



Science & Education Report

MS FRAM

MS FRAM 1st – 22nd December 2024

In-Depth Antarctica, Falklands
and South Georgia Expedition

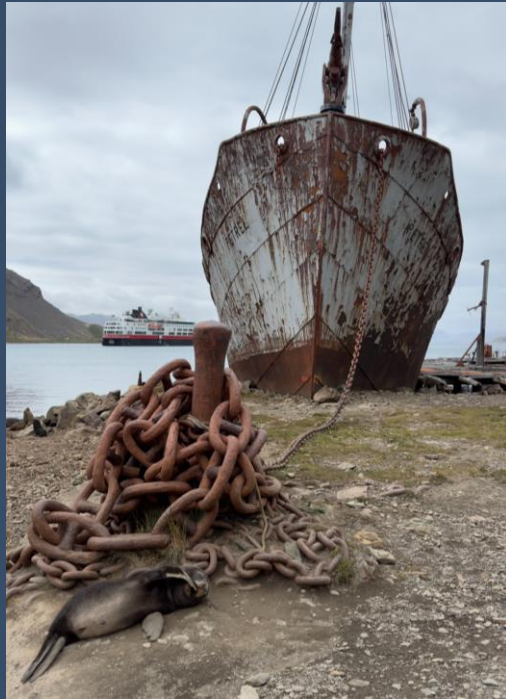


Picture by Vivi Bolin

Storytelling



Visiting Shackleton's grave with our historians.



Exploring Grytviken and learning about it's history.



Hearing about the Story of the Cobb's Wren on Carcass Island, Falkland Islands.

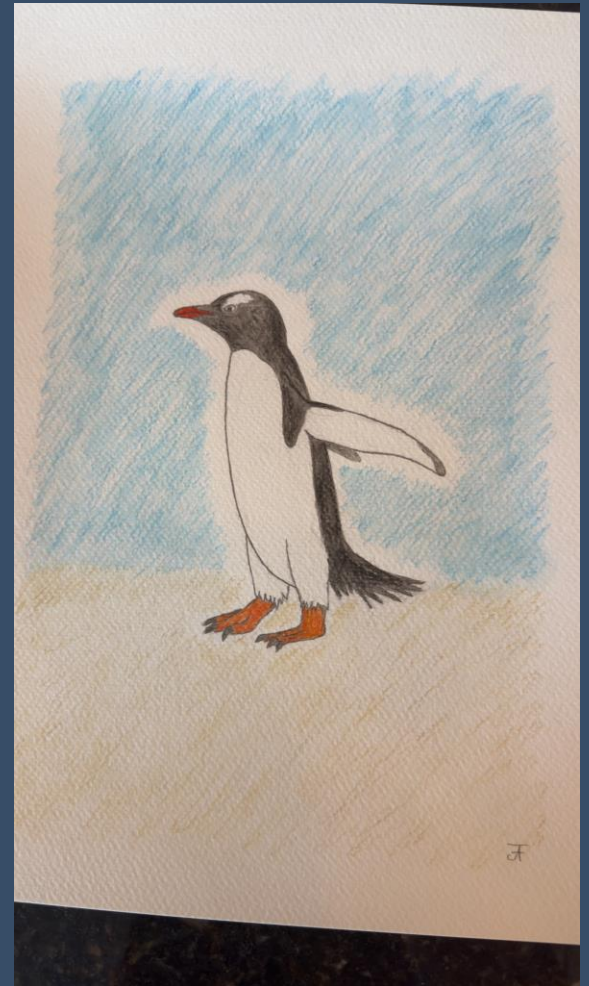


Listening to the story of Mrs. Chippy.

Art Corner

Days at sea always bring inspiration and serenity while gently sailing through turbid waters. Hidden talents are revealed with the help of the creative spirits of our historians.





Knit & Natter





NASA Globe Cloud Observer

Together with Laura, you collected 4 observations of clouds for the citizen science project of NASA.

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



Copepod zooplankton.

Science Boat

On our voyage we conducted 12 Science Boats during which we collected Secchi disc measurements, plankton samples, and hydrophone recordings.

[Click here to view the Secchi data on Google Earth.](#)

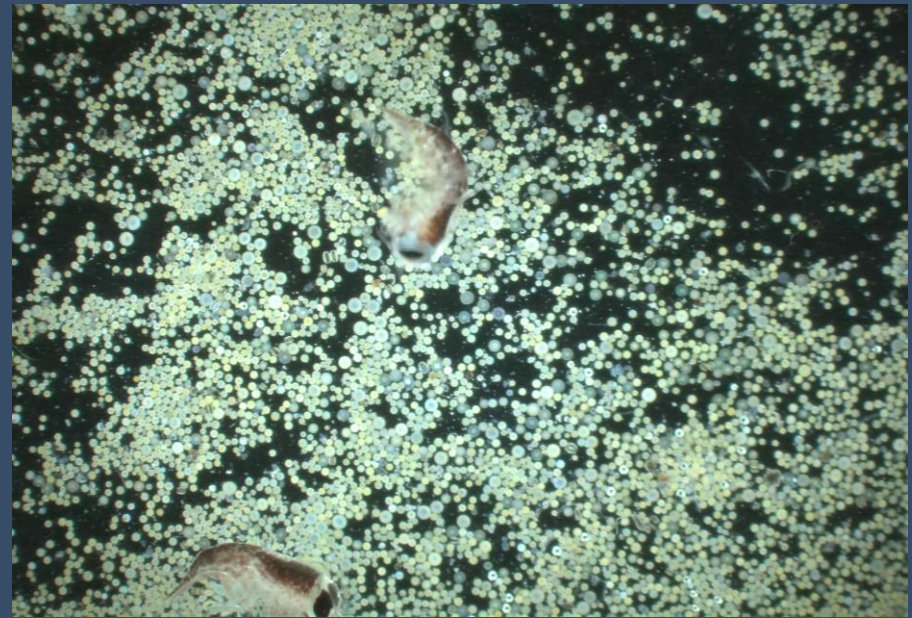
[Click here to visit the Secchi Disc Project.](#)



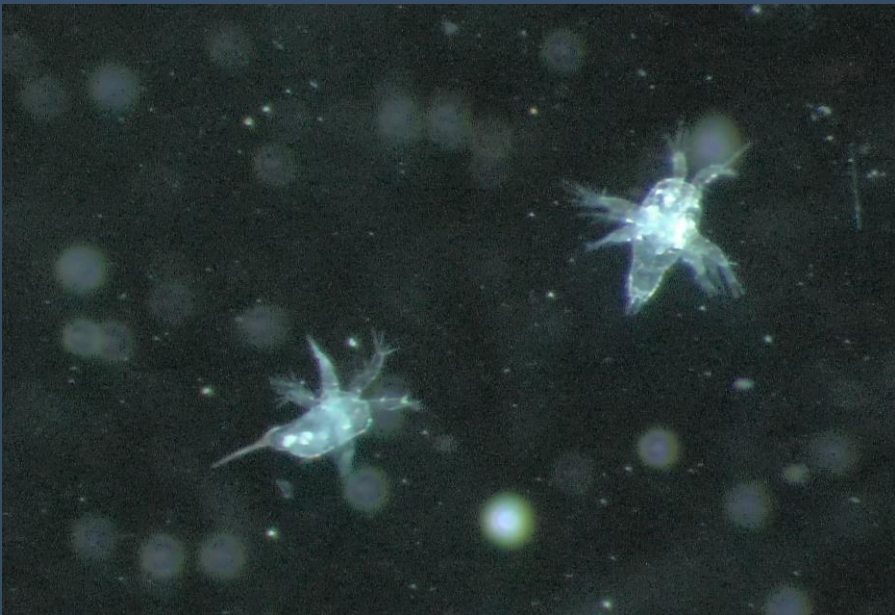
Pictures from Science Boat by Vivi Bolin.



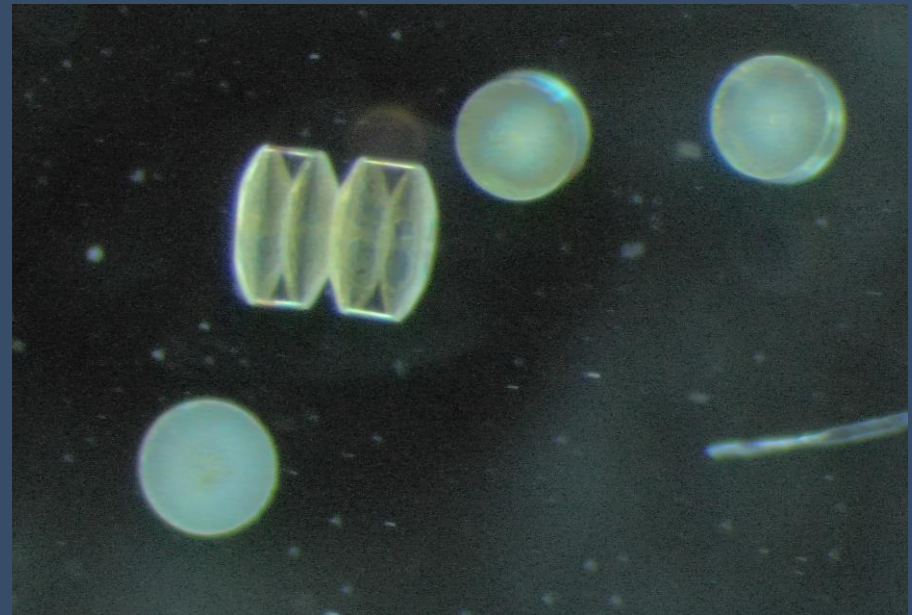
Amphipod zooplankton.



Amphipods and diatoms (a type of phytoplankton).



Copepod (a type of crustacean) naupilus larvae.



Diatoms (a type of phytoplankton).



Underwater drone

We used our underwater Blueye drone to capture footage of the gentoo penguins feeding underwater at Danco Island. To view the video, please visit our Youtube channel: <https://www.youtube.com/@HXUnderwaterDroneFootage>

Happywhale

An enormous number of whales were seen this voyage, unusual for this early in the season. As such, we were able to submit 13 identifiable flukes of humpback whales! Many of which are new individuals that have never before been recorded. Make sure to upload any other fluke pictures you may have when home, especially old photos (the older the better!).



[View our submissions to Happywhale](#)

One fluke submitted by a guest from our pod of >70 whales on approach to Shag Rocks was matched to one previous sighting in 2015 off the coast of Brazil! This completes the known migration route between breeding and feeding grounds for this whale.



Still known as HW-MN0701375



[Unnamed]
ID HW-MN0701375
SEX Unknown
Humpback Whale

Sightings: 2

First:  2015-08-30
Bahia, Brazil

Last:  2024-12-07
South Georgia and the South
Sandwich Islands

Followers
2

Follow



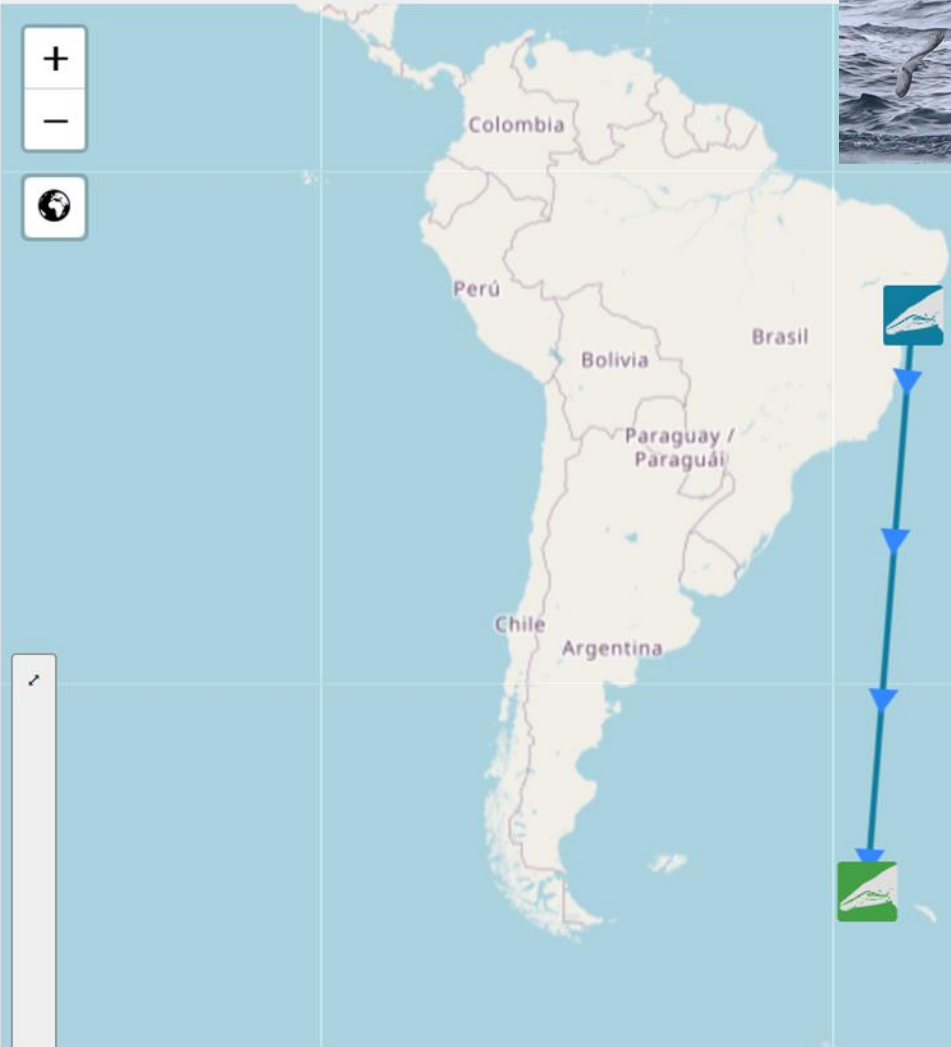
Seen this individual?

Share Your Experience



Show My Encounters Only

Contributors



Two whales from our Shag Rocks encounter were auctioned for naming, raising €1050 for Happywhale and their associated charities. One was named Kelsey after a guest's daughter, and the other EllaMadeleine after a guest's granddaughters.

You can follow the progress of these whales by following them on Happywhale.

Kelsey

(previously known as
HW-MN0701711)



EllaMadeleine

(previously known as
HW-MN0701710)



Wildlife List - Birds



Picture of light-mantled
albatross by Vivi Bolin

Wildlife List — Seabirds

SCIENTIFIC NAME		ENGLISH	DEUTSCH	FRANÇAIS
<i>Aptenodytes patagonicus</i>		King Penguin	Königspinguin	Manchot royal
<i>Pygoscelis papua</i>		Gentoo Penguin	Eselspinguin	Manchot papou
<i>Eudyptes chrysocome</i>		Southern Rockhopper Penguin	Südfelsenpinguin	Gorfou sauteur
<i>Eudyptes chrysolophus</i>		Macaroni Penguin	Goldschopfpinguin	Gorfou doré
<i>Spheniscus magellanicus</i>		Magellanic Penguin	Magellanpinguin	Manchot de Magellan
<i>Pygoscelis adeliae</i>		Adelie Penguin	Adeliepinguin	Manchot d’Adélie
<i>Pygoscelis antarcticus</i>		Chinstrap Penguin	Kehlstreifpinguin	Manchot à jugulaire
<i>Oceanites oceanicus</i>		Wilson's Storm Petrel	Buntfuß-Sturmschwalbe	Océanite de Wilson
<i>Fregetta tropica</i>		Black-bellied Storm Petrel	Schwarzbauch-Sturmschwalbe	Océanite à ventre noir
<i>Diomedea exulans</i>		Wandering (snowy) Albatross	Wanderalbatros	Albatros hurleur
<i>Phoebastria palpebrata</i>		Light-mantled Albatross	Graumantelalbatros	Albatros fuligineux
<i>Thalassarche melanophris</i>		Black-browed Albatross	Schwarzbrauenalbatros	Albatros à sourcils noirs
<i>Diomedea epomophora</i>		Southern Royal Albatross	Südkönigsalbatros	Albatros royal
<i>Diomedea sanfordi</i>		Northern Royal Albatross	Nordkönigsalbatros	Albatros de Sanford
<i>Thalassarche chrysostoma</i>		Grey-headed Albatross	Graukopfalbatros	Albatros à tête grise
<i>Macronectes giganteus</i>		Southern Giant Petrel	Riesensturmvogel	Pétrel géant
<i>Macronectes halli</i>		Northern Giant Petrel	Hallsturmvogel	Pétrel de Hall
<i>Fulmarus glacialis</i>		Southern Fulmar	Silbersturmvogel	Fulmar argenté
<i>Pagodroma nivea</i>		Snow Petrel	Schneesturmvogel	Pétrel des neiges
<i>Halobaena caerulea</i>		Blue Petrel	Blausturmvogel	Prion bleu
<i>Pachyptila desolata</i>		Antarctic Prion	Taubensturmvogel	Prion de la Désolation
<i>Procellaria cinerea</i>		Grey Petrel	Grausturmvogel	Puffin gris
<i>Daption capense</i>		Cape Petrel	Kapsturmvogel	Damier du Cap
<i>Pachyptila belcheri</i>		Slender-billed Prion	Dünnschnabel-Sturmvogel	Prion de Belcher
<i>Procellaria aequinoctialis</i>		White-chinned Petrel	Weißkinn-Sturmvogel	Puffin à menton blanc
<i>Ardenna gravis</i>		Great Shearwater	Großer Sturmtaucher	Puffin majeur
<i>Ardenna grisea</i>		Sooty Shearwater	Dunkler Sturmtaucher	Puffin fuligineux
<i>Pelecanoides urinatrix</i>		Common Diving Petrel	Subantarktis-Lummensturmvogel	Puffinure plongeur
<i>Chionis albus</i>		Snowy Sheathbill	Weißgesicht-Scheidenschnabel	Chionis blanc
<i>Puffinus puffinus</i>		Manx Shearwater	Atlantiksturmtaucher	Puffin des Anglais
Generas <i>Pachyptila</i> and <i>Halobaena</i>		Prion species		

Wildlife List — Waterbirds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS
<i>Tachyeres pteneres</i>	Flightless Steamer Duck	Magellan-Dampfschiffente	Brassemer cendré
<i>Tachyeres brachypterus</i>	Falkland Steamer Duck	Falkland-Dampfschiffente	Brassemer des Malouines
<i>Chloephaga picta</i>	Upland Goose	Magellangans	Ouette de Magellan
<i>Chloephaga hybrida</i>	Kelp Goose	Kelpgans	Ouette marine
<i>Chloephaga rubidiceps</i>	Ruddy-headed Goose	Rotkopfgans	Ouette à tête rousse
<i>Lophonetta specularioides</i>	Crested Duck	Schopfente	Canard huppé
<i>Anas georgica spinicauda</i>	Yellow-billed Pintail	Spitzschwanzente	Canard à queue pointue
<i>Nycticorax nycticorax</i>	Black-crowned Night Heron	Nachtreiher	Bihoreau gris
<i>Phalacrocorax magellanicus</i>	Rock Shag	Felsenscharbe	Cormoran de Magellan
<i>Leucocarbo atriceps</i>	Imperial Shag	Kaiserscharbe	Cormoran impérial
<i>Haematopus leucopodus</i>	Magellanic Oystercatcher	Magellanausternfischer	Huîtrier de Garnot
<i>Haematopus ater</i>	Blackish Oystercatcher	Südamerikanischer Austernfischer	Huîtrier noir
<i>Charadrius falklandicus</i>	Two-banded Plover	Falkland-Regenpfeifer	Pluvier des Falkland
<i>Charadrius modestus</i>	Rufous-chested Plover	Rotbrust-Regenpfeifer	Pluvier de d'Urville
<i>Numenius phaeopus</i>	Whimbrel	Regenbrachvogel	Courlis corlieu
<i>Chroicocephalus maculipennis</i>	Brown-hooded Gull	Patagonienmöwe	Mouette de Patagonie
<i>Leucophaeus scoresbii</i>	Dolphin Gull	Blutschnabelmöwe	Goéland de Scoresby
<i>Larus dominicanus</i>	Kelp Gull	Dominikanermöwe	Goéland dominicain
<i>Sterna hirundinacea</i>	South American Tern	Falklandseeschwalbe	Sterne hirundinacée
<i>Leucocarbo georgianus</i>	South Georgia Shag	Südgeorgienscharbe	Cormoran géorgien
<i>Sterna vittata</i>	Antarctic Tern	Antarktikseeschwalbe	Sterne couronnée
<i>Stercorarius maccormicki</i>	South Polar Skua	Antarktiskua	Labbe de McCormick
<i>Stercorarius antarcticus</i>	Brown Skua	Subantarktiskua	Labbe antarctique
<i>Leucocarbo bransfieldensis</i>	Antarctic Shag	Antarktikscharbe	Cormoran antarctique
<i>Sterna hirundinacea</i>	South American Tern	Falklandseeschwalbe	Sterne hirundinacée
<i>Sterna vittata</i>	Antarctic Tern	Antarktikseeschwalbe	Sterne couronnée
<i>Stercorarius chilensis</i>	Chilean Skua	Chileskua	Labbe du Chili
<i>Anas georgica georgica</i>	South Georgia Pintail	Spitzschwanzente	Canard à queue pointue

Wildlife List — Land birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS
<i>Cathartes aura</i>	Turkey Vulture	Truthahngeier	Urubu à tête rouge
<i>Geranoaetus polyosoma</i>	Variable Hawk	Rotrückenbussard	Buse tricolore
<i>Phalcoboenus australis</i>	Striated Caracara	Falklandkarakara	Caracara austral
<i>Caracara plancus</i>	Southern Crested Caracara	Schopfkarakara	Caracara huppé
<i>Cinclodes antarcticus</i>	Blackish Cinclodes	Falkland-Uferwipper	Cinclode fuligineux
<i>Muscisaxicola maclovianus</i>	Dark-faced Ground Tyrant	Maskengrundtyrann	Dormilon bistré
<i>Troglodytes cobbi</i>	Cobb's Wren	Falklandzaunkönig	Troglodyte de Cobb
<i>Turdus falcklandii</i>	Austral Thrush	Magellandrossel	Merle austral
<i>Passer domesticus</i>	House Sparrow	Hausesperling	Moineau domestique
<i>Anthus correndera</i>	Correndera Pipit	Correnderapieper	Pipit correndera
<i>Spinus barbatus</i>	Black-chinned Siskin	Bartzeisig	Tarin à menton noir
<i>Leistes loyca</i>	Long-tailed Meadowlark	Langschwanzstärling	Sturnelle australe
<i>Melanodera melanodera</i>	White-bridled Finch	Weißbart-Ammertangare	Mélanodère à sourcils blancs
<i>Anthus antarcticus</i>	South Georgia Pipit	Riesenpieper	Pipit antarctique
<i>Cathartes aura</i>	Turkey Vulture	Truthahngeier	Urubu à tête rouge
<i>Geranoaetus polyosoma</i>	Variable Hawk	Rotrückenbussard	Buse tricolore
<i>Phalcoboenus australis</i>	Striated Caracara	Falklandkarakara	Caracara austral
<i>Caracara plancus</i>	Southern Crested Caracara	Schopfkarakara	Caracara huppé
<i>Cinclodes antarcticus</i>	Blackish Cinclodes	Falkland-Uferwipper	Cinclode fuligineux
<i>Muscisaxicola maclovianus</i>	Dark-faced Ground Tyrant	Maskengrundtyrann	Dormilon bistré
<i>Troglodytes cobbi</i>	Cobb's Wren	Falklandzaunkönig	Troglodyte de Cobb
<i>Turdus falcklandii</i>	Austral Thrush	Magellandrossel	Merle austral
<i>Passer domesticus</i>	House Sparrow	Hausesperling	Moineau domestique
<i>Anthus correndera</i>	Correndera Pipit	Correnderapieper	Pipit correndera
<i>Spinus barbatus</i>	Black-chinned Siskin	Bartzeisig	Tarin à menton noir
<i>Leistes loyca</i>	Long-tailed Meadowlark	Langschwanzstärling	Sturnelle australe
<i>Melanodera melanodera</i>	White-bridled Finch	Weißbart-Ammertangare	Mélanodère à sourcils blancs
<i>Anthus antarcticus</i>	South Georgia Pipit	Riesenpieper	Pipit antarctique

Wildlife List — Marine Mammals



Picture of humpback
whales by Vivi Bolin

Wildlife List – Mammals



SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS
<i>Balaenoptera borealis</i>	Sei whale	Seiwal	Rorqual de Rudolphi
<i>Balaenoptera physalus</i>	Fin whale	Finnwal	Rorqual commun
<i>Megaptera novaeangliae</i>	Humpback whale	Buckelwal	Baleine à bosse
<i>Orcinus orca</i>	Killer whale, orca	Schwertwal, Orca	Orque
<i>Balaenoptera bonaerensis</i>	Antarctic minke whale	Südlicher Zwergwal	Rorqual à museau pointu de l'Antarctique
<i>Cephalorhynchus commersonii</i>	Commerson's dolphin	Commerson-Delfin	Céphalorhynque de Commerson
<i>Lagenorhynchus australis</i>	Peale's dolphin	Peale-Delfin	Lagénorhynque de Peale
<i>Arctocephalus australis</i>	South American fur seal	Südamerikanischer Seebär	Otarie à fourrure australe
<i>Arctocephalus gazella</i>	Antarctic fur seal	Antartischer Seebär	Otarie à fourrure antarctique
<i>Otaria byronia</i>	South American sea lion	Mähnenrobbe	Lion de mer d'Amérique du Sud
<i>Hydrurga leptonyx</i>	Leopard seal	Seeleopard	Léopard de mer
<i>Leptonychotes weddellii</i>	Weddell seal	Weddelrobbe	Phoque de Weddell
<i>Lobodon carcinophaga</i>	Crabeater seal	Krabbenfresser	Phoque crabier
<i>Mirounga leonina</i>	Southern elephant seal	Südlicher See-Elefant	Eléphant de mer austral

Guest scientist

We also had the privilege of hosting Rebecca Walker and Karen Griffin, volunteer research scientists from ORCA.

Rebecca and Karen have been on board carrying out some exciting whale research, a project that is monitoring recovering large whale populations in the Southern Ocean with a particular focus around South Georgia and the Antarctic Peninsula.

Rebecca and Karen have primarily been collecting data from the bridge of the ship, but have also recorded animals during deck watches. They have counted a total of 420 animals across 186 sightings during their surveys, including fin, humpback and sei whales and Commerson's and Peale's dolphins.



[Visit the ORCA website to find out more.](#)





PENGUIN WATCH GUEST SCIENTISTS

We had the privilege of hosting Tom and Laure from Penguin Watch, Oxford Brookes University on MS Fram. Tom and Laure lead a penguin monitoring research project across the Falklands, South Georgia, South Shetland and the Antarctic Peninsula. They have conducted drone surveys for population counts over 26 colonies (seabirds and seals) at 21 sites during this trip and serviced 4 timelapse cameras that look at penguin behaviours. Their highlights this trip were finding a seal monitoring camera that had been lost for 3 years and conducting the first survey since 1999 of Sea Leopard Fjord's king penguin colony. They will need time to analyse the results, and we look forward to hear more about their research.

Visit penguinwatch.org for more information

Donate at www.brookes.ac.uk/alumni-and-supporters/make-a-gift/seabird-penguin-watch





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Connect with your
inner scientist