

THE  
IVY  
LEAGUE

A large, high-quality photograph of two humpback whales swimming in deep blue ocean water. The whale on the left is slightly behind and to the right of the one on the right. Both whales are shown from a side-on perspective, facing towards the right of the frame. Their dark grey skin is covered in white pectoral fins and white spots. The background is a deep, textured blue.

# Science & Education Report

# MS Fridtjof Nansen

18 – 28 Dec 2024

Highlights of Antarctica



© Timo Heinz / HX

# Science & education program

During this voyage, we ran **6 citizen** science projects in total: eBird, HappyWhale, Inaturalist, Nasa Cloud observer, SecchiDisk project & Fjord Phyto project. You were able to enrich your mind with **26 lectures** on different topics from birds to rocks. You also took part in the **15 discovery sessions** we put on.

We had guest scientist on from two different projects that were collecting data whilst you were onboard. The Freidlander lab was collecting biopties and drone fotage. Where the Ocean watchers were collecting data on sightings made during the voyage.

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

- 26 Lectures**
- 15 Discovery sessions**
- 6 Citizen science projects**
- 6 Double science boats**
- 2 Guest Scientist projects**



# Wildlife Watch

**54 Species:**  
10 Mammals  
28 Birds



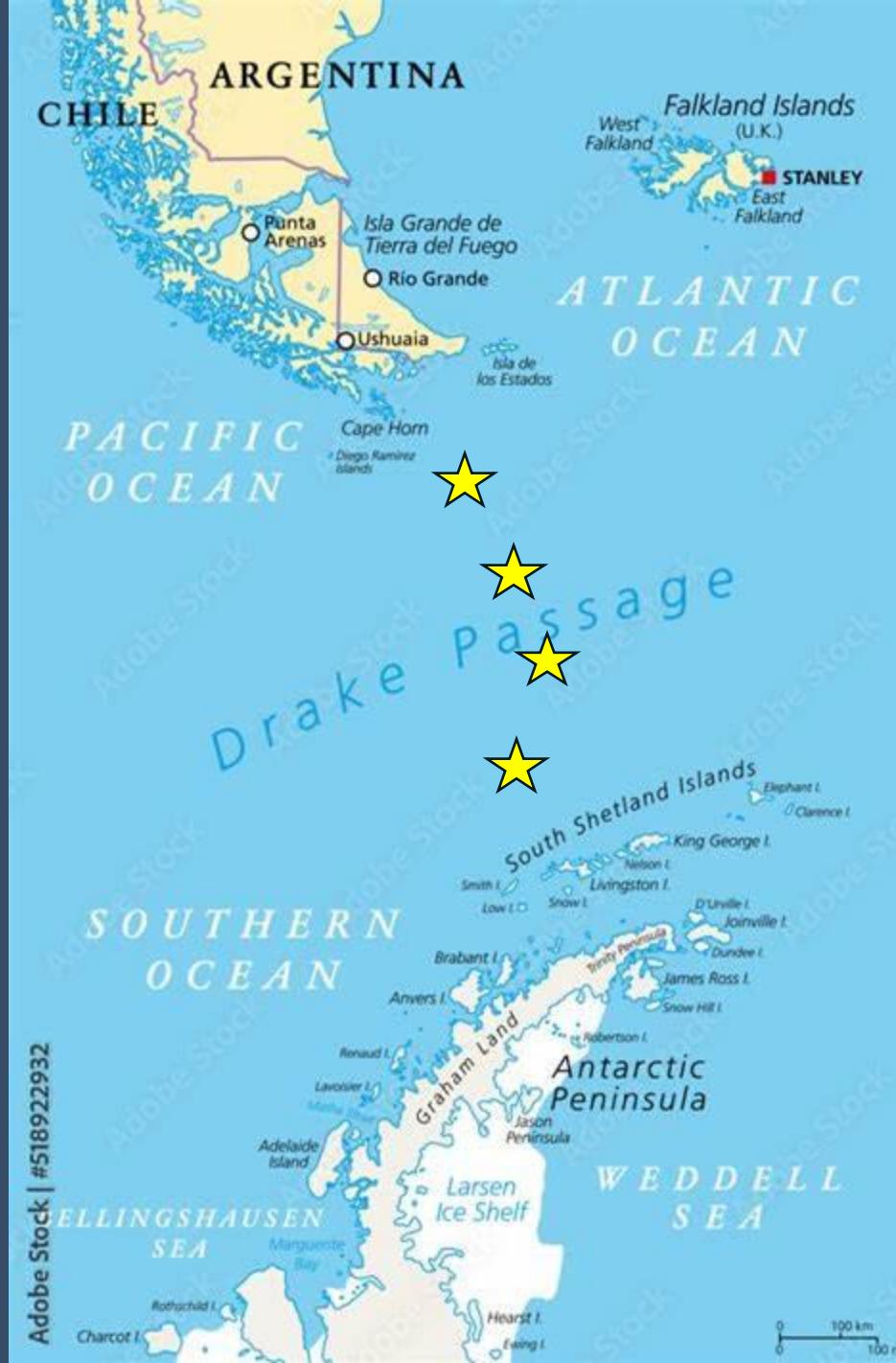
# NASA cloud observer

On this expedition for the Highlights of Antarctica, we were able to conduct four cloud observation as we headed South and North on the infamous Drake Passage.

Thank you to the 38 Cloud Observers who participated in the program, and remember you can continue to do this at home!

We have received three matching reports to satellite flyovers. Do not forget to register your email with the program to receive the reports for your observations post voyage.

# NASA cloud observer



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

4 Observation Locations recorded.

Total Sessions: 4

Total Submissions: 8

Total Observers: 38

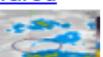


# NASA cloud observer

On this voyage we were able to conduct four GLOBE Observer observations. We conducted these on the Drake Passage, providing important data from the ocean atmosphere interface and how it impacts the southern hemisphere weather patterns.

38 people were involved in this citizen science project and should feel confident to continue contributing when they go home. We would like to encourage you to continue supporting this project.



Observation	GLOBE	<a href="#">GOES-16 Satellite</a>
Universal Date/Time	2024-12-19 18:18:00	2024-12-19 18:07
Latitude	-58.35	-58.67 to -58.03
Longitude	-65.84	-66.16 to -65.52
Total Cloud Cover	Overcast (>90%) 	Overcast 100.00% 
High Clouds	 Cirrus Cover: Few (<10%)  Opacity: Translucent	
Mid Clouds	 Altocumulus Cover: Scattered (25-50%)  Opacity: Translucent	Cover: Isolated 17.02%  Altitude: 3.27 (km) Phase: Water 255.36 (K) Opacity: Translucent
Low Clouds	  Cumulus Stratocumulus Cover: Broken (50-90%)  Opacity: Opaque	Cover: Broken 82.98%  Altitude: 1.24 (km) Phase: Water 268.91 (K) Opacity: Translucent
<b>GLOBE Cloud Photos and Corresponding NASA Satellite Images.</b> <b>Click image to view --&gt;</b> <i>Note: Photos submitted through GLOBE need approval before being displayed, this may take a few days.</i>	<b>GLOBE Photos</b> North  East  South   West  Up  Down 	<b>GOES-16</b> <a href="#">Visible</a>  <a href="#">Infrared</a>  <a href="#">GEO Tutorial</a>

# NASA cloud observer

We received three matching reports were our observations were timed to match a satellite flyover.

We have matched observations with the GOES16 and Terra 4 Satellites. We are still waiting on matching reports for the observations taken on our North bound drake passge transit.





## The eBird project

During this voyage, our ornithologists, did **67 surveys**. At least **45 species** were observed. The most frequently observed species were the Black-legged Kittiwake, Northern Fulmar, Glaucous Gull and Snow Goose. Find the trip report for the voyage and the checklists here:

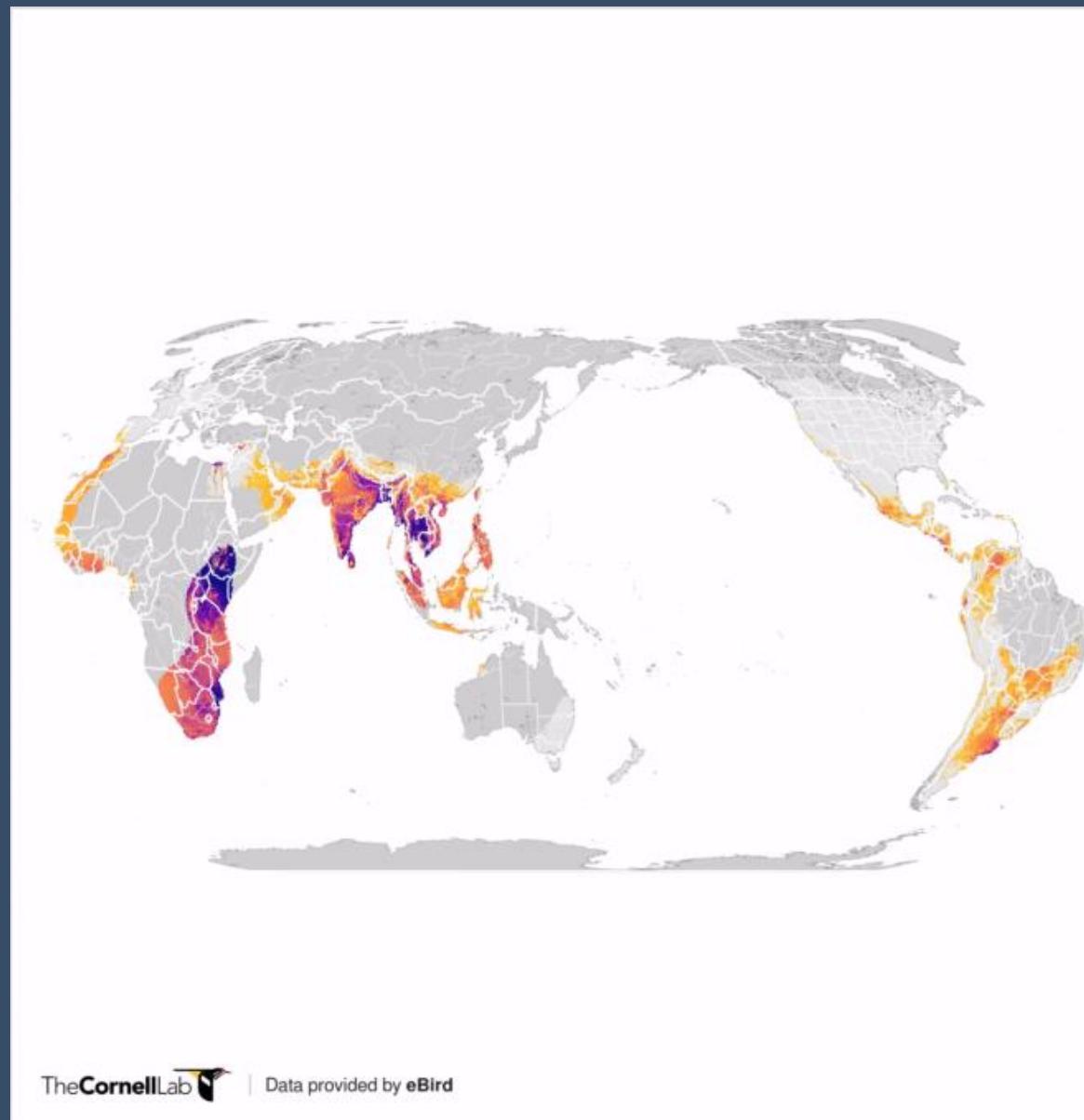
<https://ebird.org/tripreport/265530>





The Cornell Lab

| Data provided by 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. Illiff, 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

eBird

## FNANT2411D - MS Fridtjof Nansen - Highlights of Antarctica - 18th to 28th of December 2024

18 – 28 Dec 2024 (11 days) Public

📍 Antarctica | Argentina | Chile | High Seas  
Subregions

👤 Ingvild Riska, Liam Northfield

Share Edit

A HX - Hurtigruten Expeditions voyage to the Antarctic Peninsula on board MS Fridtjof Nansen.

[Edit narrative](#)



DATA FOR: Group (all people) ▾

36

Species Observed  
+7 other taxa

45

Checklists



## Species Observed

Show all details

3	Upland Goose	<i>Chloephaga picta</i>	▶  1
1	Flying Steamer-Duck	<i>Tachyeres patachonicus</i>	▶  1
3	Rock Pigeon	<i>Columba livia</i> *	▶  1
5	Snowy Sheathbill	<i>Chionis albus</i>	▶  3
18	Chilean Skua	<i>Stercorarius chilensis</i>	▶  4
6	Brown Skua	<i>Stercorarius antarcticus</i>	▶  2
9	South Polar Skua	<i>Stercorarius maccormicki</i>	▶  7
27	Dolphin Gull	<i>Leucophaeus scoresbii</i>	▶  3
337	Kelp Gull	<i>Larus dominicanus</i>	▶  11
31	South American Tern	<i>Sterna hirundinacea</i>	▶  5
8	Antarctic Tern	<i>Sterna vittata</i>	▶  5
6	Adelie Penguin	<i>Pygoscelis adeliae</i>	▶  4
90	Gentoo Penguin	<i>Pygoscelis papua</i>	▶  12
16	Chinstrap Penguin	<i>Pygoscelis antarcticus</i>	▶  4
9	Magellanic Penguin	<i>Spheniscus magellanicus</i>	▶  3
1	Southern Royal Albatross	<i>Diomedea epomophora</i>	▶  1
2	Snowy Albatross	<i>Diomedea exulans</i>	▶  2
1	Light-mantled Albatross	<i>Phoebetria palpebrata</i>	▶  1

116	Black-browed Albatross	<i>Thalassarche melanophrys</i>	▶  14
40	Wilson's Storm-Petrel	<i>Oceanites oceanicus</i>	▶  19
8	Black-bellied Storm-Petrel	<i>Fregetta tropica</i>	▶  5
67	Southern Giant-Petrel	<i>Macronectes giganteus</i>	▶  17
1	Northern Giant-Petrel	<i>Macronectes halli</i>	▶  1
69	Southern Fulmar	<i>Fulmarus glacialisoides</i>	▶  13
4	Antarctic Petrel	<i>Thalassoica antarctica</i>	▶  3
198	Pintado Petrel	<i>Daption capense</i>	▶  20
2	Soft-plumaged Petrel	<i>Pterodroma mollis</i>	▶  2
156	Blue Petrel	<i>Halobaena caerulea</i>	▶  11
2	Slender-billed Prion	<i>Pachyptila belcheri</i>	▶  1
5	White-chinned Petrel	<i>Procellaria aequinoctialis</i>	▶  4
6	Sooty Shearwater	<i>Ardenna grisea</i>	▶  3
3	Magellanic Cormorant	<i>Leucocarbo magellanicus</i>	▶  2
283	Imperial Cormorant	<i>Leucocarbo atriceps</i>	▶  7
6	Antarctic Shag	<i>Leucocarbo bransfieldensis</i>	▶  5
2	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	▶  1
2	House Sparrow	<i>Passer domesticus</i> *	▶  1

EVENT IN PROGRESS



## MS Fridtjof Nansen Highlights of Antarc...



DEC 18, 2024 - DEC 28, 2024

## About

Members  24

Shared observations from guests and Expedition Team onboard MS Fridtjof Nansen during the expedition cruise "Highlights of Antarctica" from 18th - 28th December 2024, aiming to collect data on the local biodiversity

[Read More >](#)

PROJECT

MEMBERS ONLY

 Project Journal



# iNaturalist

We submitted more than 250 observations identifying 47 species of everything living and wild we encountered.

The most frequently observed species were Humpback Whales followed by Gentoo Penguins and Pintado Petrels.

It is still time to join our project once you are back home and contribute 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 Antarctic species.

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

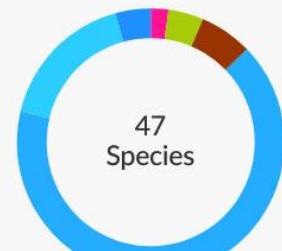


Feeding Humpback whales in Wilhelmina Bay, © Charlotte Kirchner / HX

## Stats



- Research Grade
- Needs ID
- Casual

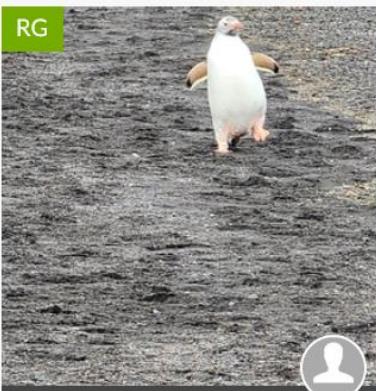


- Unknown
- Protozoans
- Fungi
- Plants
- Chromista
- Mollusks
- Insects
- Arachnids
- Ray-Finned F...
- Amphibians
- Reptiles
- Birds
- Mammals
- Other Animals



- Improving
- Supporting
- Leading
- Maverick

## Most Comments and Faves





24 observations

Humpback Whale  
*Megaptera novaeangliae*



20 observations

Gentoo Penguin  
*Pygoscelis papua*



13 observations

Pintado Petrel  
*Daption capense*



13 observations

Kelp Gull  
*Larus dominicanus*



13 observations

Antarctic Shag  
*Leucocarbo bransfieldensis*



11 observations

Adelie Penguin  
*Pygoscelis adeliae*



10 observations

Fin Whale  
*Balaenoptera physalus*



10 observations

Chinstrap Penguin  
*Pygoscelis antarcticus*



9 observations

Southern Elephant Seal  
*Mirounga leonina*



8 observations

Crabeater Seal  
*Lobodon carcinophaga*



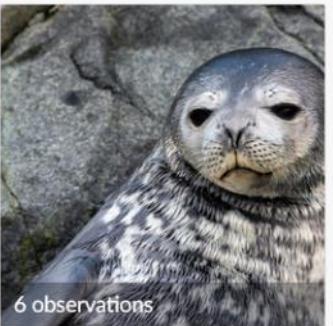
8 observations

Snowy Sheathbill  
*Chionis albus*



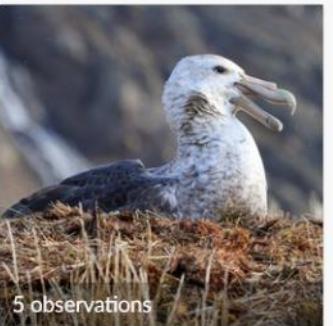
7 observations

Orca  
*Orcinus orca*



6 observations

Weddell Seal  
*Leptonychotes weddellii*



5 observations

Southern Giant Petrel  
*Macronectes giganteus*

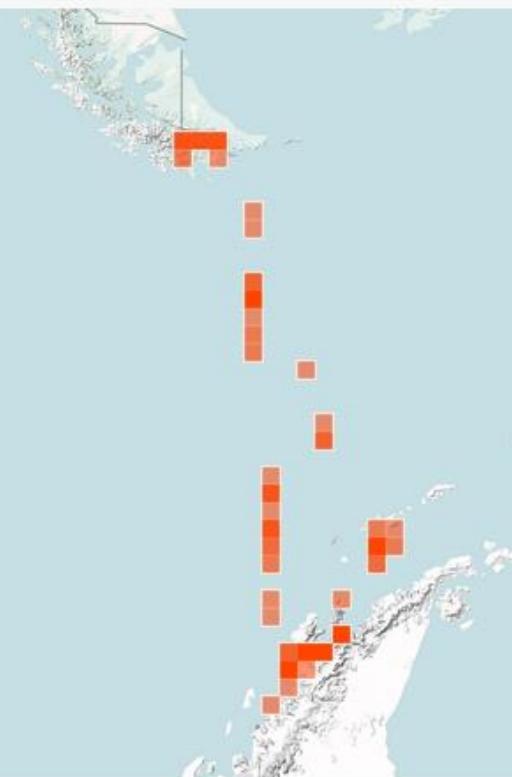


5 observations

Antarctic Tern  
*Sterna vittata*

+  
-

Map ▾



South  
Georgia and  
the South  
Sandwich  
Islands

## Recent Observations

Keyboard shortcuts | Map data ©2024 | 200 km | Terms



# HappyWhale

This voyage was a success in terms of marine mammals sightings. We submitted a total of 3 Humpback flukes for identification in addition of dorsal fin and saddle patch photos of some of the orcas. We also submitted photos to report sightings of Sei and Fin whales; also Weddell seals.

If you find you have any fluke photo's when you go over your photo's, do not hesitate to upload them your self to Happywhale.

Thank you so much for helping us gathering amazing pictures and moments!



© Timo Heinz / HX





Humpback flukes submitted

Photos: Lilia Gonzalez



Sei whales



Fin whales



Photos: Lilia Gonzalez



Orca



Weddell seal

Photos: Lilia Gonzalez



# This trip sightings!

Organizations

HX HX (Hurtigruten Expeditions)

Map Info

Total Encounters 9  
Visible 9

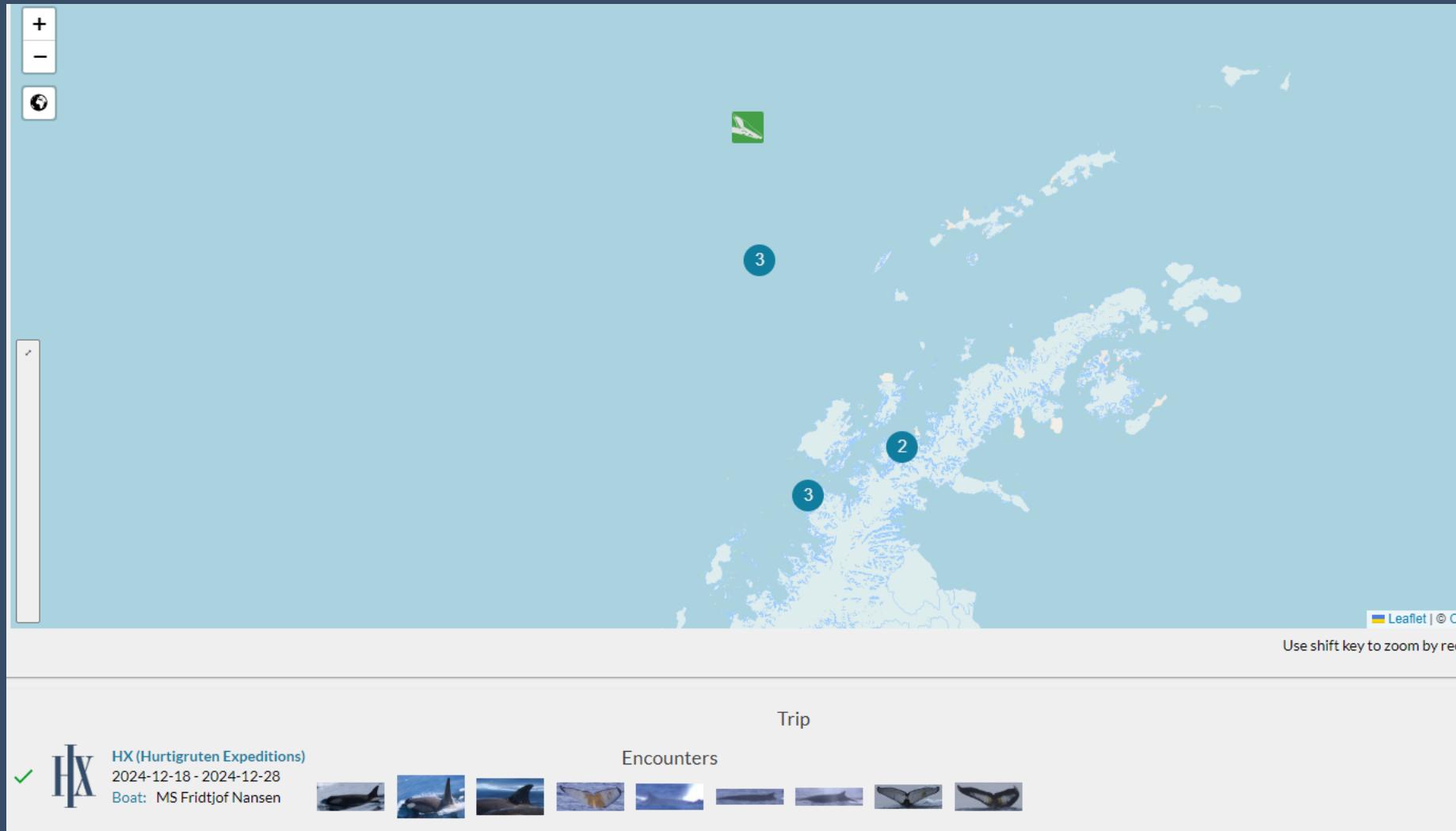
1 Individuals 1

3 Species 3

Show User Photographed Only

Show Individual Connections

Highlighted Photos



# FRIEDLAENDER LAB

## Bio-telemetry and Behavioral Ecology



20 killer whales: Type B(2)

12 Humpback whales

1 Minke whale



8

fluke photographs

Permit ACA 2025-020



Surveys and Photo-ID



# Remote Biopsy

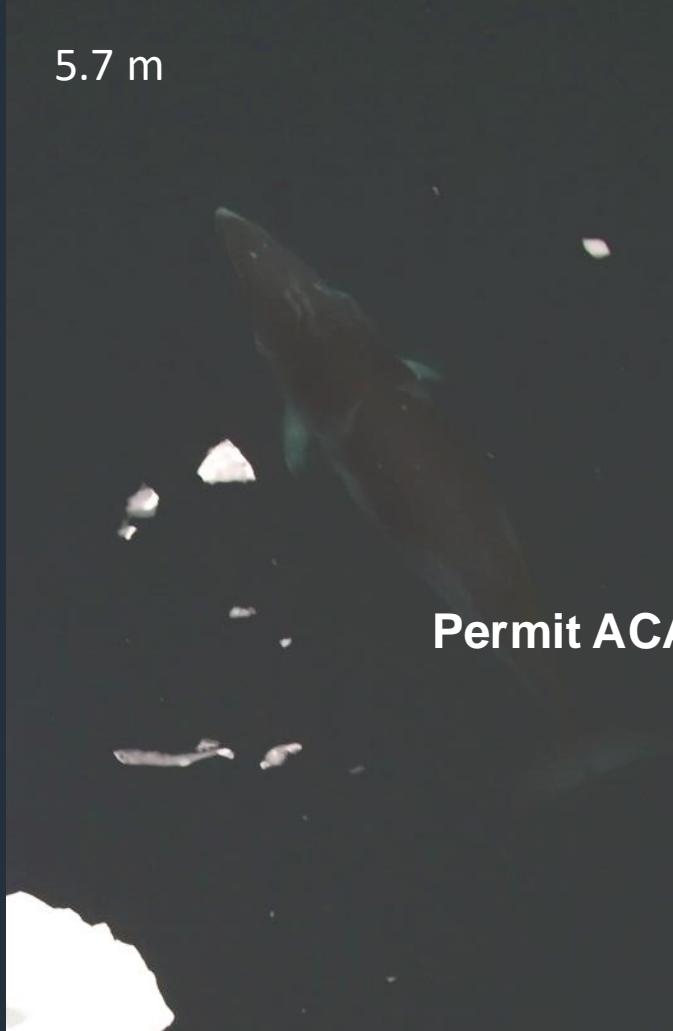
5 skin + blubber samples



Permit ACA 2025-020

12.7 m

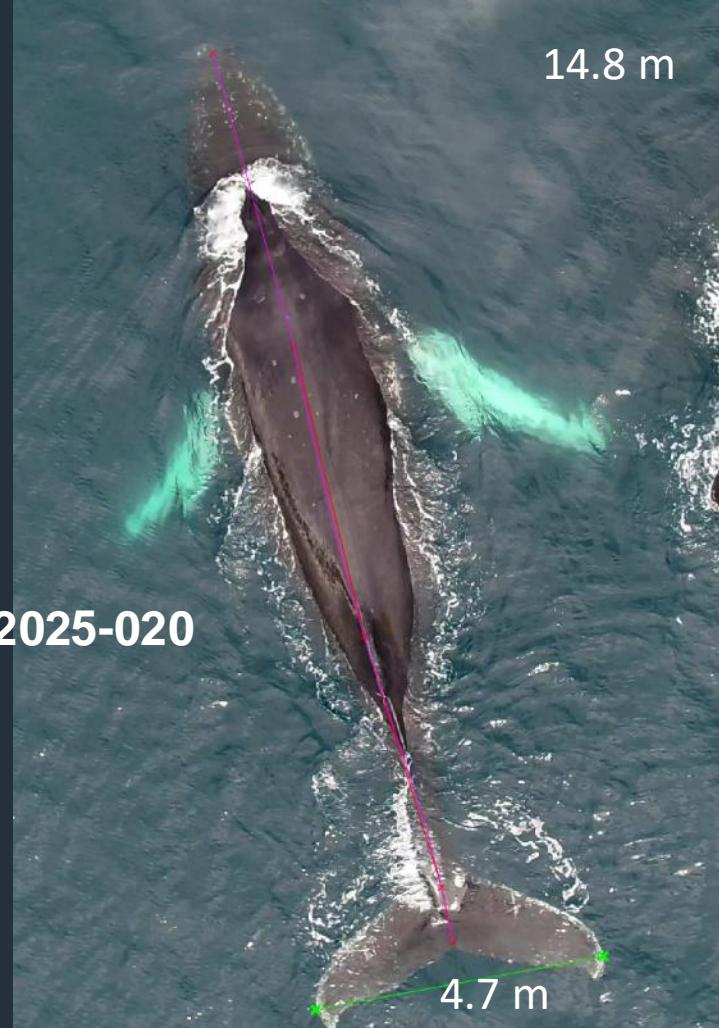
6



5.7 m

# UAS Operations

## photogrammetry samples



14.8 m

4.7 m

5 Humpbacks  
1 Minke



# FRIEDLAENDER LAB

## Bio-telemetry and Behavioral Ecology



HURTIGRUTEN  
EXPEDITIONS

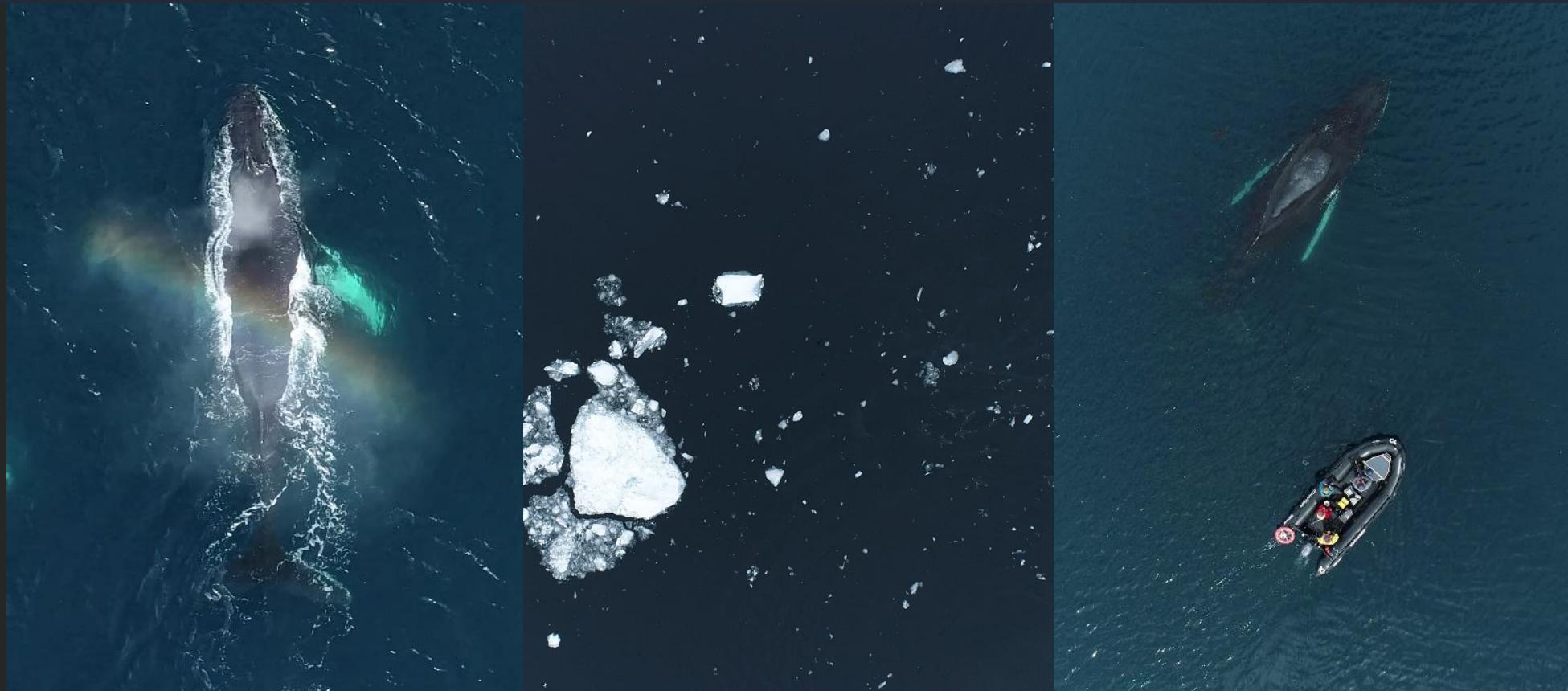
# FRIEDLAENDER LAB

Bio-telemetry and Behavioral Ecology

Follow along with our operations...



@FRIEDLAENDER\_LAB





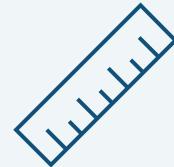
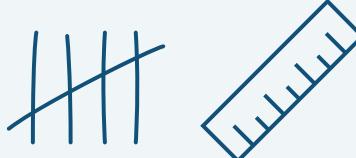
# POLAR WHALE WATCH



Trip summary

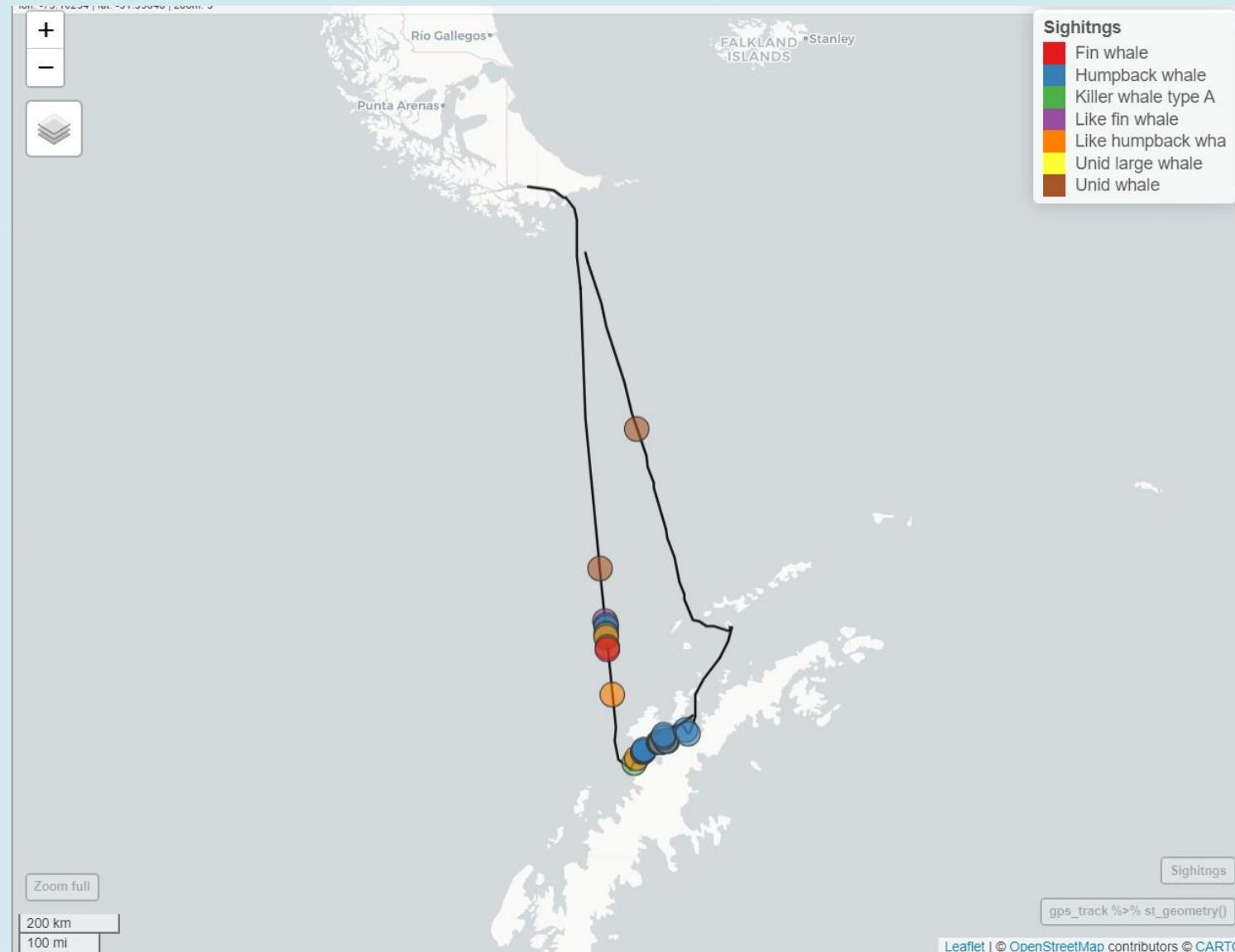
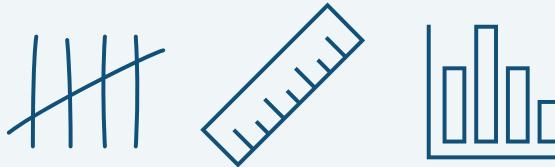


## Observations

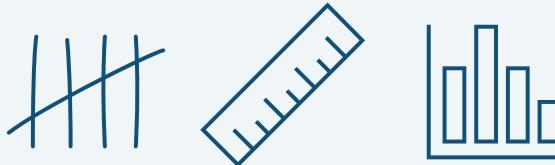


Species Name	Number of Sightings	Number of Individuals
Fin Whale	1	2
Like Fin Whale	1	5
Humpback Whale	17	33
Like Humpback Whale	5	6
Killer Whale Type B	1	12
Unidentified Large Whale	1	1
Unidentified Whale	3	4
<b>TOTAL</b>	<b>29</b>	<b>63</b>

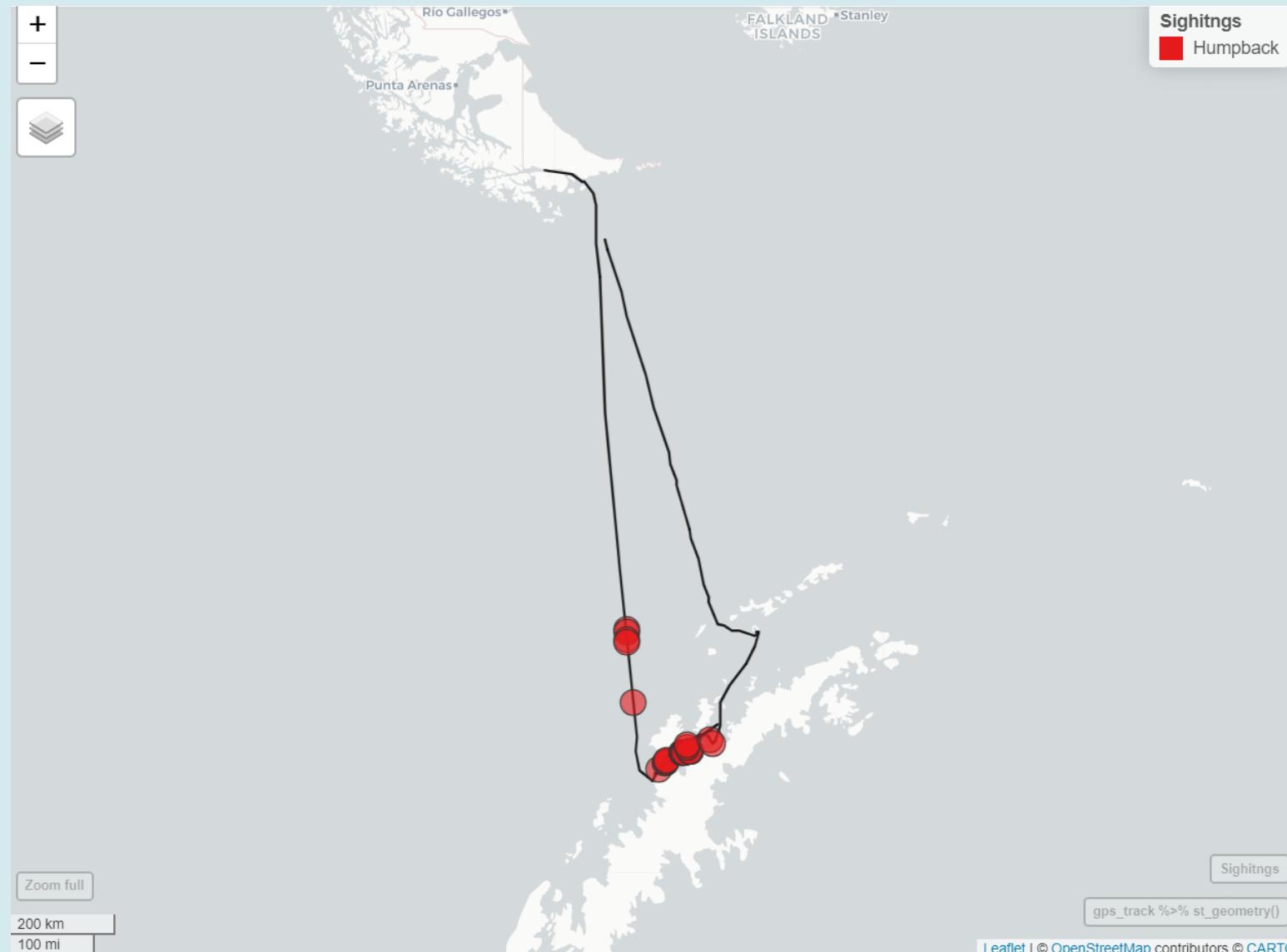
# Observations



# Observations



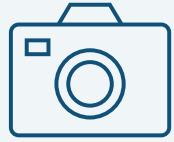
62% Humpback or  
like humpback



# Photos



## Photos



# Science Boat

We had 6 science boat sessions during this trip in: Planeau Islands, Brown Station & Whalers Bay. 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 fjord phyto project. This project aims to monitor the changes in abundance and distribution of phytoplankton in Antarctic & Arctic waters in relation with glacier 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!

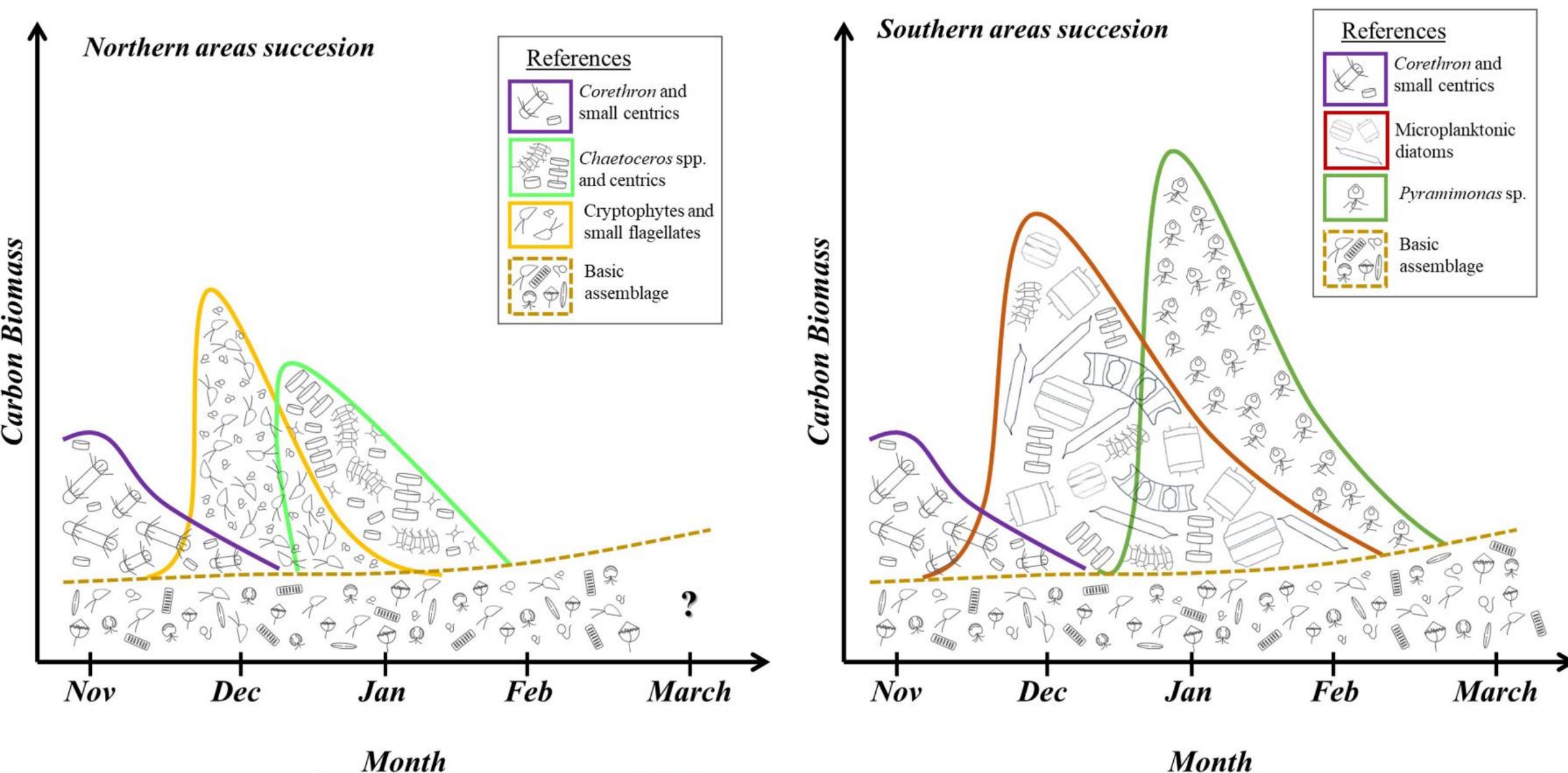


If you like to help us make  
the project a success

Follow us on social media @fjordphyto



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



Here is a diagram that explains the temporal succession of phytoplankton communities. Our voyage allowed us to visit both the Northern and Southern areas of the Gerlache Strait. We observed big differences in the abundance and diversity of species between the north (Lemaire) and the south (Marguerite Bay), with higher and richer waters towards the south, matching those results. Data obtained thanks to the FjordPhyto project participants. Marscioni et al 2023.

# Wildlife List - Birds





 <p><i>Leucocarbo bransfieldensis</i>  EN: Antarctic (Blue-eyed) Shag  FR: Cormoran antarctique  DE: Antarktisscharbe  NO: Antarktisskarv  中文: 南极鸬鹚</p>	 <p><i>Credit: Martin Hair/ HX</i></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><i>Leucocarbo atriceps</i>  EN: Imperial Shag  FR: Cormoran impérial  DE: Kaiserscharbe  NO: Knoppskarv  中文: 蓝眼鸬鹚</p>	 <p><i>Credit: Caliponte/ Wikipedia</i></p>	<input type="checkbox"/> <input type="checkbox"/>
<p><i>Stercorarius antarcticus</i>  EN: Subantarctic Brown Skua  FR: Labbe antarctique  DE: Subantarktikskua  NO: Sørhavssjø  中文: 棕贼鸥</p>	 <p><i>Credit: Ted Gattin/ HX</i></p>	<input type="checkbox"/> <input type="checkbox"/>
<p><i>Stercorarius maccormicki</i>  EN: South Polar Skua  FR: Labbe de McCormick  DE: Antarktikskua  NO: Sørjo  中文: 南极贼鸥/ 麦氏贼鸥</p>	 <p><i>Credit: Kay Fochtmann/ HX</i></p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p><i>Stercorarius chilensis</i>  EN: Chilean Skua  FR: Labbe du Chili  DE: Chileskua  NO: Kaneljo  中文: 智利贼鸥</p>	 <p><i>Credit: Arthur Chapman/ Wikipedia</i></p>	<input type="checkbox"/> <input type="checkbox"/>

<p><i>Larus dominicanus</i></p> <p>EN: Kelp Gull</p> <p>FR: Goéland dominicain</p> <p>DE: Dominikanermöwe</p> <p>NO: Taremåke</p> <p>中文: 黑背鸥</p>	 Credit: Kay Fochtmann/ HX											
<p><i>Sterna vittata</i></p> <p>EN: Antarctic Tern</p> <p>FR: Sterne couronnée</p> <p>DE: Antarktikseeschwalbe</p> <p>NO: Sørhavsterne</p> <p>中文: 南极燕鸥</p>	 Credit: Ted Gattin/ HX											
<p><i>Sterna hirundinacea</i></p> <p>EN: South American Tern</p> <p>FR: Sterne hirundinacée</p> <p>DE: Falklandseeschwalbe</p> <p>NO: Svalesterne</p> <p>中文: 南美燕鸥</p>	 Credit: Dfaulder/ Wikicommons											
<p><i>Chionis albus</i></p> <p>EN: Snowy Sheathbill</p> <p>FR: Chionis blanc</p> <p>DE: Weißgesicht-Scheidenschnabel</p> <p>NO: Antarktissirenebb</p> <p>中文: 白鞘嘴鸥</p>	 Credit: Kay Fochtmann/ HX											
<p><i>Diomedea epomophora</i></p> <p>EN: Southern Royal Albatross</p> <p>FR: Albatros royal</p> <p>DE: Königsalbatros</p> <p>NO: Kongealbatross</p> <p>中文: 南方皇家信天翁</p>	 Credit: JHarrison/ Wikicommons											

<p><i>Diomedea exulans</i></p> <p>EN: Snowy Albatross</p> <p>FR: Albatros hurleur</p> <p>DE: Wanderalbatros</p> <p>NO: Vandrealbatross</p> <p>中文: 漂泊信天翁</p>		Credit: Tim Hoffmann/ HX												
<p><i>Thalassarche chrysostoma</i></p> <p>EN: Grey-headed Albatross</p> <p>FR: Albatros à tête grise</p> <p>DE: Graukopfalbatros</p> <p>NO: Gråhodealbatross</p> <p>中文: 灰头信天翁</p>		Credit: Kay Fochtmann/ HX												
<p><i>Thalassarche melanophrys</i></p> <p>EN: Black-browed Albatross</p> <p>FR: Albatros à sourcils noirs</p> <p>DE: Schwarzbrauenalbatros</p> <p>NO: Svartbrynalbatross</p> <p>中文: 黑眉信天翁</p>		Credit: Kay Fochtmann/ HX												
<p><i>Phoebetria palpebrata</i></p> <p>EN: Light-mantled Albatross</p> <p>FR: Albatros fuligineux</p> <p>DE: Graumantelalbatros</p> <p>NO: Gråalbatross</p> <p>中文: 灰背信天翁</p>		Credit: Kay Fochtmann/ HX												
<p><i>Macronectes halli</i></p> <p>EN: Northern Giant Petrel</p> <p>FR: Pétrel de Hall</p> <p>DE: Hallsturmvogel</p> <p>NO: Nordkjempepetrell</p> <p>中文: 霍氏巨鹱</p>		Credit: Tim Hoffmann/ HX												

<p><i>Macronectes giganteus</i>  EN: Southern Giant Petrel  FR: Pétre géant  DE: Riesensturmvogel  NO: Sørkjempepetrell  中文: 南方巨鹱</p>		<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span>
<p><i>Fulmarus glacialisoides</i>  EN: Southern Fulmar  FR: Fulmar argenté  DE: Silbersturmvogel  NO: Sørhavhest  中文: 银灰暴风鹱</p>		<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span>
<p><i>Daption capense</i>  EN: Pintado Petrel  FR: Damier du Cap  DE: Kapsturmvogel  NO: Flekkpetrell  中文: 花斑鹱</p>		<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span>
<p><i>Thalassarche antarctica</i>  EN: Antarctic Petrel  FR: Pétré antarctique  DE: Antarktissturmvogel  NO: Antarktispetrell  中文: 南极鹱</p>		<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span>
<p><i>Procellaria aequinoctialis</i>  EN: White-chinned Petrel  FR: Puffin à menton blanc  DE: Weißkinn-Sturmvogel  NO: Hvithakepetrell  中文: 白頰风鹱</p>		<span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span> <span style="display: inline-block; width: 15px; height: 15px; background-color: black; border-radius: 50%;"></span>



*Oceanites oceanicus*

EN: Wilson's Storm Petrel

FR: Océanite de Wilson

DE: Buntfuß-Sturmschwalbe

NO: Wilsonstormsvale

中文: 黃蹼洋海燕



Credit: Ethan Rudnitsky/ Wikipedia



*Fregata tropica*

EN: Black-bellied Storm Petrel

FR: Océanite à ventre noir

DE: Schwarzbauch-Sturmschwalbe

NO: Svartbukstormsvale

中文: 黑腹舰海燕



Credit: Kay Fochtmann/ HX



EN:

FR:

DE:

NOR:

中文:

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中文:

# wildlife List - Marine Mammals





# CETACEANS - WHALES & DOLPHINS

# CETACEANS - WHALES & DOLPHINS

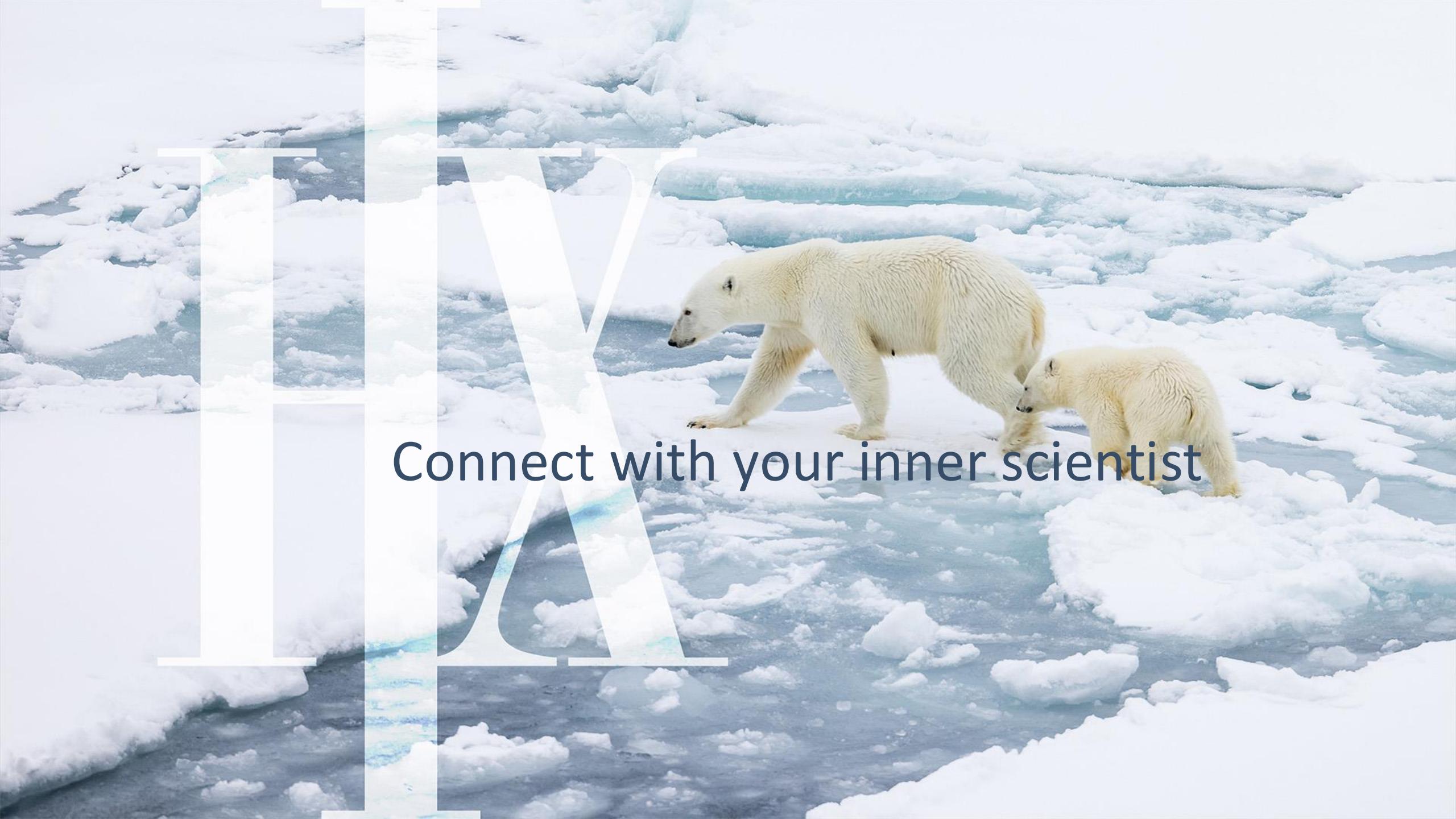
# CETACEANS - WHALES & DOLPHINS

Species	December									
	18	19	20	21	22	23	24	25	26	27
<i>Lissodelphis peronii</i> EN: Southern Right Whale Dolphin FR: Dauphin de Peron DE: Südlicher Glattwalldelfin 中文: 南露脊海豚										
<i>Lagenorhynchus australis</i> EN: Peale's dolphin FR: Lagénorhynde de Peale DE: Peale-Delfin NO: Peales delfin 中文: 皮氏斑纹海豚										

## SEALS – TRUE AND EARED SEALS

Species	December									
	18	19	20	21	22	23	24	25	26	27
<i>Leptonychotes weddellii</i> EN: Weddell Seal FR: Phoque de Weddell DE: Weddellrobbe NO: Weddellsel 中文: 韋德爾氏海豹					●	●	●		●	
<i>Lobodon carcinophaga</i> EN: Crabeater Seal FR: Phoque crabier DE: Krabbenfresser NO: Krabbeetersel 中文: 食蟹海豹/锯齿海豹					●	●	●			

# **SEALS – TRUE AND EARED SEALS**

A photograph of a polar bear and its cub walking across a field of white sea ice floes. The bear is on the left, facing left, while the cub is on the right, facing right. The background consists of more ice floes and a bright, overexposed sky.

Connect with your inner scientist

