (pp. 44, 45).
- [37] Upper Permian – Lower Triassic shallow marine carbonates, sandstones and shales: Foldvik Creek Group and Wordie Creek Formation, central East Greenland (p. 45).
- [38] Carboniferous – Lower Permian fluvial sandstones and shales, central East and North-East Greenland (pp. 42, 44).
- [39] Middle–Upper Devonian continental siliciclastic sediments: Vilddal, Kap Kolthoff, Kap Graah and Celsius Bjerg Groups, North-East and central East Greenland (pp. 41, 44).
- [40] Cambro-Ordovician dominantly limestones and dolomites in the East Greenland Caledonian fold belt: Kløftelv, Bastion, Ella Ø, Hyolithus Creek, Dolomite Point, Antiklinalbugt, Cape Weber, Narwhale Sound and Heim Bjerger Formations, North-East Greenland (pp. 38, 39).
- [41] Tillites of supposed Vendian age in isolated occurrences, central East Greenland (p. 33).
- [42] Diamictites, sandstones, shales and dolostones in succession of Vendian age: Tillite Group in East Greenland Caledonian fold belt, North-East Greenland (pp. 33, 40).
- [43] Succession of siliciclastic, calcareous and dolomitic sediments of late Proterozoic age: upper Eleonore Bay Supergroup including Lyell Land, Ymer Ø and Andrée Land Groups, East Greenland Caledonian fold belt, North-East Greenland (pp. 32, 40).
- [44] Sequence of sandstones and siltstones of late Proterozoic age: Nathorst Land Group, lower Eleonore Bay Supergroup, East Greenland Caledonian fold belt, North-East Greenland (pp. 32, 40).
- [45] Middle–late Proterozoic to Early Palaeozoic? Mixed metasediments and greenstones. Exposed in tectonic windows in the East Greenland Caledonian fold belt, North-East Greenland (pp. 33, 40).
- [46] Middle Proterozoic metasediments in the East Greenland Caledonian fold belt: Krummedal supracrustal sequence and correlative Smallefjord sequence, North-East Greenland (pp. 27, 40).
- [47] Lower and Upper Tertiary siliciclastic sediments overlying Eocene basalts, central and southern East Greenland (p. 50).
- [48] Eocene tholeiitic plateau basalts in central and southern East Greenland (p. 49).
- [49] Paleocene–Eocene tholeiitic basalts with picritic intervals, southern East Greenland (p. 49).
- [50] Uppermost Cretaceous – Upper Paleocene sandstones and shales. Pre-basaltic succession in Kangerlussuaq Basin, southern East Greenland (p. 46).
- [51] Uppermost Tertiary and Quaternary basic lavas on Iceland.
- [52] Migmatites and gneisses of middle Proterozoic and older origin in the East Greenland Caledonian fold belt, central East and North-East Greenland (pp. 27, 40) and Ellesmere Island, Canada (p. 37).
- [53] Tertiary felsic intrusions in East Greenland (pp. 50, 63).
- [54] Late to post-kinematic granitic *s.l.* intrusions in the East Greenland Caledonian fold belt, central East and North-East Greenland (p. 40).
- [55] Middle Proterozoic augen granite intrusions, deformed during the Caledonian orogeny, central East and North-East Greenland (p. 27).
- [56] Middle Proterozoic intrusive complexes, mainly syenites: Gardar Province, South Greenland (pp. 27, 62).
- [57] Tertiary mafic to intermediate intrusive complexes in East Greenland (pp. 50, 63).
- [58] Upper Cretaceous gabbroic intrusion. Pearya terrane, Ellesmere Island, Canada.
- [59] Middle Jurassic carbonatite complex: Qaqarssuk, southern West Greenland (p. 34).
- [60] Silurian pyroxenitic intrusions in late Archaean granulite gneisses: Batbjerg complex, southern East Greenland (p. 40).
- [61] Uppermost Proterozoic carbonatite complex in Archaean gneisses: Sarfartôq, southern West Greenland (p. 34).
- [62] Early Proterozoic metasediments (marbles and siliciclastic rocks) in the Rinkian mobile belt: Karrat Group comprising the Marmorilik, Qeqertarsuaq and Nûkavsak Formations, central West Greenland (pp. 19, 20, 62).
- [63] Early Proterozoic basic metavolcanics: Sortis Group in the northern border zone of the Ketilidian mobile belt, South-West Greenland (pp. 21, 22).
- [64] Early Proterozoic metasediments: Vallen Group in the northern border zone of the Ketilidian mobile belt, South-West Greenland (pp. 21, 22).
- [65] Early Proterozoic acid metavolcanics in the Ketilidian mobile belt, South Greenland (p. 22).
- [66] Archaean acid metavolcanics in the Rinkian mobile belt, central West Greenland (p. 20).
- [67] Early Proterozoic, high-grade supracrustal units (paragneisses, marbles, quartzites and basic metavolcanics) in early Proterozoic mobile belts (pp. 17, 19, 21–23).
- [68] Late Archaean supracrustal rocks (amphibolites and gneissic metasediments) in the Archaean craton, West Greenland and South-East Greenland (pp. 15, 17, 20).
- [69] Early Archaean supracrustal sequence (Isua and Akilia sequences) in the Archaean craton, southern West Greenland (pp. 14, 61).
- [70] Early Proterozoic amphibolite facies gneisses (generally orthogneisses) dominantly of juvenile Proterozoic origin. Ketilidian mobile belt, South and South-East Greenland (pp. 21, 22) and basement in northern part of Caledonian fold belt in North-East Greenland (pp. 23, 27, 40).
- [71] Early Proterozoic gneisses in granulite facies: Inglefield Land mobile belt, North-West Greenland and Ellesmere Island, Canada (p. 21); Ammassalik mobile belt, South-East Greenland (p. 18) and Caledonian fold belt in North-East Greenland (p. 23).
- [72] Late Archaean juvenile orthogneisses in amphibolite facies. Archaean craton, southern West Greenland and South-East Greenland (p. 15).
- [73] Late Archaean juvenile orthogneisses in granulite facies. Archaean craton, southern West Greenland and South-East Greenland (pp. 15, 16).
- [74] Reworked amphibolite facies Archaean gneisses in early Proterozoic mobile belts in West and South-East Greenland (pp. 17–19, 21) and in the basement of the southern part of the East Greenland Caledonian fold belt, central East Greenland (pp. 23, 24, 27, 40).

- [75] Reworked granulite facies Archaean gneisses in early Proterozoic mobile belts in central and southern West Greenland (pp. 17, 18) and in South-East Greenland (p. 18).
- [76] Early Archaean gneisses in the core of the Archaean craton in southern West Greenland: Amitsoq gneiss (p. 15).
- [77] Early Proterozoic rapakivi 'granites' in the Ketilidian mobile belt, South Greenland (p. 23).
- [78] Early Proterozoic juvenile granites of the 'Julianehåb batholith', Ketilidian mobile belt, South Greenland (pp. 21, 22); also some granites in early Proterozoic mobile belts of southern West Greenland and South-East Greenland (pp. 17–20, 22) and basement in the Caledonian fold belt in East Greenland (p. 23).
- [79] Late Archaean post-tectonic granite complex: Qôrquut granite, southern West Greenland (p. 16).
- [80] Late Archaean granitic to tonalitic plutonic rocks; early–late kinematic intrusions: Tasersuaq tonalite, Ilivertalik augen granite, southern West Greenland (pp. 16, 18). In South-East Greenland syenitic and granitic rocks (p. 16), and an intrusive complex in central West Greenland (p. 20).
- [81] Early Proterozoic intermediate plutonic rocks: quartz dioritic complex in Nagssugtoqidian mobile belt, central and southern West Greenland (pp. 17, 18) and leuconoritic and charnockitic complex in South-East Greenland (the Ammassalik Intrusive Complex, p. 19), and in southern Greenland (p. 22); also some units in the Caledonian fold belt in North-East Greenland (p. 23).
- [82] Late Archaean post-tectonic intermediate and mafic intrusions in South-East and West Greenland (pp. 16, 19, 20) and North-West Greenland (p. 21).
- [83] Late Archaean alkaline intrusive complex: Skjoldungen alkaline province, South-East Greenland (p. 16).
- [84] Late Archaean carbonatite sheet: Tupertalik, southern West Greenland (p. 16).
- [85] Late Archaean anorthositic rocks in the Archaean craton: Fiskensæset complex and correlatives, southern West Greenland (pp. 15, 61); also in central West Greenland (p. 19) and in the Thule region (c. 77°30'N) North-West Greenland (p. 21).
- [86] Early Proterozoic gabbro-anorthosite, East Greenland Caledonian fold belt, North-East Greenland (76°N) (Stecher & Henriksen 1994).

Offshore

- [a] Areas underlain by continental crust with or without cover of sedimentary rocks and Tertiary volcanics (p. 54).
- [b] Transition zone between continental and oceanic crust. In many areas thought to consist of continental crust with increasing intensity of dykes and intrusions as oceanic crust is approached (p. 54). Off South-West Greenland transition zone is extremely thin, continental crust interspersed with zones of serpentinised mantle peridotite (p. 56).
- [c]–[f] Areas underlain by oceanic crust, divided according to age, at 15 million year intervals. Oldest oceanic crust [f] was formed more than 45 million years ago. Divisions based on sea-floor spreading magnetic anomalies (p. 54).
- [g] Oceanic crust of unspecified age (p. 54).

Ornamentations

- Lower Tertiary volcanics** at seabed or concealed; latter only shown in areas underlain by continental crust, North-East Greenland 72°–75°N; West and North-West Greenland 68°–73°N (pp. 58, 59).
- Buried volcano** with high relief, central East Greenland, 69°N (p. 58).
- Intrusions** in sedimentary and volcanic rocks, East Greenland (71°–73°N). Probably of Tertiary age (p. 58).
- Areas with widespread salt deposits** of supposed Late Palaeozoic age, North-East Greenland shelf 76°30'–79°30'N (pp. 58, 66).
- Sedimentary basins** with thicknesses over 4 km (pp. 58–60, 65). Most sediments are of Late Palaeozoic – Tertiary age.
- Little known basins** with thick sedimentary successions (pp. 57, 60, 65).

Place names register

Includes all place names shown on the geological map. The names in square brackets are some well-known alternative names that do not appear on the map.

Map segment numbers refer to the index map on page 8 (Fig. 1).

In the alphabetical sorting the Danish letters Æ, Ø and Å are treated as AE, O and A; for convenience Øfjord also follows Z.

Place name	Lat. / Long. N W	Map segment	Place name	Lat. / Long. N W	Map segment
A			Dove Bugt	76°37'/20°00'	11
Aasiaat	68°43'/52°53'	6	Dronning Louise Land	76°30'/24°30'	11
Akia	64°24'/51°43'	7	Dye 3	65°11'/43°50'	10
Alert (Canada)	82°30'/62°09'	5	E		
Alluitsup Paa	60°28'/45°34'	7	Egedesminde	68°43'/52°53'	6
Ameralik [Lysefjord]	64°07'/51°00'	7	Eleonore Bugt	73°26'/25°23'	12
Ammassalik	65°36'/37°38'	10	Ella Ø	72°55'/25°05'	12
Anap Nunaa	69°57'/50°30'	6	Ellesmere Island (Canada)	80°00'/80°00'	5
Andrée Land	73°42'/26°25'	12	F		
Ardencaple Fjord	75°20'/21°00'	12	Fiskefjord	64°54'/51°33'	7
Arfersiorfik	68°10'/52°28'	6	Fiskenæsset	63°05'/50°41'	7
Arsuk	61°11'/48°26'	7	Frederick E. Hyde Fjord	83°10'/30°30'	8
Atammik	64°48'/52°12'	7	Frederikshåb	62°00'/49°40'	7
Attu	67°57'/53°38'	6	Frederikshåb Isblink	62°35'/49°55'	7
B			Freuchen Land	82°20'/43°30'	8
Bache Peninsula (Canada)	79°13'/76°50'	5	G		
Baffin Bugt	73°00'/62°00'	6	Gåsefjord	70°04'/28°00'	12
Bessel Fjord	75°59'/21°00'	11	Geikie Plateau	69°56'/25°30'	12
Bildsøe Nunatakker	78°08'/23°48'	11	Germania Land	77°06'/18°55'	11
Bjørnesund	62°55'/50°10'	7	Giesecke Isfjord	73°36'/55°58'	6
Blosseville Kyst	68°49'/26°00'	12	GISP 2	72°35'/38°27'	9
Bredelfjord	60°55'/46°25'	7	Gletscherland	72°40'/27°00'	12
Breitaðfjörður (Iceland)	64°25'/23°00'	13	Godhavn	69°15'/53°33'	6
C			Godthåb	64°11'/51°45'	7
Camp Century	77°11'/61°07'	5	Godthåbsfjord	64°25'/51°25'	7
Canning Land	71°40'/22°15'	12	Grænseland	61°23'/47°53'	7
Carey Øer	76°43'/72°58'	5	Greely Fiord (Canada)	80°24'/83°00'	5
Charcot Land	71°53'/29°45'	12	Grønlandshavet	77°00'/10°00'	11
Christianshåb	68°49'/51°11'	6	Grønnedal	61°14'/48°06'	7
Clavering Ø	74°18'/21°00'	12	Gunnbjørn Fjeld	68°51'/29°52'	12
Constable Pynt	70°45'/22°36'	12	H		
D			Hagen Fjord	81°35'/25°30'	8
Daneborg	74°19'/20°14'	12	Hall Bassin	81°30'/63°00'	5
Danell Fjord [Ilulileq]	60°53'/43°08'	10	Hall Bredning	70°54'/24°45'	12
Danmark Fjord	81°10'/21°30'	11	Hall Land	81°30'/60°00'	5
Danmark Stræde	66°10'/27°00'	12, 13	Hans Ø	80°50'/66°38'	5
Danmarkshavn	76°46'/18°39'	11	Hans Tausen Iskappe	82°32'/38°00'	8
Davis Stræde	68°00'/57°00'	6	Hareøen	70°26'/54°55'	6
Disko	69°45'/53°30'	6	Hellefisk-1	67°52'/56°44'	6
Disko Bugt	69°11'/52°45'	6	Herluf Trolle Land	82°30'/26°30'	8
Dome GRIP (Summit)	72°35'/37°38'	9			

Place name	Lat. / Long. N W	Map segment
Hochstetter Forland	75°30′/19°53′	12
Hold with Hope	73°44′/21°10′	12
Holm Land	80°26′/17°30′	11
[Holm Ø] <i>see</i> Kiatassuaq		
Holsteinsborg	66°56′/53°40′	6
Hovgaard Ø	79°55′/18°30′	11
Hudson Land	73°49′/23°00′	12
Humboldt Gletscher	79°30′/63°30′	5
I		
Ikaasakajik	70°55′/27°00′	12
Ikeq	64°56′/40°35′	10
[Ikerassassuaq] <i>see</i> Prins Christian Sund		
Ikermiut-1	66°56′/56°35′	6
Ikersuaq	60°55′/46°25′	7
Ikertivaq	65°29′/39°35′	10
Île de France	77°49′/17°50′	11
Ilimanannqip Nunaa	70°43′/26°48′	12
Illoqqortoormiut	70°29′/21°58′	12
Illorsuit	71°09′/53°40′	6
[Ilulileq] <i>see</i> Danell Fjord		
Ilulissat	69°13′/51°07′	6
Independence Fjord	82°05′/29°30′	8
Inglefield Land	78°44′/69°00′	5
Ingolf Fjord	80°30′/18°00′	11
Innaanganeq	75°55′/66°28′	5
Inuit Qeqertaat	83°40′/30°35′	8
Ísafjörður (Iceland)	66°05′/23°10′	13
Island (Iceland)	65°00′/18°00′	13
Isukasia	65°11′/49°48′	7
Ittertivaa	69°25′/24°06′	12
Ivisaartoq	64°49′/49°58′	7
Ivittuut	61°12′/48°10′	7
J		
Jakobshavn	69°13′/51°07′	6
Jakobshavn Isfjord	69°10′/50°30′	6
Jameson Land	71°10′/23°15′	12
J.C. Christensen Land	81°40′/29°30′	8
Johannes V. Jensen Land	83°20′/32°00′	8
Jøkelbugten	78°38′/20°00′	11
J.P. Koch Fjord	82°45′/44°30′	8
Julianehåb	60°43′/46°03′	7
K		
Kaffeklubben Ø	83°40′/30°35′	8
Kane Bassin	79°30′/69°00′	5
Kangaamiut	65°50′/53°21′	7
Kangaarsugsuaq	77°01′/71°23′	5
Kangaatsiaq	68°19′/53°28′	6
Kangâmiut-1	66°09′/56°11′	7
Kangeq	61°50′/42°06′	10
Kangerlussuaq (East Greenland)	68°22′/32°12′	9, 12
Kangerlussuaq (West Greenland)	66°24′/52°30′	7

Place name	Lat. / Long. N W	Map segment
[Kangerlussuatsiaq] <i>see</i> Lindenow Fjord		
Kangersik Kiatteq	71°30′/26°00′	12
Kangersuatsiaq	72°23′/55°34′	6
Kangertittivaq	70°17′/23°00′	12
Kangertittivatsiaq	66°21′/35°43′	10
Kangikajik	70°09′/22°03′	12
Kap Alexander	78°11′/73°02′	5
Kap Brewster	70°09′/22°03′	12
Kap Bryant	82°20′/55°15′	8
Kap Cort Adelaer	61°50′/42°06′	10
Kap Dalton	69°25′/24°06′	12
Kap Edvard Holm	67°51′/32°11′	9
Kap Eiler Rasmussen	82°35′/19°45′	8
Kap Farvel	59°47′/43°55′	10
Kap Franklin	73°15′/22°10′	12
Kap Gustav Holm	66°34′/34°20′	10
Kap København	82°23′/20°57′	8
Kap Morris Jesup	83°39′/33°25′	8
Kap Møsting	63°41′/40°31′	10
Kap Parry	77°01′/71°23′	5
Kap Ravn	68°26′/28°16′	12
Kap Tordenskjold	61°24′/42°23′	10
Kap Washington	83°33′/38°40′	8
Kap York	75°55′/66°28′	5
Karrat Isfjord	71°34′/52°25′	6
Keflavik (Iceland)	64°00′/22°30′	13
Kejser Franz Joseph Fjord	73°21′/23°30′	12
Kennedy Kanal	80°40′/68°00′	5
Kialiip Imaa	66°55′/33°45′	10
Kiatassuaq [Holm Ø]	74°30′/57°00′	6
Kilen	81°11′/13°25′	11
Kitsissut	76°43′/72°58′	5
Kobberminebugt	60°55′/48°17′	7
Køge Bugt	64°56′/40°35′	10
Kong Oscar Fjord	72°22′/24°00′	12
Kronprins Christian Land	80°40′/21°00′	11
Kuhn Ø	74°50′/20°20′	12
Kullorsuaq	74°34′/57°10′	6
Kulusuk	65°34′/37°11′	10
Kuummiut	65°52′/37°01′	10
L		
Lake Hazen (Canada)	81°47′/70°50′	5
Lambert Land	79°19′/20°48′	11
Lauge Koch Kyst	76°20′/60°00′	5
Lincoln Hav	83°25′/57°00′	8
Lindenow Fjord [Kangerlussuatsiaq]	60°30′/43°30′	10
Liverpool Land	70°55′/22°00′	12
Lyell Land	72°38′/25°35′	12
[Lysefjord] <i>see</i> Ameralik		
M		
Maarmorilik	71°08′/51°18′	6
Mallekukfjeld	80°10′/17°04′	11

Place name	Lat. / Long. N W	Map segment	Place name	Lat. / Long. N W	Map segment
Maniitsoq	65°25′/52°52′	7	Qaqortoq	60°43′/46°03′	7
Melville Bugt	75°45′/60°50′	5	Qasigiannnguit	68°49′/51°11′	6
Mestersvig	72°14′/23°55′	12	Qeqertarsuaq (Disko)	69°45′/53°30′	6
Midternæs	61°37′/47°56′	7	Qeqertarsuaq (Godhavn)	69°15′/53°33′	6
Milne Land	70°43′/26°48′	12	Qeqertarsuatsiaat	63°05′/50°41′	7
Mont Forel	66°56′/36°49′	10	Qeqertarsuatsiaq	70°26′/54°55′	6
Mylius-Erichsen Land	81°00′/26°00′	8	Qeqertarsuup Tunua	69°11′/52°45′	6
N			Qimusseriarsuaq	75°45′/60°50′	5
Nakkehoved	81°42′/13°03′	11	Qullissat	70°05′/53°01′	6
Nanortalik	60°09′/45°15′	7	Qunaranaaq	61°24′/42°23′	10
Nansen Fjord	68°17′/29°50′	12	R		
Nansen Land	82°56′/44°20′	8	Ravn Storø	62°43′/50°23′	7
Nansen Sound (Canada)	81°00′/90°00′	5	Red Head	75°04′/58°05′	6
Nares Stræde	80°00′/69°00′	5	Renland	71°20′/26°45′	12
Narsaq	60°55′/46°03′	7	Reykjavik (Iceland)	64°10′/22°00′	13
Narsarsuaq	61°10′/45°25′	7	Rink Isbræ	71°47′/51°23′	6
Nassuttooq	67°45′/53°00′	6	Robeson Kanal	81°53′/62°00′	5
Neriap Nunaa	61°23′/47°53′	7	S		
Nertiit Kangersivat	70°04′/28°00′	12	Saqqisikuik	63°22′/41°35′	10
Niaqornaarsuk	68°14′/52°52′	6	Sarfartoq	66°25′/51°23′	7
Niaqorsuaq	75°04′/58°05′	6	Scoresby Land	71°45′/25°00′	12
Nioghalfjerdsfjorden	79°34′/21°00′	11	Scoresby Sund	70°17′/23°00′	12
Nordatlanten	62°00′/29°00′	13	Scoresbysund	70°29′/21°58′	12
Nordlandet	64°24′/51°43′	7	Sermersuaq (Humboldt Gletscher)	79°30′/63°30′	5
Nordostrundingen	81°21′/11°20′	11	Sermersuaq (Steenstrup Gletscher)	75°17′/57°53′	6
Nordre Strømfjord	67°45′/53°00′	6	Sermiligaarsuk	61°30′/48°40′	7
Nordvestfjord	71°30′/26°00′	12	Sermilik	66°11′/37°36′	10
Norske Øer	79°07′/17°50′	11	Shannon	75°08′/18°15′	12
Nukik-1	65°31′/54°45′	7	Sherard Osborn Fjord	82°05′/52°05′	8
Nukik-2	65°38′/54°46′	7	Sisimiut	66°56′/53°40′	6
Nunakuluut [Nunarssuit]	60°46′/47°57′	7	Skærfjorden	77°30′/19°30′	11
Nunap Isua	59°47′/43°55′	10	Skærgårdshalvø	68°09′/31°45′	12
[Nunarssuit] see Nunakuluut			Skjoldungen	63°22′/41°35′	10
Nuuk	64°11′/51°45′	7	Skrækkens Bugt	66°55′/33°45′	10
Nuup Kangerlua	64°25′/51°25′	7	Smith Sund	78°30′/74°00′	5
Nuussuaq	70°35′/52°55′	6	Snæfellsnes (Iceland)	64°50′/23°37′	13
Nyeboe Land	81°45′/57°00′	8	Søndre Strømfjord (airport)	66°58′/50°57′	6
O			Søndre Strømfjord (fjord)	66°24′/52°30′	7
Øfjord	70°55′/27°00′	12	Station Nord	81°35′/16°41′	11
P			Stauning Alper	72°00′/25°00′	12
Paamiut	62°00′/49°40′	7	Steenstrup Gletscher	75°17′/57°53′	6
Peary Land	82°35′/31°00′	8	Store Koldewey	76°30′/19°00′	11
Petermann Bjerg	73°05′/28°37′	12	Storstrømmen	76°53′/22°50′	11
Petermann Gletscher	80°35′/59°35′	5	Suess Land	72°58′/25°35′	12
Pituffik	76°33′/68°15′	5	Sukkertoppen	65°25′/52°52′	7
Prins Christian Sund [Ikerasassuaq]	60°07′/43°30′	10	Sullorsuaq	70°16′/53°25′	6
Prinsen af Wales Bjerge	68°56′/32°30′	9	Svartenhuk Halvø	71°45′/54°50′	6
Prøven	72°23′/55°34′	6	Sydprøven	60°28′/45°34′	7
Q			T		
Qaanaaq	77°28′/69°14′	5	Taartoq	61°25′/48°50′	7
			Tasiilap Karra	66°34′/34°20′	10

Place name	Lat. / Long. N W	Map segment
Tasiilaq	65°36′/37°38′	10
Thule	77°28′/69°14′	5
Thule Air Base	76°33′/68°15′	5
Traill Ø	72°40′/23°43′	12
Tuttut Nunat	71°20′/26°45′	12
U		
Ubekendt Ejland	71°09′/53°40′	6
Ullersuaq	78°11′/73°02′	5
Umiivik	64°16′/40°35′	10
United States Range (Canada)	82°00′/72°00′	5
Upernavik	72°47′/56°10′	6
Upernavik Isfjord	72°55′/55°30′	6
Ussing Isfjord	73°54′/56°00′	6
Uummannaq	70°41′/52°08′	6
V		
Vaigat	70°16′/53°25′	6
Victoria Fjord	82°09′/47°45′	8

Place name	Lat. / Long. N W	Map segment
W		
Waltershausen Gletscher	74°09′/25°30′	12
Wandel Dal	82°14′/33°30′	8
Wandel Hav	82°30′/12°00′	11
Ward Hunt Ice Shelf (Canada)	83°08′/75°00′	5
Warming Land	81°34′/52°50′	8
Washington Land	80°30′/64°00′	5
Watkins Bjerger	68°51′/29°30′	12
Wollaston Forland	74°26′/19°35′	12
Wulff Land	81°51′/48°30′	8
Y		
Ymer Ø	73°11′/24°30′	12
Ø		
Øfjord	70°55′/27°00′	12

Index

In the listing the Danish letters Æ, Ø and Å are treated as AE, O and A.
For the use of the geographical subdivisions see the map on page 4.

Abbreviations

Fm Formation
Gp Group
SGp Supergroup

cEG central East Greenland
cNG central North Greenland
cWG central West Greenland
EG East Greenland (includes *cEG*, *NEG*, *sEG*, *SEG*)
eNG eastern North Greenland
NEG North-East Greenland
NG North Greenland
NWG North-West Greenland
sEG southern East Greenland
SEG South-East Greenland
SG South Greenland
sWG southern West Greenland
SWG South-West Greenland
WG West Greenland (includes *cWG*, *NWG*, *sWG*, *SWG*)
wNG western North Greenland

A

Aegir Ridge 55
Aeromagnetic data 10, 54, 57, 58, 60
Agpaaitic rocks, *see* Alkaline rocks
Akia terrane (Archaean): *sWG* 13
Akilia association (Archaean): *sWG* 14
Akulleq terrane (Archaean): *sWG* 13
Albian–Campanian (Cretaceous): *cWG* 46
Alkali acid rocks (Gardar): *SG* 26
Alkaline rocks 16, 27, 29, 50
Ameralik: *sWG* 13
Ameralik dykes (Archaean): *sWG* 14, 15, 28, 29
Amîtsoq gneiss (Archaean): *sWG* 14, 15, 28
Amîtsoq iron-rich suite (Archaean): *sWG* 15
Ammassalik Intrusive Complex (Proterozoic): *SEG* 19
Ammassalik mobile belt (Proterozoic): *sEG*, *SEG* 12, 18, 19
Amundsen Land Gp (Ordovician): *NG* 35–38, 61
Andrée Land Gp (Proterozoic): *cEG*, *NEG* 32, 33
Anorthositic rocks
 cWG (Rinkian mobile belt) 19
 NEG (Proterozoic), *see* Legend explanation [86] 81
 NWG (Archaean) 21
 SEG (Ammassalik mobile belt) 19
 sWG (Archaean) 15, 61
Antiklinalbugt Fm (Ordovician): *NEG* 39
Appat sequence (Cretaceous): *sWG* 59
Appinites (Proterozoic): *SG*, *SEG* 22, 29

Aptian–Albian (Cretaceous)
 NEG 45, 46
 sEG 46
Archaean
 craton: *SEG*, *sWG*, *SWG* 12–16
 gneisses, late: *sWG* 15
 intrusive rocks, late: *SEG*, *sWG* 16
 mineral deposits 61
 reworked 13
 cEG, *NEG* 23
 sEG, *SEG*, *WG* 16–19, 21
 supracrustal rocks
 early: *sWG* 14
 late
 cWG 20
 SEG, *sWG* 15
 terrane boundaries 13
ARCO 64
Arctic Ocean 56
Ataata Kuua: *cWG* 48
Atammik: *sWG* 17
Atane Fm (Cretaceous): *cWG* 46–48
Atanikerdluk Fm (Tertiary): *cWG* 47
Atlantic Richfield Company 64
Augite syenite (Gardar): *SG* 26

B

Baffin Bay Gp (Proterozoic): *NWG* 30, 31
Baffin Bugt: *NWG* 55, 57, 60, 65
Baffin Island (Canada) 55
Baltica 39
Banded iron formation
 Isua supracrustal sequences: *sWG* 14
 NWG 21
Barden Bugt Fm (Proterozoic): *NWG* 31
Barremian–Albian (Cretaceous), offshore: *sWG* 59
Basalts
 Cretaceous: *cNG* 43
 Proterozoic
 early: *SWG* 21
 middle
 NG, *SG* 26
 NWG 30
Tertiary
 cWG 46–49
 EG 49, 50
 offshore 54–59
Base metals, exploration 61
Basic dykes, *see* Dykes and sills

Basins, <i>see</i> Sedimentary basins			
Bastion Fm (Cambrian): <i>NEG</i>	39	<i>cNG, eNG</i>	42, 43
Bathjerg complex (Caledonian): <i>sEG</i>	40	<i>cWG</i>	46
Bathymetry	11	<i>NEG</i>	44, 45
Bernbjerg Fm (Jurassic): <i>NEG</i>	45	offshore: <i>sWG, SWG</i>	59
BGR (Bundesanstalt für Geowiss. und Rohstoffe)	56	<i>sEG</i>	46
Black Angel (Sorte Engel) lead-zinc deposit: <i>cWG</i>	62, 63	Cretaceous, volcanics: <i>NG</i>	42, 43
Blosseville Gp (Tertiary): <i>sEG</i>	46	Cryolite mine: <i>SWG</i>	60, 62
Blosseville Kyst Basin: <i>cEG, sEG</i>	58, 65		
petroleum potential	65, 66	D	
Blyklippen lead-zinc deposit (Mestersvig): <i>cEG</i>	63	Danell Fjord: <i>SEG</i>	23
Borgtinderne intrusion (Tertiary): <i>sEG</i>	50	Danmark Stræde: <i>sEG</i>	55
Brønlund Fjord Gp (Cambrian): <i>NG</i>	31, 35	Danmarks Geologiske Undersøgelse (DGU)	9
Buen Fm (Cambrian): <i>NG</i>	31, 35, 36, 39	Davis Stræde	
C		<i>sWG</i>	55, 56, 65
Caledonides, East Greenland		offshore cross-section	59
Archaean – middle Proterozoic basement: <i>cEG, NEG</i>	23	Davis Strait High	55
fold belt units: <i>cEG, eNG, NEG</i>	40	Deep drillings,	10
intrusions: <i>cEG, NEG</i>	40, 41	in Inland Ice	53
orogenic belt: <i>cEG, eNG, NEG</i>	24, 38–40, 65	offshore	
Cambrian		<i>SEG</i>	55, 58
carbonate sediments: <i>NG</i>	35–37	<i>sWG</i>	64–66
deep-water trough: <i>NG</i>	35, 36	through Inland Ice	24
Cambrian–Ordovician sediments: <i>NEG</i>	38, 39	Devonian sediments	
Cambrian–Silurian sediments: <i>NG, NWG</i>	36, 37	<i>NEG</i>	41, 42, 65
Campanuladal Fm (Proterozoic): <i>cNG, eNG</i>	32	<i>wNG</i>	37
Cape Camperdown Fm (Proterozoic): <i>NWG</i>	31	Diamictites (Proterozoic)	
Cape Combermere Fm (Proterozoic): <i>NWG</i>	31	Morænesø Fm: <i>cNG</i>	31, 32
Cape Dyer (Canada)	55	Tillite Gp: <i>NEG</i>	32, 33
Cape Weber Fm (Ordovician): <i>NEG</i>	39	Diamond exploration: <i>sWG</i>	61, 62
Carbonatite complexes		Disko Bugt: <i>cWG</i>	12
Gardar (Proterozoic): <i>SG</i>	26	Dolerite dykes, <i>see</i> Dykes and sills	
Upper Proterozoic / Jurassic: <i>sWG</i>	34	Dolomite Point Fm (Cambrian): <i>NEG</i>	39
Carboniferous–Permian salt formation, offshore: <i>NEG</i>	58, 66	Dove Bugt	23
Carboniferous sediments		Drill holes	
<i>cEG, NEG</i>	42, 44	Inland Ice	53
<i>cNG, eNG</i>	42, 43	offshore: <i>sWG</i>	65, 66
Celsius Bjerg Gp (Devonian): <i>NEG</i>	41, 42	onshore: <i>cWG</i>	64
Charcot Land sequence (Proterozoic): <i>cEG</i>	23, 40	Dundas Gp (Proterozoic): <i>NWG</i>	30, 31
Charcot Land tectonic window: <i>cEG</i>	23	Dykes and sills	28, 29
Charnockitic intrusive rocks		Ameralik (Archaean)	29
<i>NWG</i> (Prøven)	20	Archaean	15, 29
<i>SEG</i> (Ammassalik Intrusive Complex)	19	Gardar (Proterozoic): <i>SG</i>	26, 27, 29
Chazyan (Ordovician): <i>NEG</i>	39	Kangâmiut (Proterozoic): <i>sWG</i>	29
Chromite mineralisation: <i>sWG</i>	61, 62	‘MD’: <i>sWG, SWG</i>	29
Citronen Fjord lead-zinc deposit: <i>cNG</i>	61, 62	Midsommersø (Proterozoic): <i>cNG, eNG</i>	26, 29
Clarence Head Fm (Proterozoic): <i>NWG</i>	31	Phanerozoic	29
Climate, past	53	Proterozoic	29
Coal deposit (Cretaceous): <i>cWG</i>	62	Tarssartôq (Archaean): <i>sWG</i>	29
Continental crust, offshore	54	‘TD’ (Cretaceous): <i>SG, SWG</i>	29
Continental drift, Tertiary	46	Tertiary	29, 49
Continental margin		Umîvik (Proterozoic): <i>sEG, SEG</i>	29
<i>EG, NG</i>	54–56		
<i>WG</i>	56, 57	E	
Cretaceous, sediments		East Greenland escarpment: <i>cEG</i>	58
<i>cEG</i>	44, 45	Eemian (Quaternary)	51, 53
		Eleonore Bay SGp (Proterozoic): <i>cEG, NEG</i>	32, 33, 40
		Eleonore Sø series (Proterozoic): <i>NEG</i>	33

Ella Ø Fm (Cambrian): <i>NEG</i>	39	Tillite Gp: <i>NEG</i>	32, 33
Ellesmere Island (Canada)	37, 55, 65	Quaternary	51
Ellesmerian fold belt: <i>NG</i>	24, 38	Glaciers	51–53
Eocene sediments		Glaciology	52
offshore		Glaciomarine sediments, offshore	55
<i>cEG</i>	58	Godthåb: <i>sWG</i>	13
<i>cWG</i>	59	Godthåbsfjord: <i>sWG</i>	13, 14, 16
<i>sWG</i>	59	Gold deposits	
onshore: <i>sEG</i>	50	Nalunaq: <i>SG</i>	62
Eriksfjord Fm (Gardar): <i>SG</i>	26	Skaergaard: <i>sEG</i>	63
Etah Gp (Proterozoic): <i>NWG</i>	21	Gold exploration	61
Evaporites		Graah Fjelde: <i>SE</i>	23
offshore (Carboniferous–Permian): <i>NEG</i>	58, 66	Grænseland: <i>SW</i>	22
Ordovician: <i>NG</i>	36, 61	Granulite facies	
Proterozoic: <i>NWG</i>	30	<i>NEG</i>	23
Silurian: <i>eNG</i>	35	<i>NWG</i>	20
Exotic terrane, Ellesmere Island (Canada), <i>see</i> Pearya	37, 38	<i>SEG</i>	19
Exploration wells: <i>sWG</i>	54, 63, 65	<i>SG</i>	22
		<i>WG</i>	16–18
F		Gravimetric data	10, 54, 57, 60
Færingehavn: <i>sWG</i>	13	Greenland	
Finnefjeld: <i>SWG</i>	13	geological map	8, 9
Fiskefjord: <i>sWG</i>	13	size	9, 12
Fiskenæsset complex (Archaean): <i>sWG</i>	15, 61, 62	economic zone, offshore	9
Flat-spot (on seismic profiles): <i>sWG</i>	66	ice-free land areas	12
Fleming Fjord Fm (Triassic): <i>cEG</i>	45	Greenland Mineralisation Data Bank	61
Foldvik Creek Gp (Permian): <i>cEG</i>	45	Greenstone belts (Archaean)	
‘Fossilik’ (Ordovician): <i>sWG</i> , <i>see Legend explanation</i> [9]	79	Disko Bugt: <i>cWG</i>	20
Foxe fold belt (Canada)	20	Isukasia: <i>sWG</i>	14
Foyaite (Gardar): <i>SG</i>	26	Grenvillian: <i>cEG</i> , <i>NEG</i>	27, 30, 32, 33, 40
Fracture zones, oceanic: <i>EG</i> , <i>WG</i>	55	Grønlandshavet: <i>NEG</i>	65
Fram Strait: <i>NEG</i> , <i>NG</i>	55, 56		
Franklinian Basin (Cambro-Silurian)		H	
<i>NG</i> , <i>NWG</i>	34–38	Hagen Fjord: <i>eNG</i>	32
petroleum potential: <i>NG</i>	64, 65	Hagen Fjord Gp (Proterozoic): <i>cNG</i> , <i>eNG</i>	31, 32, 40
Fyns Sø Fm (Proterozoic): <i>cNG</i> , <i>eNG</i>	32	Hall Land: <i>wNG</i>	35
G		Harder Fjord fault zone: <i>cNG</i>	42
Garbenschiefer: <i>sWG</i>	14	Hareelv Fm (Jurassic): <i>cEG</i>	45
Gardar Province (Proterozoic): <i>SG</i>		Hauge Bjerger Fm (Silurian): <i>NG</i>	36
intrusive complexes	27	Hecla Rise: <i>sWG</i>	59
sediments	26	Heimbjerger Fm (Ordovician): <i>NEG</i>	39
sills and dykes	29	Herlufsholm Strand Fm (Cretaceous): <i>cNG</i> , <i>eNG</i>	43
volcanics	26	Hesteelv Fm (Cretaceous): <i>cEG</i>	45
Gas	63	Hold with Hope: <i>NEG</i>	50
Gåsefjord: <i>cEG</i>	49	Holocene (Quaternary)	51
Gåseland window: <i>cEG</i>	33	Hudsonian (Proterozoic)	16
Geodetic Institute (GI)	11	Hyaloclastite (Tertiary)	
Geological Survey of Denmark (DGU)	9	<i>cWG</i>	48
Geological Survey of Denmark and Greenland (GEUS)	9	<i>sEG</i>	49
Geological Survey of Greenland (GGU)	9	Hydrocarbons	63–67
Geophysical surveys	10	Hyalolith Creek Fm (Cambrian): <i>NEG</i>	39
Gipsdalen Fm (Triassic): <i>cEG</i>	45		
GISP 2: <i>NEG</i>	24	I	
Glaciation		Iapetus	39
Proterozoic		Ice-core records	53
Morænesø Fm: <i>cNG</i>	31, 32	Ikermiut-1 well: <i>sWG</i>	57, 59, 66
		Ilímaussaq intrusion (Gardar): <i>SG</i>	26, 62

Ilivertalik augen granite (Archaean): <i>sWG</i>	16	Kap Washington Gp (Cretaceous): <i>cNG</i>	38, 42, 43
Illinoian (Quaternary)	51	Kap York meta-igneous complex (Archaean): <i>NWG</i>	21
Imilik intrusion (Tertiary): <i>SEG</i>	50	Karrat Gp (Proterozoic): <i>NWG</i>	19–21
Independence Fjord: <i>cNG</i>	25	Karrat Isfjord: <i>NWG</i>	20
Independence Fjord Gp (Proterozoic): <i>cNG, eNG</i>	24, 25, 31	Ketilidian mobile belt: <i>SEG, SG</i>	12, 21
Inglefield mobile belt (Proterozoic): <i>NWG</i>	12, 21	gold mineralisation: <i>SG</i>	61
Ingolff Fjord: <i>eNG</i>	25	Kialineq intrusion (Tertiary): <i>SEG</i>	50
Inland Ice	52, 53	Kigarsima nappe: <i>NWG</i>	21
bedrock below	24	Kimberlite: <i>sWG</i>	29, 34
former extent	51–53	diamond exploration: <i>sWG</i>	61, 62
GISP core	24	Kirkespirdalen gold deposit (Nalunaq): <i>SG</i>	61, 62
mass balance	53	Kitsissut sequence (Cretaceous), offshore: <i>sWG</i>	59
size	12	Kivioq Basin: <i>NWG</i>	60
thickness	9, 24, 52	Kivioq Ridge: <i>NWG</i>	60
volume	52	Kløftelv Fm (Cambrian): <i>NEG</i>	39
Iron deposit (Archaean): <i>sWG</i>	13, 14, 61	Knipovich Ridge	55, 56
Isua supracrustal sequence (Archaean): <i>sWG</i>	13, 14	Kolbeinsey Ridge	55
Isukasia: <i>sWG</i>	12–14, 61	Kome Formation (Cretaceous): <i>cWG</i>	47
Itilli succession (Cretaceous): <i>cWG</i>	46, 47	Kort & Matrikelstyrelsen (KMS)	11
Ivigut cryolite deposit (Gardar): <i>sWG</i>	60, 62	Kronprins Christian Land: <i>eNG</i>	35
		Kronprins Christian Land orogeny: <i>eNG</i>	43
		Krummedal supracrustal sequence (Proterozoic): <i>cEG, NEG</i>	27, 30, 40
J		L	
Jameson Land Basin: <i>cEG</i>	44	Labrador (Canada)	55
petroleum potential	64	Labrador Sea	55, 56, 65
Jan Mayen Fracture Zone: <i>NEG</i>	55, 56	Ladegårdsåen Fm (Jurassic): <i>cNG</i>	43
Josephine Headland Fm (Proterozoic): <i>NWG</i>	31	Lady Anne Basin: <i>sWG</i>	59
Julianehåb batholith: <i>SG</i>	21, 22	Lamproites: <i>cWG</i>	28, 29
gold mineralisation	61	Lamprophyres: <i>sWG, SWG</i>	28, 29
granite	22	Laurentia	39
Jurassic, sediments		Laurentian Shield	13
<i>cEG</i>	44, 45	Lead-zinc deposits	
<i>cNG, eNG</i>	42, 43	Citronen Fjord: <i>cNG</i>	61
<i>NEG</i>	45	Maarmorilik (Sorte Engel): <i>cWG</i>	60
Jyske Ås Fm (Proterozoic): <i>cNG, eNG</i>	32	Mestersvig: <i>NEG</i>	60
		Washington Land: <i>uNG</i>	61
K		Legend concept	10
Kakortokite (Gardar): <i>SG</i>	26	Lilloise intrusion (Tertiary): <i>sEG</i>	50
Kangâmiut dykes (Proterozoic): <i>sWG</i>	17, 29	Lincoln Hav: <i>NG</i>	65
Kangâmiut-1 well: <i>sWG</i>	59, 66	Lindemans Bugt Fm (Jurassic–Cretaceous): <i>NEG</i>	45
Kangeq sequence (Cretaceous): <i>sWG</i>	59	Liverpool Land Basin: <i>cEG</i>	58
Kangerdlugssuaq Gp (Cretaceous–Tertiary): <i>sEG</i>	46	petroleum potential	66
Kangerdlugssuaq intrusion (Tertiary): <i>sEG</i>	50	Llandovery (Silurian): <i>NG</i>	36, 37
Kangersik Kiatteq: <i>cEG</i>	24, 27	Ludlow (Silurian): <i>NG</i>	36
Kangilia Fm (Cretaceous–Tertiary): <i>cWG</i>	46–48	Lujavrite (Gardar): <i>SG</i>	26
KANUMAS	54, 57, 58, 60, 66	Lyell Land Gp (Proterozoic): <i>NEG</i>	32–34
Kap Alexander Fm (Proterozoic): <i>NWG</i>	31	M	
Kap Bernhard Fm (Proterozoic): <i>cNG, eNG</i>	32	Maarmorilik: <i>cWG</i>	20, 60, 62
Kap Edvard Holm intrusion (Tertiary): <i>sEG</i>	50	lead-zinc deposit	62, 63
Kap Graah Gp (Devonian): <i>NEG</i>	41, 42	Maastrichtian (Cretaceous): <i>cWG</i>	46
Kap Gustav Holm intrusion (Tertiary): <i>sEG</i>	50	M'Clintock orogeny (Ordovician), Canada	38
Kap København Fm (Plio-Pleistocene): <i>cNG</i>	51	Magnetic data	11, 54, 56–58, 60
Kap Kolthoff Gp (Devonian): <i>NEG</i>	41, 42	Magnetochrons	56, 57
Kap Parry intrusion (Tertiary): <i>NEG</i>	50	Maligât Fm (Tertiary): <i>cWG</i>	47, 48
Kap Simpson intrusion (Tertiary): <i>NEG</i>	50		
Kap Stewart Gp (Triassic–Jurassic): <i>cEG</i>	45		
Kap Trautwine Fm (Proterozoic): <i>NWG</i>	31		
Kap Washington: <i>cNG</i>	42		

Mallermuk Mountain Gp (Carb.–Permian): <i>cNG, eNG</i>	42, 43	Narwhale Sound Fm (Ordovician): <i>NEG</i>	39
Malmbjerg molybdenum deposit: <i>cEG</i>	62, 63	Nathorst Land Gp (Proterozoic): <i>NEG</i>	32, 33
Markham Fold Belt (Ordovician), Canada	38	National Survey and Cadastre (KMS)	11
Marmorilik Fm (Proterozoic): <i>cWG</i>	20	Naujaite (Gardar): <i>SG</i>	26
Mass balance of Inland Ice	53	Neill Klintor Gp (Jurassic): <i>cEG</i>	45
‘MD’ dykes (Proterozoic): <i>sWG, SWG</i>	29	Neogene (Tertiary)	10
Melville Bugt Fault: <i>NWG</i>	60, 65, 66	Neoproterozoic	10
Melville Bugt Graben: <i>NWG</i>	60	Nertiit Kangersivat: <i>cEG</i>	49
Melville Bugt Ridge: <i>NWG</i>	60	Nesmith Beds (Canada)	36
Merqujôq Fm (Silurian): <i>NG</i>	37	Net-veined intrusions (Proterozoic): <i>SG</i>	22
Mesoproterozoic	10	Nordlandet: <i>sWG</i>	13
Mesozoic sedimentary onshore basins		Nordvestfjord: <i>cEG</i>	24, 27
<i>EG</i>	44, 45	North Atlantic D surveys (NAD project)	54
<i>NG</i>	42, 43	Northumberland Fm (Proterozoic): <i>NWG</i>	31
<i>WG</i>	46	Nualik intrusion (Tertiary): <i>sEG</i>	50
Mesozoic sediments, offshore basins: <i>EG, WG</i>	58–60	Nûkavsak Fm (Proterozoic): <i>cWG</i>	20
Mestersvîg: <i>NEG</i>	60, 63	Nunaoil A/S	54, 57
lead-zinc deposit	62, 63	Nuuk: <i>sWG</i>	13
Midsommersø Dolerites (Proterozoic): <i>cNG, eNG</i>	25, 26, 29	Nuussuaq Basin: <i>cWG</i>	46, 47
Mineral deposits	60–64	core wells	64
chromium	61	offshore	59
coal	62		
cryolite	60, 62	O	
diamonds	61, 62	Ocean Drilling Project (ODP)	54, 55, 58
gold	61–63	Ocean floor ridges	55
iron	13, 14, 61	Oceanic crust	54
lead	60–63	Ocean-to-continent transition	55, 58, 60
molybdenum	62, 63	ODP (Ocean Drilling Project)	54, 55, 58
PGE (platinum group elements)	62, 63	Offshore	
platinum	62, 63	economic zone, size	9
silver	62	geology	54–60
uranium	62	sedimentary basins	57–60, 65
zinc	60–63	Oil	63–67
Mines	60, 61	Oligocene sediments: <i>cEG</i>	50
Miocene (Tertiary),		offshore: <i>EG</i>	58
glaciation	51	Olympen Fm (Jurassic): <i>cEG</i>	45
offshore: <i>cEG</i>	58	Onshore sedimentary basins,	
onshore sediments: <i>sEG</i>	50	<i>see</i> Sedimentary basins, onshore	
Mohns Ridge	55, 56	Ordovician	
Moho	57	carbonate sediments: <i>NG</i>	35, 36
Molybdenum deposit: <i>cEG</i>	63	clastic sediments: <i>NG</i>	35, 36
Morænesø Fm (Proterozoic): <i>cNG</i>	31, 32	deep-water trough: <i>NG</i>	35, 36
Morris Bugt Gp (Ordovician–Silurian): <i>cNG, wNG</i>	35	‘Fossilik’: <i>sWG</i> , <i>see Legend explanation</i> [9]	79
Morris Jesup Ridge: <i>cNG</i>	55, 56	sediments: <i>NEG</i>	38, 39
N		P	
NAD Project	54	Pacific fauna	39
Nagssugtoqidian mobile belt (Proterozoic)		Palaeogene (Tertiary)	10
<i>cWG, sWG</i>	12, 17, 18	Palaeoproterozoic	10
Nalunaq gold deposit (Kirkespirdalen): <i>SG</i>	62	Palaeozoic	
Nansen Ridge	55, 56	fold belts: <i>NEG, NG</i>	24
Nares Land: <i>cNG</i>	35	sedimentary basins, <i>see</i> Sedimentary basins	
Nares Stræde (Nares Strait): <i>NWG, wNG</i>	57, 65	Paleocene sediments	
geological structure	57	<i>cWG</i>	46, 47
Nares Strait Gp (Proterozoic): <i>NWG</i>	29–31	offshore: <i>WG</i>	59, 60
Narsaq: <i>SG</i>	26	<i>SEG</i>	46
Narssârssuk Gp (Proterozoic): <i>NWG</i>	30, 31	Palnatokes Bjerg Fm (Jurassic): <i>NEG</i>	45

Pandora Havn Fm (Proterozoic): <i>NWG</i>	31	Q	
Paradisfjeld Gp (Cambrian): <i>cNG</i>	35, 36, 38	Qaanaaq Fm (Proterozoic): <i>NWG</i>	31
Passive margins: <i>EG</i>	56	Qaqarssuk carbonatite complex (Jurassic): <i>sWG</i>	34
Peary Land: <i>cNG</i>	35	Qeqertarsuaq Fm ((Proterozoic): <i>cWG</i>	20
Peary Land Gp (Silurian): <i>NG</i>	35, 36, 38	Qimusseriarsuaq: <i>NWG</i>	60, 65
Pearya (Canada)	37, 38	Qôrqut granite (Archaean): <i>sWG</i>	16
Peralkaline rocks		Quaternary	10, 51, 52
Ilímaussaq intrusion (Gardar): <i>SW</i>	26	Quikavsak Fm (Tertiary): <i>cWG</i>	46–48
Kap Washington Gp (Cretaceous): <i>cNG</i>	43	Qullissat coal deposit (Cretaceous): <i>cWG</i>	62
Peridotite	56, 81	R	
Permian sediments		Rapakivi granite (Proterozoic): <i>SEG, SG</i>	15, 23
<i>cEG, NEG</i>	42, 44	Raukelv Fm (Jurassic): <i>cEG</i>	45
<i>cNG, eNG</i>	42, 43	Rensselaer Bay Fm (Proterozoic): <i>NWG</i>	31
Petermann Halvø Fm (Silurian): <i>NG</i>	35	Reservoir rocks	64, 66
Petroleum potential	63–67	Reykjanes Ridge	55
Picrite (Tertiary)		Rift basins	
<i>cEG</i>	49	<i>EG</i>	44
<i>cWG</i>	46, 48, 57	<i>NG</i>	42
Pillow lavas		Rinkian mobile belt (Proterozoic): <i>cWG, NWG</i>	12, 19–21
Archaean		Rivieradal sandstone (Proterozoic): <i>eNG</i>	31, 32
<i>cWG</i>	20	Robertson Fjord Fm (Proterozoic): <i>NWG</i>	31
<i>sWG</i>	15	Ryder Gletscher Gp (Cambro-Ordovician): <i>NG</i>	35
Proterozoic		S	
<i>NEG</i>	34	Saalian (Quaternary)	51
<i>SWG</i>	22	Salt formation, <i>see</i> Evaporites	
Pingo Dal Fm (Triassic): <i>cEG</i>	45	Samuelsen Høj Fm (Silurian): <i>cNG, eNG</i>	36
Place names	11, 83–86	Sangamonian (Quaternary)	51
Pleistocene (Quaternary)	52	Sarfartôq carbonatite complex (Proterozoic): <i>sWG</i>	34
Pleistocene sediments (Quaternary): <i>cNG</i>	51	Sea-floor spreading	46
Pliocene sediments (Tertiary): <i>cNG</i>	51	Seaward-dipping reflectors	54
Polkorridoren Gp (Cambrian): <i>cNG</i>	35, 36, 38	Sedex-type sulphide deposit: <i>cNG</i>	62
Portfjeld Fm (Cambrian): <i>cNG, eNG</i>	31, 32, 35, 36, 39	Sedimentary basins	
Precambrian Greenland shield	10, 12	offshore	54, 65
Pridoli (Silurian): <i>wNG</i>	37	Blosseville Kyst: <i>cEG, sEG</i>	58, 65
Proterozoic orogenic belts		Kivioq: <i>NWG</i>	60
Ammassalik mobile belt: <i>SEG, sEG</i>	18, 19	Lady Anne: <i>sWG</i>	59
Basement in Caledonian fold belt: <i>cEG, NEG</i>	23, 27, 30	Liverpool Land: <i>cEG</i>	58
Ingfield mobile belt: <i>NWG</i>	21	onshore	65
Ketildian mobile belt: <i>SG, SEG</i>	21–23	Franklinian: <i>NG</i>	34–38, 64, 65
Nagssugtoqidian mobile belt: <i>cWG, sWG</i>	17, 18	Jameson Land: <i>cEG</i>	44
Rinkian mobile belt: <i>cWG, NWG</i>	10–21	Kangerlussuaq: <i>sEG</i>	80
Proterozoic sediments in Caledonian fold belt		Nuussuaq: <i>cWG</i>	46, 47, 59
late: <i>cEG, NEG</i>	32, 33	Palaeozoic: <i>EG</i>	38, 39, 41–43
middle: <i>cEG, eNG, NEG</i>	25, 27, 29	Wandel Sea: <i>cNG, eNG</i>	42, 43, 65
Proterozoic unfolded units		Wollaston Forland: <i>NEG</i>	44, 45
late		petroleum potential	63–67
sedimentary basin: <i>NWG</i>	30	Seismic data	10
sedimentary basins: <i>NG, NEG</i>	31, 32	offshore	54, 56–60
middle		onshore	64
basalts: <i>NG, SG</i>	26	Senja Fracture Zone	55
Gardar Province: <i>SG</i>	26	Sermilik: <i>SEG</i>	19
sedimentary basins: <i>NEG, NG, NWG, SG</i>	24–26, 30	Sills, <i>see</i> Dykes and sills	
Prøven charnockite (Proterozoic): <i>NWG</i>	20	Silurian: <i>NG</i>	
Pseudo-escarpment (PSE): <i>EG</i>	54, 58	carbonate sediments	35, 36
Pulaskite (Gardar): <i>SG</i>	26	turbidite trough	35, 36

Singertât complex (Archaean): <i>SEG</i>	16	Triassic sediments	
Skaergaard intrusion (Tertiary): <i>sEG</i>	50, 62, 63	<i>cEG</i>	44, 45
gold and platinum deposit: <i>sEG</i>	62, 63	<i>cNG, eNG</i>	42, 43
Skagen Gp (Cambrian): <i>NG</i>	35, 36, 38	<i>NEG</i>	45
<i>Skolithos</i> : <i>NEG</i>	34	Trolle Land fault zone: <i>cNG, eNG</i>	42
Smallefjord sequence (Proterozoic): <i>NEG</i>	27	Trolle Land Gp (Permo-Triassic): <i>cNG</i>	42, 43
Smith Sound Gp (Proterozoic): <i>NWG</i>	29–31	Tupertalik, carbonatite (Archaean): <i>sWG</i>	16
Sodalite foyaite (Gardar): <i>SG</i>	26	Turbidite flysch	
Sonntag Bugt Fm (Proterozoic): <i>NWG</i>	31	Cambro-Silurian: <i>NG</i>	36
Sorte Engel (Black Angel) lead-zinc deposit: <i>cWG</i>	62, 63	Proterozoic: <i>cWG</i>	20
Sortebakker Fm (Carboniferous): <i>eNG</i>	42, 43		
Sortis Gp (Proterozoic): <i>SWG</i>	22	U	
Source rocks		Umîvik dykes (Proterozoic): <i>sEG, SEG</i>	29
offshore	66, 67	Ungava Fracture Zone	55
onshore	64	Upernavik: <i>NWG</i>	12
Spreading axis	11, 56	Upernivik Ø: <i>cWG</i>	21
Spreading ridge	56	Uranium deposit: <i>SG</i>	62
Structural trend lines	10	Uummanaq: <i>cWG</i>	12
Sturtian (Proterozoic): <i>NEG</i>	32		
Svalbard (Norway)	55, 56	V	
T		Vaigat Fm (Tertiary): <i>cWG</i>	47, 48
Tarssartôq dykes (Archaean): <i>sWG</i>	29	Vallen Gp (Proterozoic): <i>SWG</i>	22
Taserssuaq: <i>SWG</i>	13	Varangian (Proterozoic): <i>NEG</i>	32, 33
tonalite (Archaean): <i>sWG</i>	16	Vardekløft Fm (Jurassic): <i>cEG</i>	45
Tasiusarssuaq terrane (Archaean): <i>sWG</i>	13	Vendian (Proterozoic)	
Tavsen Iskappe Gp (Cambro-Ordovician): <i>cNG, wNG</i>	31, 35	<i>NEG</i>	32, 33
‘TD’ dykes (Cretaceous): <i>sWG, SWG</i>	29	<i>NWG</i>	30
Tectono-metamorphic provinces	10	Vilddal Gp (Devonian): <i>NEG</i>	41, 42
Terranes		Vøvedal Gp (Cambro-Ordovician): <i>cNG, wNG</i>	35, 36, 38
Archaean	12, 13	W	
Palaeozoic	37	Wandel Dal: <i>cNG</i>	31
Tertiary	10	Wandel Hav strike-slip mobile belt: <i>NG</i>	42
basalts		Wandel Sea Basin: <i>cNG, eNG</i>	42, 43, 65
<i>cWG</i>	46–49	Wandel Valley Fm (Ordovician): <i>NG</i>	31
<i>EG</i>	49, 50	Washington Land: <i>wNG</i>	35
offshore: <i>EG</i>	58, 65	Washington Land Gp (Silurian): <i>NG</i>	35, 36
offshore: <i>WG</i>	59, 65	Weichselian (Quaternary)	51, 53
dykes and sills: <i>EG</i>	49, 54–56	Wells, exploration, offshore	54, 59, 66
intrusions: <i>EG</i>	50	Wenlockian (Silurian): <i>NG</i>	37
sediments		Werner Bjerger complex (Tertiary): <i>cEG</i>	50
<i>cWG</i>	46	Wisconsinan (Quaternary)	51
<i>eNG</i>	43	Wollaston Foreland, (Jurassic–Cretaceous): <i>NEG</i>	44, 45
offshore	57–60	Wolstenholme Fm (Proterozoic): <i>NWG</i>	31
<i>sEG</i>	46	Wordie Creek Fm (Triassic): <i>cEG</i>	45
volcanics: <i>EG, WG</i>	46–50	Wulff Land: <i>wNG</i>	35
Thule SGp (Proterozoic): <i>NWG</i>	30, 31	Y	
Thyra Ø Fm (Tertiary): <i>eNG</i>	43	Yermak Plateau	55, 56
Tillite Gp (Proterozoic): <i>cEG, NEG</i>	33	Ymer Ø Gp (Proterozoic): <i>NEG</i>	32–34
Tillitic rocks		Ymers Gletscher Fm (Silurian): <i>cNG</i>	35
<i>cNG</i>	32		
<i>NEG</i>	32, 33, 40	Z	
Topographic base	11	Zig-Zag Dal Basalt Fm (Proterozoic): <i>cNG, eNG</i>	31
Toqquasap Nunaa: <i>sWG</i>	17	Zinc deposits	61–63
Transform faults	11		
Transition zone, offshore	54		
Tre Brødre: <i>sWG</i>	13		

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Geological map of Greenland

1 : 2 500 000

Geological Survey of Greenland

Main periods of crust formation and orogeny

Progressive development of rocks from Early Archaean to Phanerozoic (see legend for present day settings)

