

# Greenland

**Greenland**[e] is an autonomous territory[f] in the Kingdom of Denmark. [15][16] It is by far the largest geographically of three constituent parts of the kingdom; the other two are metropolitan Denmark and the Faroe Islands. Citizens of Greenland are full citizens of Denmark and of the European Union. Greenland is one of the Overseas Countries and Territories of the European Union and is part of the Council of Europe. [17] It is the world's largest island, [g] and lies between the Arctic and Atlantic oceans, east of the Canadian Arctic Archipelago. Greenland's Kaffeklubben Island, off the northern coast, is the world's northernmost undisputed point of land[h]—Cape Morris Jesup on the mainland was thought to be so until the 1960s. The capital and largest city is Nuuk. [17] Economically, Greenland is heavily reliant on aid from Denmark, amounting to nearly half of the territory's total public revenue.

Though a part of the continent of North America, Greenland has been politically and culturally associated with the European kingdoms of Norway and Denmark for more than a millennium, beginning in 986. [19] Greenland has been inhabited at intervals over at least the last 4,500 years by circumpolar peoples whose forebears migrated there from what is now Canada. [20][21] Norsemen from Norway settled the uninhabited southern part of Greenland beginning in the 10th century (having previously settled Iceland), and their descendants lived in Greenland for 400 years until disappearing in the late 15th century. The 13th century saw the arrival of Inuit.

From the late 15th century, the Portuguese attempted to find the northern route to Asia, which ultimately led to the earliest cartographic depiction of its coastline. In the 17th century, <u>Dano-Norwegian</u> explorers reached Greenland again, finding their earlier settlement extinct and reestablishing a permanent Scandinavian presence on the island.

### Greenland

Kalaallit Nunaat (Greenlandic)
Grønland (Danish)

### Autonomous territory in the Kingdom of Denmark





### Anthem:

"Nunarput, utoqqarsuanngoravit" (Greenlandic)
"Vort ældgamle land under isblinkens
bavn" (Danish)
"You Our Ancient Land"

### Kalaallit song:

"Nuna asiilasooq" (Greenlandic)
"The Land of Great Length"<sup>[a]</sup>

### **Royal anthems:**

Der er et yndigt land (Danish) (English: "There is a lovely country")

0:00 / 0:00

\_ 1

Kong Christian stod ved højen mast (Danish)
(English: "King Christian stood by the lofty mast")

0:00 / 0:00



When Denmark and Norway separated in 1814, Greenland was transferred from the Norwegian to the Danish crown. The 1953 Constitution of Denmark ended Greenland's status as a colony, integrating it fully into the Danish state. In the 1979 Greenlandic home rule referendum, Denmark granted home rule to Greenland. In the 2008 self-government Greenlandic referendum, Greenlanders voted for the Self-Government Act, which transferred more power from the Danish the Naalakkersuisut government to local (Greenlandic government). [22] Under this structure, Greenland gradually assumed responsibility for a number of governmental services and areas of competence. The Danish government retains control of citizenship, monetary policy, security policies, and foreign affairs. With the melting of the ice due to global warming, its abundance of mineral wealth, and its strategic position between Eurasia, North America and the Arctic zone, Greenland holds strategic importance for the Kingdom of Denmark, NATO, and the EU.

Most residents of Greenland are Inuit. [23] The population is concentrated mainly on the southwest coast, strongly influenced by climatic and geographical factors, and the rest of the island is sparsely populated. With a population of 56,583 (2022), [24] Greenland is the least densely populated country in the world. [25] Greenland is socially progressive, like metropolitan Denmark; education and healthcare are free, and LGBTQ rights in Greenland are some of the most extensive in the world. Sixty-seven percent of its electricity production comes from renewable energy, mostly from hydropower. [26]

# **Etymology**

The early <u>Norse</u> settlers named the island *Greenland*. In the <u>Icelandic sagas</u>, the Norwegian <u>Erik the Red</u> was exiled from Iceland with his father, Thorvald, who had committed manslaughter. With his extended family and his <u>thralls</u> (slaves or serfs), he set out in ships to explore an icy land known to lie to the northwest. After finding a habitable area and settling

Location of Greenland (dark green) in the Kingdom of Denmark (light green)					
Sovereign state	Kingdom of Denmark				
Union with Norway Danish-Norwegian recolonization Unification with Denmark Home rule Further autonomy	1262 1721 14 January 1814 1 May 1979 21 June 2009 <sup>[2][3]</sup>				
and self rule	21 Julie 2009				
Capital and largest city	Nuuk 64°10'N 51°44'W				
Official languages	<u>Greenlandic<sup>[b]</sup></u>				
Recognized languages	Danish, English, and other languages if necessary <sup>[b]</sup>				
Ethnic groups (2020)	<ul> <li>89.51%     Greenlandic Inuit</li> <li>7.5% Danish     1.1% other Nordic</li> <li>1.9% others<sup>[5]</sup></li> </ul>				
Religion	Christianity (Church of Greenland)				
Demonym(s)	Greenlander · Greenlandic · Danish				
Government	Devolved government within a parliamentary constitutional monarchy				
<ul><li>Monarch</li><li>Prime Minister of Denmark</li></ul>	Frederik X Mette Frederiksen				
<ul><li>High Commissioner</li><li>Greenlandic Prime Minister</li></ul>	Julie Præst Wilche Jens-Frederik Nielsen				
• Speaker of the Inatsisartut	Kim Kielsen				
Legislature	Folketinget (Kingdom of Denmark) Inatsisartut (Greenland)				

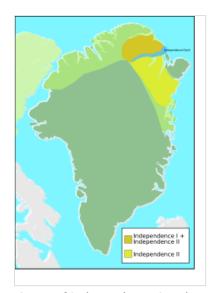
**National representation** 

there, he named it  $\underline{Grænland}$  (translated as "Greenland"), supposedly in the hope that the pleasant name would attract settlers. [27][28][29] The  $\underline{Saga\ of\ Erik\ the\ Red}$  states: "In the summer, Erik left to settle in the country he had found, which he called Greenland, as he said people would be attracted there if it had a favourable name." [30]

The name of the territory in the <u>Greenlandic</u> <u>language</u> is *Kalaallit Nunaat*, 'land of the Kalaallit'. The <u>Kalaallit</u> are the <u>Greenlandic Inuit</u> who inhabit the territory's western region. The Greenlandic Inuit term *Nunaat* does not include waters and ice. [32]

# History

# **Early Palaeo-Inuit cultures**



Areas of Independence I and Independence II cultures around Independence Fjord

• Folketing (2 members)	Aaja Chemnitz Larsen (IA) Aki-Matilda Høegh- Dam (N)			
Area • Total • Water (%)	2,166,086 km <sup>2</sup> (836,330 sq mi) 83.1 <sup>[c]</sup>			
Highest elevation	3,700 m (12,100 ft)			
Population • 2022 estimate • Density	▲ 56,583 <sup>[6]</sup> (210th) 0.028/km <sup>2</sup> (0.1/sq mi)			
GDP (PPP)  • Total  • Per capita	2021 estimate  ▲ \$3.85 billion <sup>[d][7][8]</sup> ▲ \$68,100			
GDP (nominal)  • Total  • Per capita	2021 estimate  ▲ \$3.24 billion <sup>[9]</sup> ▲ \$57,116 <sup>[10]</sup>			
<u>Gini</u> (2023)	▲ 56.0 <sup>[11]</sup> high			
HDI (2010)	▲ 0.786 <sup>[12]</sup> high · 61st			
Currency	Danish krone (DKK)			
Time zone	UTC±00:00 to UTC- 04:00			
Date format	dd-mm-yyyy			
Driving side	Right			
Calling code Postal codes ISO 3166 code	+299 39xx GL			
Internet TLD	<u>.gl</u>			

In prehistoric times, Greenland was home to several successive <u>Palaeo-Inuit</u> cultures known primarily through archaeological finds. The earliest entry of the Palaeo-Inuit into Greenland is thought to have

occurred about 2500 BC. From about 2500 BC to 800 BC, southern and western Greenland was inhabited by the <u>Saqqaq culture</u>. Most finds of remains from that period have been around <u>Disko Bay</u>, including the site of Saqqaq, for which the culture is named. [33][34]

From 2400 BC to 1300 BC, the <u>Independence I culture</u> existed in northern Greenland. It was a part of the <u>Arctic small-tool tradition</u>. [35][36][37] Towns, including <u>Deltaterrasserne</u>, appeared. About 800 BC, the Saqqaq culture disappeared and the <u>Early Dorset culture</u> emerged in western Greenland and the

<u>Independence II culture</u> in northern Greenland. It is unknown whether the Dorset people ever encountered the later <u>Thule people</u>. The people of the Dorset culture lived mainly by hunting <u>whales</u> and reindeer. 39[40][41][42]

### **Norse settlement**



Summer Night Off the Greenland Coast Circa Year 1000, by Carl Rasmussen, 1875

From 986, the west coast was settled by <u>Icelanders</u> and <u>Norwegians</u>, through a contingent of 14 boats led by Erik the Red. They formed three settlements—the <u>Eastern Settlement</u>, the <u>Western Settlement</u>, and the <u>Middle Settlement</u>—on fjords near the southwestern tip of the island. [19][43] They shared the island with the late Dorset culture inhabitants, who occupied the northern and western parts, and later with those of the Thule culture, who entered from the north. Norse Greenlanders submitted to Norwegian rule in 1261 under the <u>Kingdom of Norway</u>. [44] The Kingdom of Norway entered a personal union with Denmark in 1380, and from 1397 was a part of the Kalmar Union. [45]

The Norse settlements, such as <u>Brattahlíð</u>, thrived for centuries, before disappearing in the 15th century, perhaps at the onset of the <u>Little Ice Age. [46]</u> Except for some runic inscriptions, the only contemporary records or <u>historiography</u> that survive from the Norse settlements are of their contact with Iceland or Norway. Medieval Norwegian sagas and historical works mention Greenland's economy, the bishops of <u>Gardar</u>, and the collection of tithes. A chapter in the <u>Konungs skuggsjá</u> (*The King's Mirror*) describes Norse Greenland's exports, imports, and grain cultivation.

Icelandic saga accounts of life in Greenland were composed in the 13th century and later, and are not primary sources for the history of early Norse Greenland. [29] Those accounts are closer to primary for more contemporaneous accounts of late Norse Greenland. Modern understanding therefore mostly depends on the physical data from archaeological sites. Interpretation of ice-core and clam-shell data suggests that between AD 800 and 1300 the regions around the fjords of southern Greenland had a relatively mild climate, several degrees Celsius warmer than usual in the North Atlantic [47] with trees and herbaceous plants growing and livestock being farmed. Barley was grown as a crop up to the 70th parallel. [48] The ice cores show that Greenland has had dramatic temperature shifts many times in the past 100,000 years. [49] Similarly the Icelandic Book of Settlements records

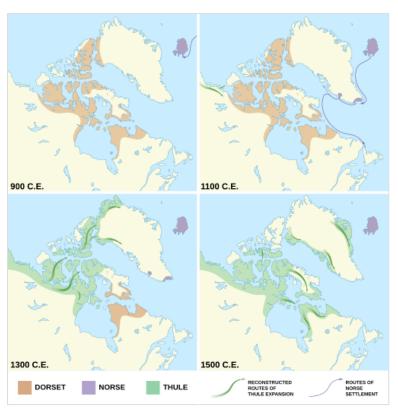


The last written records of the <u>Norse</u>
<u>Greenlanders</u> are from a 1408 marriage at <u>Hvalsey Church</u>, which is now the best-preserved Norse ruin.

famines during the winters, in which "the old and helpless were killed and thrown over cliffs". [47]

These <u>Norse settlements</u> vanished during the 14th and early 15th centuries. The demise of the Western Settlement coincides with a decrease in summer and winter temperatures. A study of North Atlantic seasonal temperature variability during the Little Ice Age showed a significant decrease in maximum summer temperatures beginning about the turn of the 14th century—as much as 6 to 8 °C (11 to 14 °F)

lower than modern summer temperatures. [51] The study also found that the lowest winter temperatures of the last 2,000 years occurred in the late 14th century and early 15th century. The Eastern Settlement was probably abandoned in the early to mid-15th century, during this cold period.



Estimated extent of Arctic cultures in Greenland from 900 AD to 1500 AD. Coloured areas on each map indicate the extent and migration patterns over time of the <u>Dorset</u>, <u>Thule</u>, and <u>Norse</u> cultures.

Theories drawn from archaeological excavations at Herjolfsnes in the 1920s suggest that the condition of human bones from this period indicates that the Norse population was malnourished, possibly because of soil erosion resulting from the Norsemen's destruction of natural vegetation in the course of farming, turf-cutting, and wood-cutting. Malnutrition may also have resulted from widespread deaths from pandemic plague; [52] the decline in temperatures during the Little Ice Age; and armed conflicts with the *Skrælings* (Norse word meaning "wretches" [46]). Recent archaeological studies somewhat challenge the general assumption that the Norse colonization had a dramatic negative environmental effect on the vegetation. Data support traces of a possible Norse soil amendment strategy.[53] More recent evidence suggests that the Norse, who never numbered more than about 2,500,

gradually abandoned the Greenland settlements over the 15th century as <u>walrus ivory</u>, the most valuable export from Greenland, decreased in price because of competition with other sources of higher-quality ivory, and that there was actually little evidence of starvation or difficulties. [55]

Other explanations of the disappearance of the Norse settlements have been proposed:

- 1. Lack of support from the homeland. [52]
- 2. Ship-borne marauders (such as <u>Basque</u>, English, or German pirates), rather than *Skrælings*, could have plundered and displaced the Greenlanders.<sup>[56]</sup>
- 3. They were "the victims of hidebound thinking and of a hierarchical society dominated by the Church and the biggest land owners. In their reluctance to see themselves as anything but Europeans, the Greenlanders failed to adopt the kind of apparel that the Inuit employed as protection against the cold and damp or to borrow any of the Inuit hunting gear." [19][46]
- 4. That portion of the Greenlander population willing to adopt Inuit ways and means intermarried with and assimilated into the Inuit community. [57] Much of the Greenland population is mixed Inuit and European ancestry. It was impossible in 1938 when Stefansson wrote his book to distinguish between intermarriage before the European loss of contact and after the contact was restored.
- 5. "Norse society's structure created a conflict between the short-term interests of those in power, and the long-term interests of the society as a whole." [46]

# **Thule culture (1300-present)**

The Thule people are the ancestors of the current Greenlandic population. No genes from the Palaeo-Inuit <u>Dorset culture</u> have been found in the present population of Greenland. The Thule culture migrated eastward from what is now known as Alaska around 1000 AD, reaching Greenland around 1300. The Thule culture was the first to introduce to Greenland such technological innovations as <u>dog sleds</u> and toggling harpoons.

There is an account of contact and conflict with the Norse population, as told by the Inuit. It is republished in *The Norse Atlantic Sagas*, by Gwyn Jones. Jones reports that there is also an account of perhaps the same incident, of more doubtful provenance, told by the Norse side.

### 1500-1814

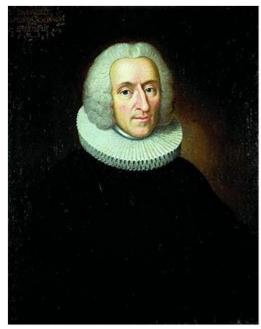
In 1500, King Manuel I of Portugal sent Gaspar Corte-Real to Greenland in search of a Northwest Passage to Asia which, according to the Treaty of Tordesillas, was part of Portugal's sphere of influence. In 1501, Corte-Real returned with his brother, Miguel Corte-Real. Finding the sea frozen, they headed south and arrived in Labrador and Newfoundland. Upon the brothers' return to Portugal, the cartographic information supplied by Corte-Real was incorporated into a new map of the world which was presented to Ercole I d'Este, Duke of Ferrara, by Alberto Cantino in 1502. The Cantino planisphere, made in Lisbon, accurately depicts the southern coastline of Greenland. [59]

In 1605–1607, King Christian IV of Denmark and Norway sent a series of expeditions to Greenland and Arctic waterways to locate the lost eastern Norse settlement and assert Danish-Norwegian sovereignty over Greenland. The expeditions were mostly unsuccessful, partly due to leaders who lacked experience with the difficult Arctic ice and weather conditions, and partly because the expedition leaders were given instructions to search for the Eastern Settlement on the east coast of Greenland just north of Cape Farewell, which is almost inaccessible due to southward drifting ice. The pilot on all three trips was English explorer James Hall.

After the Norse settlements died off, Greenland came under the de facto control of various Inuit groups, but the Dano-Norwegian government never forgot or relinquished the claims to Greenland that it had inherited from the Norse. When it re-established contact with Greenland in the early 17th century, Denmark-Norway asserted its sovereignty over



The <u>Cantino planisphere</u>, completed by an unknown Portuguese cartographer in 1502, depicts Greenland as a Portuguese territory claimed by <u>King Manuel I</u>.



<u>Hans Egede</u> (1686–1758), Lutheran missionary, credited with revitalising Denmark's relationship with Greenland

the island. In 1721 a joint mercantile and clerical expedition led by Dano-Norwegian missionary <u>Hans</u> <u>Egede</u> was sent to Greenland, not knowing whether a Norse civilization remained there. This expedition is part of the Dano-Norwegian colonization of the Americas. After 15 years in Greenland, Hans Egede

left his son Paul Egede in charge of the mission there and returned to Denmark, where he established a Greenland Seminary. This new colony was centred at Godthåb ("Good Hope") on the southwest coast. Gradually, Greenland was opened up to Danish merchants, but closed to those from other countries.

# Treaty of Kiel to World War II (1814–1945)

When the union between the crowns Denmark and Norway was dissolved in 1814, the Treaty of Kiel severed Norway's former colonies and left them under the control of the Danish monarch. Norway occupied then-uninhabited eastern Greenland as Erik the Red's Land in July 1931, claiming that it constituted terra nullius. Norway and Denmark agreed





Godthåb in Greenland, c. 1878

Pictures of Greenland, c. 1863

Norway. [60]

to submit the matter in 1933 to the Permanent Court of International Justice, which decided against

Greenland's connection to Denmark was severed on 9 April 1940, early in World War II, after Denmark was occupied by Nazi Germany. On 8 April 1941, the United States occupied Greenland to defend it against a possible invasion by Germany. [61] The United States' occupation of Greenland continued until 1945. Greenland was able to buy goods from the United States and Canada by selling cryolite from the mine at Ivittuut. In World War II, the United States military used Bluie as a code name for Greenland. where they kept several bases named "Bluie (East or West) (sequential numeral)". [62] The major air bases were Bluie West-1 at Narsarsuag and Bluie West-8 at Søndre Strømfjord (Kangerlussuag), both of which are still used as Greenland's major international airports.

During this war, the system of government changed: Governor Eske Brun ruled the island under a law of 1925 that allowed governors to take control under extreme circumstances; Governor Aksel Svane was transferred to the United States to lead the commission to supply Greenland. The Danish Sirius Patrol guarded the northeastern shores of Greenland in 1942 using dog sleds. They detected several German weather stations and alerted American troops, who destroyed the facilities. After the collapse of the Third Reich, Albert Speer briefly considered escaping in a small aeroplane to hide out in Greenland, but changed his mind and decided to surrender to the United States Armed Forces. [63]

Greenland had a protected and very isolated society until 1940. [64] It was a colony, and it was believed that its society would be subject to exploitation or even eradication if the country was opened up. The Danish government had maintained a strict monopoly of Greenlandic trade, allowing no more than small scale barter trading with British whalers. In wartime Greenland developed a sense of self-reliance through self-government and independent communication with the outside world. Despite this change, in 1946 a commission including the highest Greenlandic council, the *Landsrådene*, recommended patience and no radical reform of the system.

# **Home rule and self-rule (1945-present)**

The first step towards a change of government was initiated with the <u>Greenland Commission</u>, which operated from 1948 to 1950. With its final report (the G-50), the first steps toward the modernization of Greenland were taken. The report recommended that Greenland become a modern <u>welfare state</u>, modelled after Denmark proper and with Denmark's development as sponsor, and the trade monopoly was abolished. [65]

With the 1953 Danish constitution, Greenland's colonial status ended, and the island was incorporated into the Danish realm as an <u>amt</u> (county), and thus fully integrated into Denmark like all other Danish counties. Danish citizenship was extended to Greenlanders. Danish policies toward Greenland consisted of a strategy of cultural assimilation — or de-Greenlandification. During this period, the Danish government promoted the exclusive use of the Danish language in official matters, and required Greenlanders to go to Denmark for their post-secondary education. Many Greenlandic children grew up in boarding schools in southern Denmark, and some lost their cultural ties to Greenland.



Margrethe II of Denmark, during whose reign (1972–2024) Greenland received home-rule in 1979 and self-rule in 2009. Queen Margrethe II Land is named after her.

While the policies "succeeded" in the sense of shifting Greenlanders from being primarily subsistence hunters into being urbanized wage earners, the Greenlandic elite began to reassert a Greenlandic cultural identity. A movement developed in favour of <u>Greenlandic independence</u>, reaching its peak in the 1970s. [66]

As in metropolitan Denmark, Greenland has seen significant expansion of the welfare state in the postwar era. Education and healthcare are free, and <u>LGBTQ</u> rights in <u>Greenland</u> are some of the most extensive in the Americas and the world. In 1987, the <u>University of Greenland</u> was founded to provide Greenlanders with higher education in their own language and country.

The United States offered to <u>buy Greenland</u> from Denmark for \$100,000,000 in 1946; Denmark firmly rejected the offer, as the island was seen as an integral part of the Danish kingdom, important to its history and national identity. [67][68] In 1951 Denmark and the United States signed the Greenland Defense Agreement, which allowed the United States to keep its military bases in Greenland, and to establish new bases or "defence areas" if deemed necessary by NATO. The U.S. military could freely use and move between these defence areas, but was not to infringe upon Danish sovereignty in Greenland. [69] The United States greatly expanded Thule Air Base between 1951 and 1953 as part of a unified NATO defence strategy. The local population of three nearby villages was moved more than 100 km (62 miles) away in the winter. The United States tried to construct a subterranean network of secret <u>nuclear missile</u> launch sites in the Greenlandic ice cap, named Project Iceworm. [70] According to documents declassified in 1996, [71] this project was managed from Camp Century from 1960 to 1966 before abandonment as unworkable. [72] The missiles were never fielded, and necessary consent from the Danish Government to do so was never sought. The Danish government was not aware of the programme's mission until 1997, when they discovered it while looking in the declassified documents for records related to the <u>crash of a nuclear-equipped B-52</u> bomber near the Thule air base in 1968.

In 1973, an amicable <u>border dispute between Denmark and Canada</u> arose over the ownership of <u>Hans Island</u>, a small island in <u>Nares Strait</u> directly between Greenland and the Canadian territory of <u>Nunavut</u>. The island remained in dispute until 2022, when both countries agreed to split the disputed island roughly in half. [74]

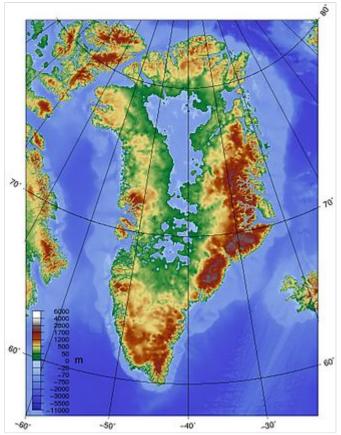
Due to political complications in relation to Denmark's entry into the European Common Market in 1972, Denmark began to seek a different status for Greenland, resulting in the Home Rule Act of 1979. A referendum was held on 17 January 1979. This gave Greenland limited autonomy, with its own legislature taking control of some internal policies, while the Parliament of Denmark maintained full control of external policies, security, and natural resources. The law came into effect on 1 May 1979. The Danish monarch remains Greenland's head of state. In 1985, Greenland left the European Economic Community (EEC), as it did not agree with the EEC's commercial fishing regulations and an EEC ban on sealskin products. [75]

Greenland voters approved a referendum on greater autonomy on 25 November 2008. [76][77] According to one study, the 2008 vote created what "can be seen as a system between home rule and full independence". [78] On 21 June 2009, Greenland gained self-rule with provisions for assuming responsibility for self-government of its judicial affairs, policing matters, and natural resources. Also, Greenlanders were recognized as a separate people under international law. [79] Denmark maintains control of the territory's foreign affairs and defence matters, and upholds an annual block grant of 3.2 billion Danish kroner. As Greenland begins to collect revenues from its natural resources, this grant will gradually be diminished; this is generally considered to be a step toward the territory's eventual full independence from Denmark. [80] In 2012, Greenlandic was declared the sole official language of Greenland at a historic ceremony. [2][4][81][82][83] In February 2024, Naalakkersuisut released a policy document outlining the territory's goal of asserting greater autonomy in international affairs. The strategy emphasizes Greenland's right to influence decisions that impact its future. Key objectives include strengthening relations with Arctic North America, promoting regional peace, enhancing security cooperation within the Kingdom of Denmark and NATO, and addressing the growing global interest in the Arctic from major powers such as the United States, Canada, Russia, and China. [84]

Since 2019, U.S. president Donald Trump has claimed that the U.S. should control Greenland, [79] stating that its residents "want to be with us", despite 85% opposition by Greenlandic adults. [85] The Danish government called Trump's claims "absurd" and Prime Minister Mette Frederiksen emphasized that Greenland is not for sale. [86] Denmark's minister of defence Troels Lund Poulsen has said that Trump cannot demand a part of Denmark's territory, [87] and Greenland's prime minister Jens-Frederik Nielsen said Trump will not get Greenland. [88] The Greenland government has accused the United States of foreign interference in its affairs, [89] and Greenland's then-prime minister Múte Bourup Egede said "until recently, we could trust the Americans, who were our allies and friends, and with whom we enjoyed working very closely, but that time is over. [90] In April 2025, the New York Times reported that plans to claim Greenland were now official U.S. policy, to be accomplished through public relations and social media, and by persuading Greenlanders with cash payments. [91] In April 2025, U.S. Pituffik Space Base commander Susannah Meyers was fired for undermining U.S leadership after she wrote an e-mail in which she disagreed with U.S. vice president JD Vance's assessment of Greenland's security. [92]

# Geography

Greenland is the world's largest non-continental island $\frac{[93]}{}$  and the third largest area in North America after Canada and the United States. [94] It is between latitudes 59° and 83°N, and longitudes 11° and 74°W. Over 80% of Greenland lies north of the Arctic Circle. Greenland is bordered by the Arctic Ocean to the north, the Greenland Sea to the east, the North Atlantic Ocean to the southeast, the Davis Strait to the southwest, Baffin Bay to the west, the Nares Strait and Lincoln Sea to the northwest. The nearest countries to Greenland are Canada, with which it shares a maritime border, to the west and southwest across Nares Strait and Baffin Bay, as well as a shared land border on Hans Island; [95] and Iceland, southeast of Greenland in the Atlantic Ocean. Greenland also contains the world's largest national park; it is the largest constituent country by area in the world and is the fourth largest country subdivision in the world, after Sakha Republic in Russia, Australia's state of Western Australia, and Russia's Krasnoyarsk Krai, and the largest in North America.



Greenland bedrock is above sea level.

The lowest temperature ever recorded in the <u>Northern Hemisphere</u> was recorded in Greenland, near the topographic summit of the <u>Greenland Ice Sheet</u>, on 22 December 1991, when the temperature reached –69.6 °C (–93.3 °F). In Nuuk, the average daily temperature varies over the seasons from –5.1 to 9.9 °C (22.8 to 49.8 °F). The total area of Greenland is 2,166,086 km² (836,330 sq mi) (including other offshore minor islands), of which the <u>Greenland ice sheet</u> covers 1,755,637 km² (677,855 sq mi) (81%) and has a volume of approximately 2,850,000 km³ (680,000 cu mi). The highest point on Greenland is <u>Gunnbjørn Fjeld</u> at 3,700 m (12,100 ft) of the <u>Watkins Range</u> (<u>East Greenland mountain range</u>). The majority of Greenland, however, is less than 1,500 m (4,900 ft) in elevation.

Below the ice there is a series of canyons, the biggest called <u>Greenland's Grand Canyon</u> which was formed by flowing rivers of water from the repeated cycle of ice melting and new ice forming. [99] Near the coast elevations rise suddenly and steeply. [100]

The ice <u>flows</u> generally to the coast from the centre of the island. A survey led by French scientist <u>Paul-Emile Victor</u> in 1951 concluded that, under the ice sheet, Greenland is composed of three large islands. This is disputed, but if it is so, they would be separated by narrow straits, reaching the sea at Ilulissat Icefjord, at Greenland's Grand Canyon and south of Nordostrundingen.

All towns and settlements of Greenland are situated along the ice-free coast, with the population being concentrated along the west coast. The northeastern part of Greenland is not part of any municipality, but it is the site of the world's largest national park, Northeast Greenland National Park. [102]

At least four scientific expedition stations and camps had been established on the ice sheet in the ice-covered central part of Greenland (indicated as pale blue in the adjacent map): Eismitte, North Ice, North GRIP Camp and The Raven Skiway. There is a year-round station Summit Camp on the ice sheet, established in 1989. The radio station Jørgen Brønlund Fjord was, until 1950, the northernmost permanent outpost in the world.

The extreme north of Greenland, Peary Land, is not covered by an ice sheet, because the air there is too dry to produce snow, which is essential in the production and maintenance of an ice sheet.



Polar explorer and anthropologist Knud Rasmussen (1879–1933), called the "father of Eskimology", was the first to explore the Greenland ice sheet by dog sled.



Ludvig Mylius-Erichsen (1872–1907), who died while commander of the 1906–1908 Denmark expedition, documenting vast areas of unexplored coastlines and fjords

In 2007, the existence of a new island was announced. Named "<u>Uunartoq Qeqertaq</u>" (English: *Warming Island*), this island has always been present off the coast of Greenland but was covered by a glacier. This glacier was discovered in 2002 to be shrinking rapidly, and by 2007 had completely melted away, leaving the exposed island. The island was named Place of the Year by the Oxford Atlas of the World in 2007. Ben Keene, the atlas's editor, commented:

In the last two or three decades, global warming has reduced the size of glaciers throughout the <u>Arctic</u> and earlier this year, news sources confirmed what climate scientists already knew: water, not rock, lay beneath this <u>ice bridge</u> on the east coast of Greenland. More islets are likely to appear as the sheet of frozen water covering the world's largest island continues to melt. [105]

Some controversy surrounds the history of the island, specifically over whether the island might have been revealed during a brief warm period in Greenland during the mid-20th century. [106]

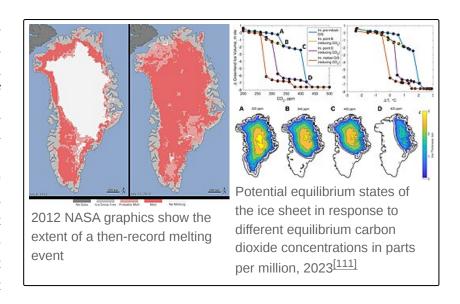
# Northernmost land

The northernmost point of land on Earth was long thought to be <u>Cape Morris Jesup</u> at the northern tip of mainland Greenland. However, in 1969 a Canadian team surveyed <u>Kaffeklubben Island</u> (latitude 83° 39′ 45″ N), which was first recorded in 1900 and first visited in 1921, and determined that its northernmost point is 750 m north of Cape Morris Jesup. It is thus the northernmost undisputed permanent land. [107]

Other points have been claimed to be the northernmost point, with dispute over the title arising from <u>ice</u> <u>sheets</u>, water movement and inundation, and storm activity that may build, shift, or destroy banks of gravelly <u>moraine</u> material. In 1978 Uffe Petersen, a member of the <u>Danish Geodetic Institute</u>, discovered <u>Oodaaq Island</u> at 83° 40' 32.5" N. Its last confirmed sighting was in 1979. In 2003, a small protrusion of rocks and boulders, 35 m  $\times$  15 m (115 ft  $\times$  49 ft) in length and width, was discovered by Arctic explorer <u>Dennis Schmitt</u> and his team at latitude 83° 42' N and unofficially named <u>83-42</u>. Whether this land is permanent is uncertain; a 2022 bathymetric survey determined that it was likely *not* connected to the seafloor, but rather rocky material on top of sea ice, and thus not land.

# Climate change

The Greenland ice sheet always loses some mass from ice calving at its coasts, but it used to balance this on average by the accumulation of snowfall. However, Greenland has been warming since around 1900, and starting in the 1980s, the losses became larger than the gains. After 1996, Greenland has not had a single year when it did not lose mass on average. In the 2010s, the Greenland ice sheet melted at its fastest rate during at least the past 12,000 years, and is on



track to exceed that later in the century. [116] In 2012, 2019 and 2021, so-called "massive melting events" occurred, when practically the entire surface of the ice sheet was melting and no accumulation took place. [117][118][119] During the 2021 event, rain fell at Greenland's highest point for the first time in recorded history, an event so unexpected that the research station at the summit had no rain gauges for the occasion. [120]

As with the ice loss elsewhere, the melting of Greenland contributes to sea level rise. Between 2012 and 2017, this melting added an average of 0.68 mm per year, [121] equal to 37% of sea level rise from land ice sources (excluding thermal expansion of water from the continual increase in the ocean heat content). [122] By the end of the century, the melting of Greenland alone will add between  $\sim$ 6 cm ( $2^{1}/_{2}$  in) if the temperature change is kept below 2 °C (3.6 °F), to around 13 cm (5 in) if the most intense climate change scenario with ever-increasing greenhouse gas emissions is followed. [123]:1302 Under this scenario, the worst case for Greenland melting could reach 33 cm (13 in) of sea level rise equivalent. [124] The large quantities of fresh meltwater also affect the Atlantic meridional overturning circulation (AMOC) by diluting key currents, slowing it down. [125][126] Due to this meltwater input, the circulation may even collapse outright with widespread detrimental effects, although research suggests this is likely only if the highest possible warming is sustained for multiple centuries. [127][128]

Greenland's ice sheet has a volume of ~2,900,000 cubic kilometres (696,000 cu mi). This means that if it were all to melt, global sea level would increase by ~7.4 m (24 ft) from that event alone. However, it also means that it will take at least 1,000 years for the ice sheet to disappear even with very high rates of global warming, and in around 10,000 years under lower rates of warming which still cross the

threshold for the ice sheet's disappearance. This threshold likely lies for between 1.7 °C (3.1 °F) and 2.3 °C (4.1 °F). Reducing the warming back to 1.5 °C (2.7 °F) or lower above preindustrial levels (such as through large-scale carbon dioxide removal) would arrest the losses, but still cause greater ultimate sea level rise than if the threshold had never been exceeded. Further, 1.5 °C (2.7 °F) itself appears to commit the Greenland ice sheet to 1.4 m ( $4\frac{1}{2}$  ft) of sea level rise.

A study published in January 2025 in the *Proceedings of the National Academy of Sciences* reported an "abrupt, coherent, climate-driven transformation" from "blue" (more transparent) to "brown" (less transparent) states of lakes in Greenland after a season of both record heat and rainfall drove a <u>state change</u> in these systems. This change was said to alter "numerous physical, chemical, and biological lake features", and the state changes were said to be unprecedented. [134]

# Geology

The island was part of the very ancient <u>Precambrian</u> continent of <u>Laurentia</u>, the eastern core of which forms the Greenland Shield, while the less exposed coastal strips became a plateau. On these ice-free coastal strips are sediments formed in the <u>Precambrian</u>, overprinted by metamorphism and now formed by glaciers, which continue into the Cenozoic and Mesozoic in parts of the island.

In the east and west of Greenland there are remnants of flood <u>basalts</u> and igneous intrusions, such as the <u>Skaergaard intrusion</u>. Notable rock provinces (<u>metamorphic</u> igneous rocks, ultramafics, and anorthosites) are found on the southwest coast at Qeqertarsuatsiaat. East of Nuuk, the banded iron ore region of Isukasia, over three billion years old, contains the world's oldest rocks, such as greenlandite (a rock composed predominantly of hornblende and hyperthene), formed 3.8 billion years ago, and nummite. In southern Greenland, the Illimaussaq alkaline complex consists of <u>pegmatites</u> such as nepheline, syenites (especially kakortokite or naujaite) and sodalite (sodalite-foya). In Ivittuut, where cryolite was formerly mined, there are <u>fluoride</u>-bearing pegmatites. To the north of Igaliku, there are the Gardar alkaline pegmatitic intrusions of augite syenite, gabbro, etc.

To the west and southwest are <u>Palaeozoic</u> carbonatite complexes at Kangerlussuaq (Gardiner complex) and Safartoq, and basic and ultrabasic igneous rocks at Uiffaq on Disko Island, where there are masses of heavy native iron up to 25 t (28 short tons) in the basalts. [136]

The palaeontology of East Greenland is specially rich, with some of the early tetrapods such as the <u>Acanthostega</u> and <u>Ichthyostega</u> from the <u>Devonian [137]</u> and unique <u>Triassic</u> animals such as the phytosaur *Mystriosuchus alleroq [138]* and the dinosaurs *Issi saaneq [139]* and tracks. [140]

# **Biodiversity**

Greenland is home to two ecoregions: Kalaallit Nunaat high arctic tundra and Kalaallit Nunaat low arctic tundra. [141] There are approximately 700 known species of insects in Greenland, which is low compared with other countries (over one million species have been described worldwide). The sea is rich



Greenlandic muskoxen at King Oscar Fjord



The <u>Greenland Dog</u> was brought from Siberia around 1000 AD.

in fish and invertebrates, especially in the milder <u>West Greenland Current</u>; a large part of the Greenland fauna is associated with marine-based food chains, including large colonies of seabirds. The few native land mammals in Greenland include the <u>polar bear</u>, <u>reindeer</u> (introduced by Europeans), <u>arctic fox</u>, <u>arctic hare</u>, <u>musk ox</u>, <u>collared lemming</u>, <u>ermine</u>, and <u>arctic wolf</u>. The last four are found naturally only in <u>East Greenland</u>, having immigrated from <u>Ellesmere Island</u>. There are dozens of species of <u>seals</u> and <u>whales</u> along the coast. Land fauna consists predominantly of animals which have spread from <u>North America</u> or, in the case of many <u>birds</u> and <u>insects</u>, from <u>Europe</u>. There are no native or free-living <u>reptiles</u> or amphibians on the island. [142]

<u>Phytogeographically</u>, Greenland belongs to the Arctic province of the <u>Circumboreal Region</u> within the <u>Boreal Kingdom</u>. The island is sparsely populated in vegetation; plant life consists mainly of grassland and small shrubs, which are regularly grazed by livestock. The most common tree native to Greenland is the European white birch (<u>Betula pubescens</u>) along with grey-leaf willow (<u>Salix glauca</u>), rowan (<u>Sorbus aucuparia</u>), common juniper (<u>Juniperus communis</u>) and other smaller trees, mainly willows.

Greenland's flora consists of about 500 species of "higher" plants, such as <u>flowering plants</u>, <u>ferns</u>, <u>horsetails</u> and <u>lycopodiophyta</u>. Of the other groups, the <u>lichens</u> are the most diverse, with about 950 species; there are 600–700 species of fungi; <u>mosses</u> and <u>bryophytes</u> are also found. Most of Greenland's higher plants have <u>circumpolar</u> or <u>circumboreal</u> distributions; only a dozen species of <u>saxifrage</u> and hawkweed are endemic. A few plant species were introduced by the Norsemen, such as cow vetch.

The terrestrial vertebrates of Greenland include the Greenland dog, which was introduced by the Inuit, as well as European-introduced species such as Greenlandic sheep, goats, cattle, reindeer, horse, chicken and sheepdog, all descendants of animals imported by Europeans. Marine mammals include the hooded seal (*Cystophora cristata*) as well as the grey seal (*Halichoerus grypus*). Whales frequently pass very close to Greenland's shores in the late summer and early autumn. Whale species include the beluga whale, blue whale, Greenland whale, fin whale, humpback whale, minke whale, narwhal, pilot whale, sperm whale.



<u>Humpback whale</u> in <u>Disko Bay</u> near <u>Ilulissat</u> (Jacobshavn)

As of 2009, 269 species of fish from over 80 different families are known from the waters surrounding Greenland. Almost all are marine species with only a few in freshwater, such as <u>Atlantic salmon</u> and <u>charr. [145]</u> The <u>fishing industry</u> is the primary industry of Greenland's economy, accounting for the majority of territory's total exports. [146]

Birds, particularly seabirds, are an important part of Greenland's animal life; they consist of both Palearctic and Nearctic species, breeding populations of auks, puffins, skuas, and kittiwakes are found on steep mountainsides. [147][148][149][150] Greenland's ducks and geese include common eider, long-tailed duck, king eider, white-fronted goose, pink-footed goose and barnacle goose. Breeding migratory birds include the snow bunting, lapland bunting, ringed plover, red-throated loon and red-necked phalarope. Non-migratory land birds include the arctic redpoll, ptarmigan, short-eared owl, snowy owl, gyrfalcon and white-tailed eagle. [142]

# **Government and politics**

The Greenlandic government Naalakkersuisut holds executive power in local government affairs. The head of Greenlandic government is Naalakkersuisut Siulittaasuat ("Premier"). Any other member of the cabinet is called a Naalakkersuisog ("Minister"). The Greenlandic parliament is called *Inatsisartut* ("Legislators"). The parliament currently has 31 members. [151]

In contemporary times, elections are held at municipal, national (*Inatsisartut*), and kingdom (*Folketing*) levels.







Prime Minister Premier of of Denmark Mette Frederiksen



Greenland Jens-Frederik Nielsen

Greenland is a self-governing entity within the constitutional monarchy of the Kingdom of Denmark, in which King Frederik X is the head of state. The monarch officially retains executive power and presides over the Council of State (privy council). [152][153] However, following the introduction of a parliamentary system of government, the duties of the monarch have since become strictly representative and ceremonial, [154] such as the formal appointment and dismissal of the prime minister and other ministers in the executive government. The monarch is not answerable for his or her actions, and the monarch's person is sacrosanct.[155]

Following World War II, the United Nations mandated that colonies should become independent, enter into free association with another country, or be fully integrated into the metropole (the former colonial power). Denmark opted in 1952 to integrate Greenland into the Danish Realm. In 1979, the Danish government and parliament introduced home rule for Greenland which meant that Naalakkersuisut could assume control over 17 different areas of government. Further devolution of power from Denmark to Greenland came with the "Greenland Self-Government Act" (GSGA) in 2009, that added 33 new areas of government to the pool, the Naalakkersuisut assume control over. The GSGA also resulted from a recognition in Denmark that the people of Greenland had a right to self-determination, and gave a legal section for Naalakkersuisut to trigger an independence process (Section 21, GSGA). [156][157][158]

Greenland membership in the Council of Europe through Denmark also shows activities at international level, with the last recorded activity in January 2025 concerning a visit from the Committee for the Prevention of Torture.

# **Political system**

The party system was dominated by the social-democratic Forward Party, and the democratic socialist Inuit Community Party, both of which broadly have argued for greater independence from Denmark.

While the 2009 election saw the unionist Democrat Party (two MPs) decline greatly, the 2013 election consolidated the power of the two main parties at the expense of the smaller groups, and saw the ecosocialist Inuit Party elected to the Parliament for the first time. The dominance of the Forward and Inuit Community parties began to wane after the snap 2014 and 2018 elections.

The non-binding 2008 referendum on self-governance favouring increased self-governance and autonomy was passed winning 76.22% of the vote. [160]

In 1985, Greenland left the European Economic Community (EEC), unlike Denmark, which remains a member. The EEC later became the European Union (EU, renamed and expanded in scope in 1992). Greenland retains some ties through its associated relationship with the EU. However, EU law largely does not apply to Greenland except in the area of trade. Greenland is designated as a member of the Overseas Countries and Territories (OCT) and is thus officially not a



<u>Christiansborg</u> in <u>Copenhagen</u>, seat of the <u>Danish Parliament</u>, from where Greenland's foreign, defence and security policy is decided<sup>[159]</sup>

part of the <u>European Union</u>, though Greenland can and does receive support from the <u>European Development Fund</u>, <u>Multiannual Financial Framework</u>, <u>European Investment Bank</u> and EU programmes. [161][162]

### Government

Greenland's <u>head of state</u> is <u>King Frederik X</u>. The King's government <u>in Denmark</u> appoints a <u>high commissioner</u> (*Rigsombudsmand*) to represent it on the island. The commissioner is Julie Præst Wilche.

The Greenland constituency elects two MP representatives to the Kingdom Parliament (*Folketinget*) in Denmark, out of a total of 179. The current representatives are Aki-Matilda Høegh-Dam of the Naleraq Party and Aaja Chemnitz Larsen of the Inuit Community Party. [163]

Greenland has a national <u>Parliament</u> that consists of <u>31 representatives</u>. The government is the <u>Naalakkersuisut</u>, whose members are appointed by the <u>premier</u>. The premier is the <u>head of government</u>, and is usually the leader of the majority party in Parliament. The premier is <u>Múte Bourup Egede</u> of the <u>Inuit Ataqatigiit party</u>. [164]

# Avannaata Northeast Greenland National Park Qeqqata Qeqqata

Municipalities of Greenland

### **Administrative divisions**

Formerly consisting of three counties comprising a total of 18 municipalities, Greenland abolished these in 2009 and has since been

divided into large territories known as "municipalities" (Greenlandic: kommuneqarfiit, Danish: kommuner): Sermersooq ("Much Ice") around the capital Nuuk and also including all East Coast communities; Kujalleq ("South") around Cape Farewell; Qeqqata ("Centre") north of the capital along the Davis Strait; Qeqertalik ("The one with islands") surrounding Disko Bay; and Avannaata ("Northern") in the northwest; the latter two having come into being as a result of the Qaasuitsup municipality, one of the original four, being partitioned in 2018. The northeast of the island composes the unincorporated Northeast Greenland National Park. Pituffik Space Base is also unincorporated, an enclave within Avannaata municipality. As a territorial concession granted to the United States in perpetuity, it is administered by the United States Space Force. During its construction, there were as many as 12,000 American residents but in recent years the number has been below 1,000.

# **Military**

Greenland does not have its own military. As a territory of Denmark, the <u>Danish military</u> is responsible for Greenland's defence and the island is within the area overseen by the <u>NATO</u> military alliance. The <u>Joint Arctic Command</u> is the Danish military branch responsible for Greenland. It includes several patrol ships, <u>maritime patrol aircraft</u>, helicopters, and the elite <u>Sirius Dog Sled Patrol</u>. The Danish military has personnel based at <u>Nuuk</u>, <u>Kangerlussuaq</u>, <u>Daneborg</u>, <u>Station Nord</u>, <u>Mestersvig</u>, <u>Grønnedal</u>, and a liaison detachment at Thule Air Base.



The United States has operated <u>Pituffik</u> <u>Space Base</u>, originally Thule Air Base, since the 1950s.

There is also one <u>United States military</u> base in Greenland: <u>Pituffik Space Base</u> (previously Thule Air Base), which is home to the <u>United States Space Force</u>'s global network of sensors providing missile warning, space surveillance and space control to <u>North American Aerospace Defence Command</u> (NORAD). Elements of the sensor systems are commanded and controlled variously by Space Deltas <u>2</u>, <u>4</u>, and <u>6</u>. Formerly there had been several U.S. bases in Greenland. The 1951 Greenland Defense Agreement allowed the United States to keep its military bases there, and to establish new bases with the consent of Greenland and Denmark, if deemed necessary by NATO. [69][167]

In 1995, a political scandal in Denmark occurred after a report revealed the government had given tacit permission for <u>nuclear weapons</u> to be located in Greenland, in contravention of Denmark's 1957 <u>nuclear-free zone</u> policy. The United States built a secret nuclear powered base, called <u>Camp Century</u>, in the Greenland ice sheet. On 21 January 1968, a B-52G, with four nuclear bombs aboard as part of <u>Operation Chrome Dome</u>, <u>crashed on the ice</u> of the North Star Bay while attempting an emergency landing at <u>Thule Air Base</u>. The resulting fire caused extensive radioactive contamination. One of the H-bombs remains lost.

# **Economy**

The single most important factor in the Greenlandic economy is financial aid from Denmark, mainly in the form of the <u>bloktilskud</u> (<u>block grant</u>). In 2024, the <u>bloktilskud</u> to Greenland was 4.3 billion kr, in of itself amounting to a third of the island's total public revenue. [174] On top of this, the Danish state covered the expenses for i.a. judiciary and defence, which together were estimated to amount to over 1 billion kr. [175] As of 2019 it subsidizes Greenland with 4.3 billion kr. annually, [176] up from 3,6 billion kr. in 2009. [177]

The Greenlandic economy is highly dependent on fishing. Fishing accounts for more than 90% of Greenland's exports. The shrimp and fish industry is by far the largest income earner. Greenland is abundant in minerals, but extraction has been limited. A state company, Nunaoil, was created to help develop the hydrocarbon industry in Greenland. However, in July 2021, Greenland banned all new oil and gas exploration in its territory, after government officials said that the environmental "price of oil extraction is too high". [180]

Greenland is a very difficult place to extract natural resources, for a number of reasons, including extreme weather conditions and a strong environmentalist community. The New York Times reported in March 2025 that, despite dozens of exploratory projects, there are only two active mines in Greenland. [181]

Electricity has traditionally been generated by oil or diesel power plants, even if there is a large surplus of potential <a href="https://hydropower.">hydropower</a>. There is a programme to build hydropower plants. The first, and still the largest, is <a href="https://example.com/Buksefjord">Buksefjord</a> hydroelectric power plant.



<u>Sermiligaaq</u>, one of more than 60 settlements (Danish: *bygder*)

There are also plans to build a large aluminium smelter, using hydropower to create an exportable product. It is expected that much of the labour needed will be imported. [182]

The <u>European Union</u> has urged Greenland to restrict development by the People's Republic of China of <u>rare-earth</u> mineral projects, as China accounts for 95% of the world's current supply. However, in early 2013 the government of Greenland said that it had no plans to impose such restrictions. [183]

The public sector, including publicly owned enterprises and the municipalities, plays a dominant role in Greenland's economy. About half the government revenues come from grants from the Danish government, an important supplement to the gross domestic product (GDP). Gross domestic product per capita is equivalent to that of the average economies of Europe.

Greenland suffered an economic contraction in the early 1990s. Since 1993, the economy has improved. The Greenland Home Rule Government (GHRG) has pursued a tight fiscal policy since the late 1980s, which has helped create surpluses in the public budget and low inflation. Since 1990, Greenland has registered a foreign-trade <u>deficit</u> following the closure of the last remaining lead and <u>zinc</u> mine that year. In 2017, new sources of <u>ruby</u> in Greenland have been discovered, promising to enhance the <u>gemstone</u> industry in Greenland and add a new export. [184]

# **Transport**

Air transport connects Greenland internally and with other <u>nations</u>. There is also scheduled boat traffic, but the long distances lead to long travel times and low frequency. There are virtually no roads between cities because the coast has many fjords that would require ferry service to connect a road network. The only exception is a gravel road of 4.8 km (3 mi) length between <u>Kangilinnguit</u> and the now abandoned former <u>cryolite</u> mining town of <u>Ivittuut</u>.[185] In addition, the lack of agriculture, forestry and similar countryside activities has meant that very few country roads have been built. Greenland has no passenger railways.

A one-lane dirt road designed primarily for <u>all-terrain vehicles</u> (secondarily for <u>bicycles</u> and hiking), is under construction between <u>Kangerlussuaq</u> and the town of <u>Sisimiut</u> (Holstensborg). As of June 2023, the road was scheduled for completion in 2024. A news report in <u>Sermitsiaq</u> declared the road itself to be completed already in September 2021, but maintenance work and mud problems have caused delays. There are plans to extend the road to a two-lane gravel road, but a date for its construction to start has not been announced. 189

There are a total of 13 registered civil airports and 47 helipads in Greenland; most of them are unpaved and located in rural areas. All civil aviation matters are handled by the <u>Danish Transport Authority</u>. Most airports have short runways and can only be served by special fairly small aircraft on fairly short flights. Intercontinental flights connect mainly to <u>Copenhagen</u> or <u>Reykjavík-Keflavík</u>. Travel between international destinations (except Iceland) and most cities, requires a plane change in Nuuk.

Nuuk Airport (GOH) is the hub and international gateway for international and domestic airline passenger transport, after having undergone a major expansion in 2024. Air Greenland is the flag carrier of Greenland. Additionally, Icelandair provides year-round services to Greenlandic airports. Seasonal and charter flights are also offered by other airlines. [190][191] Until 2024, Kangerlussuaq Airport (SFJ) was the main international gateway to Greenland, but is far from the vicinity of the larger metropolitan capital areas. [192][193] Ilulissat Airport (JAV) and Narsarsuaq Airport (UAK) are domestic airports that also serve limited



<u>Air Greenland</u> is the <u>flag carrier</u> of Greenland

international flights to  $\underline{\text{Iceland}}$  and are both being reconstructed and expanded to enable larger aircraft to serve the airport by 2026, the latter in a new location closer to  $\underline{\text{Qaqortoq.}}^{[194][195]}$ 

Sea <u>passenger</u> transport is served by several coastal ferries. <u>Arctic Umiaq Line</u> makes a single round trip per week, taking 80 hours each direction. [196]

<u>Cargo freight</u> by sea is handled by the shipping company <u>Royal Arctic Line</u> from, to and across Greenland. It provides trade and transport opportunities between Greenland, Europe, and North America.

# **Tourism**

Tourism increased significantly between 2015 and 2019, with the number of visitors increasing from 77,000 per year to 105,000. [197] One source estimated that in 2019 the revenue from this aspect of the economy was about 450 million kroner (US\$67 million). Like many aspects of the economy, this slowed dramatically in 2020 and into 2021, due to restrictions required as a result of the COVID-19 pandemic; [198] one source describes it as being the "biggest economic victim of the coronavirus" (the overall economy did not suffer too severely as of mid-2020, thanks to the fisheries "and a hefty subsidy from Copenhagen"). [199] Greenland's goal for returning tourism is to develop it "right" and to "build a more sustainable tourism for the long run". [200]

# **Mining**

Greenland is often portrayed as rich in <u>rare-earth minerals</u>, but experts argue this promise is largely illusory, as mining remains limited due to high costs, lack of infrastructure, and minimal local refining capacity. Although the island does contain resources, similar minerals are more abundant and accessible in other countries like the U.S., Brazil, Vietnam, and China, making Greenland an uncompetitive option. Despite a legal framework for mining, some ventures and over 30 years of Greenlandic efforts to attract American investment, success has been limited, and the belief in a quick mineral bonanza is increasingly seen as a geopolitical mirage. [201]

Mining of <u>ruby</u> deposits began in 2007. Other mineral prospects include iron, <u>uranium</u>, aluminium, nickel, <u>platinum</u>, <u>tungsten</u>, <u>titanium</u>, and <u>copper</u>. The state company Nunamineral has been launched on the Copenhagen Stock Exchange to raise more capital to increase the production of gold, started in 2007.

# **Demographics**

# **Population**

In 2021, Greenland had a population of 56,421. [202] That year, 18,800 people resided in the capital city Nuuk. Nearly all Greenlanders live along the fjords in the south-west of the main island, which has a relatively mild climate, especially considering the high latitude upon which it lies. [203] Whereas the majority of the population lives north of 64°N in colder coastal climates, Greenland's warmest climates such as the vegetated area around Narsarsuaq are sparsely populated.



Tunumiit Inuit couple from Kulusuk

The majority of the population is <u>Lutheran</u>. The historically important <u>Moravian Brothers</u> (*Herrnhuters*) were a

congregation of faith, in a Danish context based in <u>Christiansfeld</u> in <u>South Jutland</u>, and partially of German origin, but their name does not signify they were ethnic <u>Moravians</u> (<u>Czechs</u>).

In terms of ethnicity, the population is estimated to be of 89.5% <u>Greenlandic</u>, 7.5% <u>Danish</u>, 1.1% other <u>Nordic</u> and 1.9% other origins. The multi-ethnic population of <u>European-Inuit</u> represent people of <u>Danish</u>, <u>Norwegian</u> and to a lesser degree of <u>Faroese</u>, <u>Icelandic</u>, <u>Dutch</u> (<u>whalers</u>), <u>German</u> and American descent.

A 2015 wide genetic study of Greenlanders found modern-day Inuit in Greenland are direct descendants of the first Inuit pioneers of the <u>Thule culture</u> who arrived in the 13th century, with approximately 25% admixture of the European colonizers from the 16th century. Despite previous speculations, no evidence of Viking settlers predecessors has been found. [204]

Largest cities or towns in Greenland 2020 estimate <sup>[205]</sup>									
Rank	Name	Municipality	Pop.	Rank	Name	Municipality	Pop.		
1	Nuuk	Sermersooq	18,326	11	Nanortalik	Kujalleq	1,185		
2	Sisimiut	Qeqqata	5,582	12	Upernavik	Avannaata	1,092		
3	Ilulissat	Avannaata	4,670	13	Qasigiannguit	Qeqertalik	1,081		
4	Aasiaat	Qeqertalik	3,069	14	Qeqertarsuaq	Qeqertalik	839		
5	Qaqortoq	Kujalleq	3,050	15	Qaanaaq	Avannaata	646		
6	Maniitsoq	Qeqqata	2,534	16	Kangaatsiaq	Qeqertalik	520		
7	Tasiilaq	Sermersooq	2,063	17	Kangerlussuaq	Qeqqata	508		
8	Uummannaq	Avannaata	1,407	18	Kullorsuaq	Avannaata	453		
9	Narsaq	Kujalleq	1,346	19	Ittoqqortoormiit	Sermersooq	345		
10	Paamiut	Sermersooq	1,308	20	Kangaamiut	Qeqqata	293		

# Languages

Greenlandic (effectively West Greenlandic), spoken by nearly 50,000 people, became the sole official language in 2009. [206] The majority of the population speak both Danish and West Greenlandic Kalaallisut (the most populous Eskaleut language). They have been used in public affairs since the establishment of home rule in 1979. In practice, Danish is still widely used in administration, academia, and skilled trades and other professions. The orthography of Greenlandic, established in 1851, [207] was revised in 1973. The literacy rate was 100% in 2007. [179]



A bilingual parking sign in Nuuk in Danish and Greenlandic

About 12% of the population speak Danish as their primary language. These are primarily Danish immigrants, many of

whom speak Danish as their first and sometimes only language. Monolingual Danish speakers are concentrated in Nuuk and other larger towns. A debate about the roles of Greenlandic and Danish in the country's future is ongoing. While Greenlandic was dominant in all smaller settlements, most of the multi-ethnic Inuit ancestors spoke Danish as a second language. In larger towns, especially Nuuk, Danish was more important for social matters. English is growing in importance, and is now taught from the first school year. [208]

West Greenland has long been the most populous area of the island, and this has contributed to its variety of Greenlandic, Kalaallisut, becoming the de facto official language of Greenland. Around 3,000 people speak <u>East Greenlandic</u> (Tunumiisut) and nearly 1,000 around northern <u>Qaanaaq</u> speak <u>Inuktun</u>. North Greenlandic is closer to the Inuit languages of Canada than it is to other Greenlandic. [209] Each of these varieties is nearly unintelligible to the speakers of the others and some linguists consider Tunumiisut to be a separate language altogether. [210] A <u>UNESCO</u> report labelled the other varieties as <u>endangered</u>, and measures are now considered to protect the East Greenlandic dialect. [211]

# Religion

The nomadic <u>Inuit</u> were traditionally <u>shamanistic</u>, with a well-developed <u>religion</u> primarily concerned with appearing a vengeful and <u>fingerless sea goddess</u> called Sedna who controlled the success of the <u>seal</u> and whale hunts. [214]

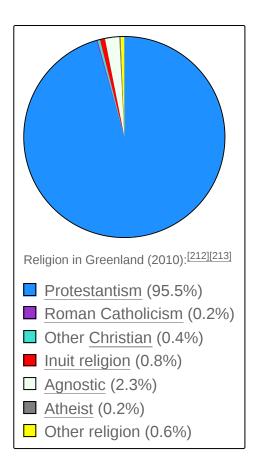
The first <u>Norse colonists</u> worshipped the <u>Norse gods</u>, but <u>Erik the Red</u>'s son <u>Leif</u> was converted to Christianity by <u>King Olaf Trygvesson</u> on a trip to Norway in 999 and sent missionaries back to Greenland. These swiftly established sixteen parishes, some monasteries, and a bishopric at Garðar.

Rediscovering these colonists and spreading ideas of the <u>Protestant Reformation</u> among them was one of the primary reasons for the <u>Danish recolonization</u> in the 18th century. Under the patronage of the <u>Royal Mission College</u> in Copenhagen, Norwegian and Danish <u>Lutherans</u> and German <u>Moravian missionaries</u> searched for the missing Norse settlements, but no Norse were found, and instead they began preaching to the Inuit. The principal figures in the <u>Christianization</u> of Greenland were <u>Hans</u> and <u>Poul Egede</u> and <u>Matthias Stach</u>. The <u>New Testament</u> was translated piecemeal from the time of the first settlement on Kangeq Island, but the first translation of the whole Bible was not completed until 1900. An improved translation using the modern orthography was completed in 2000. [215]



21st-century reproduction of Thjodhild's church, with <u>Eriksfjord</u> in the background, thought to be the <u>first church and chapel</u> in North America

The major religion is <u>Protestant Christianity</u>, represented mainly by the <u>Church of Denmark</u>, which is <u>Lutheran</u> in orientation. There are no official census data on religion in Greenland, but the <u>Bishop of Greenland Sofie Petersen</u> estimates that 85% of the Greenlandic population are members of her congregation. The Church of Denmark is the <u>established church</u> through the Constitution of Denmark.



A small <u>Roman Catholic</u> minority is pastorally served by the <u>Roman Catholic Diocese of Copenhagen</u>. There are still Christian missionaries on the island, but mainly from charismatic movements proselytising fellow Christians. [219]

### **Education**

Education is organized in a similar way to Denmark. Students have ten years of mandatory <u>primary school</u>. This is followed by secondary education, focused on either work training or preparation for university education. There is one institution of higher learning, the <u>University of Greenland</u> (Greenlandic: *Ilisimatusarfik*) in Nuuk. Many Greenlanders attend universities in Denmark or elsewhere.

The public school system in Greenland is, as in Denmark, under the jurisdiction of the municipalities. The legislature specifies the standards allowed for the content in schools, but the municipal governments decide how the schools under their responsibility are run. <u>Education</u> is free and <u>compulsory</u> for children aged seven to 16. The financial outlay devoted to education is 11.3% of GDP. Section 1 of the Government Ordinance on Public Schools (amended in 1997) requires Greenlandic as the language of instruction.

Education is governed by a regulation adopted in 1990 and amended in 1993 and 1994. Under this legislation, linguistic integration in primary and lower secondary schools became compulsory for all students. The aim is to place Greenlandic-speaking and Danish-speaking pupils in the same classes, whereas previously they were placed in separate classes according to their mother tongue. At the same time, the government guarantees that Danish speakers can learn Greenlandic. In this way, the Greenlandic government wants to give the same linguistic, cultural and social education to all students, both those of Greenlandic and Danish origin. A study, which was carried out during a three-year trial period, concluded that this bilingual had achieved positive results.

About 100 schools exist, in which both Greenlandic and Danish are used. Generally, Greenlandic is taught from kindergarten to the end of secondary school, but Danish is compulsory from the first cycle of primary school as a second language. As in Denmark with Danish, the school system provides for "Greenlandic 1" and "Greenlandic 2" courses. Language tests allow students to move from one level to the other. Based on the teachers' evaluation of their students, a third level of courses has been added: "Greenlandic 3". Secondary education in Greenland is generally vocational and technical. The system is governed by Regulation No. 16 of 28 October 1993 on Vocational and Technical Education, Scholarships and Career Guidance. Danish remains the main



The *Ilimmarfik* (University of Greenland) campus is in Nuuk.

language of instruction. The capital, Nuuk, has a (bilingual) teacher training college and a (bilingual) university. At the end of their studies, all students must pass a test in the Greenlandic language.

Higher education is offered in Greenland: university education, training of journalists, training of primary and lower secondary school teachers, training of social workers, training of social educators and training of nurses and nursing assistants. Greenlandic students can continue their education in Denmark, if they wish and have the financial means to do so. For admission to Danish educational institutions, Greenlandic applicants are placed on an equal footing with Danish applicants. <u>Scholarships</u> are granted to Greenlandic students who are admitted to Danish educational institutions. To be eligible for these scholarships, the applicant must be a <u>Danish citizen</u> and have had permanent residence in Greenland for at least five years. The total period of residence outside Greenland may not exceed three years.

# Social issues

The rate of <u>suicide</u> in <u>Greenland</u> is very high. According to a 2010 census, Greenland holds <u>the highest</u> suicide rate in the world. [220][221]

Another significant social issue faced by Greenland is a high rate of alcoholism. The rate of alcohol consumption in Greenland peaked in the 1980s, when it was twice as high as in Denmark; by 2010 it had fallen slightly below that of Denmark. Alcohol prices are far higher in Greenland than in Denmark, meaning that consumption has a large social impact. [223][224]

The prevalence of HIV/AIDS has been high in Greenland, reaching a peak in the 1990s when the number of AIDS-related deaths was also relatively high. Through a number of initiatives, the prevalence (along with the death rate, through efficient treatment) has fallen and is now low, about 0.13% in the 2010s, [225][226] below that of most other countries.

In recent decades, Greenland's rate of unemployment has generally been somewhat above that of Denmark; [227] in 2017, the rate was 6.8% in Greenland, [228] compared to 5.6% in Denmark. [229]

### Compulsory contraception of Inuit women

In the 1960s and 1970s, at a time when the population was increasing, 4,500 Greenland Inuit women and girls (roughly half of all fertile females) were fitted with <u>intrauterine devices</u> (IUDs) by Danish doctors. Sometimes girls (as young as 12) were taken directly from school to have these devices inserted, without

their parents' permission. The procedure was also carried out on some Inuit girls at boarding schools in Denmark. On 30 September 2022, the Danish Health Minister, Magnus Heunicke, announced a two-year investigation into the decisions leading to the practice and its implementation. Greenlandic doctors also carried out the same illegal procedures on several Inuit women after Greenland took control of its health care system in 1991.

# **LGBTQ** rights

<u>LGBTQ</u> rights in Greenland are some of the most extensive in the Americas and the world, relatively similar to those in Denmark proper in Europe. Transgender people in Greenland may change the gender designation on their official identity documents. A law passed in 2016 by decree allows legal gender changes based on self-determination. Since 2010, Greenland has had laws prohibiting hate speech against LGBTQ+ persons. Greenland's parliament passed a Law on Equal Treatment and Anti-Discrimination in May 2024, taking effect on 1 July 2024. The law prohibits all discrimination on the basis of "sexual orientation, gender identity, gender expression, [and] gender characteristics", among other characteristics. The law also creates an Equal Treatment Board to manage discrimination complaints and an Equality Council to promote non-discrimination. [234]

# **Culture**

Greenlandic culture is a blending of traditional Inuit (<u>Kalaallit</u>, <u>Tunumiit</u>, <u>Inughuit</u>) and Scandinavian culture. Inuit, or Kalaallit, culture has a strong artistic tradition, dating back thousands of years. The Kalaallit are known for an art form of figures called <u>tupilak</u> or a "spirit object". Traditional art-making practices thrive in the *Ammassalik*. Sperm whale ivory remains a valued medium for carving. [236]

### Fine arts

The Inuit have their own arts and <u>crafts</u> tradition; for example, they carve tupilaks, sculptures of figures of avenging monsters practised within shaman traditions. This Kalaallisut word means soul or spirit of a deceased person and describes an artistic figure, usually no more than 20 centimetres (8 in) tall, carved mainly from walrus ivory, with a variety of unusual shapes. This sculpture actually represents a mythical or spiritual being; usually, however, it has become a mere collector's item because of its grotesque appearance for Western visual habits. Modern artisans still use <u>indigenous</u> materials such as musk ox and sheep wool, seal fur, shells, soapstone, reindeer antlers or gemstones.

The <u>history</u> of Greenlandic painting began with Aron von Kangeq, who depicted the old Greenlandic sagas and myths in his drawings and watercolours in the mid-19th century. In the 20th century, landscape and animal painting developed, as well as <u>printmaking</u> and book illustrations with sometimes expressive colouring. It was mainly through their landscape paintings that Kiistat Lund and Buuti Pedersen became known abroad. Anne-Birthe Hove chose themes from Greenlandic social life. There is a museum of fine arts in Nuuk, the Nuuk Art Museum.

# Media

<u>Kalaallit Nunaata Radioa</u> (KNR) is the public broadcasting company of Greenland. It is an associate member of Eurovision and of the Nordvision network. Nearly one hundred people are directly employed by the company, which is one of the largest in the territory. The city of Nuuk has its own radio and television station. The television channel, <u>Nanoq Media</u>, was created on 1 August 2002. It is the largest local television station in Greenland, reaching more than 4,000 households as receiving members, which corresponds to about 75% of all households in the capital. [239]

Only two newspapers are published in Greenland, both of which are distributed nationally. The Greenlandic weekly *Sermitsiaq* is published every Friday, while the online version is updated several times a day. It is named after the mountain Sermitsiaq, located about 15 km (9.5 mi) northeast of Nuuk, and was distributed only in Nuuk until the 1980s. The bi-weekly *Atuagagdliutit/Grønlandsposten* (AG) is published every Tuesday and Thursday, in Greenlandic as *Atuagagdliutit* and in Danish as *Grønlandsposten*, with all articles published in both languages.

# Music

Greenland's musical heritage blends traditional Inuit forms with modern genres. The traditional <u>Inuit</u> drum dance and song, known as *qilaatersorneq*, is a cornerstone of Greenlandic culture. The *qilaat*, a frame drum made from <u>driftwood</u> or <u>walrus ribs</u> and covered with animal stomach or bladder, is played by striking the rim from underneath with a stick. These performances served various purposes, including entertainment, spiritual ceremonies, and conflict resolution through song duels, where participants would <u>satirize</u> each other to settle disputes. [241] In 2021, <u>UNESCO</u> recognized Inuit drum dancing and singing as part of the <u>Intangible</u> Cultural Heritage of Humanity. [242][243][240]

The arrival of <u>Christian missionaries</u> in the 18th century led to the suppression of drum dances, deemed <u>pagan</u>. They were replaced by <u>polyphonic</u> choral singing, influenced by German hymns from the <u>Herrnhuter Brüdergemeinde</u>. European whalers introduced instruments like the fiddle and accordion, leading to the development of *kalattuut*, or Greenlandic polka, characterized by fast-paced dances performed during communal gatherings. [245][246][247]

In contemporary times, Greenland has a vibrant music scene. The band <u>Sumé</u>, active in the 1970s, pioneered Greenlandic <u>rock music</u> with politically charged lyrics advocating for cultural independence. Nanook, formed in 2008, is a pop-



Nive Nielsen in 2016, Greenlandic singer and songwriter



Greenlandic filmmaker <u>Inuk Silis Høegh</u> with members of the Greenlandic band Sumé, 2015

 $\underline{\text{rock}}$  band known for singing in  $\underline{\text{Greenlandic}}$  and rejecting offers to switch to English, emphasizing cultural authenticity.  $\underline{^{[249][250]}}$  Other notable artists include  $\underline{\text{Chilly Friday}}$  (rock),  $\underline{\text{Siissisoq}}$  (rock),  $\underline{\text{Nuuk}}$ 

<u>Posse</u> (hip hop), and <u>Rasmus Lyberth</u> (folk), who performed in the Danish national final for the <u>1979</u> <u>Eurovision Song Contest</u> in Greenlandic. <u>Simon Lynge</u> stands out as the first Greenlandic solo artist to release an album across the United Kingdom. [251]

# Cuisine

The national dish of Greenland is <u>suaasat</u>, a soup made from <u>seal meat</u>. Meat from marine mammals, game, birds, and fish have a large role in the Greenlandic diet. Due to the glacial landscape, most ingredients come from the ocean. Spices are seldom used besides salt and pepper. Greenlandic coffee is a "flaming" dessert coffee (set alight before serving) made with coffee, whiskey, Kahlúa, Grand Marnier, and whipped cream. It is stronger than the familiar Irish dessert coffee.

# **Sport**

Sport is an important part of Greenlandic culture, as the population is generally quite active. Popular sports include association football, track and field, handball and skiing. Handball is often referred to as the national sport, and the men's national team was ranked among the top 20 in the world in 2001.

Greenland has excellent conditions for <u>skiing</u>, <u>fishing</u>, <u>snowboarding</u>, <u>ice climbing</u> and <u>rock climbing</u>, although <u>mountain climbing</u> and <u>hiking</u> are preferred by the general public. Although the environment is generally ill-suited for golf, there is a golf course in Nuuk.

# Religion

The majority of Greenlanders are members of the Lutheran Church. The <u>Church of Greenland</u> is a diocese of the Lutheran World Federation through the Evangelical Lutheran Church in Denmark. There are 17 parishes in the Church of Greenland. [257]

# See also

- Index of Greenland-related articles
- Outline of Greenland
- Åland (Finland)
- Svalbard (Norway)

# Notes

- a. Nuna asiilasooq has equal status as a  $\underline{\text{regional anthem}}$  but is generally used only in Greenland.  $\underline{^{[1]}}$
- b. Greenlandic has been the sole official language of Greenland since 2009. [2][4]
- c. As of 2000: 410,449 km<sup>2</sup> (158,475 sq mi) ice-free; 1,755,637 km<sup>2</sup> (677,855 sq mi) ice-covered.
  - Density: 0.14/km<sup>2</sup> (0.36/sq mi) for ice-free areas.
- d. Data in 2021 U.S. dollars

- e. <u>Greenlandic</u>: *Kalaallit Nunaat*, pronounced [kala:\frac{\psi}{2}:it n\frac{\psi}{2}nanish: Gr\tilde{g}nland, pronounced [\frac{\psi}{2}:it n\frac{\psi}{2}:it n\
- f. Danish: rigsdel, literally 'realm part'[13][14]
- g. <u>Afro-Eurasia</u>, the <u>Americas</u>, <u>Australia</u>, and <u>Antarctica</u> are all larger than Greenland, but they are generally considered <u>continents</u>, not islands. [18]
- h. <u>Stray Dog West</u> is considered the most northerly competitor claim, although it is generally sunken at high tide.

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## **External links**

- Government of Greenland (https://naalakkersuisut.gl/) official website (in Danish and Kalaallisut only)
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