

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

2<sup>nd</sup> – 16<sup>th</sup> of  
July 2025







# Science & education program

During this voyage, we helped by collecting data for **7 citizen** science projects in total: eBird, HappyWhale, Orca Ocean Watchers, Inaturalist, Nasa Cloud observer, SecchiDisk project & Ice Eco Project. You were able to enrich your mind with **27 lectures** on different topics from birds to rocks. You also took part in the **20 discovery sessions** we put on.

We had some amazing Cultural Ambassadors 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

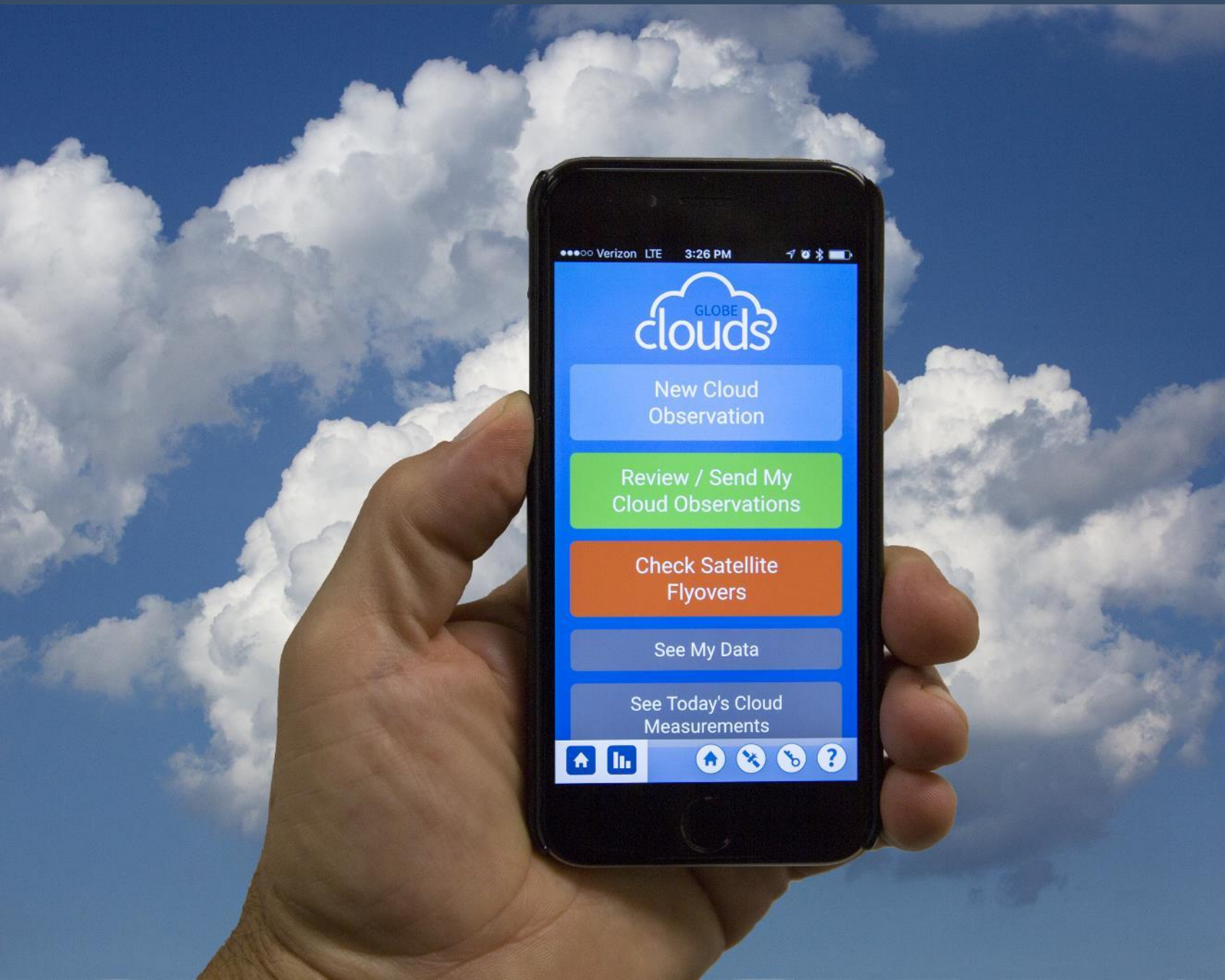
- 27** Lectures
- 20** Discovery sessions
- 7** Citizen science projects
- 8** Science boats
- 1** Guest ScientiST project





# Wildlife Watch

**43 Species:**  
9 Mammals  
34 Birds



# NASA Cloud Observer

On this Grand Greenland Cruise with MS Fridtjof Nansen, we conducted 3 Clouds Observations that we were able to send to NASA so they can try and match them with satellites.

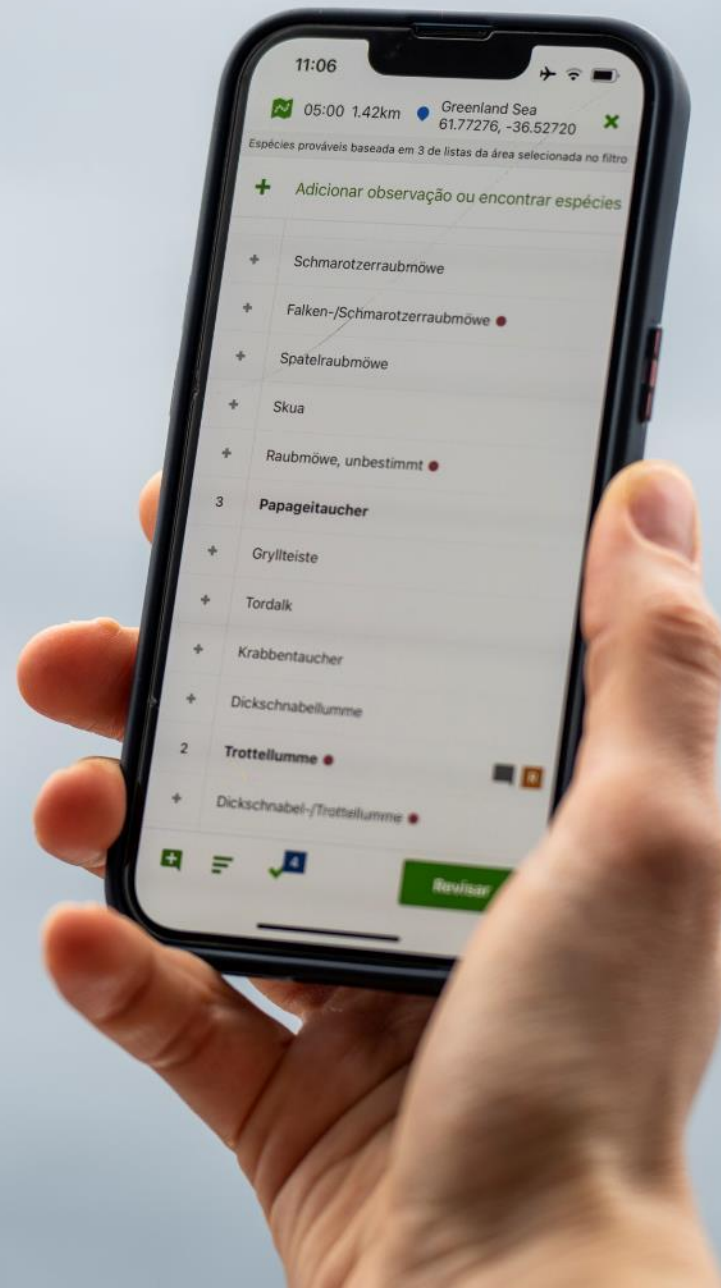
Thank you to the 42 Cloud Observers who participated in the program, and remember you can continue to do this at home!





## The eBird project

During this voyage, our ornithologists, did **83 surveys**. At least **31 species** were observed. The most frequently observed species were the Little Auk, Black-legged Kittiwake, Northern Fulmar and Glaucous Gull. Find the trip report for the voyage and the checklists here:  
<https://ebird.org/tripreport/390437>



# Trip Report on eBird

## FNGRE2510 Grand Greenland - Mythical Lands of the North

2 – 16 Jul 2025 (15 days) [Link-only](#)

Greenland

Science Coordinator, Ingvild Riska, Simon Delany,  
Marcus Bergström

[Share](#) [Edit](#)



**Narrative**  
Owners and editors of a Trip Report may write a narrative.  
[Add narrative](#)

DATA FOR: **Group (all people)**

**31**  
Species Observed  
+5 other taxa



















**83**  
Checklists



























**13**  
Species with Photos



## Species Observed

[Show all details](#)

8	<a href="#">Snow Goose</a>	▶  1  2
41	<a href="#">Mallard</a>	▶  4
246	<a href="#">Common Eider</a>	▶  10
18	<a href="#">Long-tailed Duck</a>	▶  3
12	<a href="#">Red-breasted Merganser</a>	▶  5
21	<a href="#">Red-necked Phalarope</a>	▶  2  4
4	<a href="#">Purple Sandpiper</a>	▶  1
69	<a href="#">Long-tailed Jaeger</a>	▶  5  8
11	<a href="#">Parasitic Jaeger</a>	▶  8
3	<a href="#">Pomarine Jaeger</a>	▶  3  1
2	<a href="#">Atlantic Puffin</a>	▶  1
104	<a href="#">Black Guillemot</a>	▶  25
18,772	<a href="#">Dovekie</a>	▶  5  28

284	<a href="#">Thick-billed Murre</a>	▶  32
1004	<a href="#">Black-legged Kittiwake</a>	▶  3  55
4	<a href="#">Ivory Gull</a>	▶  3  2
2	<a href="#">Sabine's Gull</a>	▶  2  1
102	<a href="#">Great Black-backed Gull</a>	▶  11
274	<a href="#">Glaucous Gull</a>	▶  2  37
76	<a href="#">Lesser Black-backed Gull</a>	▶  11
234	<a href="#">Iceland Gull</a>	▶  2  13
8	<a href="#">Arctic Tern</a>	▶  4
20	<a href="#">Red-throated Loon</a>	▶  1  8
681	<a href="#">Northern Fulmar</a>	▶  58
15	<a href="#">Great Cormorant</a>	▶  1  4
2	<a href="#">White-tailed Eagle</a>	▶  2
64	<a href="#">Common Raven</a>	▶  17
14	<a href="#">Northern Wheatear</a>	▶  5
25	<a href="#">Redpoll</a>	▶  6
5	<a href="#">Lapland Longspur</a>	▶  3
76	<a href="#">Snow Bunting</a>	▶  1  15

eBird



Event in progress



## FNGRE2510 MS Nansen: Grand Greenland – Myth...

Jul 2, 2025 - Jul 16, 2025

### About

Leave

47

Shared observations from guests and Expedition Team onboard MS Fridtjof Nansen during the expedition cruise "Grand Greenland – Mythical Lands of the North" (2 July - 16 July, 2025)

[Read More >](#)

[⚙ Your Membership](#)

[Project Members Only](#)

[📅 Project Journal](#)





# iNaturalist

We submitted around 1780 observations which broke the old HX record! We identified 233 species of plants, marine mammals, birds and other organisms. The most observed species were the Northern Fulmar followed by the Little Auk. 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 scientists worldwide to monitor the changes of distribution and abundance of the species we have observed.

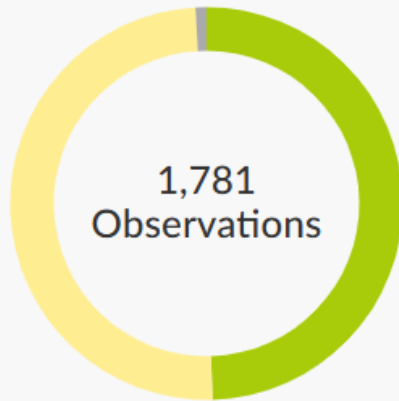
Join our project by searching its code name: FNGRE2510 – Grand Greenland – Mythical Lands of the North

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

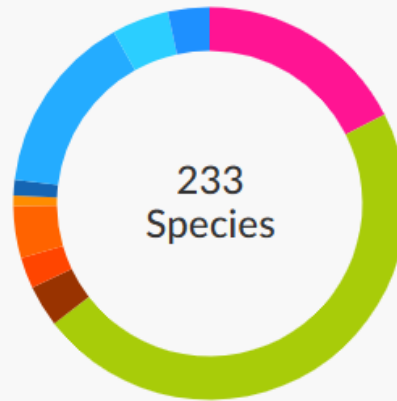




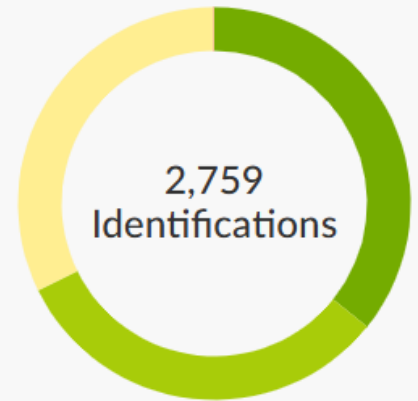
## Stats



- Research Grade
- Needs ID
- Casual



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



- Improving
- Supporting
- Leading
- Maverick



71 observations

Northern Fulmar · Havhest  
· Eissturmvogel  
*Fulmarus glacialis*



60 observations

Dovekie · Alkekonge ·  
Krabbentaucher  
*Alle alle*



59 observations

Black-legged Kittiwake ·  
Krykkje · Dreizehenmöwe  
*Rissa tridactyla*



59 observations

Thick-billed Murre ·  
Polarlomvi ·  
Dickschnabellumme  
*Uria lomvia*



44 observations

Alpine Mouse-Ear ·  
Fjellarve · Alpen-Hornkraut  
*Cerastium alpinum*



42 observations

Scheuchzer's Cotton-Grass  
· Snømyrull · Scheuchzers  
Wollgras  
*Eriophorum scheuchzeri*



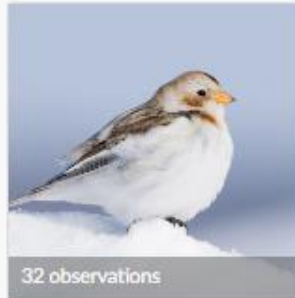
34 observations

Glaucous Gull · Polarmåke ·  
Eismöwe  
*Larus hyperboreus*



32 observations

Arctic Willow · Tundravier ·  
Arktische Weide  
*Salix arctica*



32 observations

Snow Bunting · Snøspurv ·  
Schneeammer  
*Plectrophenax nivalis*



31 observations

Prickly Saxifrage  
*Saxifraga tricuspidata*



28 observations

Alpine Bistort · Harerug ·  
Knöllchen-Knöterich  
*Bistorta vivipara*



27 observations

Alpine Foxtail ·  
Polarreverumpe  
*Alopecurus magellanicus*



23 observations

Moss Campion · Fjellsmelle  
· Stängelloses Leimkraut  
*Silene acaulis*



23 observations

Dwarf Fireweed ·  
Polargeitrams · Arktisches  
Weidenröschen  
*Chamaenerion latifolium*



22 observations

Entireleaf Mountain-Avens  
*Dryas integrifolia*





# Guest Scientist Report

## Disaster Risk Reduction / Response in an Arctic Context



### **Formal Research conducted on ship:**

- 16 individual interviews (recorded after consent form was signed) with members of the crew, staff, expedition team, guests
- Daily fieldnotes with photos

### **Informal Research conducted on ship:**

Observation of safety session

Observation of crew drill (first one only)

Observations from bridge while navigating through icebergs/foggy conditions

Observations of landings and safety procedures on land

Informal discussions with guests

Informal discussions with crew and staff

### **MS Fridtjof Nansen Guest Scientist Overview**

West Coast of Greenland, July 2-16 2025

Dina BRODE-ROGER, PhD





START SURVEY



Home



Surveys



Species



About



Settings

# ORCA Ocean Watchers

## Survey

- 30 Surveys Completed
- 33.7 Hours
- 566.4 Nautical Miles

## Sightings

- 2 x *Balenoptera acutorostrata*
- 3 x *Megaptera novelangliae*
- 2 x *Balaena mysticetus*
  
- 90 x *Pagophilus groenlandicus*
- 2 x *Cystophora cristata*
- 2 x *Erignathus barbatus*





# Science Boat

We had 8 science boat sessions during this trip in: Uummannaq, Equip Sermia, Ataa, Qeqertasuaq & Itileq. 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 Ice Eco project. This project aims to monitor the changes in abundance and distribution of phytoplankton in Arctic waters in relation with glacier ice melting. We towed a plankton net of 20 um mesh size to gather water samples, 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





# Plankton samples

# Underwater drone



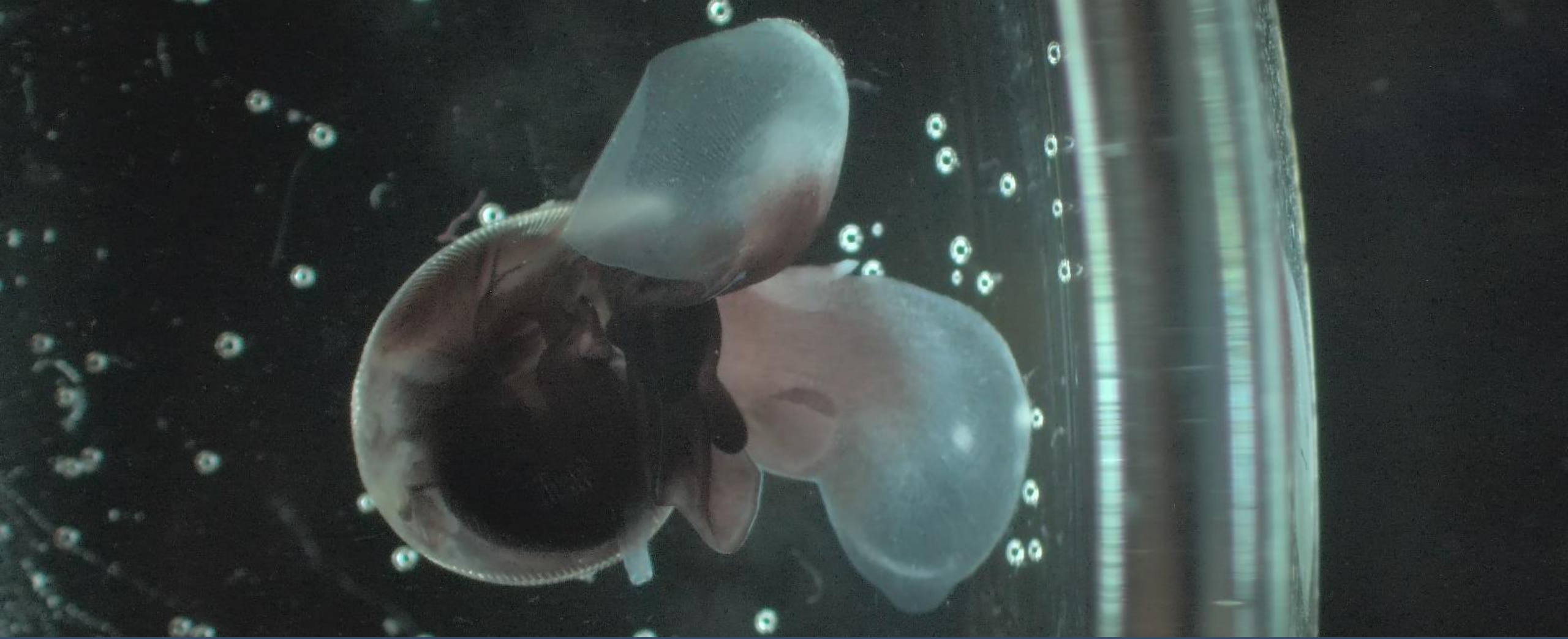
View the highlights from our underwater  
drone footage [on YouTube](#). HX Underwater  
Drone Footage







## Zooplankton: Sea Angel



## Zooplankton: Thecosomata



# Wildlife List - Birds



# Birds - Wildlife List

Scientific Name	English	Deutsch	Francais	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Gavia stellata	Red-throated Diver	Sterntaucher	Plongeon catmarin						X					X	X	X	X
Branta canadensis	Canada Goose	Kanadagans	Bernache du Canada		X		X										
Anser caerulescens	Snow Goose	Schneegans	Oie des neiges						X	X							
Anas platyrhynchos	Mallard	Stockente	Canard colvert	X	X											X	
Somateria mollissima	Common Eider	Eiderente	Eider à duvet		X	X			X	X			X		X	X	X
Clangula hyemalis	Long-tailed Duck	Eisente	Haralde kakawi			X									X		
	Red-breasted												X	X	X	X	
Mergus serrator	Merganser	Mittelsäger	Harle huppé														
	Red-necked		Phalarope à bec													X	
Phalaropus lobatus	Phalarope	Odinshühnchen	étroit			X	X										
Calidris maritima	Purple Sandpiper	Meerstrandläufer	Bécasseau violet	X													
Stercorarius parasiticus	Arctic Skua	Schmarotzerraubmöwe	Labbe parasite		X	X	X			X	X	X					
Stercorarius pomarinus	Pomarine Jaeger	Spatelraubmöwe	Labbe pomarin											X			
			Labbe à longue														
Stercorarius longicaudus	Long-tailed Jaeger	Falkenraubmöwe	queue					X		X	X						
Fulmarus glacialis	Northern Fulmar	Eissturmvogel	Fulmar boréal		X	X	X	X	X	X	X	X	X	X	X	X	X
Phalacrocorax carbo	Great Cormorant	Kormoran	Grand Cormoran												X		
			Guillemot de														
Uria lomvia	Thick-billed Murre	Dickschnabellumme	Brünnich		X	X	X	X	X	X	X	X				X	
Alca torda	Razorbill	Tordalk	Petit Pingouin			X											
Cepphus grylle	Black Guillemot	Gryllteiste	Guillemot à miroir		X	X	X	X	X	X	X	X	X		X	X	X
Fratercula arctica	Atlantic Puffin	Papageitaucher	Macareux moine														X
Alle alle	Little Auk / Dovekie	Krabbentaucher	Mergule nain					X	X	X	X	X					



# Birds - Wildlife List

Scientific Name	English	Deutsch	Francais	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Rissa tridactyla	Black-legged Kittiwake	Dreizehenmöwe	Mouette tridactyle		X	X	X	X	X	X	X	X	X	X	X	X	X
Larus fuscus	Lesser Black-backed Gull	Herringsmöwe	Goéland Brun	X	X	X											X
Larus marinus	Great Black-backed Gull	Mantelmöwe	Goéland marin	X	X										X	X	X
Larus argentatus	Herring Gull	Silbermöwe	Goéland argenté		X												
Larus hyperboreus	Glaucous Gull	Eismöwe	Goéland bourgmestre	X	X		X		X	X	X	X	X	X	X	X	X
Larus glaucoides	Iceland Gull	Polarmöwe	Goéland arctique	X	X		X						X			X	X
Xema sabini	Sabine's Gull	Schwalbenmöwe	Mouette de Sabine								X						
Pagophila eburnea	Ivory Gull	Elfenbeinmöwe	Mouette blanche								X						
Sterna paradisaea	Arctic Tern	Küstenseeschwalbe	Sterne arctique							X	X						
Corvus corax	Common Raven	Kolkrabe	Grand Corbeau	X	X		X			X			X	X		X	X
Oenanthe oenanthe	Northern Wheatear	Steinschmätzer	Traquet motteux				X							X			
Acanthis flammea	Common Redpoll	Birkenzeisig	Sizerin flammé				X							X		X	
Calcarius lapponicus	Lapland Longspur	Spornammer	Plectrophane lapon				X							X			
Plectrophenax nivalis	Snow Bunting	Schneeammer	Plectrophane des neiges	X	X		X							X	X	X	X
Haliaeetus albicilla	White-tailed Eagle	Seeadler	Pygargue à queue blanche				X										

# Wildlife List - Marine Mammals





[illegible][illegible][illegible]