



THE SCIENCE RECAP

MS FRIDTJOF NANSEN

Highlights of Antarctica

26th February -
08th March 2025





Science & Education program

The science and education team onboard accompanied you on an expedition cruise through the Highlights of Antarctica. In depth lectures, interesting discovery sessions, vibrant evening story-telling and amazing exploration ashore or on-board our zodiacs introduced you to the magnificent Antarctic ecosystem, with the objective to make every expedition day a memorable and unique learning experience.

History & Culture: Exploring a heroic landscape

During our voyage we have focused on stories of the Heroic Age of Exploration. In lectures and late night sessions we gone through the tales of Antarctic expeditions including the 1897-99 Belgica expedition, Nordenskiöld's voyage in 1901-04, Charcot's two trips to the Antarctic in 1905-10, Scott and Amundsen's race to the South Pole between 1911-12, Mawson ordeals on the Australian Antarctic expedition 1912-14 and of course Shackleton's famed Endurance Expedition 1914-17. In sharing these stories our aim has been to reinterpret the Antarctic as not only a place of serene beauty, but also a scene for exiting heroic endeavors .





Arts & Crafts

During your voyage you will have enjoyed coming to our Art Corner for a relaxing and inspiring moment. Give your creativity free rein to capture the sensations and emotions of Antarctica on a postcard or bottle and create memories that will last a lifetime.



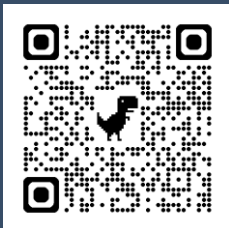
Science Boat

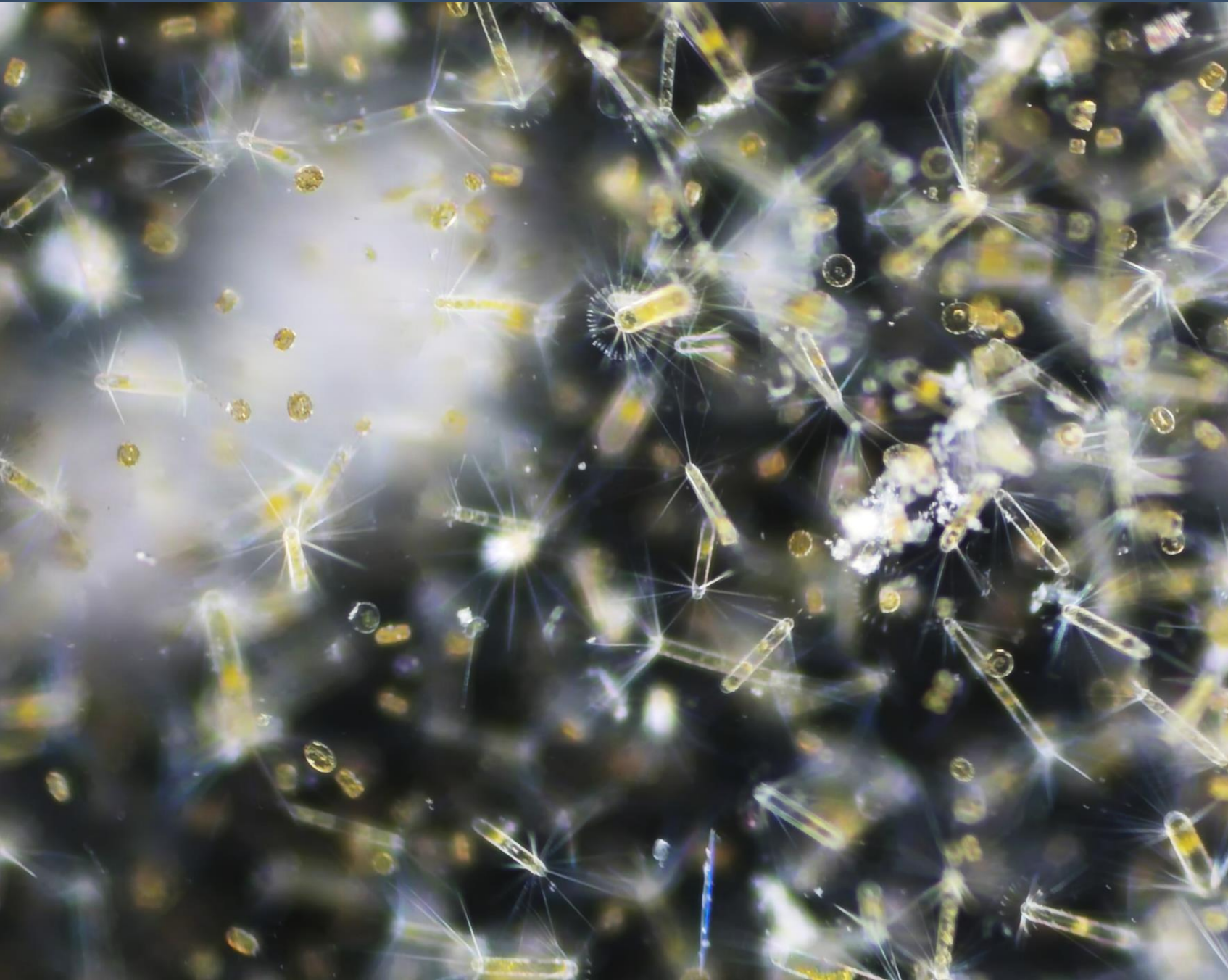
During our voyage we studied the abundance and types of plankton present in our sampling locations. This included taking a plankton sample, recording water conditions using our 'CTD', and using a Secchi disk to record water clarity, indicating the amount of plankton present. The Secchi data can be found in the Table below.

Date	Location	Secchi Depth (m)	Sea Surface Temp (°C)
02.03.25	Damoy Point	-	3.2
03.03.25	Neko Harbour	-	0.8
04.03.25	Danco Island	-	0.7
05.03.25	Fournier Bay	-	0.5

FjordPhyto

This project aims to monitor the changes in abundance and distribution of phytoplankton in Antarctic waters in relation with glacial ice melting. In the four sampled places, we towed a plankton net,; measured water temperature, salinity, and chlorophyll a; preserved melt water samples to measure dissolved oxygen, and collected a water sample preserved on a 0,45um filter to study environmental DNA. The whole mission was a success, thank you for participating with us! Use the QR code below to learn more about how this data and the results coming with the project!





Plankton samples

Our sampling allowed us to monitor the phytoplankton community at different locations during our cruise. We mainly saw diatoms, single-celled photosynthetic organisms that grow in polar seas and build their outer skeleton from dissolved silica. The image on the left shows a sea of diatoms dominated by *Corethron* sp. collected in Neko Harbour on 03 March 2025. By studying changes in the abundance and species composition of the phytoplankton community over time and place, scientists can understand how glacier melt is affecting these communities, which form the basis of the Antarctic ecosystem.

Underwater Drone

During our Science Boat in Damoy Point, we put our BlueEye Drone under the surface to record the wildlife that lives there. We discovered a colourful carpet of algae: brown green and red seaweed growing quietly and holding a vibrant marine life, from limpets to amphipods and penguins. These are the true colours of Antarctica, hidden beneath the surface.



movavi

Temperature: 3.5 °C

Heading: 119°

Camera: -10°

Depth: 2.6 m

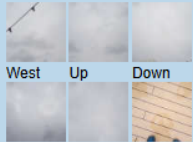
blueye



GLOBE Cloud Observations Paired with NASA Satellite Data

Total Satellite Comparisons: 157

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	GOES-16 Satellite
Universal Date/Time	2025-02-27 19:29:00	2025-02-27 19:37
Latitude	-58.45	-58.77 to -58.13
Longitude	-65.88	-66.2 to -65.56
Total Cloud Cover	Sky Obscured ●	Overcast 100.00% ●
High Clouds	Sky Obscured by Fog/Stratus Clouds/Contrails > 25% Obscured 	
Mid Clouds		Cover: Overcast 100.00% ● Altitude: 4.71 (km) Phase: Water 247.71 (K) Opacity: Opaque
Low Clouds		
GLOBE Cloud Photos and Corresponding NASA Satellite Images. Click image to view ---> <i>Note: Photos submitted though GLOBE need approval before being displayed, this may take a few days.</i>	GLOBE Photos North East South West Up Down 	GOES-16 Visible  Infrared  GEO Tutorial
Sky Conditions, Surface Conditions and Observer Comments	Sky Conditions Sky Visibility : no report Sky Color : no report Surface Conditions Snow/Ice : No Standing Water : Yes Muddy : No Dry Ground : No Leaves on Trees : No Raining or Snowing : No	Are there any comments you would like to add? Be sure to add the name of the satellite for our record.



NASA Globe Cloud observer

We conducted two observations in total during this voyage to the Antarctic Peninsula. We had one satellite match, so we can compare our observations with those of the satellite. Our observation will complement the satellite data to improve the models, providing more information about how the atmosphere behaves from below up to the top. Thank you for your interest and help!

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

iNaturalist

We submitted 22 observations identifying 16 species, anything living and wild. We uploaded observations of penguin, seals, whales, lichens and even plankton! The most observed species were the humpback whale and the gentoo penguin.

Our observations can help scientist to better understand the distribution of these species in the wild and to protect them in a changing environment.

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



Antarctic Minke Whale in Lemaire Channel, © Dougie Wainwright / HX

iNaturalist – you can still upload your photos to our project!



2025_26-02_Antarctica_MS Fridtjof Nansen
Feb 26, 2025 - Mar 8, 2025

About

Members 10

Shared observations from guests and Expedition Team onboard MS Fridtjof Nansen during the expedition cruise "Highlights of Antarctica" from 26th of February to 08th of March 2025.

[Read More >](#) [Your Membership](#)

[Edit Project](#) [Project Journal](#)

Overview **22 OBSERVATIONS** 16 SPECIES 15 IDENTIFIERS 2 OBSERVERS [Stats](#)

[Map](#) [Grid](#) [List](#) [Identify](#) [Search](#) [Export Observations](#)

RG



Antarctic Minke Whale
Balaenoptera bonaerensis
3 2d

RG



Southern Humpback Whale
Megaptera novaeangliae ssp. australis
6 6d

RG



Gentoo Penguin
Pygoscelis papua
3 6d

RG



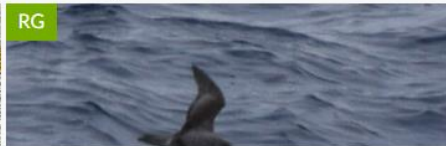
RG



RG



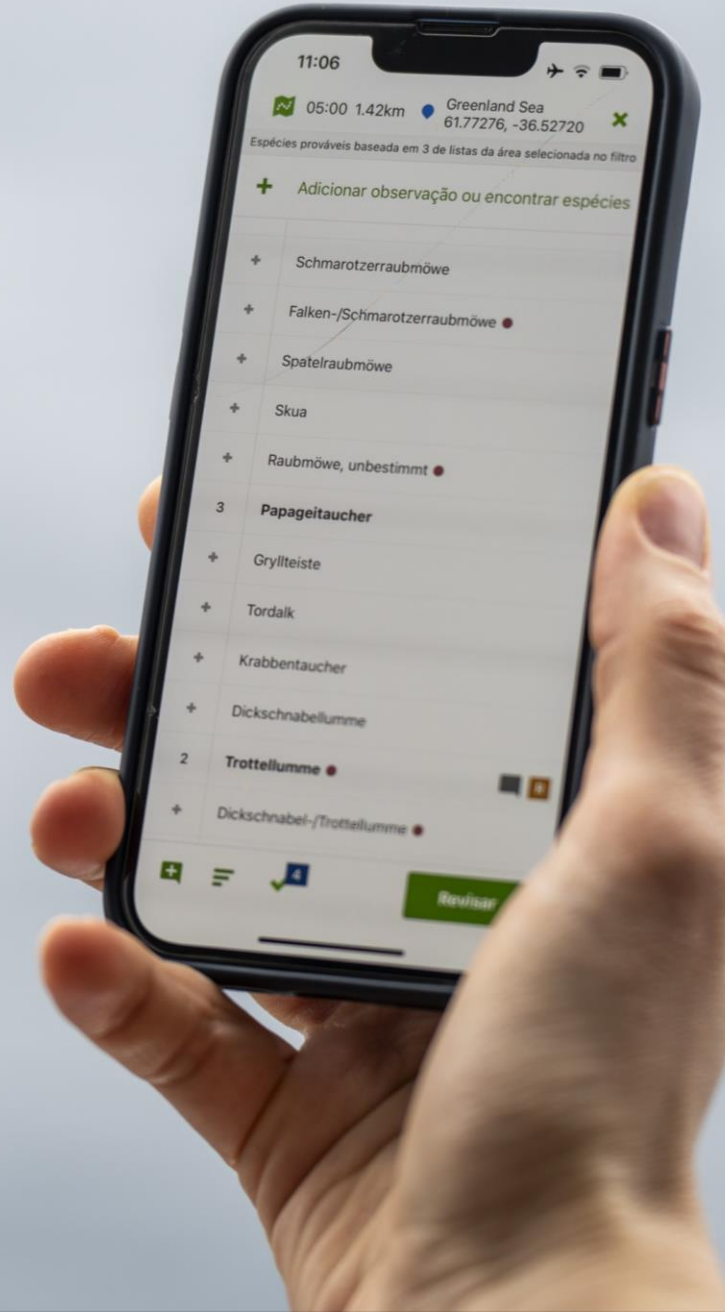
RG



eBird

During this voyage, our ornithologists Marcus & Júlia did 28 surveys between Ushuaia and the Antarctic Peninsula, recording a total of 30 species. Some of the highlights were the abundant Black-browed-albatrosses, Sooty Shearwaters and Gentoo Penguins and the endemic Snow Petrel.

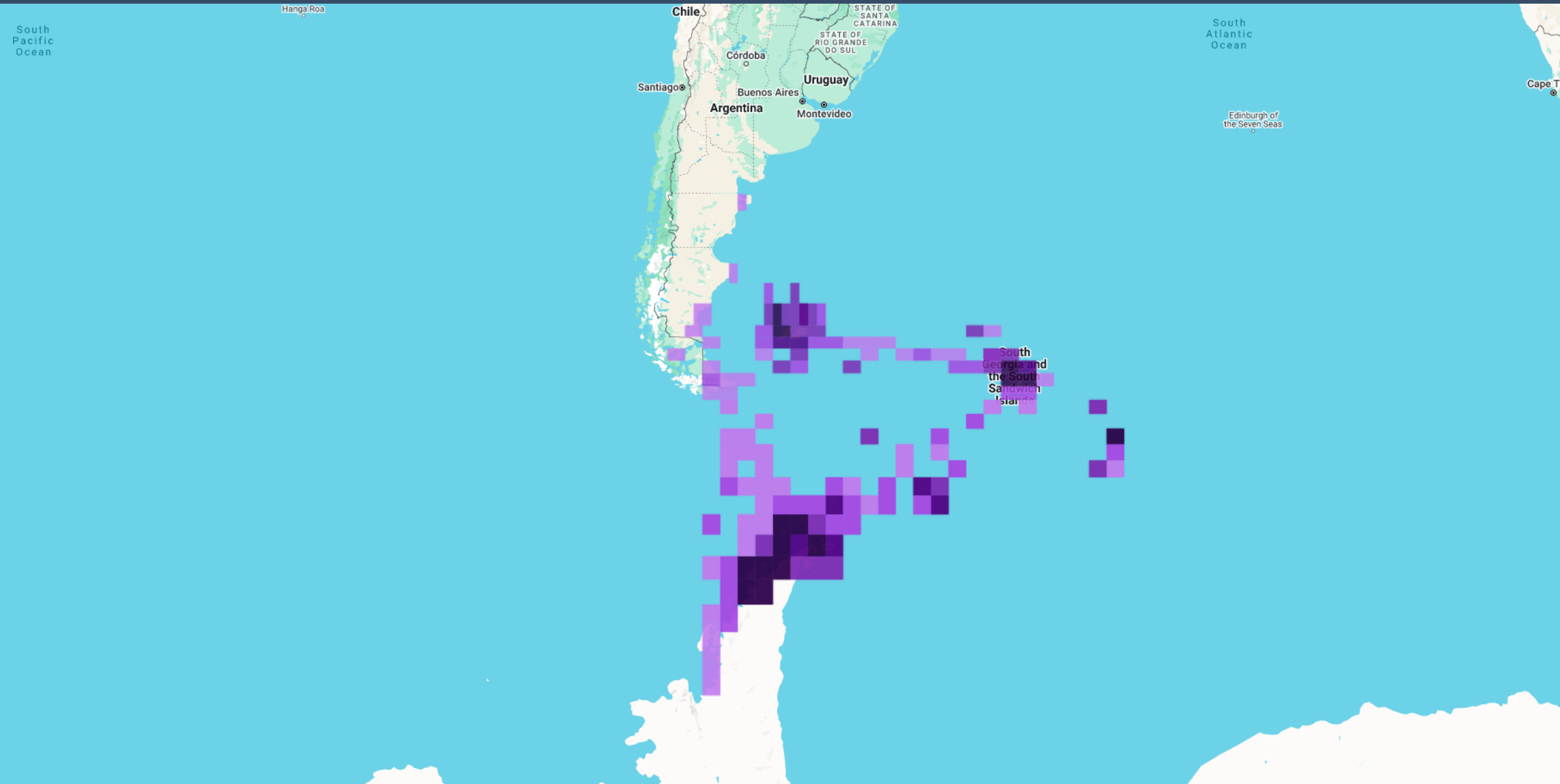
Find the trip report for the voyage and the checklists [here](#).



eBird

These are all the locations of eBird observations done during this voyage





DATA FOR: **Group (all people)** ▾

 **30**

Species Observed
+4 other taxa

 **27**

Checklists

 **9**

Species with Photos

Species Observed

[Show all details](#)

2	Snowy Sheathbill	▶  1
3	Chilean Skua	▶  1
5	Brown Skua	▶  3
13	South Polar Skua	▶  6
12	Kelp Gull	▶  5
21	South American Tern	▶  2
93	Antarctic Tern	▶  6
890	Gentoo Penguin	▶  6

Sphenisciformes / Spheniscidae

Gentoo Penguin

Pygoscelis papua

LC Least Concern

BIRDM PHOTO VIDEO MAP



Adult © Andrew Spencer/Wildlife © Michael Stubbins/Wildlife © Murray Hopkins/Wildlife



+ 4

Identification

POWERED BY MEISUR

Attractive, medium-sized penguin that is rarely seen away from well-known colony sites. Appearance is distinctive with white "headphones" and a lipstick orange bill unlike any other penguin. Striking head and bill pattern also make it one of the easiest penguins to identify when seen swimming at sea. Nests in small colonies and occurs around King and Magellanic Penguins in northern areas of its range, as on the Falklands.

Listen

+ 3 more audio recordings

Statistics

	✓ Observations	📷 With photos	🔊 With audio
You	31	7	0
eBird	14,248	2570	107

Weekly Bar Chart

Choose a region to view Weekly Bar Chart

Range Map

Large map



Media

All media My media

Top photos WORLD View All



Top audio WORLD View All



Top video WORLD View All



© Sharon Kennedy Macaulay Library | eBird



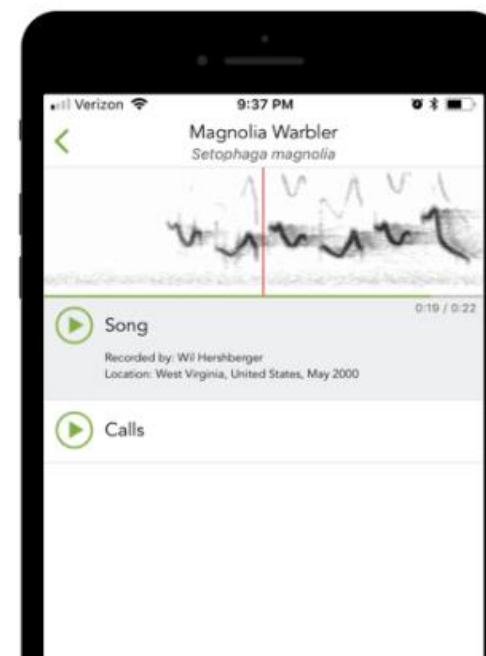
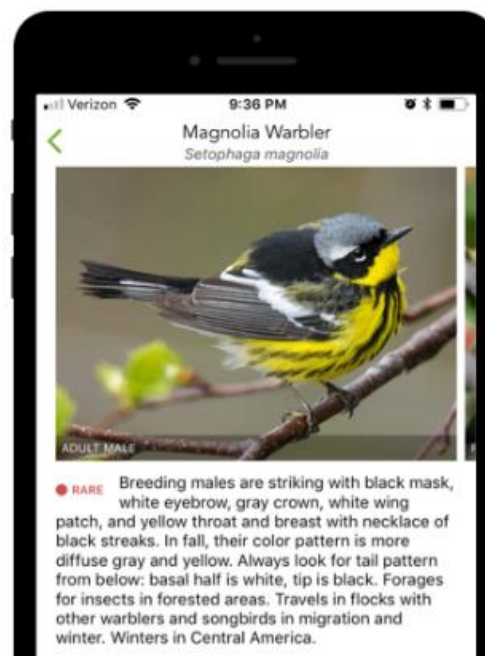
Birds of the World

Comprehensive life histories for all bird species and families.

[Explore Falkland Steamer-Duck](#)



Take Merlin with you in the field! Free, global bird ID and field guide app powered by your sightings and media.





HappyWhale

This voyage was a success in terms of whale sightings. Our marine scientist Lilia, together with the science team, submitted 13 fluke photos to the platform. One whale was first sighted in Ecuador in 2019, and on this voyage it was recorded in Antarctica for the first time. Over 10 other whale submissions had been observed previously. Photos were also submitted of one fur seal and a Minke whale. Thank you so much for helping us gathering amazing pictures and moments!

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





HX (Hurtigruten Expeditions)

Trips 470 Encounters 2386 Identified 1401 Individuals 1236

Species
52

Log My Trip

Followers 36 Follow

About

WEBSITE www.travelhx.com/en/
ADDRESS 210 Pentonville Road N1 9JY
London UK

At HX, we want to change the way you see the world.

13 rows

	Species	Num	Individual	Date	Region	ID
	Humpback Whale	1	Nickster (Antarctica)	2025-03-01	Antarctica	534135
	Humpback Whale	1	ESPHW-BGT#0327	2025-03-01	Antarctica	534221
	Humpback Whale	1	HW-MN1307299	2025-03-01	Antarctica	534222
	Humpback Whale	1	HW-MN1307266	2025-03-01	Antarctica	534223
	Humpback Whale	1	HW-MN1307114	2025-03-01	Antarctica	534224
	Humpback Whale	1	HW-MN1306019	2025-03-01	Antarctica	534225
	Humpback Whale	1	HW-MN1307267	2025-03-01	Antarctica	534226
	Humpback Whale	1	HW-MN1305226	2025-03-01	Antarctica	534227
	Humpback Whale	1	Gloria Gayle (Antarctica)	2025-03-01	Antarctica	534228
	Humpback Whale	1	HW-MN1307117	2025-03-04	Antarctica	535079
	Humpback Whale	1		2025-03-04	Antarctica	535094
	Humpback Whale	1		2025-03-04	Antarctica	535095
	Humpback Whale	1		2025-03-04	Antarctica	535108

+

HX (Hurtigruten Expeditions)
2025-02-26 - 2025-03-08
Boat: MS Fridtjof Nansen

Our trip name

Encounters





Gloria Gayle (Antarctica)

ID PWF-EC_5225

SEX Unknown

Humpback Whale

Sightings: 2

First:



2019-08-20
Manabí, Ecuador

Last:



2025-03-01
Antarctica

Followers
1

Follow

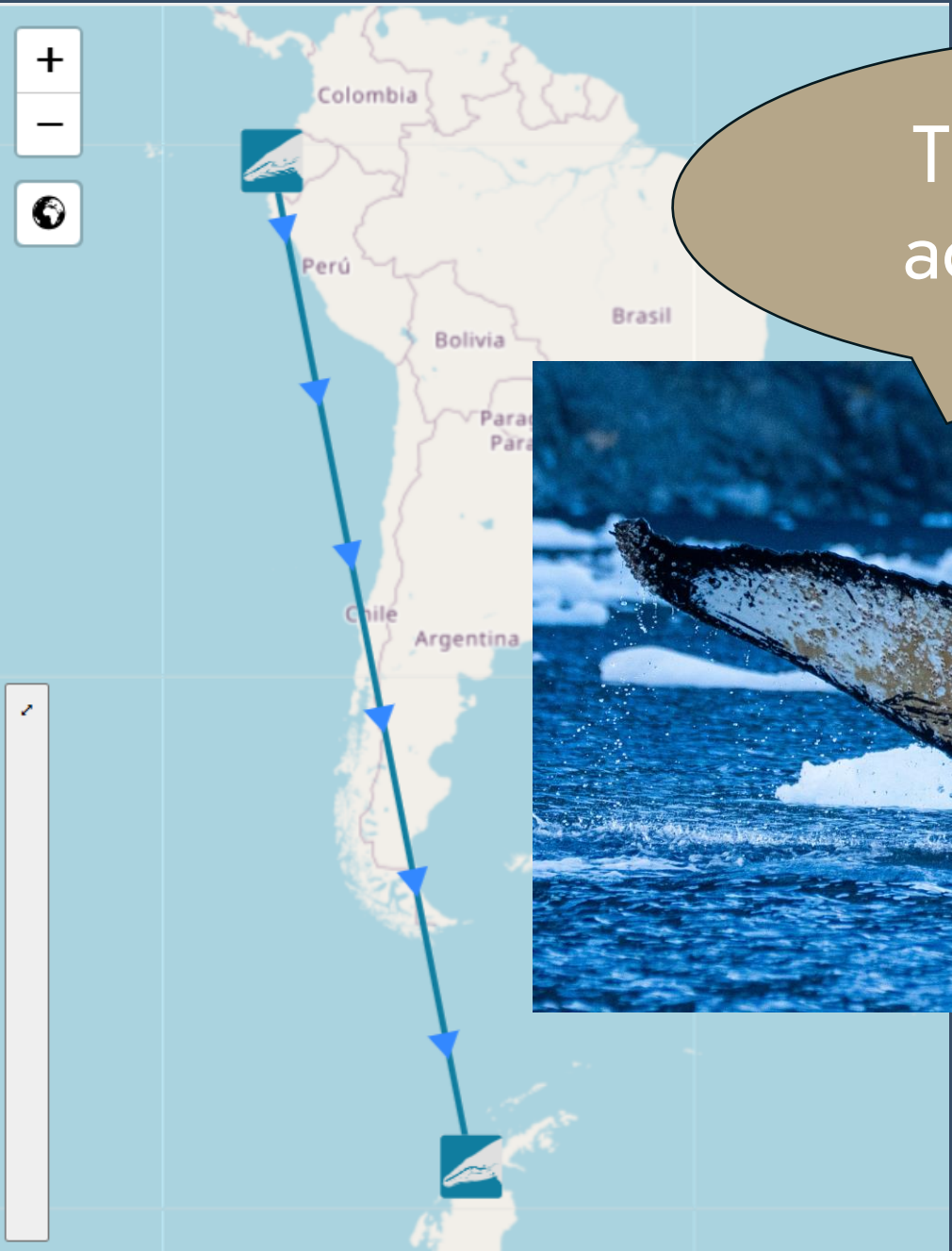


Seen this individual?

Share Your Experience

☐ Show My Encounters Only

Contributors



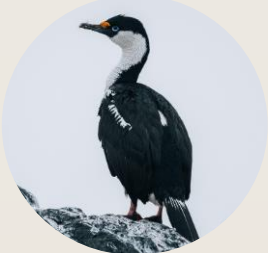
Thank you for adopting me!!





Wildlife list Birds

Timo Heinz/HX

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Pygoscelis papua</i> EN: Gentoo Penguin FR: Manchot papou DE: Eselspinguin NO: Bøylepingvin 中文: 巴布亚企鹅/白眉企鹅	 Credit: Kay Fochtmann/HX				●	●	●	●	●		
<i>Pygoscelis antarcticus</i> EN: Chinstrap Penguin FR: Manchot à jugulaire DE: Zügelpinguin NO: Ringpingvin 中文: 帽带企鹅/纹颊企鹅	 Credit: Martin Hain/HX			●			●	●			
<i>Spheniscus magellanicus</i> EN: Magellanic Penguin FR: Manchot de Magellan DE: Magellanpinguin NO: Magellanpingvin 中文: 南美企鹅/麦哲伦企鹅	 Credit: Kim Rørmark/HX	●									●
<i>Leucocarbo bransfordensis</i> EN: Antarctic (Blue-eyed) Shag FR: Cormoran antarctique DE: Antarktisscharbe NO: Antarktisskarv 中文: 南极鸬鹚	 Credit: Martin Hain/HX				●	●	●	●	●		

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Leucocarbo atriceps</i> EN: Imperial Shag FR: Cormoran impérial DE: Kaiserscharbe NO: Knoppskarv 中文: 蓝眼鸬鹚	 Credit: Caliponte/Wikipedia	●									●
<i>Leucocarbo magellanicus</i> EN: Rock Shag FR: Cormoran de Magellan DE: Felsenscharbe NOR: Magellanskarv 中文: 岩鸬鹚	 Credit: Liam Quinn/Wikipedia	●									●
<i>Stercorarius antarcticus</i> EN: Subantarctic Brown Skua FR: Labbe antarctique DE: Subantarktiskua NO: Sørhavsjo 中文: 南极贼鸥/麦氏贼鸥	 Credit: Ted Gatlin/HX							●			
<i>Stercorarius maccormicki</i> EN: South-Polar Skua FR: Labbe de McCormick DE: Antarktiskua NO: Sørjo					●	●	●	●			

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Stercorarius chilensis</i> EN: Chilean Skua FR: Labbe du Chili DE: Chileskua NO: Kaneljo 中文: 智利贼鸥	 Credit: Arthur Chapman/Wikipedia	●									●
<i>Larus dominicanus</i> EN: Kelp Gull FR: Goéland dominicain DE: Dominikanermöwe NO: Taremåke 中文: 黑背鸥	 Credit: Ted Gatlin/HX			●	●	●	●	●	●		
<i>Sterna hirundinacea</i> EN: South American Tern FR: Sterne hirundinacée DE: Falklandseeschwalbe NO: Svaletterne 中文: 南美燕鸥	 Credit: Dfaulder/Wikicommons	●									●
<i>Chionis albus</i> EN: Snowy Sheathbill FR: Chionis blanc DE: Weißgesicht-Scheidenschnabel NO: Antarktisslirenebb 中文: 白鞘嘴鸥	 Credit: Kay Fochtmann/HX							●			

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Diomedea epomophora</i> EN: Southern Royal Albatross FR: Albatros royal DE: Königsalbatros NO: Kongealbatross 中文: 南方皇家信天翁	 Credit: Marcus Bergström/HX		●							●	
<i>Diomedea exulans</i> EN: Snowy Albatross FR: Albatros hurleur DE: Wanderalbatros NO: Vandrealbatross 中文: 漂泊信天翁	 Credit: Marcus Bergström/HX		●								
<i>Thalassarche chrysostoma</i> EN: Grey-headed Albatross FR: Albatros à tête grise DE: Graukopfalbatros NO: Gråhodealbatross 中文: 灰头信天翁	 Credit: Marcus Bergström/HX		●	●						●	
<i>Thalassarche melanophris</i> EN: Black-browed Albatross FR: Albatros à sourcils noirs DE: Schwarzbrauenalbatros NO: Svartbrynalbatross		●	●	●						●	●

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Phoebetria palpebrata</i> EN: Light-mantled Albatross FR: Albatros fuligineux DE: Graumantelalbatros NO: Gråalbatross 中文: 灰背信天翁	 Credit: Kay Fochtmann/HX		●	●						●	
<i>Macronectes giganteus</i> EN: Southern Giant Petrel FR: Pétrel géant DE: Riesensturmvogel NO: Sørkjempetrell 中文: 南方巨鹱	 Credit: Kay Fochtmann & Ted Gatlin/HX	●	●	●	●	●		●	●	●	●
<i>Fulmarus glacialoides</i> EN: Southern Fulmar FR: Fulmar argenté DE: Silbersturmvogel NO: Sørhavhest 中文: 银灰暴风鹱	 Credit: Kay Fochtmann/HX			●					●	●	
<i>Daption capense</i> EN: Cape Petrel (Pintado Petrel) FR: Damier du Cap DE: Kapsturmvogel NO: Flekkpetrell				●							

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Thalassoica antarctica</i> EN: Antarctic Petrel FR: Pétrel antarctique DE: Antarktissturmvogel NO: Antarktispetrell 中文: 南极鹱	 Credit: Marcus Bergström/HX									●	
<i>Procellaria aequinoctialis</i> EN: White-chinned Petrel FR: Puffin à menton blanc DE: Weißkinn-Sturmvogel NO: Hvithakepetrell 中文: 白颈风鹱	 Credit: Marcus Bergström/HX		●	●							
<i>Pterodroma mollis</i> EN: Soft-plumaged Petrel FR: Pétrel soyeux DE: Weichfeder-Sturmvogel NO: Silkepetrell 中文: 柔羽圆尾鹱	 Credit: Marcus Bergström/HX		●	●						●	
<i>Ardenna grisea</i> EN: Sooty Shearwater FR: Puffin fuligineux DE: Dunkelsturmtaucher NO: Grålire			●	●						●	

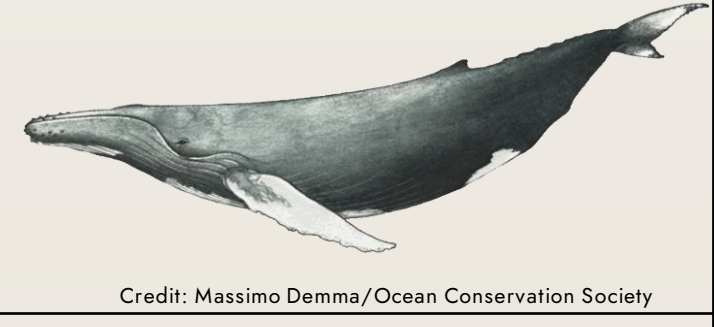
SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Ardenna gravis</i> EN: Great Shearwater FR: Puffin majeur DE: Großersturmtaucher NO: Storlire 中文: 大鰲	 Credit: Patrick Coin/Wikipedia										●
<i>Halobaena caerulea</i> EN: Blue Petrel FR: Prion bleu DE: Blausturmvogel NO: Blåpetrell 中文: 蓝鰲	 Credit: Kim Rørmark/HX			●							
<i>Pachyptila desolata</i> EN: Antarctic Prion FR: Prion de la Désolation DE: Taubensturmvogel NO: Antarktishvalfugl 中文: 鸽锯鰲	 Credit: Marcus Bergström/HX		●							●	
<i>Pachyptila belcheri</i> EN: Slender-billed Prion FR: Prion de Belcher DE: Dünnschnabel-Sturmvogel NO: Smalnebbhvalfugl			●	●							



Wildlife List

Marine Mammals

Photo: Timo Heinz/ HX

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Balaenoptera physalus</i> EN: Fin Whale FR: Rorqual commun DE: Finnwal NO: Finhval 中文: 長須鯨	 Credit: Massimo Demma/Ocean Conservation Society			●							
<i>Balaenoptera borealis</i> EN: Sei Whale FR: Rorqual de Rudolphi DE: Seiwal NO: Seihval 中文: 塞鯨	 Credit: NOAA Fisheries										●
<i>Megaptera novaeangliae</i> EN: Humpback Whale FR: Baleine a bosse DE: Buckelwal NO: Knolhval 中文: 座头鲸	 Credit: Massimo Demma/Ocean Conservation Society	●	●		●	●	●	●	●		
<i>Balaenoptera bonaerensis</i> EN: Antarctic Minke Whale FR: Petit rorqual de l'Antarctique DE: Antarktischer Zwergwal NO: Antarktisk vågehval 中文: 南极小须鲸	 Credit: Andrew Young/Nature in Print				●	●	●	●	●		

SPECIES		February / March 2025									
		26	27	28	1	2	3	4	5	6	7
<i>Leptonychotes weddellii</i> EN: Weddell Seal FR: Phoque de Weddell DE: Weddelrobbe NO: Weddellsel 中文: 韋德爾氏海豹	 Credit: Kay Fochtmann/HX				●	●			●		
<i>Lobodon carcinophaga</i> EN: Crabeater Seal FR: Phoque crabier DE: Krabbenfresser NO: Krabbeetersel 中文: 食蟹海豹/锯齿海豹	 Credit: Martin Johansen/HX				●		●		●		
<i>Hydrurga leptonyx</i> EN: Leopard Seal FR: Léopard de mer DE: Seeleopard NO: Leopardsel 中文: 豹海豹	 Credit: Kay Fochtmann/HX				●		●				
<i>Arctocephalus gazella</i> EN: Antarctic Fur Seal FR: Otarie à fourrure antarctique DE: Antarktischer Seebär NO: Antarktis pelssel 中文: 南极海豹/南极毛皮海豹	 Credit: Kay Fochtmann/HX				●	●		●	●		

FRIEDLAENDER LAB

Bio-telemetry and Behavioral Ecology



Total Whales Sampled this season

43 Humpback Whales

4 Minke Whales

Total Whales flown over 68



**Shaping an Ocean
Of Possibilities**
for science-industry
collaboration



Thanks for participating

THX

