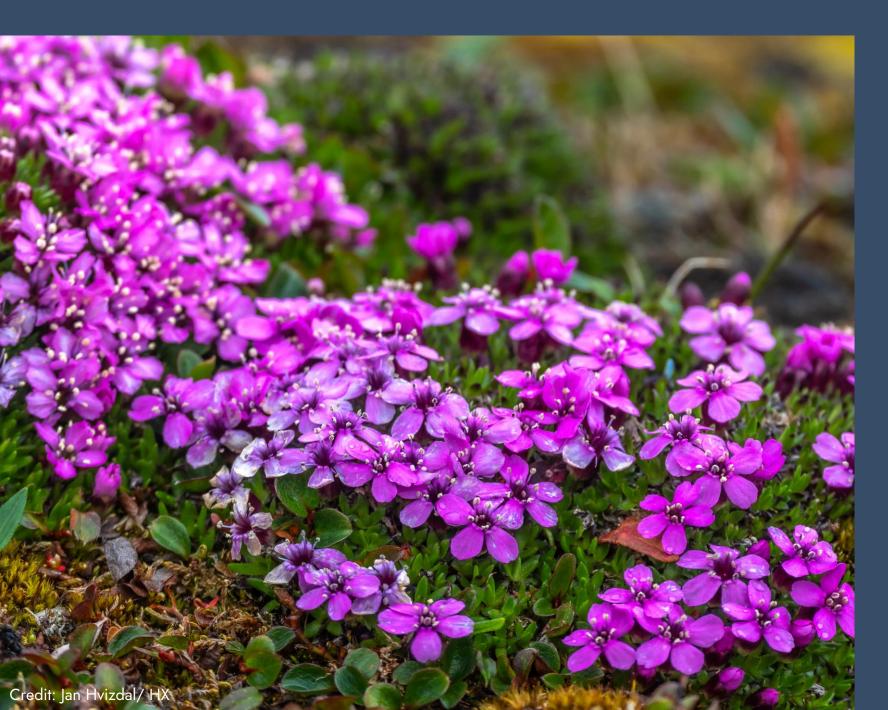


MS FRAM 15th - 27th July 2025

Circumnavigating Svalbard





Citizen Science

NASA Globe Observer

We Collected 3 observations for NASA. You can <u>view our data</u> on the global map.

Inaturalist

We submitted 26 observations to Inaturalist. You can view our observations by clicking here.

Ebird

We submitted 18 checklists to Ebird. You can view the <u>trip report for your voyage by clicking here.</u>

HappyWhale

We submitted XXX observations.

Planktonics Project — eDNA around Svalbard.

We collected water samples twice during this voyage.



NASA CLOUD OBSERVER

We collected 3 observations for NASA. You can <u>view our data</u> on the global map.

Our observation matched once with a satellite overpass on July 23rd. Review it on the next slides. Finally we observed interesting structures called lenticular clouds, generated by high speed winds at high altitudes.

Don't hesitate to continue looking at the sky back home, since every contributions helps the scientists.



GLOBE Cloud Observations Paired with NASA Satellite Data

Total Satellite Comparisons: 352

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

		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	NOAA-20 Satellite
Universal Date/Time	2025-07-23 09:45:00	2025-07-23 09:57
Latitude	79.92	79.52 to 80.32
Longitude	29.83	29.27 to 30.07
Total Cloud Cover	Overcast (>90%)	Overcast 94.25%
High Clouds		Cover: Isolated 12.42% Altitude: 7.24 (km) Phase: Ice 239.51 (K) Opacity: Opaque
Mid Clouds		Cover: Broken 79.10% Altitude: 3.92 (km) Phase: Ice/Water Mix 258.76 (K) Opacity: Opaque
Low Clouds	Stratus Stratocumulus Cover: Overcast (>90%) Opacity: Opaque	Cover: Few (2.73%) Altitude: 1.99 (km) Phase: Water 262.87 (K) 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.	GLOBE Photos North East South West Up Down	Worldview Worldview 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. Submit Comment





iNaturalist

On our voyage we submitted 26 observations covering a wide range of living species, from plants to animals passing to planktonic creatures.

Thank you very much for your contribution, and feel free to contribute to our project for this voyage when you are back home reviewing your photos.

Click here to visit the iNaturalist Project for this voyage.



eBird

On our voyage we conducted 31 surveys, observed 20 bird species and counted a total of 1261 individuals. These data are crucial to document the abundance and distribution of emblematic polar and cosmopolitan species around Svalbard, both terrestrial and marine species.

Thank you very much for joining Enzo during our wildlife watch and help us contributing to the greatest birding project at a worldwide scale!

Click here to visit the Ebird Project for this voyage.



HappyWhale

During our circumnavigation around Svalbard, we saw a diversity of marine mammals including minke whales, sperm whales, belugas and even the elusive blue whale. But also common seals, walruses, and polar bears.

If you managed to take photographs of whale flukes, or any markings or scarring on other whales or seals, you can still submit these to happywhale.com once you are home. You can do the same for any older photos you may have from years gone by!

Thank you very much for joining Jenna during our wildlife watches.

Click here to visit the HappyWhale Project.

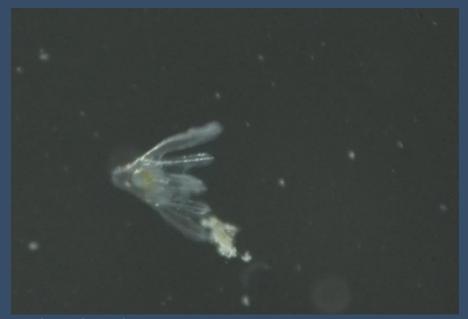


Science Boat

On our voyage we conducted 7 Science Boats during which we realized Secchi disc measurements & CTD profiles to characterize the water column parameters, and collected plankton & Niskin bottle samples for eDNA.

We used the microscopes in the science centre to identify plankton caught during the science boats. Phytoplankton was almost null whereas zooplankton was abundant, with a variety of copepods, invertebrates larvae and eggs found in our samples. Please see the following slide for more pictures of plankton caught during our voyage.

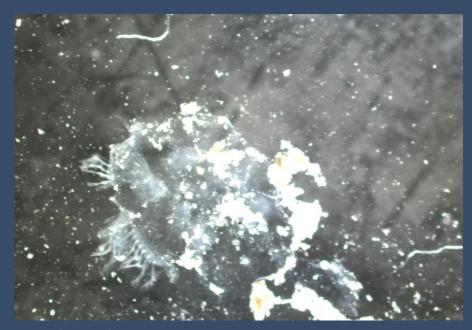
Click here to visit the Secchi Disc Project and view the Secchi data.



Echinoderm larvae.



Marine worm.



Cnidarian larvae.



Amphipod.



Planktonics Project — eDNA around Svalbard

This project aims to describe the diversity of organisms present in waters around the archipelago of Svalbard using the eDNA technics. This consists of filtering water, extract and amplify the DNA preserved on the filters targeting specific groups of species. During our Science boat, we managed to collect twice (Palanderbukta & Bamsebu), in two different locations for this project. Filters were kept frozen in our facilities until they will be picked up by the scientists to be analysed in the laboratory. This project has been founded in part by the HX Foundation.



Geology reports

Svalbard is a paradise for geologists — a land where deep time rises to the surface. Its mountains and valleys reveal a story stretching back over 2.5 billion years. Here, you'll find rich seams of coal formed in tropical swamps, marine fossils of ichthyosaurs and ammonites from long-vanished seas, and even the preserved footprints of dinosaurs pressed into Cretaceous sandstone.

The next slides highlights the surprising rocks formation we discovered during our voyage.







Cetaceans																
Scientific Name	English	Deutsch	Francais	Norsk	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07	27/07
Balaenoptera acutorostrata	Common Minke Whale	Zwergwal	Petit rorqual	Vågehval	Х		X		Х	X						
Balaenoptera musculus	Blue Whale	Blauwal	Rorqual bleu	Blåhval					Х		Х					
Balaenoptera physalus	Fin Whale	Finnwal	Rorqual commun	Finhval						Х					X	
Megaptera novaeangliae	Humpback Whale	Buckelwal	Baleine à bosse	Knølhval				X	?			X				
Delphinapterus leucas	Beluga Whale	Weißwal	Béluga	Hvithval										X		
Lagenorhynchus albirostris	White-beaked Dolphin	Weißschnau zendelfin	Lagénorhynque à bec blanc	Kvitnos										x		
Physeter macrocephalus	Sperm Whale	Pottwal	Grand cachalot	Spermhval						X						
-	Unidentified whale	Nicht identifiziert er Wal	Non identifié Baleine	Uidentifisert Hval		x	x		x	x				x		
Pinnipeds a																
Scientific Name	English	Deutsch	Francais	Norsk	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07	27/07
Erignathus barbatus	Bearded Seal	Bartrobbe	Phoque barbu	Storkobbe			X	X						Х		
Phoca vitulina	Harbour Seal, Common Seal	Seehund	Phoque veau-marin	Steinkobbe	X										Х	
Pusa hispida	Ringed Seal	Ringelrobbe	Phoque annelé	Ringsel		X								x		
Odobenus rosmarus	Walrus	Walross	Morse	Hvalross			Х	X			Х	X	Х			
Ursus maritimus	Polar Bear	Eisbär	L'ours blanc	Isbjørn		X		X				X	X	Х		
Land Mammals																
Scientific Name	English	Deutsch	Francais	Norsk	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07	27/07
Rangifer tarandus	Reindeer	Rentier	Renne	Reinsdyr	Х			х		Х			х		Х	
Alopex lagopus	Arctic Fox	Polarfuchs	Renard arctique	Fjellrev	Х									Х	Х	

Wildlife List – Birds

Birds - Wildlife List - MS FRAM 15/07 to 27/07 2025																
Scientific Name	English	Deutsch	Francais	Norsk	16/07	17/07	18/07	19/07	20/07	21/07	22/07	23/07	24/07	25/07	26/07	27/07
Alle alle	Little Auk/Dovekie	Krabbentaucher	Mergule nain	Alkekonge	X				X	X	X					
Anser brachyrhynchus	Pink-footed Goose	Kurzschnabelgans	Oie à bec court	Kortnebbgås									X			
Arenaria interpres	Ruddy turnstone	Steinwälzer	Tournepierre à collier	Steinvender												
Branta bernicla	Brant Goose	Ringelgans	Bernache cravant	Ringgås										X		
Branta leucopsis	Barnacle Goose	Weißwangengans	Bernache nonnette	Hvitkinngås	X					X						
Calidris alba	Sanderling	Sanderling	Bécasseau sanderling	Sandløber												
Calidris maritima	Purple Sandpiper	Meerstrandläufer	Bécasseau violet	Fjæreplytt	X	X	X	X		X					X	
Cepphus grylle	Black Guillemot	Gryllteiste	Guillemot à miroir	Teist	X	X	X	X		X	X		X	X	X	
Charadrius hiaticula	Common Ringed Plover	Sandregenpfeifer	Pluvier grand-gravelot	Sandlo	X					X					X	
Clangula hyemalis	Long-tailed duck	Eisente	Harelde boréale	Havelle		X				X						
Fratercula arctica	Atlantic Puffin	Papageitaucher	Macareux moine	Lunde	Х	X			X	Х				X		
Fulmarus glacialis	Northern Fulmar	Eissturmvogel	Fulmar boréal	Havhest	X	X	X	X	X	X	X	X	X	X	X	
Gavia stellata	Red-throated Diver/Loon	Sterntaucher	Plongeon catmarin	Smålom			X			X				X	X	
Lagopus mytus	Rock Ptarmigan	Alpenschneehuhn	Lagopède alpin	Fjellrype												
Larus hyperboreus	Glaucous Gull	Eismöwe	Goéland bourgmestre	Polarmåke	X	X	X	X			X	X	X	X	X	
Mergus serrator	Red-breasted Merganser	Mittelsäger	Harle huppé	Siland												
Pagophila eburnea	Ivory Gull	Elfenbeinmöwe	Mouette blanche	Ismåke											X	
Phalaropus fulicarius	Grey/Red Phalarope	Thorshühnchen	Phalarope à bec large	Polarsvømmesnipe												
Plectrophenax nivalis	Snow Bunting	Schneeammer	Plectrophane des neiges	Snøspurv	X	X	X				X		X		X	
Pluvialis apricaria	European Golden Plover	Goldregenpfeifer	Pluvier doré	Heilo												
Polgsticta stlleri	Steller's Eider	Scheckente	Eider de Steller	Stellerand											X	
Rissa tridactyla	Black-legged Kittiwake	Dreizehenmöwe	Mouette tridactyle	Krykkje	X	X	X	X	X	X	X	X	X	X	X	
Somateria mollissima	Common Eider	Eiderente	Eider à duvet	Ærfugl	X	X	X			X	X		X	X	X	
Somateria spectabilis	King Eider	Prachteiderente	Eider à tête grise	Praktærfugl						X						
	Long-tailed Skua/Jaeger	Falkenraubmöwe	Labbe à longue queue	Fjelljo												
Stercorarius parasiticus	Arctic Skua/ Parasitic Jaeger	Schmarotzerraubmöwe	Labbe parasite	Tyvjo	Х	X	X	X		Х	X	X	X	X		
Stercorarius pomarinus	Pomarine Skua/Jaeger	Spatelraubmöwe	Labbe pomarin	Polarjo												
Stercorarius skua	Great Skua	Skua	Grand Labbe	Storjo												
Sterna paradisaea	Arctic Tern	Küstenseeschwalbe	Sterne arctique	Rødnebbterne	Х	X	X	X		Х	X		X	X	X	
Uria lomvia	Brünnich's Guillemot / Thick-billed Murre	Dickschnabellumme	Guillemot de Brünnich	Polarlomvi	Х	X	X		Х	Х	X	Х	X	X	X	



Thank you all for your contribution to science!