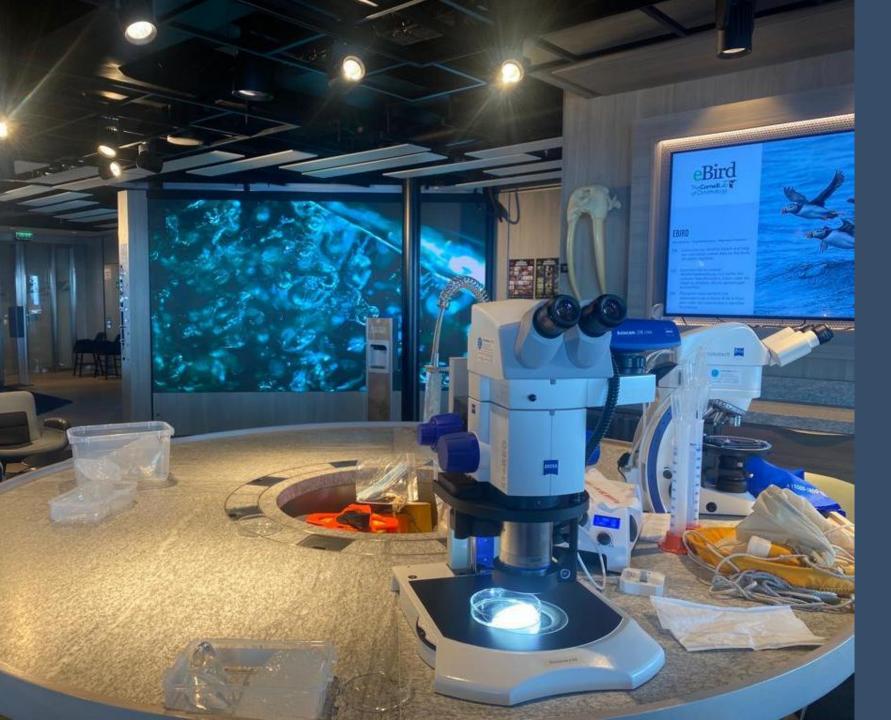


MS Fridtjof Nansen 8 – 18 Mar 2025

Highlights of Antarctica





Science & Education program

During this voyage, we ran **5 citizen science** projects in total: eBird, HappyWhale, INaturalist, Nasa Globe Cloud observer & SecchiDisk 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 by the Durham University samples of the inter-tidal seaweed was collected aswell as snow algea samples.

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

Lectures

Discovery sessions

Citizen Science projects

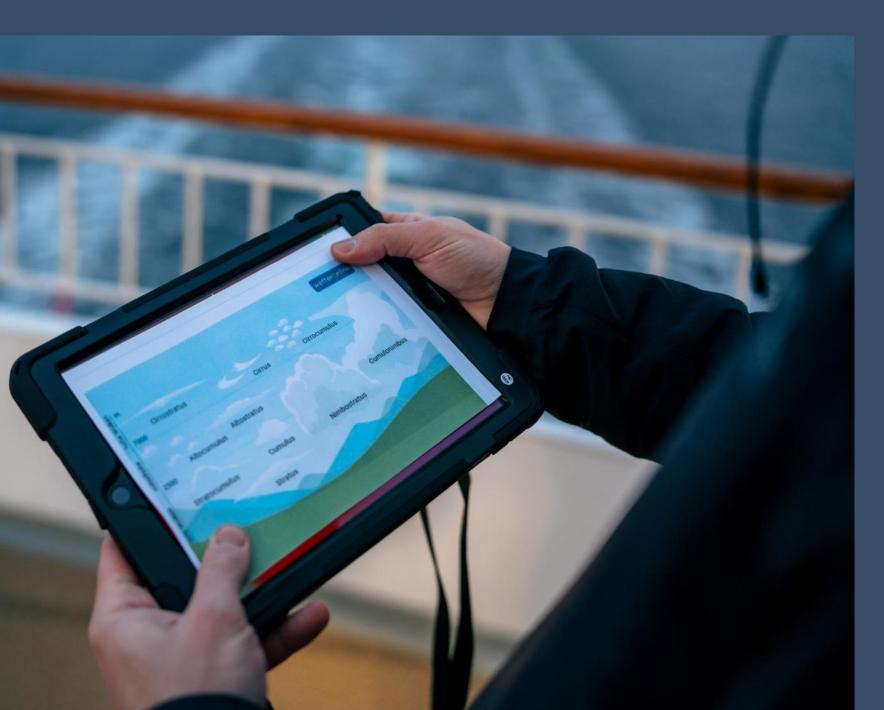
Science boats

Guest Scientist projects



Wildlife Watch

40 Species:10 Mammals30 Birds





NASA Globe observer

On this Highlights of Antarctica Expedition we conducted 2 cloud observations for the Globe Observer NASA program that were matched to satellite flyovers and we submitted a total of 13 observations. We have received 4 Satelitte Matching reports.

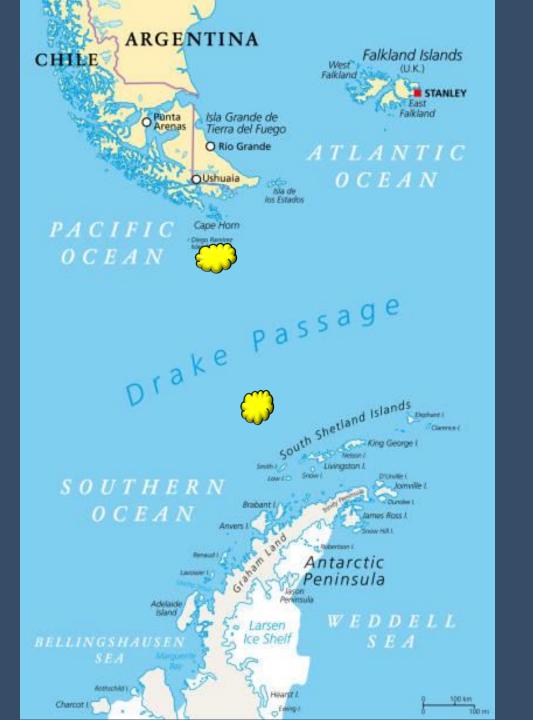
Thank you to the 42 Cloud Observers who participated in the program, and remember you can continue to do this at home!

View our data on the global map

2 Observation Locations recorded

Total Sessions: 2

Total Submissions: 13 Matches Received: 4





Satellite Matching Reports



GLOBE Cloud Observations Paired with NASA Satellite D

Total Satellite Comparisons: 170

Useful Resources: How to Read My NASA GLOBE Clouds Satellite Comparison Table, How to Compare My Cloud C Satellite Data, Cloud Cover, Cloud Type, Cloud Opacity, Satellites

Observation	GLOBE	NOAA-20 Satellite
Universal Date/Time	2025-03-10 19:51:00	2025-03-10 19:55
Latitude	-63.65	-64.1 to -63.3
Longitude	-64.89	-65.37 to -64.57
Total Cloud Cover	Overcast (>90%)	Overcast 99.85%
High Clouds	Cirrocumulus Cover: Scattered (25-50%) Opacity: Opaque	Cover: Few (0.57%) Altitude: 6.46 (km) Phase: Ice 234.11 (K) Opacity: Transparent
Mid Clouds		Cover: Overcast 99.28% Altitude: 4.22 (km) Phase: Ice/Water Mix 249.54 (K) Opacity: Opaque
Low Clouds	Stratus Cover: Overcast (>90%) Opacity: Opaque	
GLOBE Cloud Photos and Corresponding NASA Satellite Images. Click image to view> Note: Photos submitted though GLOBE need approval before being displayed, this may take a few days.	West Up Down	Worldview Worldview Tutorial
Sky Conditions,	Sky Conditions Sky Visibility : no report	Are there any comments you would like to add? Be sure to the satellite for our record.



Please register your email address when using the app.

This will ensure you receive satellite matching reports.

eBird

The eBird project

During this voyage, our ornithologists and environmental scientist, did with your help at least **24 surveys** between Ushuaia and the Antarctic Peninsula, recording a total of **30 species**. Some of the highlights were the abundant Wilson's storm-petrel, black-browed albatrosses and southern giant petrels.

Find the trip report for the voyage with the full list of species and checklists here.

We hope you keep eBirding, both around the world and in your backyard



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









About

Leave

Shared observations from guests and Expedition Team onboard MS Fridtjof Nansen during the expedition cruise "Highlights of Antarctica" from 08th of March to 18th of March 2025.

Read More >

Your Membership

Project Members Only

■ Project Journal

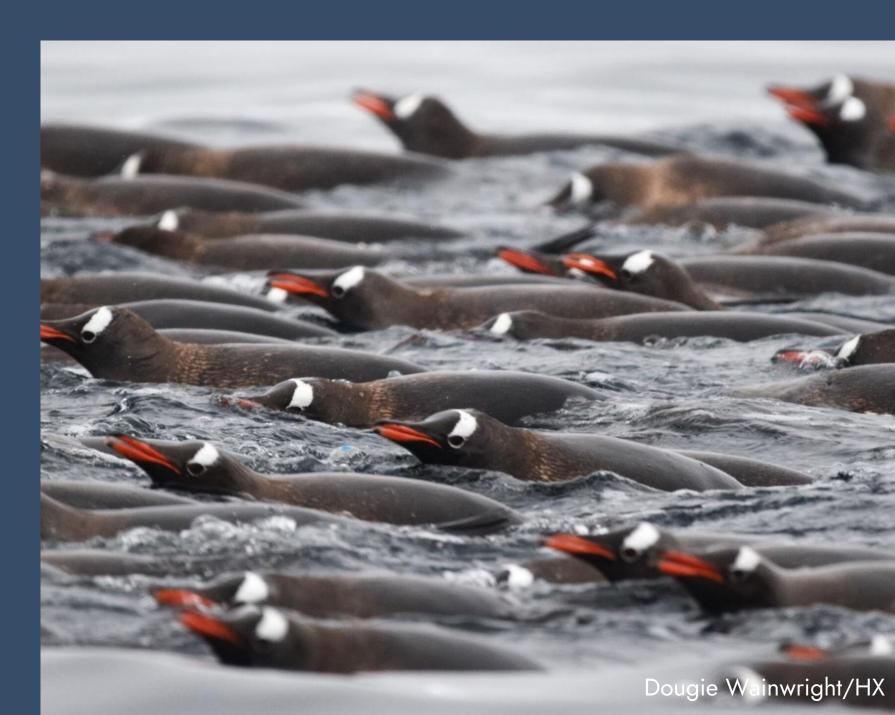


iNaturalist

We submitted around **43 observations** identifying **18 species** of marine mammals and birds. The most observed species were the Gentoo penguin followed by the Antarctic fur seal. There 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 Antarctic species.

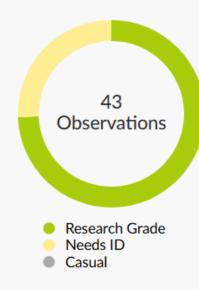
Join our project by searching its code name: 2025_08-03_Antarctica_MS Fridtjof Nansen

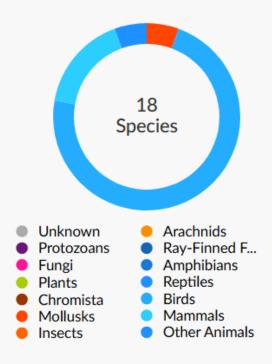
View our data submitted on our <u>iNaturalist</u> <u>project</u>



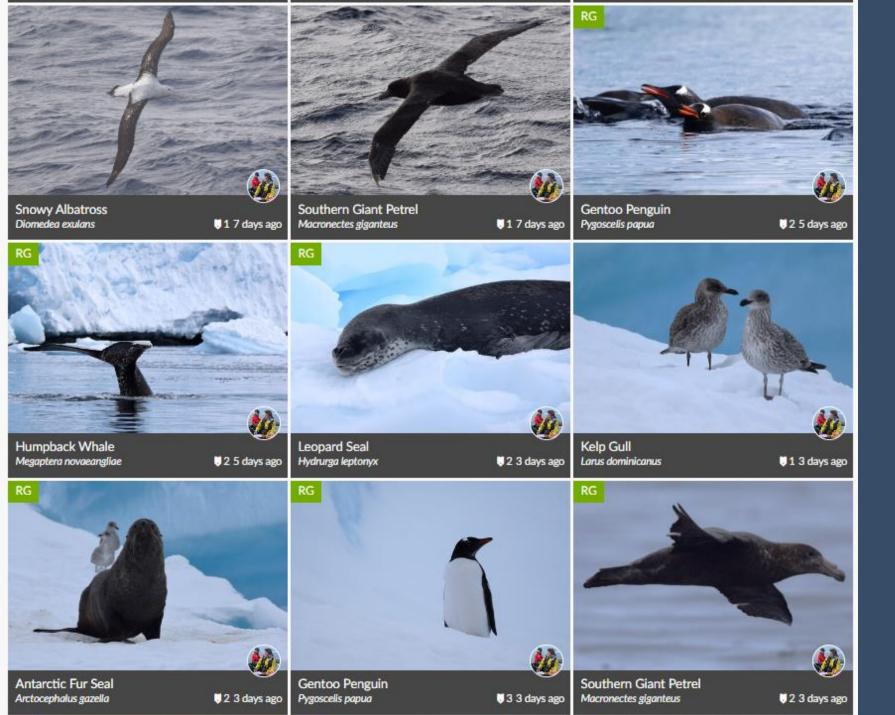


Stats



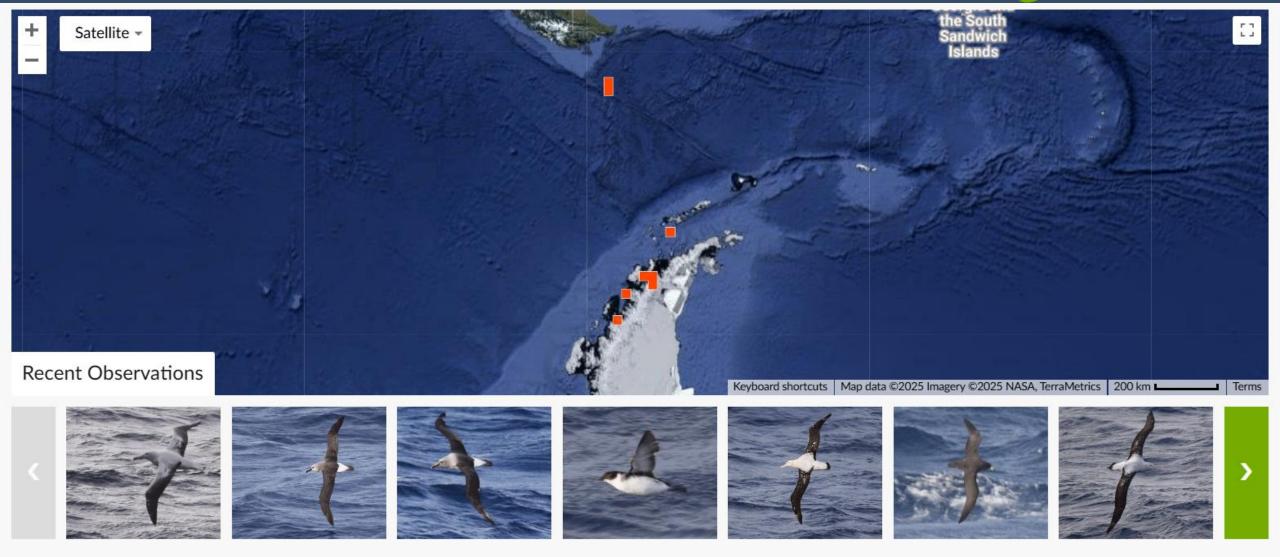








Naturalist





HappyWhale

This voyage was a success in terms of whale sightings. Our marine scientist Lilia, together with the science team, submitted **23 fluke photos** to the platform. One whale was new to Happywhale's data base.

Over 10 other whale submissions had been observed previously.

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

View our data on the global map



HX (Hurtigruten Expeditions) 2027-03-11

Boat: MS Fridtjof Nansen

Thank you, Mr. Robert Gallacher, for generously donating your photo! Your contribution made it possible for this whale to be adopted during this trip, and we truly appreciate your support.

Our trip

Thank you for adopting me!! My new name is Callun Harris





Total Whales Sampled this season

76 Humpback Whales

9 Minke Whales

Total Whales flown over 140



Snow Algae

Snow algae collected from all sites except Whalers Bay

33 filters for DNA research

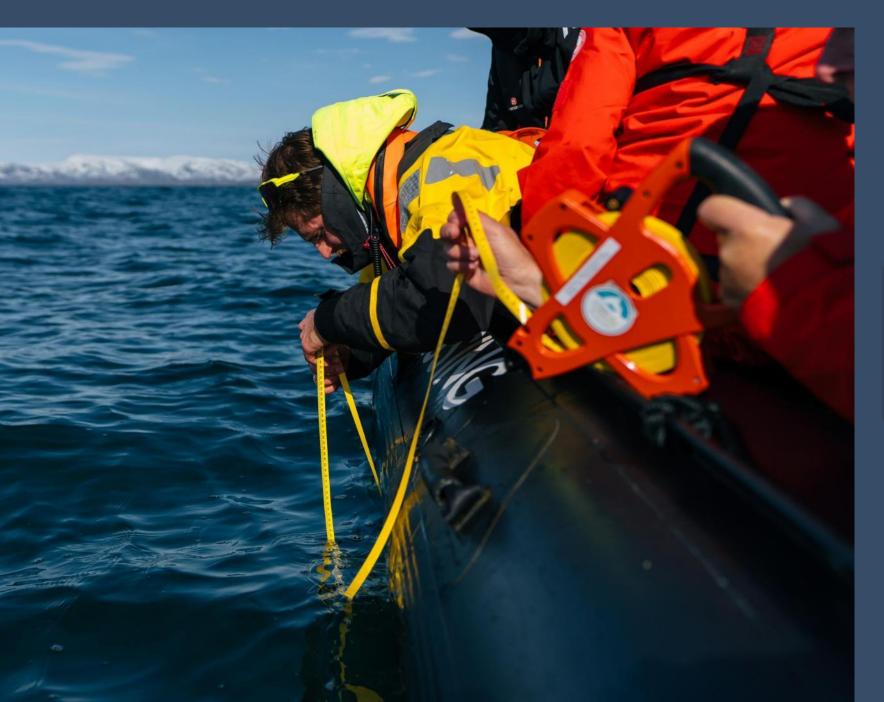
New terrestrial data to compare to the marine algae dataset



What will the data be used for?

- How is carbon and nitrogen cycling around the Peninsula
- How productive are these species?
- What are the seasonal changes from November to March
- Improve the Natural History Museum archive of Antarctic material





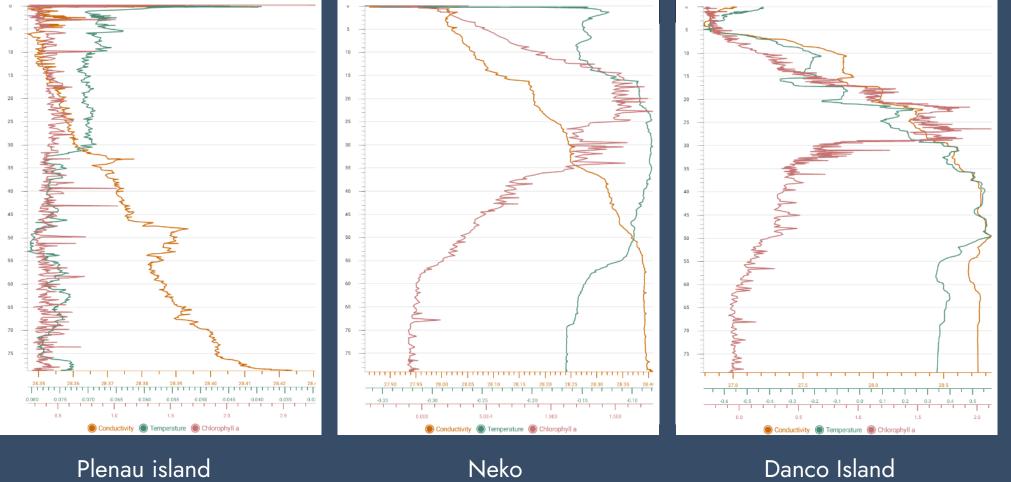
Science Boat

We had 12 science boat sessions during this trip in: Plenau island, Neko, Danco Island, Orne Harbour & Whalers Bay. We performed multiple secchi disk measurements to document the turbidity/clarity of the water and assess the abundance of phytoplankton.

Date	Location	Depth (m)
11.03.25	Plenau Island	17,7
11.03.25	Plenau Island	17.5
14.03.25	Danco Island	12.9

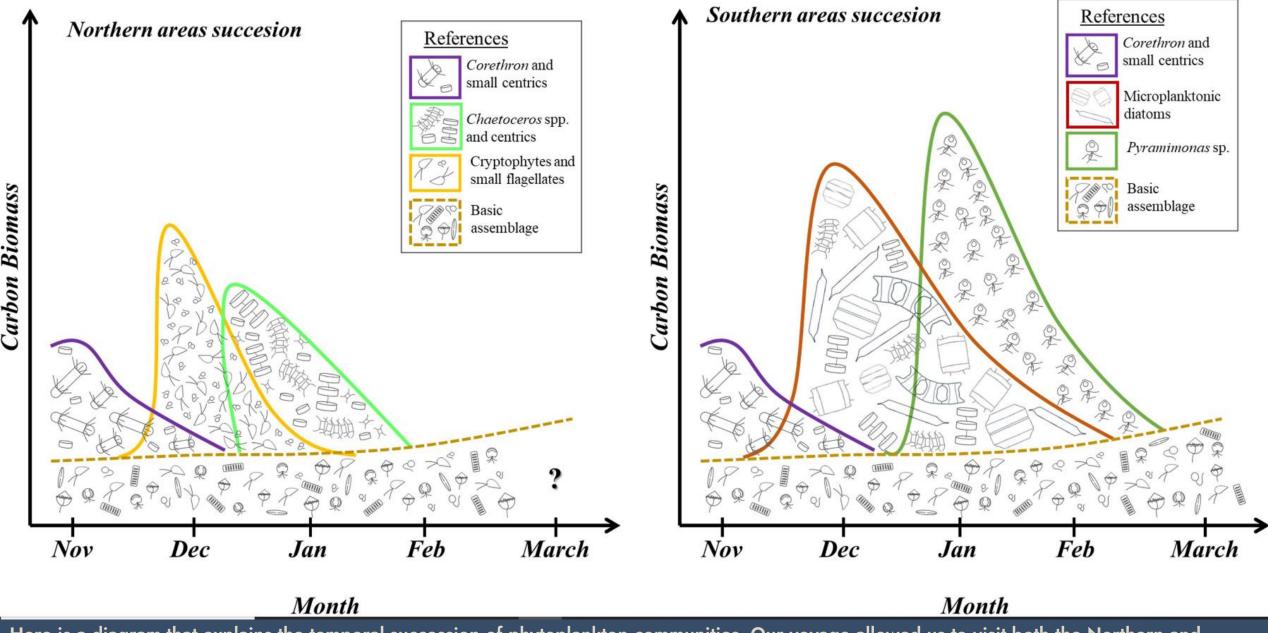


View our data submitted to the Secchi Disk Project





CTD Profiles



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

Species					٨	1arch	202	5			
1831		8	9	10	11	12	13	14	15	16	17
Pygoscelis papua 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				•	•	•	•	•		
Pygoscelis adeliae EN: Adelie Penguin FR: Manchot d'Adélie DE: Adeliepinguin NO: Adeliepingvin 中文: 阿德利企鹅	CreditTed Gatlin/HX				•						
Pygoscelis antarcticus 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							•	•		
Spheniscus magellanicus EN: Magellanic Penguin FR: Manchot de Magellan DE: Magellanpinguiin NO: Magellanpingvin 中文: 南美企鹅/麦哲伦企鹅	Credit: Kim Remark/HX										•

Leucocarbo bransfildensis EN: Antarctic (Blue-eyed) Shag FR: Cormoran antarctique DE: Antarktisscharbe NO: Antarktisskarv 中文: 南极鸬鹚	Credit: Martin Hain/HX			•	•	•	•	•	
Leucocarbo atriceps EN: Imperial Shag FR: Cormoran impérial DE: Kaiserscharbe NO: Knoppskarv 中文: 蓝眼鸬鹚	Credit: Caliponte/Wikipedia	•							•
Leucocarbo magellanicus EN: Rock Shag FR: Cormoran de Magellan DE: Felsenscharbe NOR: Magellanskarv 中文: 岩鸬鹚	Credit Liam Quinn/Wikipedia	•							•
Stercorarius antarcticus EN: Subantarctic Brown Skua FR: Labbe antarctique DE: Subantarktikskua NO: Sørhavsjo 中文: 棕贼鸥	Credit: Ted Gatlin/HX						•	•	
Stercorarius maccormicki EN: South-Polar Skua FR: Labbe de McCormick DE: Antarktikskua NO: Sørjo 中文: 南极贼鸥/麦氏贼鸥	Credit: Kay Fochtmann/HX			•	•	•	•		

Stercorarius chilensis EN: Chilean Skua FR: Labbe du Chili DE: Chileskua NO: Kaneljo 中文: 智利贼鸥	Credit: Arthur Chapman/Wikipedia	•						•
Larus dominicanus EN: Kelp Gull FR: Goéland dominicain DE: Dominikanermöwe NO: Taremåke 中文: 黑背鸥	Credit: Kay Fochtmann/HX	•	•	•	•	•	•	•
Sterna vittata EN: Antarctic Tern FR: Sterne couronnée DE: Antarktikseeschwalbe NO: Sørhavsterne 中文: 南极燕鸥	Credit: Ted Garlin/HX			•	•	•	•	
Sterna hirundinacea EN: South American Tern FR: Sterne hirundinacée DE: Falklandseeschwalbe NO: Svaleterne 中文: 南美燕鸥	Credit: Dfaulder/Wikicommons	•						•
Chionis albus EN: Snowy Sheathbill FR: Chionis blanc DE: Weißgesicht-Scheidenschnabel NO: Antarktisslirenebb 中文: 白鞘嘴鸥	Credit: Kay Fochtmann/HX					•		

Diomedea epomophora EN: Southern Royal Albatross FR: Albatros royal DE: Königsalbatros NO: Kongealbatross 中文: 南方皇家信天翁	Credit: Marcus Bargström/HX
Diomedea exulans EN: Snowy Albatross FR: Albatros hurleur DE: Wanderalbatros NO: Vandrealbatross 中文: 漂泊信天翁	Credit: Marcus Bergström/HX
Thalassarche chrysostoma EN: Grey-headed Albatross FR: Albatros à tête grise DE: Graukopfalbatros NO: Gråhodealbatross 中文: 灰头信天翁	Credit: Marcus Bargström/HX
Thalassarche melanophris EN: Black-browed Albatross FR: Albatros à sourcils noirs DE: Schwarzbrauenalbatros NO: Svartbrynalbatross 中文: 黑眉信天翁	Credit: Marcus Bergström/HX
Phoebetria palpebrata EN: Light-mantled Albatross FR: Albatros fuligineux DE: Graumantelalbatros NO: Gråalbatross 中文: 灰背信天翁	Credit: Kay Fochtmann/HX

Macronectes giganteus EN: Southern Giant Petrel FR: Pétrel géant DE: Riesensturmvogel NO: Sørkjempepetrell 中文: 南方巨鹱	Credit: Kay Fochtmann & Ted Gatlin/HX	•	•	•	•	•	•	•	•		•
Fulmarus glacialoides EN: Southern Fulmar FR: Fulmar argenté DE: Silbersturmvogel NO: Sørhavhest 中文: 银灰暴风鹱				•							
Daption capense EN: Cape Petrel (Pintado Petrel) FR: Damier du Cap DE: Kapsturmvogel NO: Flekkpetrell 中文: 花斑鸌	Credit: Júlia Finger/HX			•							
Procellaria aequinoctialis EN: White-chinned Petrel FR: Puffin à menton blanc DE: Weißkinn-Sturmvogel NO: Hvithakepetrell 中文: 白颏风鹱	Credit: Marcus Bergström/HX		•								•
Pterodroma mollis EN: Soft-plumaged Petrel FR: Pétrel soyeux DE: Weichfeder-Sturmvogel NO: Silkepetrell 中文: 柔羽圆尾鹱	Credit: Marcus Bergström/HX		•							•	

Species		March									
		8	9	10	11	12	13	14	15	16	17
Ardenna grisea EN: Sooty Shearwater FR: Puffin fuligineux DE: Dunkelsturmtaucher NO: Grålire 中文: 灰鹱	Credit: Liam Ragan/BoW		•	•							•
Pachyptila desolata EN: Antarctic Prion FR: Prion de la Désolation DE: Taubensturmvogel NO: Antarktishvalfugl 中文: 鸽锯鹱	Credit: Marcus Bergström/HX			•							
Pachyptila belcheri EN: Slender-billed Prion FR: Prion de Belcher DE: Dünnschnabel-Sturmvogel NO: Smalnebbhvalfugl 中文: 细嘴锯鹱	Credit: Marcus Bergström/HX		•								
Pagodroma nivea EN: Snow Petrel FR: Pétrel des neiges DE: Schneesturmvogel NO: Snøpetrell 中文: 雪鹱	Credit: Marcus Bergström/HX			•			•				

Oceanites oceanicus EN: Wilson's Storm-petrel FR: Océanite de Wilson DE: Buntfuß-Sturmschwalbe NO: Wilsonstormsvale 中文: 黃蹼洋海燕	Credit: Marcus Bergström/HX	•	•	•	•	•	•	•	•
Fregetta tropica EN: Black-bellied Storm-petrel FR: Océanite à ventre noir DE: Schwarzbauch-Sturmschwalbe NO: Svartbukstormsvale 中文: 黑腹舰海燕	Credit: Marcus Bergström/HX		•						
Chloephaga picta EN: Upland Goose FR: Ouette de Magellan DE: Magellangans NO: Sebragås 中文: 斑胁草雁									•



CETACEANS - WHALES & DOLPHINS

Species		March									
		8	9	10	11	12	13	14	15	16	17
Megaptera novaeangliae EN: Humpback Whale FR: Baleine a bosse DE: Buckelwal NO: Knolhval 中文: 座头鯨	Credit: Massimo Demma/Ocean Conservation Society				•	•	•	•	•		
Balaenoptera bonaerensis EN: Antarctic Minke Whale FR: Petit rorqual de l'Antarctique DE: Antarktischer Zwergwal NO: Antarktisk vågehval 中文: 南极小须鲸	Credit: SEAMMO (Sea Mammal Monitoring Organisation)				•						
Balaenoptera borealis EN: Sei Whale FR: Rorqual de Rudolphi DE: Seiwal NO: Seihval 中文: 塞鯨	ACAA Fahrons Credit: NOAA Fisheries										•
Lagenorhynchus cruciger EN: Hourglass dolphin FR: Lagénorhynque sablier DE: Stundenglasdelfin NO: Timeglassdelfin 中文: 间纹斑纹海豚/沙漏斑纹海豚				•						•	
Lagenorhynchus obscurus EN: Dusky dolphin FR: Lagenorhynque obscur DE: Schwarzdelfin NO: Morkdelfin 中文: 暗色斑纹海豚	Credit: Wikipedia										•

SEALS — TRUE AND EARED SEALS

Carrier		March									
Species		8	9	10	11	12	13	14	15	16	17
Leptonychotes weddellii EN: Weddell Seal FR: Phoque de Weddell DE: Weddelrobbe NO: Weddellsel 中文: 韋德爾氏海豹	Credit: Kay Fochtmann/HX				•	•		•			
Lobodon carcinophaga EN: Crabeater Seal FR: Phoque crabier DE: Krabbenfresser NO: Krabbeetersel 中文: 食蟹海豹/锯齿海豹	Credit: Martin Johansen/HX				•	•					
Hydrurga leptonyx EN: Leopard Seal FR: Léopard de mer DE: Seeleopard NO: Leopardsel 中文: 豹海豹	Credit: Kay Fochtmann/HX				•	•					
Arctocephalus gazella EN: Antarctic Fur Seal FR: Otarie à fourrure antarctique DE: Antarktischer Seebär NO: Antarktis pelssel 中文: 南极海狗/南极毛皮海狮	Credit: Kay Fochtmann/HX				•		•	•	•		
Otaria flavescens EN: South American Sea Lion FR: Lion de mer d'Amérique du Sud DE: Mähnenrobbe NO: Søramerikansk sjøløve 中文: 南海狮	Credit Lilia Gonzalex	•									•

