

MS Fridtjof Nansen

Elemental Iceland – Circular Saga from Reykjavík

24 May 2025 — 31 May 2025





Science & Education Program

From the volcanic beaches of the south to the glacier-carved fjords of the northwest, the Science and Education Team journeyed with you around Iceland's entire coast, uncovering the wonders of this unique island nation.

Through lectures, hands-on workshops, and cultural experiences ashore—from Heimaey's lava fields to the cliffs of the Westfjords—we explored Iceland's resilient wildlife, rich cultural heritage, and the powerful natural forces that continue to shape its landscapes.

We hope these shared moments—spotting whales off the northern coast, listening to the seabirds of Látrabjarg, or walking through centuries of geological history—have deepened your appreciation for Iceland and sparked a lasting curiosity for the natural world.



Science & Education Program

Aboard HX vessels, we are guests in Iceland's wild and ever-changing landscapes, but through citizen science, you've become part of something bigger. Science is for everyone, happening everywhere, every day, and your participation makes a difference.

By observing wildlife, collecting data, and contributing to global research projects, you've forged a deeper connection with Iceland's ecosystems, from seabird cliffs to volcanic shores.

This journey doesn't end here. You have the tools to keep exploring, documenting, and protecting nature wherever you go. Together, we can turn curiosity into action, fostering a future where people and the planet thrive.

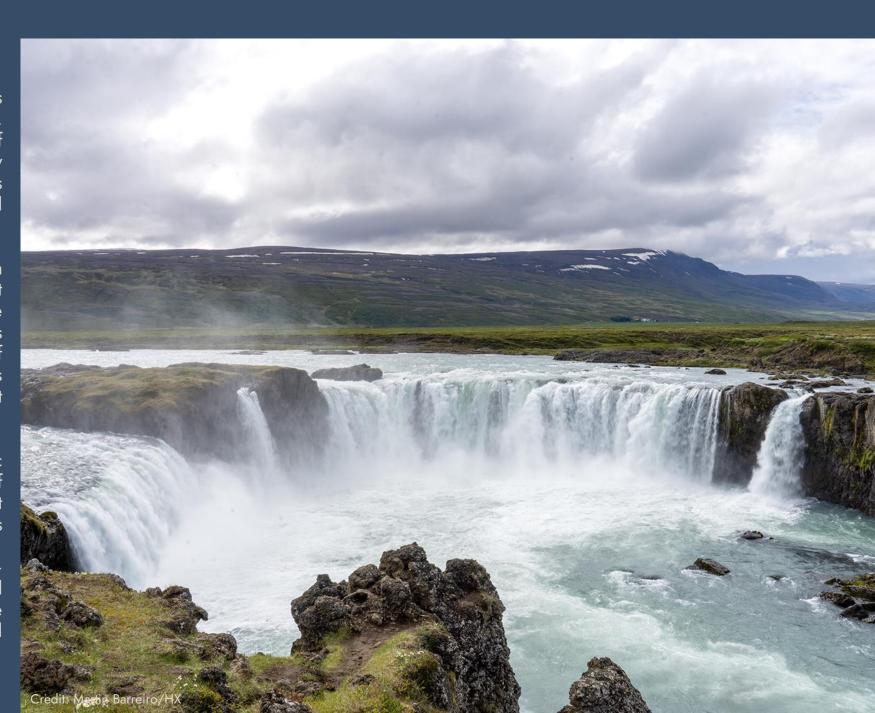
History

Your journey through the north of Iceland has taken you into landscapes shaped by fire, ice, and ancient myths. Standing at the edge of Goðafoss—the "Waterfall of the Gods"—you may have imagined the moment when pagan idols were cast into the falls, a powerful story still carried in the roar of the water.

At Lake Mývatn, you walked among craters, lava formations, and steaming geothermal fields that revealed just how alive this land remains. The eerie beauty of Dimmuborgir and the sulfurous terrain of Námaskarð showed the wild creativity of Iceland's volcanic forces, while the serene waters of the Mývatn Nature Baths offered a quiet moment to take it all in.

In the Diamond Circle, you explored dramatic contrasts—from the thunder of Dettifoss, one of Europe's most powerful waterfalls, to the silent embrace of Ásbyrgi canyon, where ancient floods carved a lush horseshoe-shaped haven.

These landscapes don't just tell Iceland's story—they invite us into it. We hope these sights and moments will stay with you, reminding you of the deep connection between nature, culture, and curiosity.

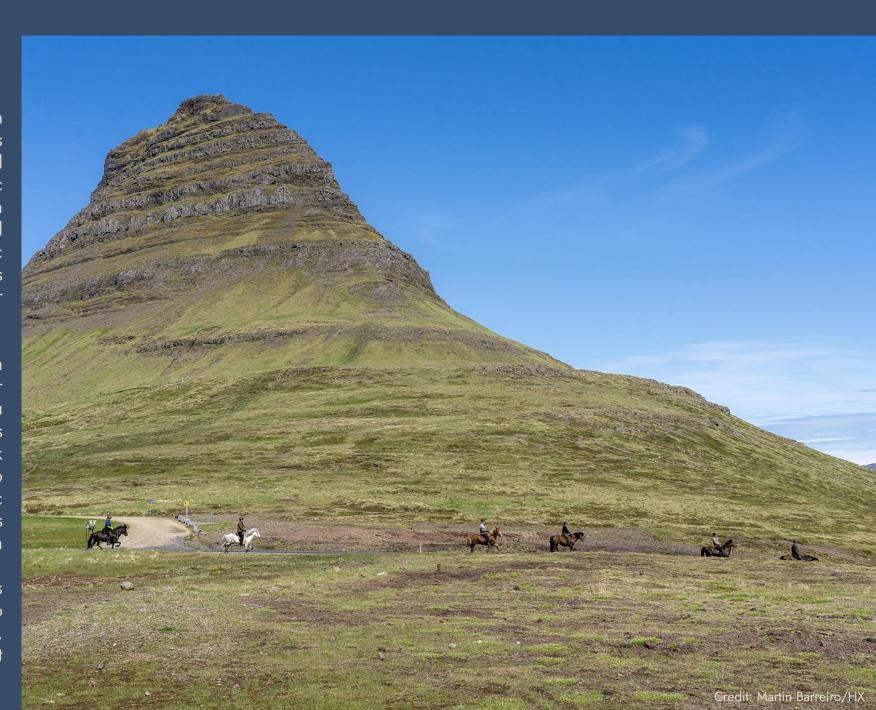


History

Your visit to the Snæfellsnes Peninsula offered a taste of Iceland in miniature—from volcanic peaks to black pebble beaches, lava caves, and dramatic coastal cliffs. One of the most iconic sights was Kirkjufell, the steep, solitary mountain rising above Grundarfjörður. Whether admired up close or viewed alongside the photogenic Kirkjufellsfoss waterfall, it's easy to see why this landscape has captured imaginations for centuries.

As you explored Djúpalónssandur's lava-strewn shoreline, ventured into the depths of Vatnshellir cave, or walked the cliffs of Arnarstapi, you stepped into a region shaped as much by story as by stone. Some say Kirkjufell resembles the back of a dragon, others believe it's home to huldufólk—the hidden people of Icelandic folklore. Onboard, Icelandic musician Andri Ivars brought these cultural threads to life through music, humour, and storytelling.

From snow-covered volcanic slopes to tales whispered by the wind, Snæfellsnes continues to blur the line between myth and geology, reminding us that the landscape is never just scenery in Iceland. It's a story still being told.



History

During your visit to Ísafjörður, you may taste a local beer called *Sæunn*, named after a very special cow.

For decades, beer was banned in Iceland due to concerns about alcoholism. The ban was lifted on March 1st, 1996, which is now celebrated as "Beer Day" across the country.

The story of *Sæunn* begins when a farmer was ordered to bring some of his cows to slaughter. While walking them down to the fjord, one cow broke away, jumped into the water, and swam across to the other shore. There, another farmer saw her, laughed at the sight, and decided to care for her. Six months later, the cow gave birth to a calf, lived for six more years, and was finally buried by the beach.

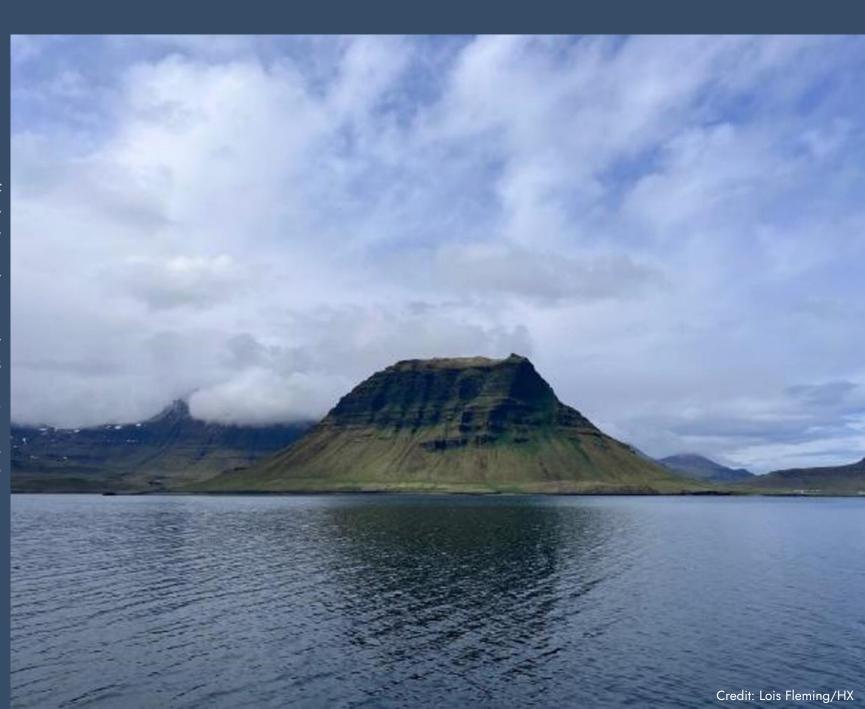
When the farmer started brewing beer, he named it after the brave cow. Every year, women swim across the fjord to honour *Sæunn's* legendary swim.



Geology

Kirkjufell's striking shape tells a deeper story of Iceland's ever-changing landscape. Layer by layer, the mountain reveals a history shaped by both fire and ice—built from volcanic rock and ash, then sculpted by powerful glaciers over thousands of years.

Its steep slopes and exposed strata are the result of repeated glacial advances during the Ice Ages of the Pleistocene, carving away softer material and leaving behind the distinctive peak we see today. Kirkjufell stands not only as a beautiful landmark, but as a natural archive of Iceland's dynamic geological past—a place where the forces of eruption and erosion continue to meet.



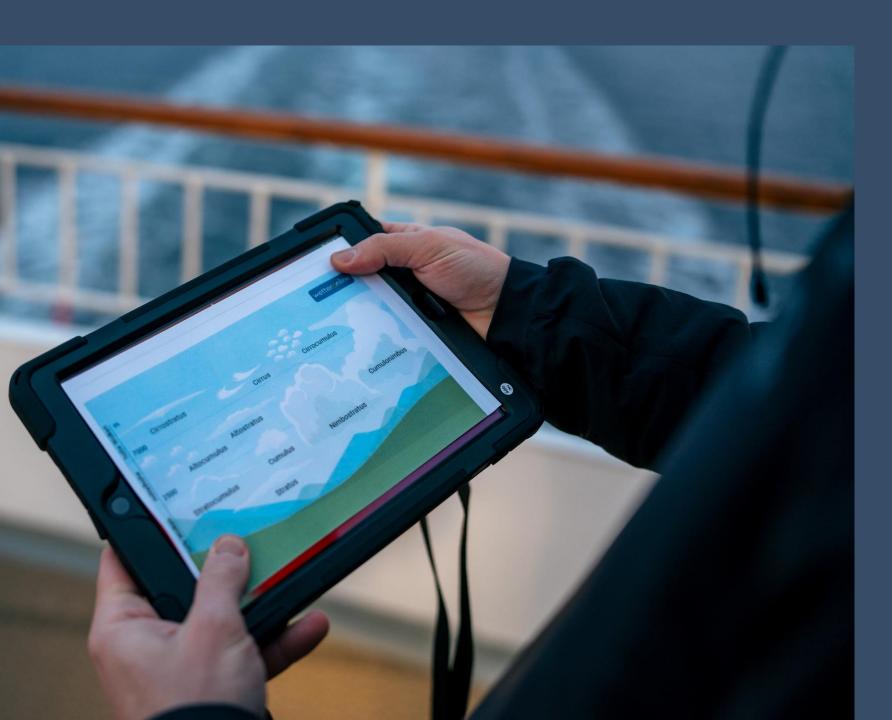


Wildlife Watch

As we sailed around Iceland's rugged coastlines, you were invited to step out on deck and take in the ever-changing seascape—cliffs, rolling swells, and skies teeming with birdlife. But the most memorable moments often came in stillness, as we scanned the horizon together in quiet anticipation.

Throughout the journey, we encountered an incredible range of seabirds: Northern gannets diving with precision, puffins skimming just above the waves, eider ducks drifting along rocky shores, and countless others adding movement and character to the coastal air. Each sighting brought the shoreline to life, reminding us that even the most remote edges of the world are full of energy, pattern, and purpose.

These encounters are more than passing impressions—they are reminders to stay curious, to look a little longer, and to care for the fragile web of life that depends on these cold northern waters.



NASA Cloud Observer

During our voyage, we contributed to NASA's **GLOBE Cloud Observations**, collecting data on:

- May 26th (Ísafjörður)
- May 28th (Húsavík)

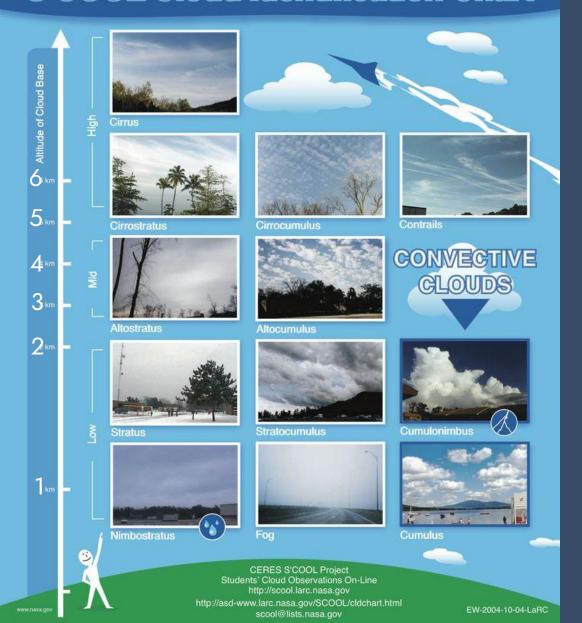
By comparing your ground-based observations with satellite measurements, scientists can refine cloud classifications, enhance climate models, and improve weather predictions—advancing our understanding of Earth's atmosphere and climate.

Curious to continue? You can keep observing and submitting data from home using the **GLOBE Observer** app, turning everyday cloud-watching into real scientific impact.

<u>View our data</u> on the global map



S'COOL Cloud Identification Chart



NASA Cloud Observer

High Clouds (Base above 6,000 meters):

Cirrus: Thin, wispy clouds composed of ice crystals. They often appear as delicate streaks or feathery wisps high in the sky.

Cirrostratus: Thin, sheet-like clouds that cover large portions of the sky. They can create a halo around the sun or moon.

Cirrocumulus: Small, fluffy clouds in a regular pattern, resembling fish scales or ripples.

Medium Clouds (Base between 2,000 and 6,000 meters):

Altocumulus: Puffy, grayish-white clouds with rounded edges. They often form parallel rows or patches.

Altostratus: Thick, grayish clouds that partially obscure the sun or moon. They lack the distinct features of cirrostratus.

Low Clouds (Base below 2,000 meters):

Stratus: Uniform, grayish clouds that cover the sky like a blanket. They can bring drizzle or light rain.

Stratocumulus: Low, lumpy clouds with defined edges. They often appear in rows or patches.

Nimbostratus: Thick, dark gray clouds associated with steady rain or snow.

Remember that these cloud types can vary in appearance and behaviour, but this basic classification helps meteorologists understand weather patterns and atmospheric conditions. If you'd like to explore more examples, you can check out NASA's <u>On-Line Cloud Chart</u>.

View our data on the global map

iNaturalist

Throughout this voyage, you played a vital role in documenting the incredible biodiversity of Iceland.

By capturing and submitting images of wildlife and plant life, you contributed to a global effort to track species distribution and monitor ecosystems across some of Iceland's most remote and ecologically rich coastlines.

Together, we gathered:

221 Observations

82 Species Identified

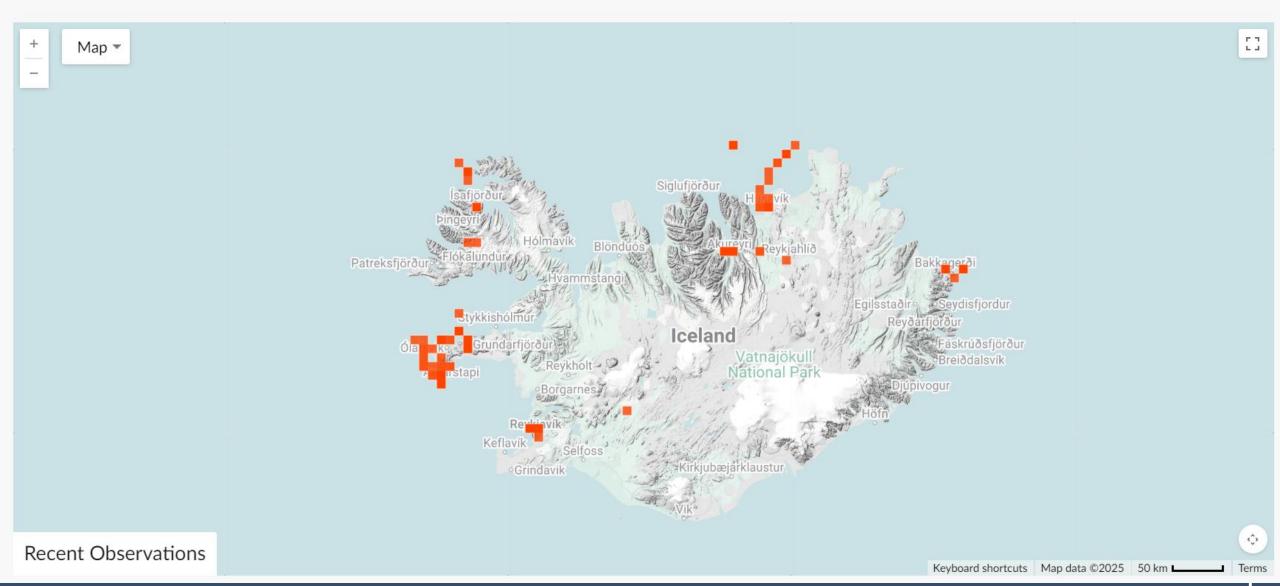
9 Observers Participating

Click on the **link** to view our collective data and see the impact of your contributions:

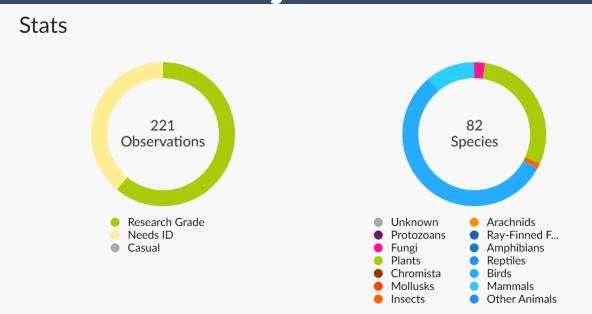
View our data on the iNaturalist website



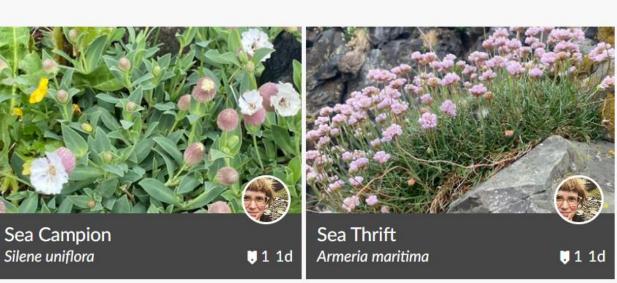
Map of Observations

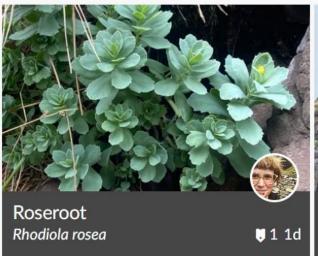


FNICE2506 — MS Fridtjof Nansen 24-31.5.2025



Recent Observations (







View All



eBird

Bird-watching isn't just a hobby—it's a powerful tool for science. eBird, a global citizen science platform, allows bird enthusiasts to record and share sightings, contributing valuable data for research and conservation.

During our voyage, our onboard ornithologists conducted wildlife watches, completing 7 checklists and recording 38 bird species along the way.

Every entry adds to a growing database that helps scientists track migration patterns, monitor populations, and understand bird behaviour in remote regions like Antarctica. Scan the QR code to explore our data and see how your observations contribute to a global effort in avian research:

View our data on the eBird website

FNICE2506 MS Nansen: Reykjavik to Reykjavik (24-31 May 2025)

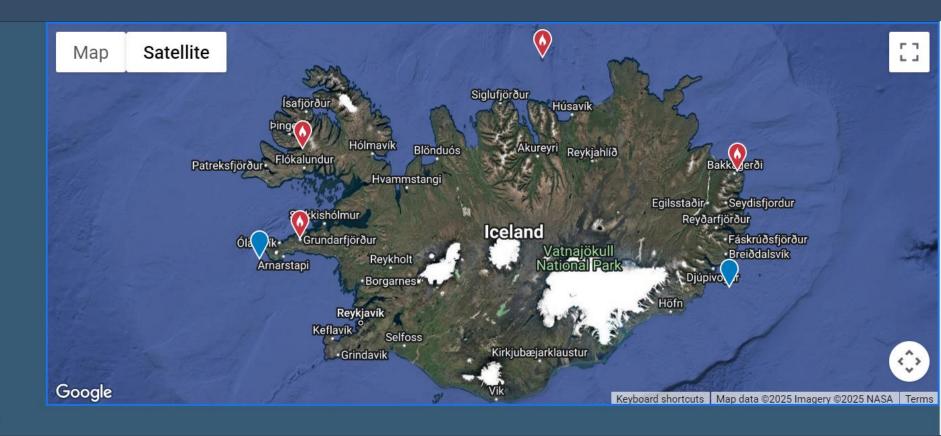
24 - 31 May 2025 (8 days)

Public

Iceland
 Austurland | Norðurland eystra |

Vestfirðir | Vesturland

Science Coordinator, Marcus Bergström





Plankton Samples

Back in the science centre, we brought the ocean into focus—examining our water samples under the microscope to uncover the hidden world of **phytoplankton** and **zooplankton**.

Using microscopes, we projected magnified images onto the screen, allowing everyone to see the intricate details of these tiny organisms. Smaller binocular microscopes offered a hands-on experience, inviting you to search for life in each drop of water.

The samples revealed a world dominated by diatoms, a type of phytoplankton that forms the foundation of the marine food web. What seemed invisible to the eye became a vivid reminder that even the smallest life forms shape this vast and wild ecosystem.





Wildlife List — Seabirds

Scientific name	English	Deutsch	Français	Norsk	24	25	26	27	28	29	30	31
Fulmarus glacialis	Northern Fulmar	Eissturmvogel	Fulmar boréal	Havhest	X	Х	X	Χ	Χ	Χ	Х	Х
Ardenna gravis	Great Shearwater	Großer Sturmtaucher	Puffin majeur	Storlire								
Puffinus puffinus	Manx Shearwater	Atlantiksturmtaucher	Puffin des Anglais	Havlire							Х	
Oceanodroma leucorhoa	Leach's Storm Petrel	Wellenläufer	Océanite cul-blanc	Stormsvale								
Chroicocephalus ridibundus	Black-headed Gull	Lachmöwe	Mouette rieuse	Hettemåke	X	Х	Х	Χ			Х	
Morus bassanus	Northern Gannet	Basstölpel	Fou de Bassan	Havsule	Х	Х			Х	X	X	
Larus argentatus	Herring Gull	Silbermöwe	Goéland argenté	Gråmåke	Х	X	Х	Х	х	Х	X	
Larus fuscus	Lesser Black-backed Gull	Heringsmöwe	Goéland brun	Sildemåke	Х	х	х	Х	Х	Х	х	х
xxLarus glaucoides	Iceland Gull	Polarmöwe	Goéland arctique	Grønlandsmåke		Х						
Larus hyperboreus	Glaucous Gull	Eismöwe	Goéland bourgmestre	Polarmåke	Х	Х	Х		Х	Х	Х	
Larus marinus	Great Black-backed Gull	Mantelmöwe	Goéland marin	Svartbak	X	Х	Х	Х	Х	Х	Х	Х
Pagophila eburnea	Ivory Gull	Elfenbeinmöwe	Mouette blanche	Ismåke								
Rissa tridactyla	Black-legged Kittiwake	Dreizehenmöwe	Mouette tridactyle	Krykkje	X	Х	Х	Х	Х	Х	Х	Х
Xema sabini	Sabine's Gull	Schwalbenmöwe	Mouette de Sabine	Sabinemåke								
Sterna paradisaea	Arctic Tern	Küstenseeschwalbe	Sterne arctique	Rødnebbterne	Х	Х	Х	Х	Χ	Х	Х	Х
Phalacrocorax aristotelis	European Shag	Krähenscharbe	Cormoran huppé	Toppskarv								
Phalacrocorax carbo	Great Cormorant	Kormoran	Grand Cormoran	Storskarv			Х					
Stercorarius longicaudus	Long-tailed Skua/Jaeger	Falkenraubmöwe	Labbe à longue queue	Fjelljo								
Stercorarius parasiticus	Arctic Skua	Schmarotzerraubmöwe	Labbe parasite	Tyvjo		Х	Х	Χ	Х	Χ	Х	
Stercorarius pomarinus	Pomarine Skua/Jaeger	Spatelraubmöwe	Labbe pomarin	Polarjo								
Stercorarius skua	Great Skua	Skua	Grand Labbe	Storjo					Х	Χ	Х	
Alca torda	Razorbill	Tordalk	Petit Pingouin	Alke		Х		Χ	Х			
Alle alle	Little Auk/Dovekie	Krabbentaucher	Mergule nain	Alkekonge								
Fratercula arctica	Atlantic Puffin	Papageitaucher	Macareux moine	Lunde	Χ	Х	Х		Х	Χ	Х	х
Cepphus grylle	Black Guillemot	Gryllteiste	Guillemot à miroir	Teist	X	Х	Х	Х	Х	Χ	Х	Х
Uria aalge	Common Guillemot	Trottellumme	Guillemot marmette	Lomvi	X	Х	X	Х	Х	Х	Х	
Uria lomvia	Brünnich's Guillemot	Dickschnabellumme	Guillemot de Brünnich	Polarlomvi			Х		Х	X		

Wildlife List – Waterbirds

Scientific name	English	Deutsch	Français	Norsk	24	25	26	27	28	29	30	31
Cygnus cygnus	Whooper Swan	Singschwan	Cygne chanteur	Sangsvane			Χ					
Anas acuta	Northern Pintail	Spießente	Canard pilet	Stjertand								
Anas crecca	Eurasian Teal	Krickente	Sarcelle d'hiver	Krikkand								
Anas platyrhynchos	Mallard	Stockente	Canard colvert	Stokkand	Х	Х	Х	Х	Х	Х	Х	х
Anser anser	Greylag Goose	Graugans	Oie cendrée	Grågås	Х					Х		
Anser brachyrhynchus	Pink-footed Goose	Kurzschnabelgans	Oie à bec court	Kortnebbgås								
Anser caerulescens	Snow Goose	Schneegans	Oie des neiges	Snøgås								
Branta bernicla	Brant Goose	Ringelgans	Bernache cravant	Ringgås		Х						
Branta canadensis	Canada Goose	Kanadagans	Bernache du Canada	Kanadagås								
Branta leucopsis	Barnacle Goose	Weißwangengans	Bernache nonnette	Hvitkinngås								
Bucephala islandica	Barrow's Goldeneye	Spatelente	Garrot d'Islande	Islandsand				Х	Х			
Clangula hyemalis	Long-tailed Duck	Eisente	Harelde kakawi	Havelle		Х	Х	Х	Х	Х		
Aythya marila	Greater Scaup	Bergente	Fuligule milouinan	Bergand								
Histrionicus histrionicus	Harlequin Duck	Kragenente	Arlequin plongeur	Harlekinand		Х	Х	Х	Х			
Mareca penelope	Eurasian Wigeon	Pfeifente	Canard siffleur	Brunnakke				Х	Х			
Melanitta nigra	Common Scoter	Trauerente	Macreuse noire	Svartand								
Mergus merganser	Common Merganser	Gänsesäger	Grand Harle	Laksand								
Mergus serrator	Red-breasted Merganser	Mittelsäger	Harle huppé	Siland	Х	Х	Х	Х	Х	Х	Х	х
Somateria mollissima	Common Eider	Eiderente	Eider à duvet	Ærfugl	Х	Х	Х	Х	Х	Х	Х	х
Somateria spectabilis	King Eider	Prachteiderente	Eider à tête grise	Praktærfugl								
Spatula clypeata	Northern Shoveler	Löffelente	Canard souchet	Skjeand								
Aythya fuligula	Tufted Duck	Reiherente	Fuligule morillon	Toppand				Х				
Charadrius hiaticula	Common Ringed Plover	Sandregenpfeifer	Pluvier grand-gravelot	Sandlo		Х	Х	Х	Х	Х	Х	
Pluvialis apricaria	European Golden Plover	Goldregenpfeifer	Pluvier doré	Heilo		х	х	Х	х	х	Х	
Pluvialis squatarola	Grey Plover	Kiebitzregenpfeifer	Pluvier argenté	Tundralo								
Gavia immer	Common Diver/Loon	Eistaucher	Plongeon huard	Islom					х			
Gavia stellata	Red-throated Diver/Loon	Sterntaucher	Plongeon catmarin	Smålom				Х	Х	Х		
Haematopus ostralegus	Eurasian Oystercatcher	Austernfischer	Huîtrier pie	Tjeld	х	х	х	х	х	х	х	х
Podiceps auritus	Slavonian/Horned Grebe	Ohrentaucher	Grèbe esclavon	Horndykker				Х				
Arenaria interpres	Ruddy Turnstone	Steinwälzer	Tournepierre à collier	Steinvender		Х	Х					

Wildlife List – Waterbirds

Scientific name	English	Deutsch	Français	Norsk	24	25	26	27	28	29	30	31
Calidris canutus	Red Knot	Knutt	Bécasseau maubèche	Polarsnipe		Х	Х					
Calidris alba	Sanderling	Sanderling	Bécasseau sanderling	Sandløper								
Calidris alpina	Dunlin	Alpenstrandläufer	Bécasseau variable	Myrsnipe		Х	X					
Calidris maritima	Purple Sandpiper	Meerstrandläufer	Bécasseau violet	Fjæreplytt		х	x					
Gallinago gallinago	Common Snipe	Bekassine	Bécassine des marais	Enkeltbekkasin		X	X	X	X	X		
Limosa limosa	Black-tailed Godwit	Uferschnepfe	Barge à queue noire	Svarthalespove		х	х	X	Х	X		
Numenius phaeopus	Whimbrel	Regenbrachvogel	Courlis corlieu	Småspove		X	X	X	Х	X		
Phalaropus fulicarius	Grey/Red Phalarope	Thorshühnchen	Phalarope à bec large	Polarsvømmesnipe								
Phalaropus lobatus	Red-necked Phalarope	Odinshühnchen	Phalarope à bec étroit	Svømmesnipe			x	X	X			
Tringa totanum	Common Redshank	Rotschenkel	Chevalier gambette	Rødstilk		Х	х	Х	X	X		

Wildlife List — Landbirds

Scientific name	English	Deutsch	Français	Norsk	24	25	26	27	28	29	30	31
Haliaeetus albicilla	White-tailed Eagle	Seeadler	Pygargue à queue blanche	Havørn		Х						
Calcarius lapponicus	Lapland Bunting/Longspur	Spornammer	Plectrophane lapon	Lappspurv								
Plectrophenax nivalis	Snow Bunting	Schneeammer	Plectrophane des neiges	Snøspurv		х			Х	Х		
Columba livia	Rock Dove	Felsentaube	Pigeon biset	Klippedue (Bydue)								
Corvus corax	Northern Raven	Kolkrabe	Grand Corbeau	Ravn		Х	X	X	Х	Х	Х	
Falco columbarius	Merlin	Merlin	Faucon émerillon	Dvergfalk								
Falco peregrinus	Peregrine Falcon	Wanderfalke	Faucon pèlerin	Vandrefalk								
Falco rusticolus	Gyrfalcon	Gerfalke	Faucon gerfaut	Jaktfalk								
Acanthis flammea	Common Redpoll	Birkenzeisig	Sizerin flammé	Gråsisik								
Anthus pratensis	Meadow Pipit	Wiesenpieper	Pipit farlouse	Heipiplerke		х	х	х	х	х	х	
Motacilla alba	White Wagtail	Bachstelze	Bergeronnette grise	Linerle	X	Х	Х	Х	Х	Х	Х	Х
Oenanthe oenanthe	Northern Wheatear	Steinschmätzer	Traquet motteux	Steinskvett							Х	
Passer domesticus	House Sparrow	Haussperling	Moineau domestique	Gråspurv								
Lagopus lagopus	Willow Ptarmigan	Moorschneehuhn	Lagopède des saules	Lirype				Х	Х			
Bubo scandiacus	Snowy Owl	Schneeeule	Harfang des neiges	Snøugle								
Sturnus vulgaris	European Starling	Star	Étourneau sansonnet	Stær	х	x	х	х	Х	х	х	х
Turdus iliacus	Redwing	Rotdrossel	Grive mauvis	Rødvingetrost	Х	Х	Х	Х	Х	Х	Х	х
Turdus merula	Common Blackbird	Amsel	Merle noir	Svarttrost								
Regulus regulus	Goldcrest	Wintergoldhänchen	Roitelet huppé	Fuglekonge				х				





Atlantic Puffin (Fratercula Arctica)









Wildlife List — Marine Mammals

Scientific Name	English	Deutsch	Français
Halichoerus grypus	Grey seal	Kegelrobbe	Phoque gris
Globicephala melas	Long-finned pilot whale	Grindwal	Globicephale noir
Balaenoptera musculus	Blue whale	Blauwal	Baleine bleue
Megaptera novaeangliae	Humpback whale	Buckelwal	Baleine à bosse
Orcinus orca	Orca	Schwertwal	Orque
Balaenoptera acutorostrata	Minke Whale	Zwergwal	Petit rorqual
Physeter macrocephalus	Sperm Whale	Pottwal	Cachalot
Lagenorhynchus albirostris	White-beaked Dolphin	Weißschnauzendelfin	Dauphin à bec blanc

