



Science & Education Report

MS FRAM

MS FRAM 24th October— 15th November 2025

Life Returns — Springtime
Expedition to Antarctica

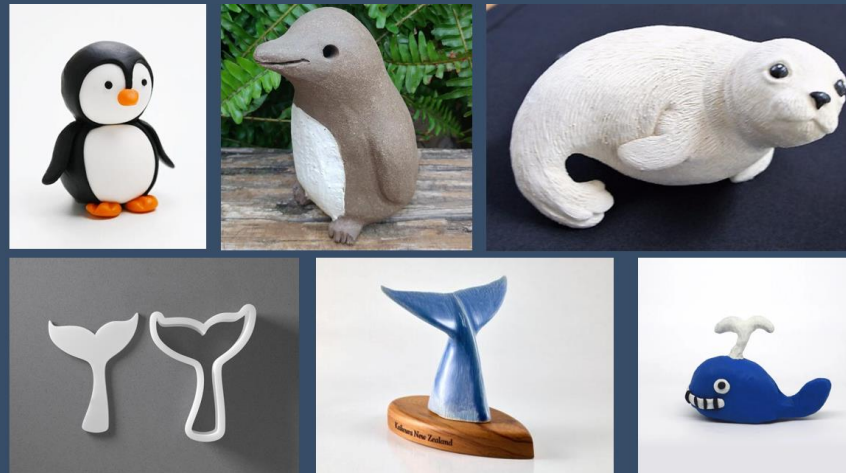
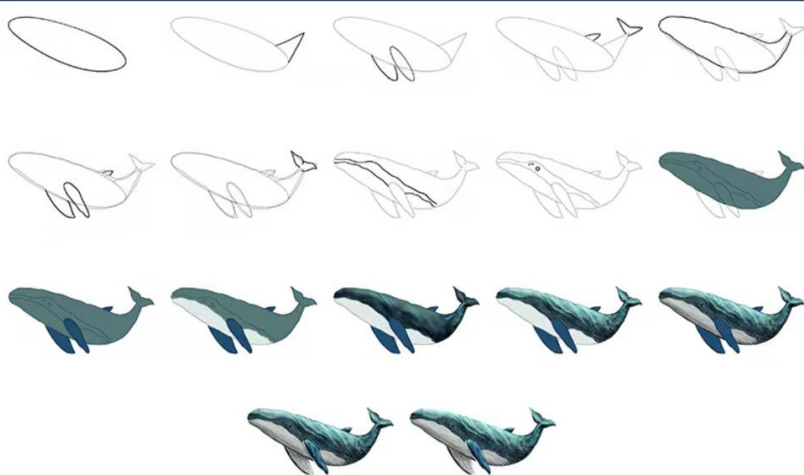
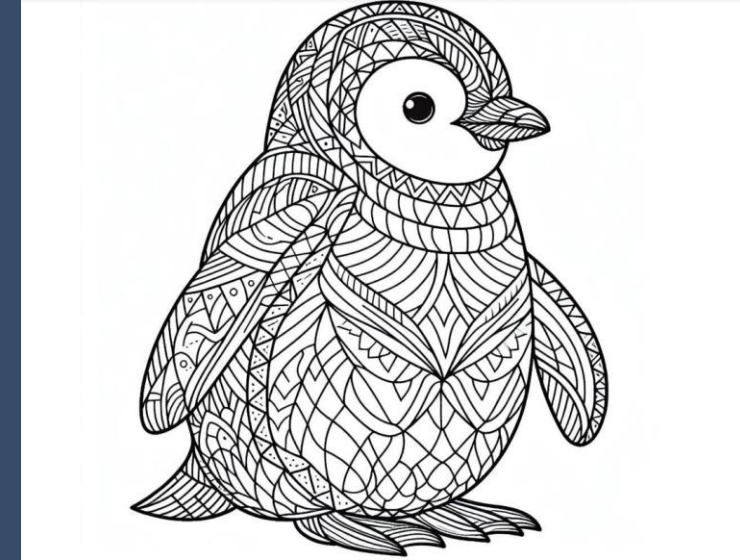


Picture by Vivi Bolin

Art Corner

Days at sea always bring inspiration and serenity while gently sailing through turbid waters.

Hidden talents are revealed under the creative spirits of our historians.

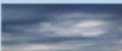
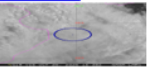




NASA Globe Cloud Observer

We collected 10 observations for NASA using the GLOBE Observer app. Don't hesitate to continue looking at the sky back home, since every contribution helps scientists.

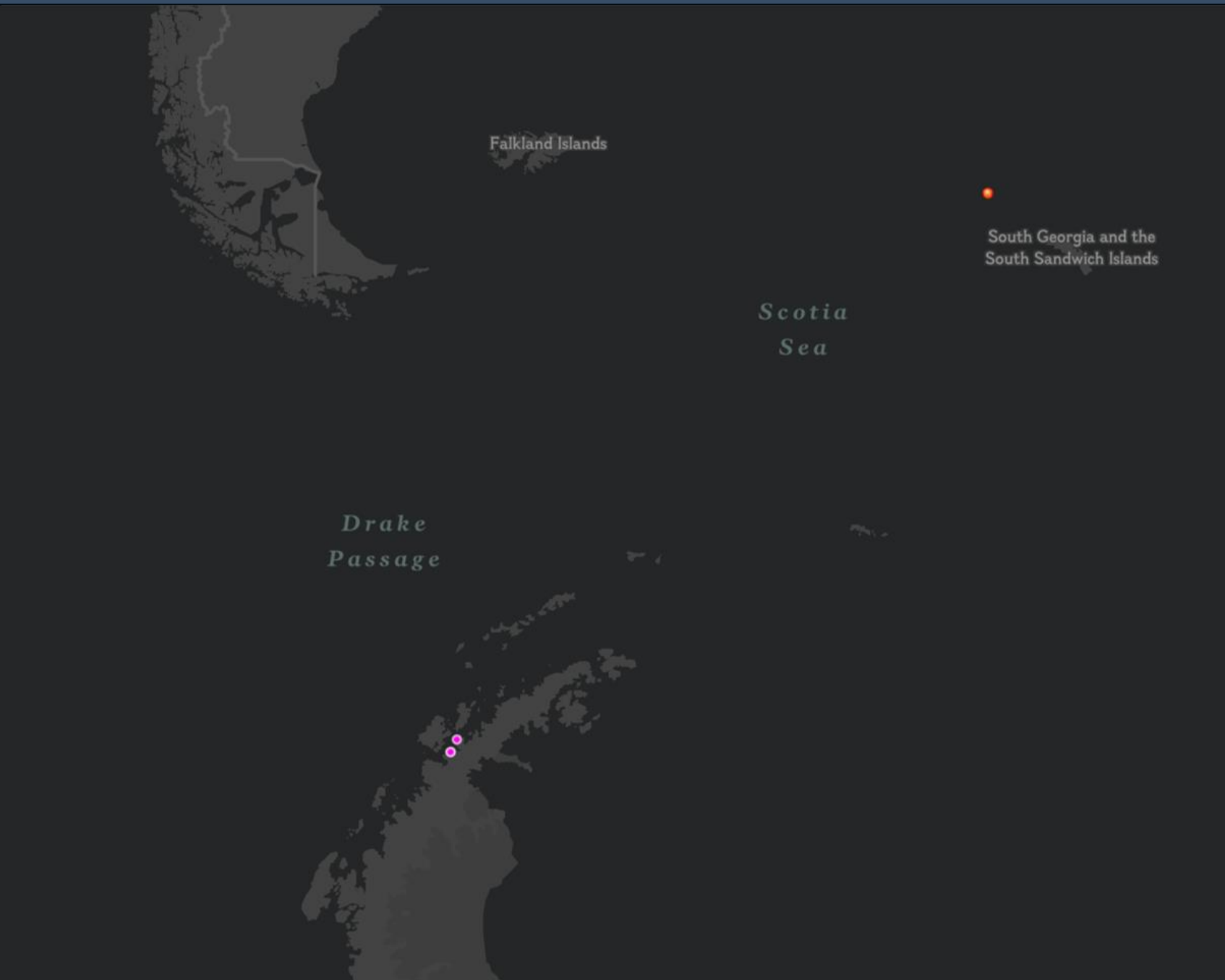
[View our data](#) on the global map

Observation	GLOBE	GOES-19 Satellite	NOAA-20 Satellite
Universal Date/Time	2025-10-25 18:35:00	2025-10-25 18:37	2025-10-25 18:28
Latitude	-36.64	-36.96 to -36.32	-37.05 to -36.25
Longitude	-56.1	-56.42 to -55.78	-56.56 to -55.76
Total Cloud Cover	Overcast (>90%) 	Overcast 100.00% 	Overcast 100.00% 
High Clouds		Cover: Scattered 46.59%  Altitude: 6.35 (km) Phase: Ice/Water Mix 256.85 (K) Opacity: Opaque	Cover: Broken 77.78%  Altitude: 6.41 (km) Phase: Ice/Water Mix 254.1 (K) Opacity: Opaque
Mid Clouds		Cover: Broken 53.41%  Altitude: 5.73 (km) Phase: Water 258.45 (K) Opacity: Opaque	Cover: Isolated 22.22%  Altitude: 5.78 (km) Phase: Ice/Water Mix 258.37 (K) Opacity: Opaque
Low Clouds	 Stratus Cover: Overcast (>90%)  Opacity: Opaque		
GLOBE Cloud Photos and Corresponding NASA Satellite Images		GOES-19 Visible  Infrared 	VIIRS NOAA-20 Worldview  Worldview Tutorial

NASA Globe Cloud Observer

Some of these observations were matched to satellites. This table shows how our observation from the ground compared to the satellite’s observation from above.

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



Thermal Imaging project

MS Fram is on a mission to collect thermal images of ice in the isolated locations we visit.

We collected 6 thermal images of different icebergs at 3 different locations during our voyage, for example at iceberg A23A and in Brown Station, Antarctica.

[View our data](#) on the thermal image map



Science Boat and Fjordphyto

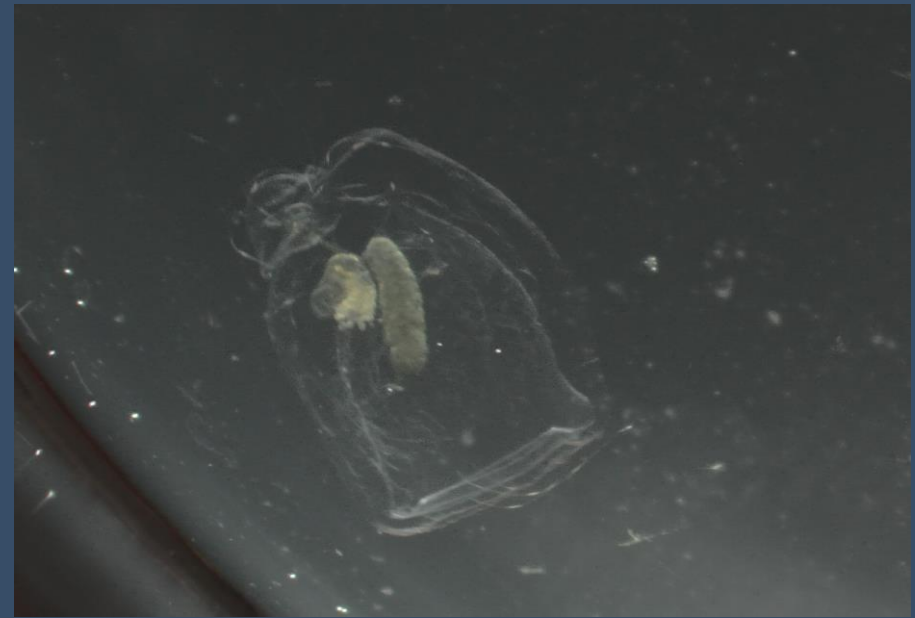
On our voyage we conducted 5 Science Boats during which we collected Secchi disc measurements, CTD data, plankton samples, and hydrophone recordings.

We also collected samples for the citizen science project FjordPhyto in 2 different locations in Antarctica. To learn more about FjordPhyto, [please click here.](#)

[Click here to visit the Secchi Disc Project and view our Secchi data.](#)



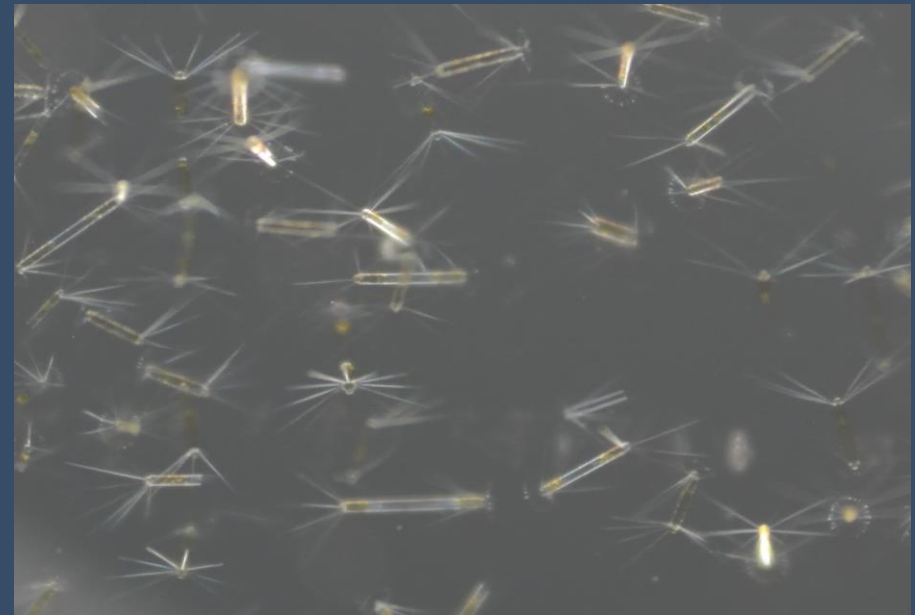
Echinoderm larvae



Jellyfish



Copepod



Corethron diatoms (silica based phytoplankton).



GENTOO PENGUIN

Temperature: 3.0 °C

Heading: 294 °

Camera: -17 °

Underwater drone

We explored the underwater world of Antarctica in Halfmoon Island. We managed to capture a Weddell seal and a curious gentoo penguin.

[Click here to visit our YouTube channel to see the drone video from your voyage.](#)



iNaturalist

Thanks to your efforts, we collected
84 observations for iNaturalist.

[View our iNaturalist project here.](#)



e-Bird

Your onboard ornithologists completed 47 eBird checklists of 77 different species.

[View our data on our e-Bird trip report](#)

Happywhale



During this voyage we were able to upload three humpback whale fluke photos, many photos of the type B orcas sighted, and photos that show the Arnoux's beaked whale sighting. Time will tell if we receive any match or new individual confirmation for the humpbacks or orcas.



Jenna Silk



landrein Yves



Jenna Silk



Jenna Silk



Jenna Silk



Jenna Silk

Make sure to upload any other fluke pictures you may have when home, especially old photos from past encounters (the older the better!) and a big thank you to all of you that uploaded some of these pictures. You can also upload photos of seals with spots or individualised scarring!

[View our submissions to Happywhale](#)



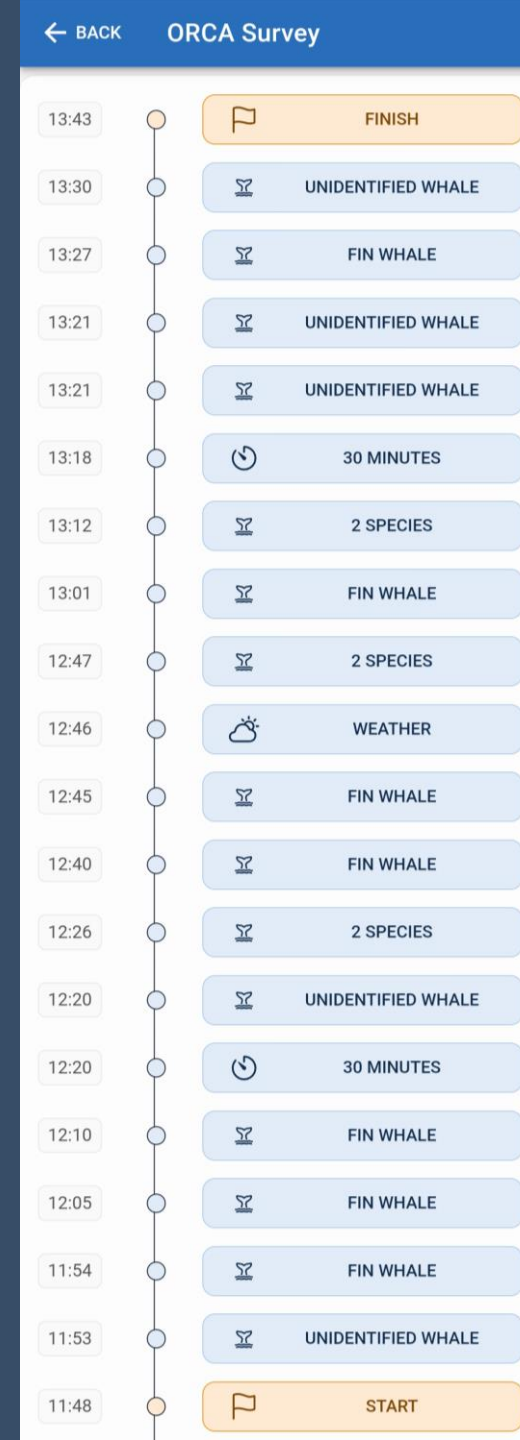
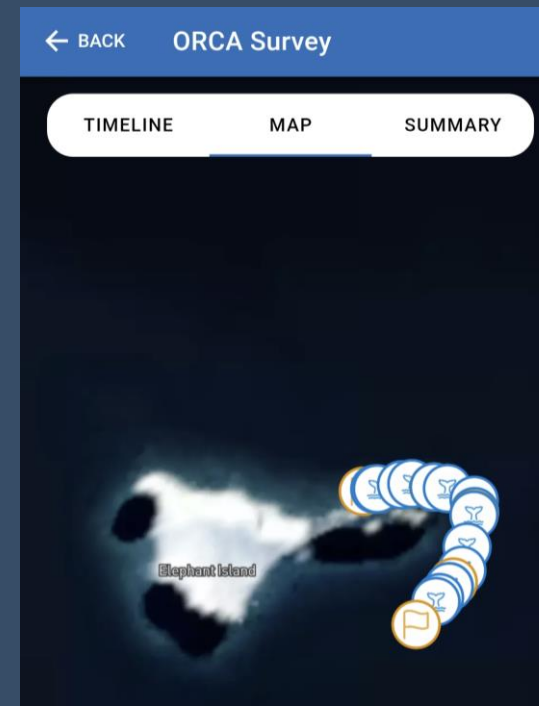
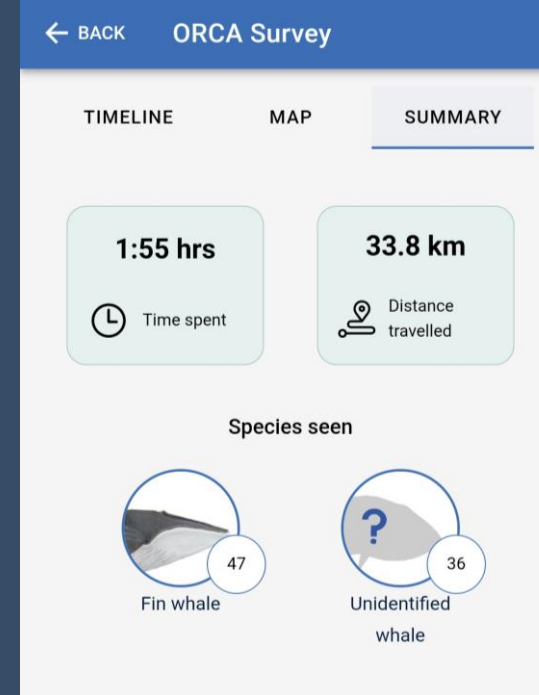
OceanWatchers surveys

During our data collection surveys we have recorded...

- **Across a distance of 715.3km**
- **For 35hrs 24min total surveying duration**
- **63 unidentified whales (blows)**
- **53 fin whales**
- **15 humpback whales**
- 3 southern right whales
- 5 orcas/killer whales
- 6 southern bottlenose whales
- 3 South American fur seals
- 8 Antarctic fur seals
- 4 unidentified cetaceans
- 1 unidentified beaked whale
- 1 unidentified dolphin

We have of course seen more than this, but these were the sightings during our dedicated effort data collection surveys using the ORCA OceanWatchers app.

Click the link above to discover how you too can collect this data from land and sea.



Wildlife List - Marine Mammals



Wildlife List – marine mammals



SCIENTIFIC NAME	ENGLISH	DEUTSCH
<i>Balaenoptera borealis</i>	Sei whale	Seiwal
<i>Balaenoptera musculus</i>	Blue whale	Blauwal
<i>Balaenoptera physalus</i>	Fin whale	Finnwal
<i>Megaptera novaeangliae</i>	Humpback whale	Buckelwal
<i>Orcinus orca</i>	Killer whale, orca	Schwertwal, Orca
<i>Eubalaena australis</i>	Southern right whale	Südkaper
<i>Balaenoptera bonaerensis</i>	Antarctic minke whale	Südlicher Zwergwal
<i>Cephalorhynchus commersonii</i>	Commerson's dolphin	Commerson-Delfin
<i>Lagenorhynchus cruciger</i>	Hourglass dolphin	Stundenglasdelfin
<i>Berardius arnuxii</i>	Arnoux's beaked whale	Südlicher Schwarzwal
<i>Hyperoodon planifrons</i>	Southern bottlenose whale	Südlicher Entenwal
	Unidentified whale	
	Unidentified dolphin	
<i>Ziphiidae sp.</i>	Unidentified beaked whale	

SCIENTIFIC NAME	ENGLISH	DEUTSCH
<i>Arctocephalus australis</i>	South American fur seal	Südamerikanischer Seebär
<i>Arctocephalus gazella</i>	Antarctic fur seal	Antartischer Seebär
<i>Otaria byronia</i>	South American sea lion	Mähnenrobbe
<i>Hydrurga leptonyx</i>	Leopard seal	Seeleopard
<i>Leptonychotes weddellii</i>	Weddell seal	Weddelrobbe
<i>Lobodon carcinophaga</i>	Crabeater seal	Krabbenfresser
<i>Mirounga leonina</i>	Southern elephant seal	Südlicher See-Elefant

Wildlife List - Birds



Wildlife List – Seabirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Eudyptes chrysolophus</i>	Macaroni Penguin	Goldschopfpinguin	Gorfou doré	Gulltoppingvin
<i>Spheniscus magellanicus</i>	Magellanic Penguin	Magellanpinguin	Manchot de Magellan	Magellanpingvin
<i>Pygoscelis adeliae</i>	Adelie Penguin	Adeliepinguin	Manchot d'Adélie	Adeliepingvin
<i>Pygoscelis antarcticus</i>	Chinstrap Penguin	Kehlstreifpinguin	Manchot à jugulaire	Ringpingvin
<i>Oceanites oceanicus</i>	Wilson's Storm Petrel	Buntfuß-Sturmschwalbe	Océanite de Wilson	Wilsonstormsvale
<i>Garrodia nereis</i>	Gray-backed Storm Petrel	Graurücken-Sturmschwalbe	Océanite néréide	Gråryggstormsvale
<i>Fregetta tropica</i>	Black-bellied Storm Petrel	Schwarzbauch-Sturmschwalbe	Océanite à ventre noir	Svartbukstormsvale
<i>Diomedea exulans</i>	Wandering (snowy) Albatross	Wanderalbatros	Albatros hurleur	Vandrealbatross
<i>Thalassarche chlororhynchos</i>	Atlantic Yellow-nosed Albatross	Atlantik-Gelbnasenalbatros	Albatros à nez jaune	Gulnesealbatross
<i>Phoebetria palpebrata</i>	Light-mantled Albatross	Graumantelalbatros	Albatros fuligineux	Gråalbatross
<i>Thalassarche melanophris</i>	Black-browed Albatross	Schwarzbrauenalbatros	Albatros à sourcils noirs	Svartbrynalbatross
<i>Diomedea epomophora</i>	Southern Royal Albatross	Südkönigsalbatros	Albatros royal	Kongealbatross
<i>Diomedea sanfordi</i>	Northern Royal Albatross	Nordkönigsalbatros	Albatros de Sanford	Svartvingealbatross
<i>Thalassarche chrysostoma</i>	Grey-headed Albatross	Graukopfalbatros	Albatros à tête grise	Gråhodealbatross
<i>Pterodroma incerta</i>	Atlantic Petrel	Schlegelsturmvmogel	Pétrel de Schlegel	Hvitbukpetrell

Wildlife List — Seabirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Pagodroma nivea</i>	Snow Petrel	Schneesturmvogel	Pétrel des neiges	Snøpetrell
<i>Aphrodroma brevirostris</i>	Kerguelen Petrel	Kerguelensturmvogel	Pétrel des Kerguelen	Sølvvingepetrell
<i>Daption capense</i>	Cape Petrel	Kapsturmvogel	Damier du Cap	Flekkpetrell
<i>Thalassoica antarctica</i>	Antarctic Petrel	Antarktiksturmvogel	Pétrel antarctique	Antarktispetrell
<i>Halobaena caerulea</i>	Blue Petrel	Blausturmvogel	Prion bleu	Blåpetrell
<i>Procellaria aequinoctialis</i>	White-chinned Petrel	Weißkinn-Sturmvogel	Puffin à menton blanc	Hvithakepetrell
<i>Ardenna gravis</i>	Great Shearwater	Großer Sturmtaucher	Puffin majeur	Storlire
<i>Ardenna grisea</i>	Sooty Shearwater	Dunkler Sturmtaucher	Puffin fuligineux	Grålire
<i>Pachyptila desolata</i>	Antarctic Prion	Taubensturmvogel	Prion de la Désolation	Antarktishvalfugl
<i>Pelecanoides urinatrix</i>	Common Diving Petrel	Subantarktis-Lummensturmvogel	Puffinure plongeur	Smalnebbdykkpetrell
<i>Pelecanoides georgicus</i>	South Georgia Diving Petrel	Breitschnabel-Lummensturmvogel	Puffinure de Géorgie du Sud	Kortnebbdykkpetrell
<i>Chionis albus</i>	Snowy Sheathbill	Weißgesicht-Scheidenschnabel	Chionis blanc	Antarktisslirenebb
<i>Puffinus puffinus</i>	Manx Shearwater	Atlantiksturmtaucher	Puffin des Anglais	Havlire
<i>Pelecanoides magellani</i>	Magellanic Diving Petrel	Magellan-Lummensturmvogel	Puffinure de Magellan	Magellandykkpetrell

Wildlife List – Waterbirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Tachyeres pteneres</i>	Flightless Steamer Duck	Magellan-Dampfschiffente	Brassemer cendré	Chileskovleand
<i>Tachyeres brachypterus</i>	Falkland Steamer Duck	Falkland-Dampfschiffente	Brassemer des Malouines	Falklandsskovleand
<i>Chloephaga picta</i>	Upland Goose	Magellangans	Ouette de Magellan	Sebragås
<i>Chloephaga hybrida</i>	Kelp Goose	Kelpgans	Ouette marine	Taregås
<i>Chloephaga rubidiceps</i>	Ruddy-headed Goose	Rotkopfgans	Ouette à tête rousse	Brunhodegås
<i>Lophonetta specularioides</i>	Crested Duck	Schopfente	Canard huppé	Duskand
<i>Anas georgica</i>	Yellow-billed Pintail	Spitzschwanzente	Canard à queue pointue	Spisshaleand
<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	Nachtreiher	Bihoreau gris	Natthegre
<i>Phalacrocorax magellanicus</i>	Rock Shag	Felsenscharbe	Cormoran de Magellan	Magellanskarv
<i>Leucocarbo atriceps</i>	Imperial Shag	Kaiserscharbe	Cormoran impérial	Knoppskarv
<i>Leucocarbo georgianus</i>	South Georgia Shag	Südgeorgienscharbe	Cormoran géorgien	Sørgeorgiaskarv
<i>Leucocarbo bransfieldensis</i>	Antarctic Shag	Antarktikscharbe	Cormoran antarctique	Antarktisskarv
<i>Haematopus leucopodus</i>	Magellanic Oystercatcher	Magellanausternfischer	Huître de Garnot	Magellantjeld
<i>Charadrius falklandicus</i>	Two-banded Plover	Falkland-Regenpfeifer	Pluvier des Falkland	Svartbeltelo
<i>Calidris fuscicollis</i>	White-rumped Sandpiper	Weißbürzel-Strandläufer	Bécasseau à croupion blanc	Bonapartesnipe
<i>Leucophaeus scoresbii</i>	Dolphin Gull	Blutschnabelmöwe	Goéland de Scoresby	Magellanmåke
<i>Larus dominicanus</i>	Kelp Gull	Dominikanermöwe	Goéland dominicain	Taremåke

Wildlife List — Waterbirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Bubulcus ibis</i>	Western Cattle Egret	Kuhreiher	Héron garde-boeufs	Kuhegre
<i>Sterna paradisaea</i>	Arctic Tern	Küstenseeschwalbe	Sterne arctique	Rødnebbterne
<i>Sterna vittata</i>	Antarctic Tern	Antarktikseeschwalbe	Sterne couronnée	Sørhavsterne
<i>Sterna hirundinacea</i>	South American Tern	Falklandseeschwalbe	Sterne hirundinacée	Svaleterne
<i>Stercorarius pomarinus</i>	Pomarine Jaeger	Spatelraubmöwe	Labbe pomarin	Polarjo
<i>Stercorarius antarcticus</i>	Brown Skua	Subantarktiskua	Labbe antarctique	Sørhavsjo
<i>Stercorarius chilensis</i>	Chilean Skua	Chileskua	Labbe du Chili	Kaneljo

Wildlife List – Landbirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Cathartes aura</i>	Turkey Vulture	Truthahngeier	Urubu à tête rouge	Kalkunkondor
<i>Geranoaetus polyosoma</i>	Variable Hawk	Rotrückenbussard	Buse tricolore	Andesvåk
<i>Phalcoboenus australis</i>	Striated Caracara	Falklandkarakara	Caracara austral	Brungumpkarakara
<i>Cinclodes antarcticus</i>	Blackish Cinclodes	Falkland-Uferwipper	Cinclode fuligineux	Sotbergkall
<i>Muscisaxicola maclovianus</i>	Dark-faced Ground Tyrant	Maskengrundtyrann	Dormilon bistré	Magellanmarktyrann
<i>Tachycineta leucopyga</i>	Chilean Swallow	Chileschwalbe	Hirondelle du Chili	Patagoniasvale
<i>Hirundo rustica</i>	Barn Swallow	Rauchschwalbe	Hirondelle rustique	Låvesvale
<i>Turdus falcklandii</i>	Austral thrush	Magellandrossel	Merle austral	Umbratrost
<i>Passer domesticus</i>	House Sparrow	Hausesperling	Moineau domestique	Gråspurv
<i>Anthus correndera</i>	Correndera Pipit	Correnderapieper	Pipit correndera	Correnderapiplerke
<i>Spinus barbatus</i>	Black-chinned Siskin	Bartzeisig	Tarin à menton noir	Sørsisik
<i>Leistes loyca</i>	Long-tailed Meadowlark	Langschwanzstärling	Sturnelle australe	Storlkeretrupial
<i>Melanodera melanodera</i>	White-bridled Finch	Weißbart-Ammertangare	Mélanodère à sourcils blancs	Gulvingespurv

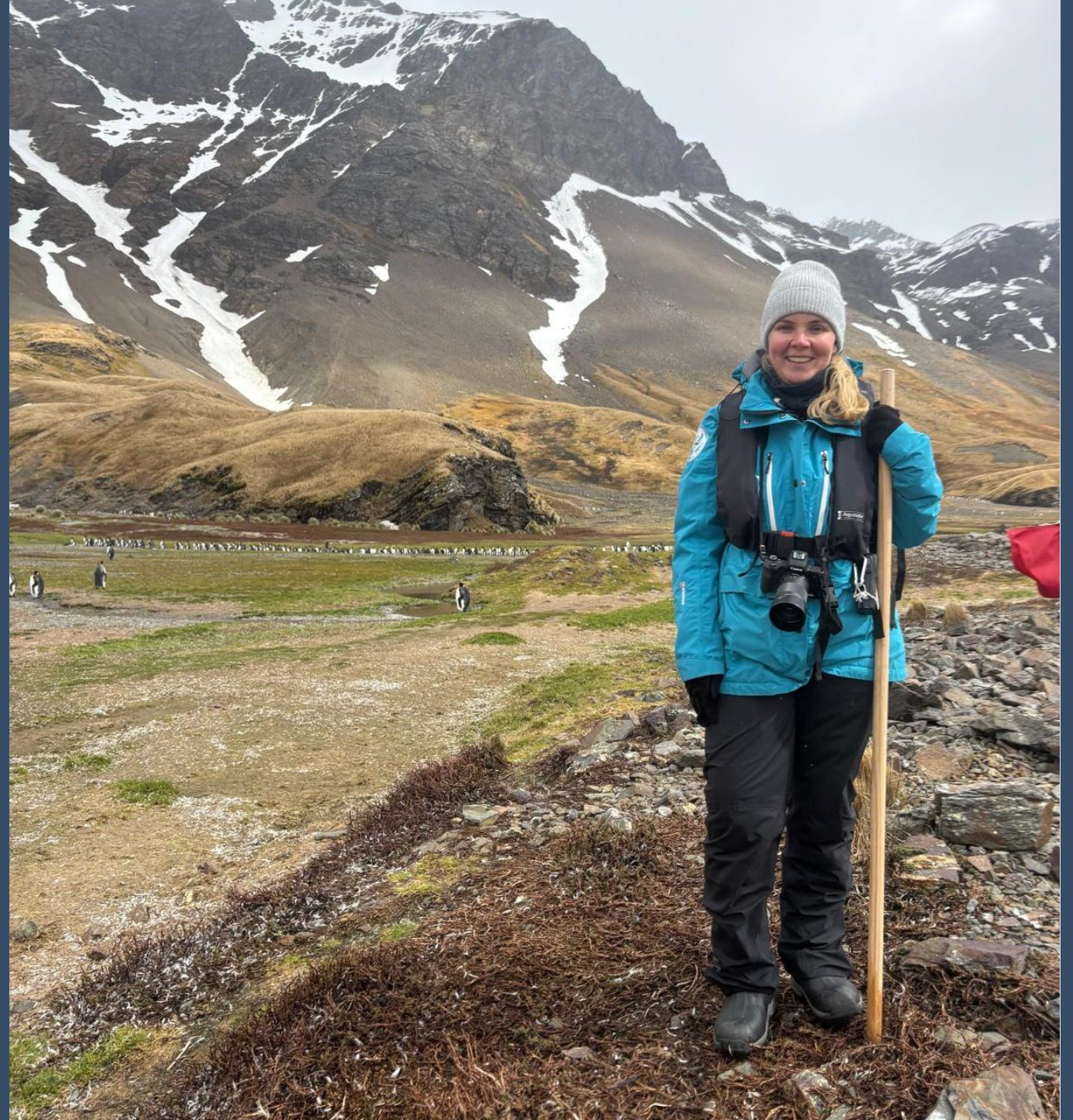
Wildlife List — Landbirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Tyrannus savana</i>	Fork-tailed flycatcher	Gabelschwanz-Königstyrann	Tyrann des savanes	Gaffeltyrann
<i>Agelaioides badius</i>	Grayish baywing	Graustärling	Carouge à ailes baies	Brunvingettrupial
<i>Leistes superciliaris</i>	White-browed meadowlark	Weißbrauenstärling	Sturnelle à sourcils blancs	Hvitbrynlerketrupial
<i>Pseudoleistes virescens</i>	Brown and yellow marshbird	Drachenstärling	Carouge dragon	Brungumtrupial
<i>Gallinago magellanica</i>	Magellanic snipe	Magellanbekassine	Bécassine de Magellan	Patagoniabekkasin
<i>Campephilus magellanicus</i>	Magellanic woodpecker	Magellanspecht	Pic de Magellan	Magellanspett
<i>Zonotrichia capensis</i>	Rufous-collared Sparrow	Morgenammer	Bruant chingolo	Rustkragespurv

Guest scientist

We had the privilege of hosting Anisja Obermann from Wageningen University in the Netherlands onboard this trip. Anisja is studying environmental stewardship in Antarctic tourism operations and the implementation of industry guidelines. She conducted 20 interviews onboard, filled a whole notebook with observation notes, and joined the Expedition Team in almost all operations to gain first-hand experience.

[Visit the ANTARC-SHIP website to find out more about her project.](#)





IX

Connect with your
inner scientist