

The background image is a wide-angle landscape photograph of a rugged coastline. On the left, a steep, dark brown cliff face is covered in patches of green moss and lichen. A small waterfall cascades down the cliff into a dark pool of water. In the foreground, there's a rocky shore with some low-lying green and purple vegetation. The sea is a deep blue-grey, with several white icebergs floating in the distance. The sky is overcast with soft, grey clouds. A large, semi-transparent white 'IX' is overlaid on the right side of the image.

Science & Education Logbook

MS FRIDTJOF NANSEN

Grand
Greenland

12th – 22nd June
2025





Science & education program

During this voyage, we ran **6 citizen science** projects in total: eBird, HappyWhale, Inaturalist, Nasa Cloud observer, SecchiDisk project & IceEco. You were able to enrich your mind with **13 lectures** on different topics from birds to rocks. You also took part in the **9 discovery sessions** we put on. Just as you had the chance to talk to our guest lecturer Tom Hale.

We had an amazing Cultural Ambassador with us onboard that talked about the different regions we sailed through from a more personal perspective.

A lot of you were very interested in the scientific aspect of our voyage and we thank you all for your enthusiasm. Here we provide a resume of our science activities.



Lectures & Discovery sessions

- 19 Lectures
- 9 Discovery sessions
- 6 Citizence science projects
- 8 Science boats
- 1 Guest Scientist project



Wildlife Watch

31 Species:
6 Mammals
25 Birds



NASA cloud observer

On this Grand Greenland / The Icy Giants of Disko Bay expedition we conducted 2 Cloud Observation sessions matched to satellite flyovers, submitting 2+ observations. We have received 1 Satellite Matching reports

Thank you to the 28 Cloud Observers who participated in the program, and remember you can continue to do this at home!

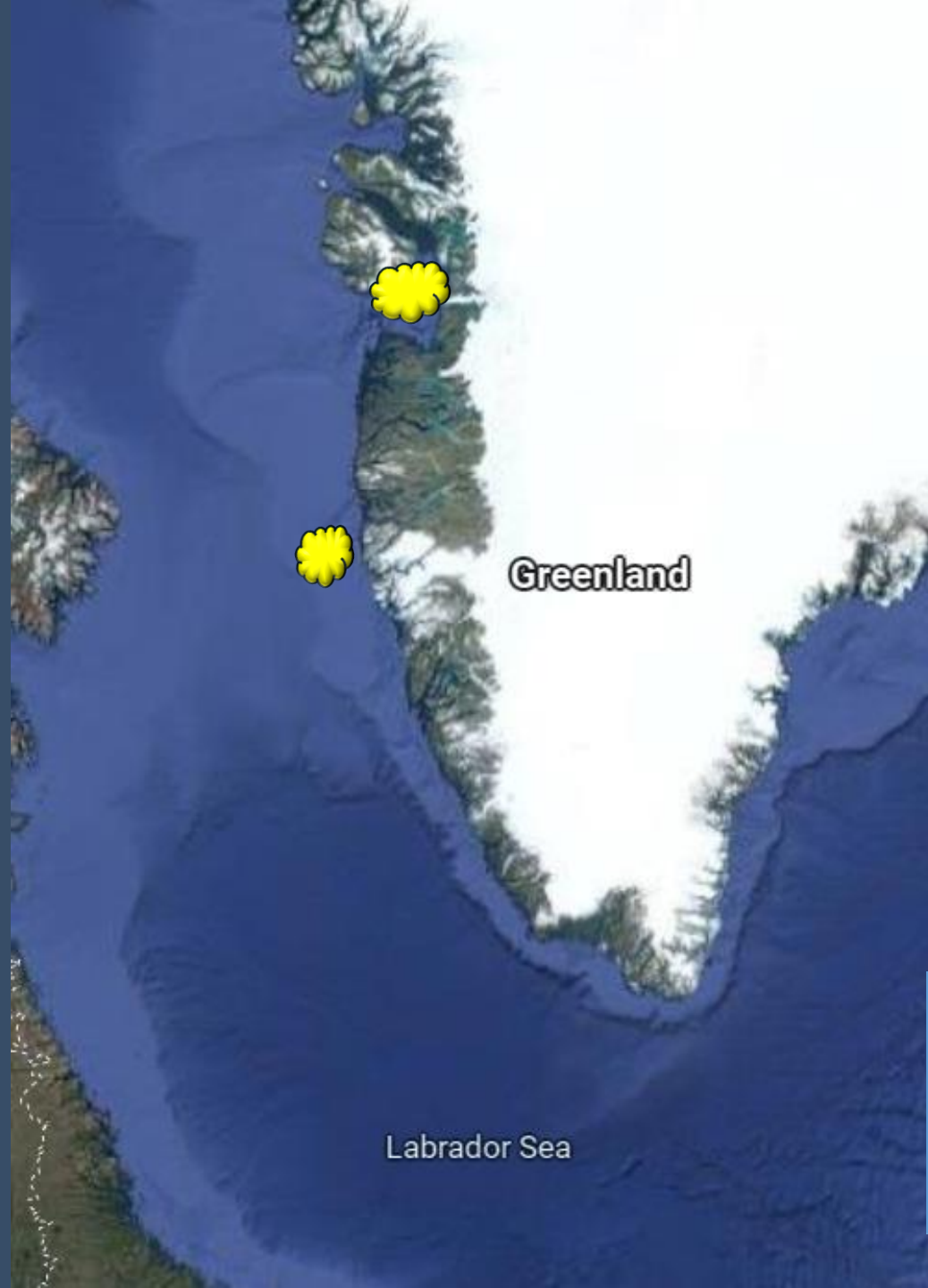
[View our data on the global map](#)


2 Observation Locations recorded.

Total Sessions: 2

Total Submissions: 2

Matches Received: 1













GLOBE Cloud Observations Paired with NASA Satellite Data

Total Satellite Comparisons: 69

Useful Resources: [How to Read My NASA GLOBE Clouds Satellite Comparison Table](#), [How to Compare My Cloud Observations with Satellite Data](#), [Cloud Cover](#), [Cloud Type](#), [Cloud Opacity](#), [Satellites](#)

Observation	GLOBE	NOAA-20 Satellite
Universal Date/Time	2025-06-14 16:31:00	2025-06-14 16:37
Latitude	61.14	60.7 to 61.5
Longitude	-45.51	-45.78 to -44.98
Total Cloud Cover	Broken (50-90%) 	Broken 67.45% 
High Clouds	<div> Cirrocumulus  Cirrostratus Cover: Broken (50-90%)  Opacity: Translucent</div>	
Mid Clouds	<div> Altostratus Cover: Broken (50-90%)  Opacity: Opaque</div>	Cover: Isolated 20.14%  Altitude: 2.47 (km) Phase: Ice/Water Mix 266.44 (K) Opacity: Transparent
Low Clouds		Cover: Scattered 47.31% Altitude: 1.01 (km) Phase: Ice/Water Mix 272.94 (K) Opacity: Transparent
GLOBE Cloud Photos and Corresponding NASA Satellite Images.	<div><div>GLOBE Photos</div><div><div>North</div><div>East</div><div>South</div><div>West</div><div>Up</div><div>Down</div></div></div>	<div><div>VIIRS NOAA-20</div><div>Worldview</div><div>Worldview Tutorial</div></div>

Click image to view --->

Note: Photos submitted though GLOBE need approval before being displayed, this may take a few days.

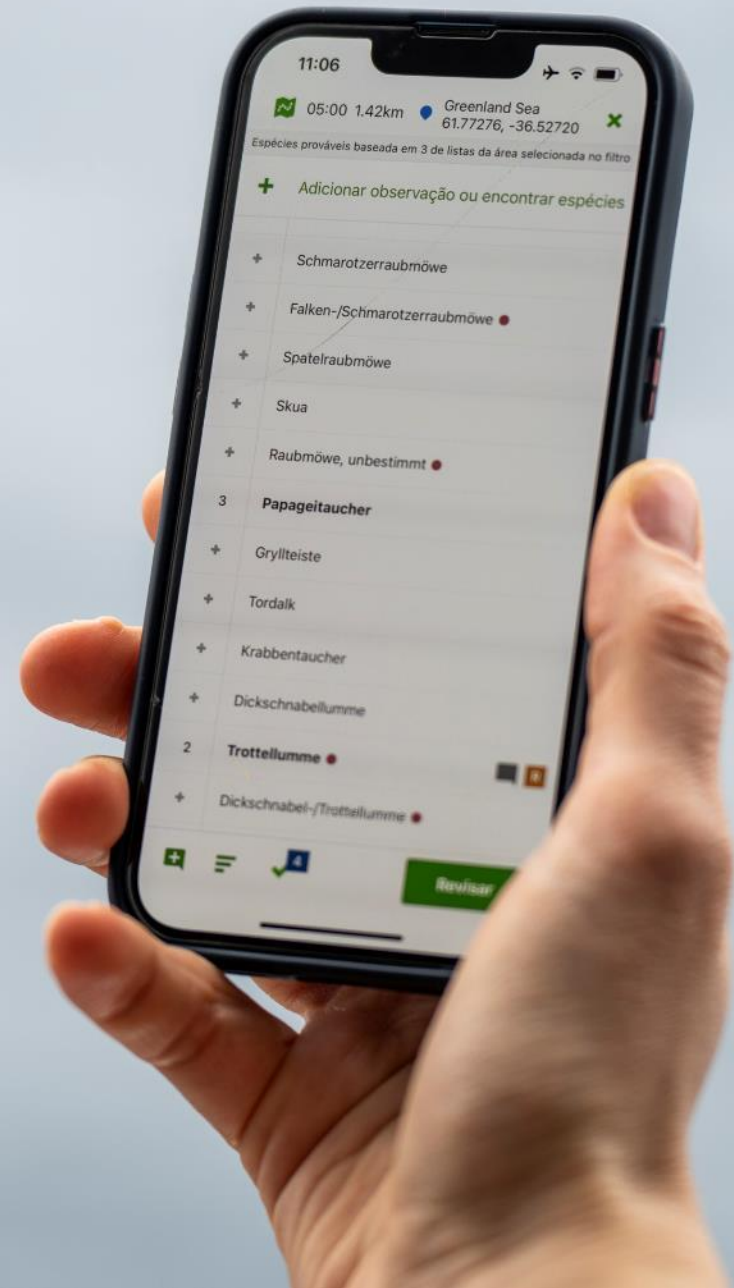
Please register your email address when using the app.

This will ensure you receive satellite matching reports.

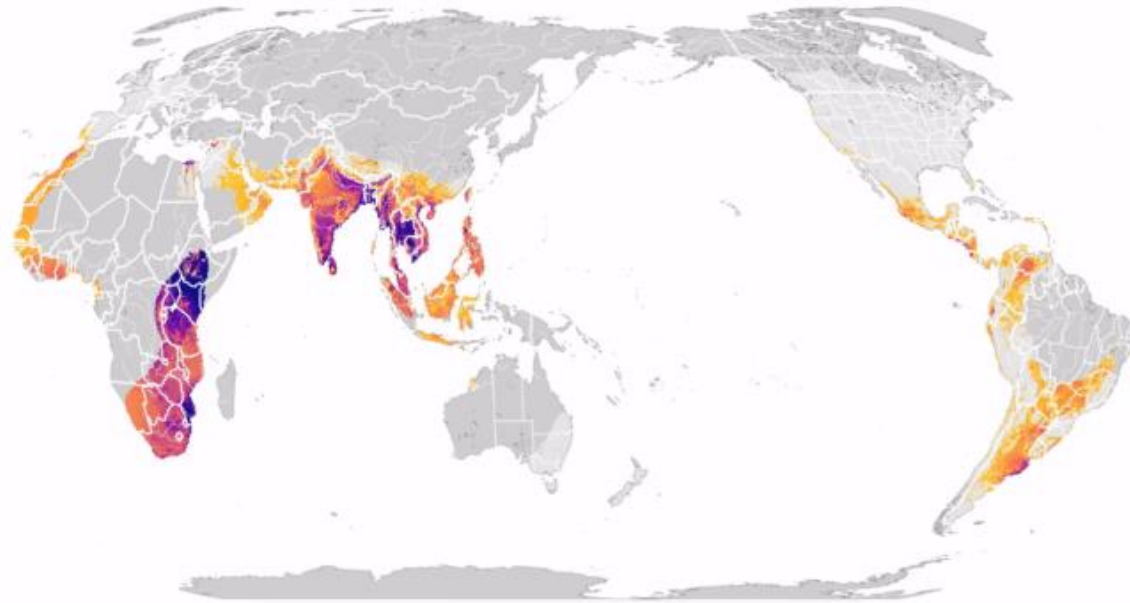


The eBird project

During this voyage, our ornithologists, did **17 surveys**. At least **14 species** were observed. The most frequently observed species were the Black-legged Kittiwake, Northern Fulmar, and Lesser Black-backed Gull. Find the trip report for the voyage and the checklists here:
<https://ebird.org/tripreport/384743>



eBird

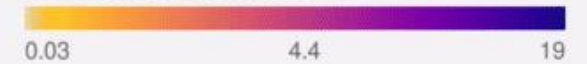


Barn Swallow *Hirundo rustica*

Abundance

Estimates of relative abundance for every week of the year animated to show movement patterns. Relative abundance is the estimated average count of individuals detected by an eBirder during a 1 hour, 1 kilometer traveling checklist at the optimal time of day for each species.

RELATIVE ABUNDANCE



WEEK OF THE YEAR January 4



Modeled area (0 abundance)
No prediction


eBird data from 2006-2020. Estimated for 2020.
Fink, D., T. Auer, A. Johnston, M. Strimas-Mackey, O. Robinson, S. Ligocki, W. Hochachka, L. Jaromczyk, C. Wood, I. Davies, M. Iliff, L. Seitz. 2021. eBird Status and Trends, Data Version: 2020; Released: 2021. Cornell Lab of Ornithology, Ithaca, New York. <https://doi.org/10.2173/ebirdst.2020>


Trip Report on eBird

FNGRE2508 - Grand Greenland - MS Fridtjof Nansen 12th-22nd June

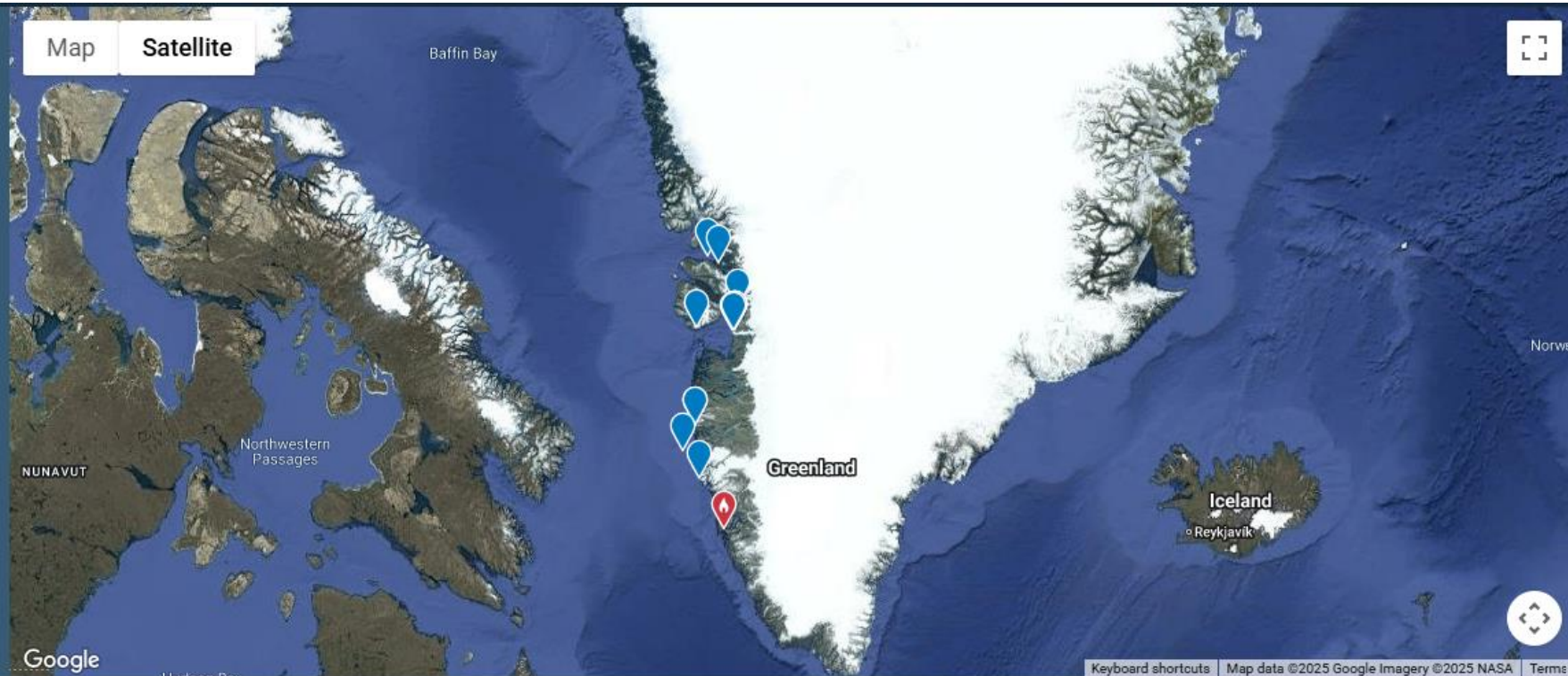
12 – 22 Jun 2025 (11 days) Public

 Greenland

 Dougie Wainwright, Dominic Barrington,
Myrna Hastings, Science Coordinator

 Share

 Edit ▾



Narrative

Owners and editors of a Trip Report may write a narrative.

[Add narrative](#)

DATA FOR: **Group (all people)** ▾

 **14**
Species Observed

 **17**
Checklists

Species Observed

Show all details

X	Mallard	1
3	Common Eider	1
X	Red-necked Phalarope	1
13	Black Guillemot	2
X	Razorbill	1
14	Dovekie	1
21	Black-legged Kittiwake	4
2	Glaucous Gull	3
18	Lesser Black-backed Gull	2
X	Eared Grebe	1
23	Northern Fulmar	5
X	Common Raven	1
X	Lapland Longspur	1
X	Snow Bunting	2



Event in progress



FNGRE2508 MS Fridtjof Nansen: Greenland Nuuk ...

Jun 12, 2025 - Jun 22, 2025

About

Members  10

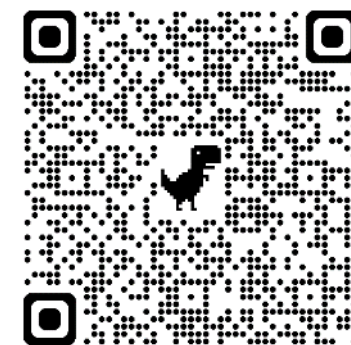
Shared observations from guests and Expedition Team onboard Fridtjof Nansen during the expedition cruise "Grand Greenland: The icy giants of Disko bay" (June 12 to June 22, 2025).

When you join, everything uploaded by you, your fellow travelers and expedition team

[Read More >](#)

 [Your Membership](#)

 [Project Journal](#)





iNaturalist

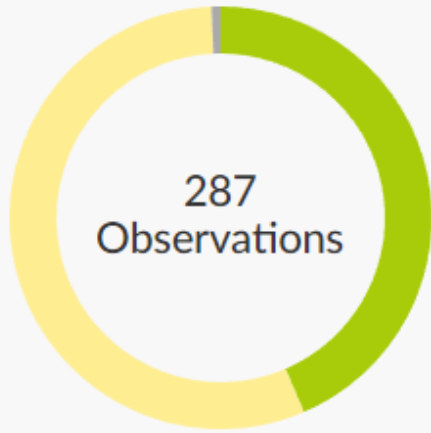
We submitted around 287 observations identifying 75 species of plants, marine mammals, birds and other organisms. The most observed species were the Black-legged kittiwake. It is still time to join our project once you are back home and have time to go through your photos. Helping us document the local biodiversity will help the scientists worldwide to monitor the changes of distribution and abundance of the most iconic Arctic species.

Join our project by searching its code name: **FNGRE2508** MS Fridtjof Nansen: Greenland Nuuk to Nuuk (12 June - 22 June, 2025)

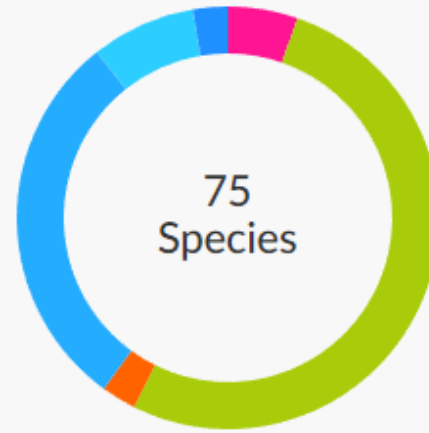
View the data submitted on our [iNaturalist project](#)



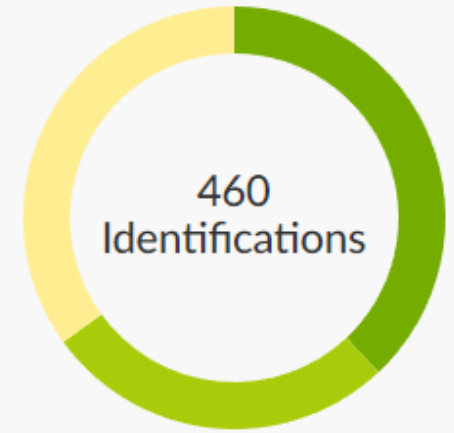
Stats



- Research Grade
- Needs ID
- Casual



- Unknown
- Protozoans
- Fungi
- Plants
- Chromista
- Mollusks
- Insects
- Arachnids
- Ray-Finned Fish
- Amphibians
- Reptiles
- Birds
- Mammals
- Other Animals



- Improving
- Supporting
- Leading
- Maverick



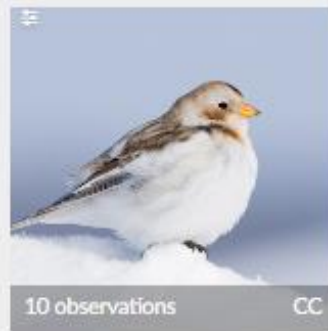
15 observations CC
Black-legged Kittiwake · Dreizehenmöwe
(*Rissa tridactyla*)



12 observations CC
Cinquefoils · Fingerkräuter
(Genus *Potentilla*)



11 observations CC
Entireleaf Mountain-Avens
(*Dryas integrifolia*)



10 observations CC
Snow Bunting · Schneeammer
(*Plectrophenax nivalis*)



10 observations CC
Prickly Saxifrage
(*Saxifraga tricuspidata*)



10 observations CC
Arctic Bell-Heather · Vierkantige Schuppenheide
(*Cassiope tetragona*)



9 observations CC
Moss Campion · Stängelloses Leimkraut
(*Silene acaulis*)



9 observations CC
Lapland Azalea · Lapland-Alpenrose
(*Rhododendron lapponicum*)



8 observations CC
Northern Fulmar · Eissturmvogel
(*Fulmarus glacialis*)



8 observations CC
Harp Seal · Sattelrobbe
(*Pagophilus groenlandicus*)



5 observations CC
Glaucous Gull · Eismöwe
(*Larus hyperboreus*)



5 observations CC
Black Guillemot · Gryllteiste
(*Cephus grylle*)



5 observations CC
Common Raven · Kolkkrabe
(*Corvus corax*)



5 observations CC
Bog Bilberry · Rauschbeere
(*Vaccinium uliginosum*)



5 observations CC
Lapland Longspur · Spornammer
(*Calcarius lapponicus*)



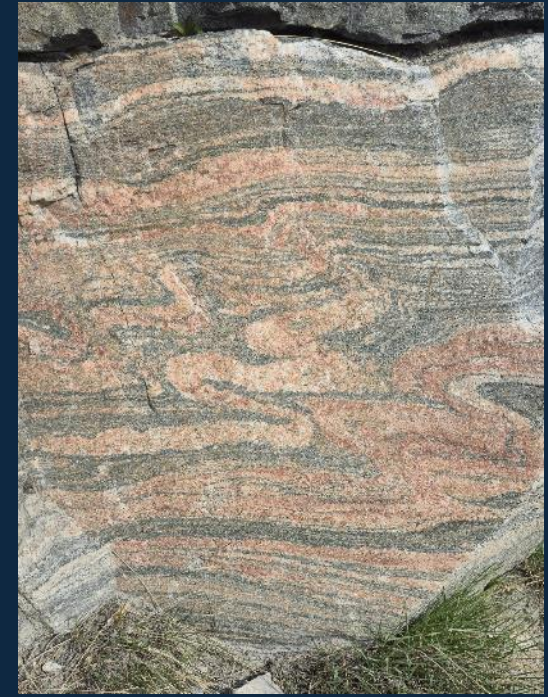
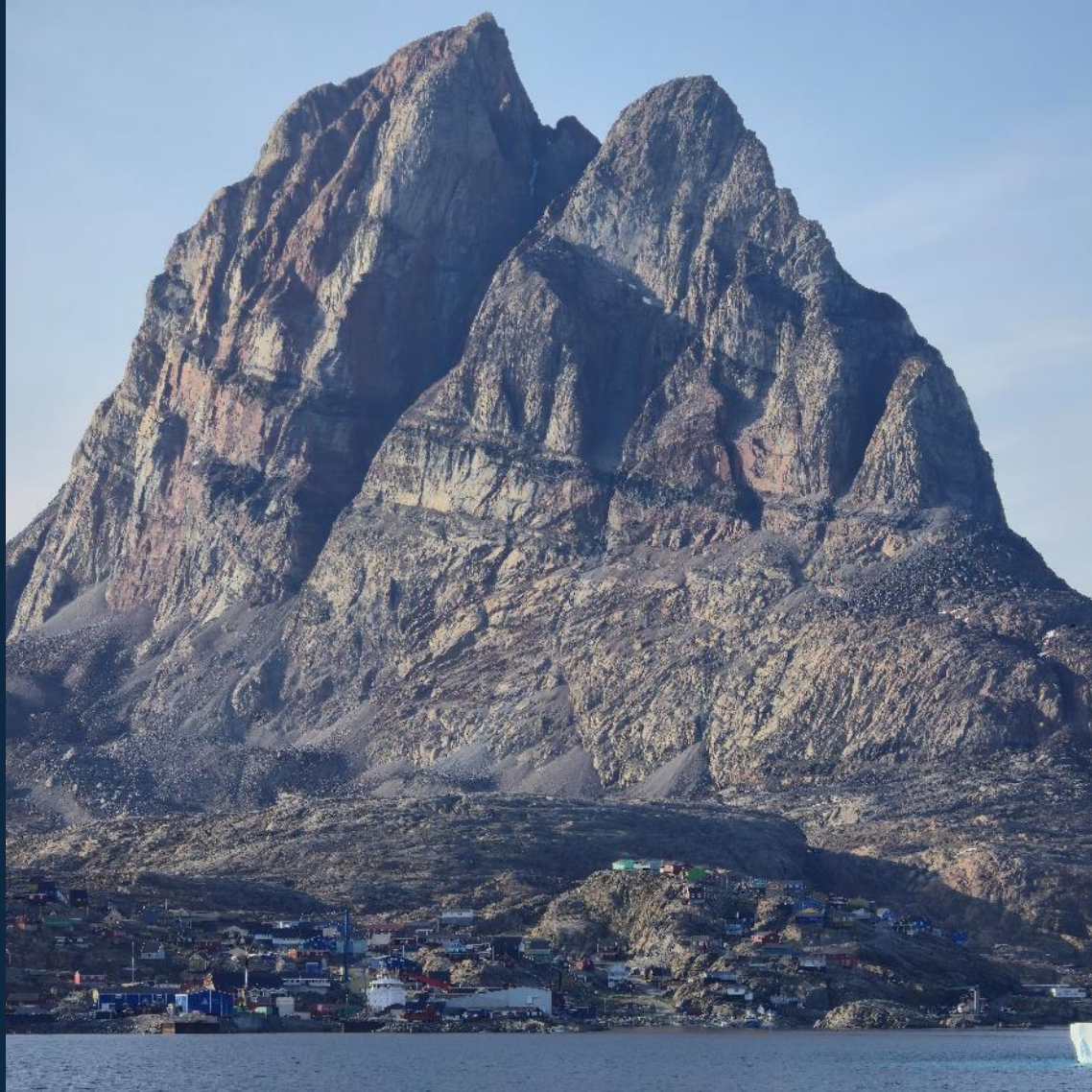
Greenland's Yellow Desert



Disko Bay Basalts



Uummannaq Gneiss



Mineral Resources of West Greenland Lecture





Science Boat

We had 8 science boat sessions during this trip in: Storøen, Kvanefjord, Camp Mario & Evigheidfjord. We sampled for different projects. With the secchi disk measurements to document the turbidity/clarity of the water and assess the abundance of phytoplankton. And for the IceEco project. This project aims to monitor the changes in abundance and distribution of phytoplankton in relation with glacial ice melting. We towed a plankton net of 20 um mesh size to gather water samples, deployed our CTD sensor to understand the oceanographical parameters of the water (temperature, salinity, chlorophyll a) and preserved meltwater samples to measure later on dissolved oxygen. The whole mission was a success, thank you for participating with us!



[View our data](#) submitted to the Secchi Disk Project

Wildlife List - Birds



Birds - Wildlife List

Scientific Name	English	Deutsch	Francais	Day 1	2	3	4	5	6	7	8	9	10
<i>Gavia stellata</i>	Red-throated Diver	Sterntaucher	Plongeon catmarin				X						
<i>Branta canadensis</i>	Canada Goose	Kanadagans	Bernache du Canada				X		X	X	X		
<i>Anas platyrhynchos</i>	Mallard	Stockente	Canard colvert			X	X				X		
<i>Somateria mollissima</i>	Common Eider	Eiderente	Eider à duvet		X	X		X	X	X			
<i>Somateria spectabilis</i>	King Eider	Prachteiderente	Eider à tête grise			X							
<i>Mergus serrator</i>	Red-breasted Merganser	Mittelsäger	Harle huppé				X						
<i>Phalaropus lobatus</i>	Red-necked Phalarope	Odinshühnchen	Phalarope à bec étroit			X					X		
<i>Stercorarius longicaudus</i>	Long-tailed Jaeger	Falkenraubmöwe	Labbe à longue queue			X							
<i>Fulmarus glacialis</i>	Northern Fulmar	Eissturmvogel	Fulmar boréal	X	X	X	X	X	X	X	X		X
<i>Phalacrocorax carbo</i>	Great Cormorant	Kormoran	Grand Cormoran						X				
<i>Rissa tridactyla</i>	Black-legged Kittiwake	Dreizehenmöwe	Mouette tridactyle			X	X	X	X	X	X		X

<i>Larus fuscus</i>	Lesser Black-backed Gull	Herringsmöwe	Goéland Brun	X	X								
<i>Larus hyperboreus</i>	Glaucous Gull	Eismöwe	Goéland bourgmestre			X	X	X	X	X	X	X	X
<i>Larus glaucoides</i>	Iceland Gull	Polarmöwe	Goéland arctique			X							
<i>Sterna paradisaea</i>	Arctic Tern	Küstenseeschwalbe	Sterne arctique			X	X		X				
<i>Uria lomvia</i>	Thick-billed Murre	Dickschnabellumme	Guillemot de Brünnich			X							X
<i>Alca torda</i>	Razorbill	Tordalk	Petit Pingouin										X
<i>Cepphus grylle</i>	Black Guillemot	Gryllteiste	Guillemot à miroir	X	X	X	X	X	X		X		X
<i>Fratercula arctica</i>	Atlantic Puffin	Papageitaucher	Macareux moine			X							
<i>Corvus corax</i>	Common Raven	Kolkrabe	Grand Corbeau			X	X		X		X	X	
<i>Oenanthe oenanthe</i>	Northern Wheatear	Steinschmätzer	Traquet motteux						X				
<i>Acanthis flammea</i>	Common Redpoll	Birkenzeisig	Sizerin flammé				X						
<i>Calcarius lapponicus</i>	Lapland Longspur	Spornammer	Plectrophane lapon			X					X	X	
<i>Plectrophenax nivalis</i>	Snow Bunting	Schneeammer	Plectrophane des neiges			X	X		X		X	X	

Wildlife List - Mammals



Marine Mammals: Cetaceans - Wildlife List													
Scientific Name	English	Deutsch	Francais	Day 1	2	3	4	5	6	7	8	9	10
<i>Megaptera novaeangliae</i>	Humpback whale	Buckelwal	Baleine à bosse	X			X			X		X	
<i>Balaenoptera borealis</i>	Sei whale	Seiwal	Rorqual de Rudolphi				X	X					
<i>Balaena mysticetus</i>	Bowhead Whale	Grönlandwal	Baleine boréale			X	X		X	X			

Marine Mammals: Pinnipeds & Others - Wildlife List													
Scientific Name	English	Deutsch	Francais	Day 1	2	3	4	5	6	7	8	9	10
<i>Pagophilus groenlandicus</i>	Harp/Greenland seal	Sattelrobbe	Phoque du Groenland	X	X	X				X		X	

Marine Mammals: Land Mammals - Wildlife List													
Scientific Name	English	Deutsch	Francais	Day 1	2	3	4	5	6	7	8	9	10
<i>Vulpes lagopus</i>	Arctic Fox	Polarfuch	Renard polaire						X				
<i>Lepus arcticus</i>	Arctic Hare	Polarhase	Lièvre arctique					X	X				



IX

Connect with your inner scientist