

# Science & Education Report

Alaska & British Columbia

2<sup>nd</sup> – 11<sup>th</sup> May

The image features a large, semi-transparent graphic of the letters 'H' and 'K' in a light blue color. The 'H' is on the left and the 'K' is on the right, both appearing to be part of a larger design. The background is a scenic landscape with a misty lake, evergreen trees, and a forest of trees with some autumn-colored foliage in the distance. The overall color palette is dominated by blues and greys, with some warm tones from the trees and the sky.

# MS Roald

# Amundsen

## 02 – 11 May 2026

### Alaska and British Columbia

When you arrived on MS Roald Amundsen, you boarded a research-focused expedition ship fully equipped as a floating laboratory and designed to be a centre of learning and discovery. During your time on board, you contributed to scientific studies and expanded your knowledge of the world around you. Let's take a look back at our journey and what we accomplished while sailing through Alaska and British Columbia.



# Arts, Crafts & Creativity

We witnessed the remarkable landscapes and culture of Alaska and British Columbia, and were inspired to create art reflecting our surroundings — including watercolour postcards and clay totem poles.





# Science & Education Program

Our onboard Naturalists guided guests using scientific tools to investigate the world around us. Through lectures, discovery sessions, expedition boat cruises, and visits ashore, we aimed to make every expedition day a memorable and unique learning experience.

# Alaska & British Columbia: Culture

There is a world of difference between hearing, reading, or watching documentaries about the native cultures of Alaska and witnessing that cultural heritage first-hand.

In Kake, we were greeted by the local community, who performed a traditional dance ceremony alongside local schoolchildren and explained the customs and traditions of the Tlingit people. They also showed us the regalia worn by different clans and gave us a demonstration of the Inuit Olympic Games.



# History & Culture

Beyond the native Alaskan cultures, this voyage took us deep into the human history of the region — from the moment the Russians arrived in this territory and the centuries of change that followed.

We explored the Russians' motivations, the height of their influence, their eventual decline, and the dramatic impact all of this had on the peoples who had long called this land home. We also looked at the reasons behind the US purchase of Alaska and how the territory developed from that point on, as well as key historical events in south-east Alaska, including the Exxon Valdez oil spill.





# Science Boat

During our voyage, we conducted plankton sampling techniques focused on the abundance and species of phytoplankton present in Alaskan waters.

The samples and data collected provided invaluable information for the NOAA-funded Harmful Algal Bloom (HAB) project, which monitors potentially harmful phytoplankton blooms.

During the science boat outings in Misty Fjord, the Inian Islands, Icy Bay, and College Fjord, we used a CTD to create a physical profile of the water column, took measurements of turbidity to estimate phytoplankton abundance, and deployed a plankton net to collect phytoplankton and zooplankton samples.

# Science Boat: CTD data

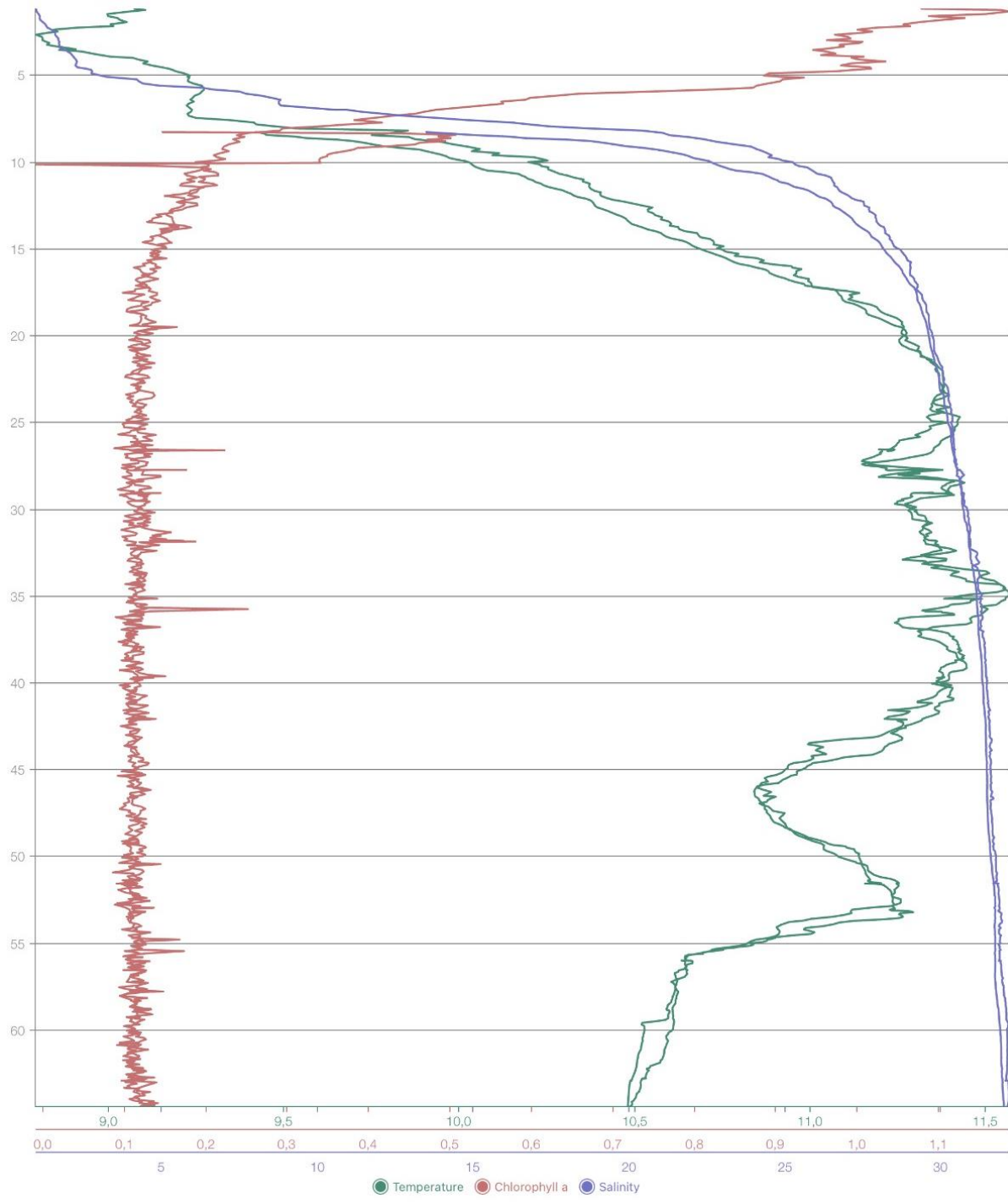
## — Misty Fjord

Our CTD casts gave us insight into the way salinity, temperature, and chlorophyll changed with depth.

**Temperature (green):** at the surface there is a cold layer around 9°C, then between 10–30 m it is relatively warm at ~11.3–11.5°C. Temperature then decreases after 35 m, reaching ~10.5°C by ~60 m. Overall, this indicates warm surface waters influenced by solar heating and freshwater input overlying cooler, denser marine water.

**Salinity (blue)** is much lower at the surface (~5 PSU), then increases rapidly between ~5–15 m depth before stabilising around ~32 PSU deeper in the profile. This strong halocline suggests a significant freshwater influence at the surface, likely from rainfall, snowmelt, river discharge, and glacial runoff typical of south-east Alaskan fjords.

**Chlorophyll a (red)** is highest in the upper ~3–8 m at 1.1 µg/l. Below ~10 m, chlorophyll concentrations rapidly decrease and remain very low throughout the deeper water column. This pattern suggests phytoplankton productivity is concentrated in the sunlit surface layer.



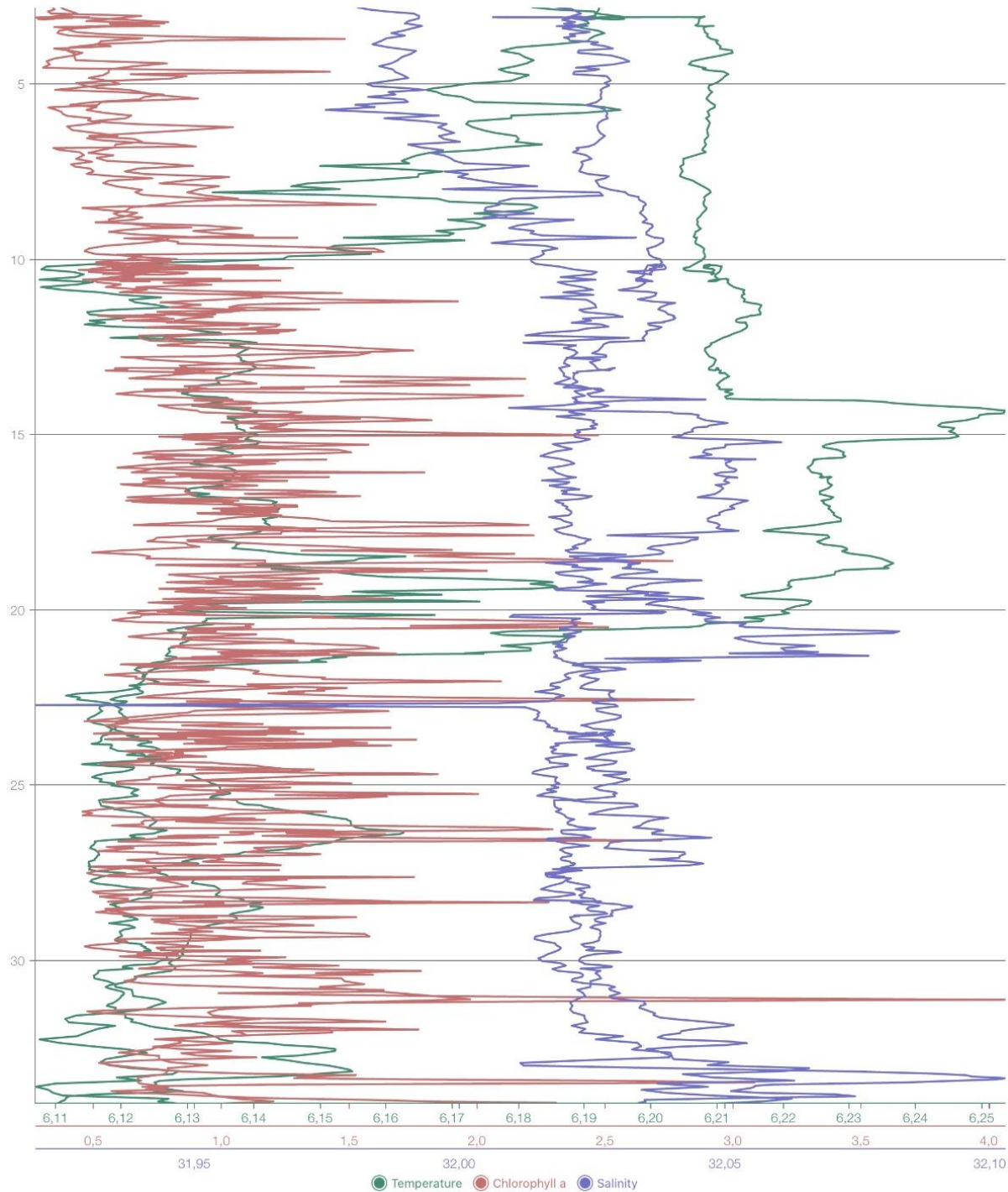
# Science Boat: CTD data – Inian Islands

**Temperature (green):** despite the noisy data, temperature is very stable throughout the profile, remaining around  $\sim 6.11$ – $6.22^\circ\text{C}$  from the surface to  $\sim 33$  m depth. Unlike sheltered fjords such as Misty Fjord, there is no strong warm surface layer — typical of high-energy tidal environments like the Inian Islands, where strong currents continually redistribute heat through the water column.

**Salinity (blue)** remains high and consistent throughout the cast at  $\sim 31.95$ – $32.1$  PSU, indicating a predominantly marine water mass with little freshwater influence. The lack of a strong halocline suggests vigorous tidal mixing is preventing the formation of stable surface layers.

**Chlorophyll a (red)** is moderately elevated throughout the upper  $\sim 10$ – $25$  m, rather than forming a single sharp surface peak. In energetic tidal systems, nutrient-rich deeper water is frequently brought to the surface through upwelling, supporting productive phytoplankton growth across a broader depth range.

Overall, this profile reflects a dynamic, well-mixed coastal system strongly influenced by tidal exchange.



# Science Boat: CTD data — Icy Bay

**Temperature (green)** is coldest near the surface at  $\sim 0\text{--}1^\circ\text{C}$  in the upper  $\sim 5$  m, then gradually increases with depth, reaching  $\sim 3.6^\circ\text{C}$  below  $\sim 30\text{--}35$  m. This inverted temperature structure is common in glacier-influenced systems like Icy Bay, where cold meltwater and runoff cool the surface waters, while deeper layers contain warmer marine water entering from the Gulf of Alaska.

**Salinity (blue)** is lowest at the surface at  $\sim 28\text{--}29$  PSU and remains relatively fresh down to  $\sim 20\text{--}25$  m depth. Below this, salinity increases to  $\sim 30\text{--}31$  PSU and remains stable deeper in the profile. This strong halocline indicates pronounced stratification, with a buoyant freshwater layer sitting above denser oceanic water, likely driven by glacial melt.

**Chlorophyll a (red)** shows a clear surface/subsurface maximum within the upper  $\sim 0\text{--}7$  m at around  $30\ \mu\text{g/l}$ , with concentrations dropping rapidly below  $\sim 10$  m and remaining very low at depth. This high concentration of chlorophyll suggests a phytoplankton bloom concentrated within the sunlit surface layer.

Overall, this profile reflects a classic glacier-influenced fjord system: cold, fresh surface waters from meltwater input overlying warmer, saltier marine water.



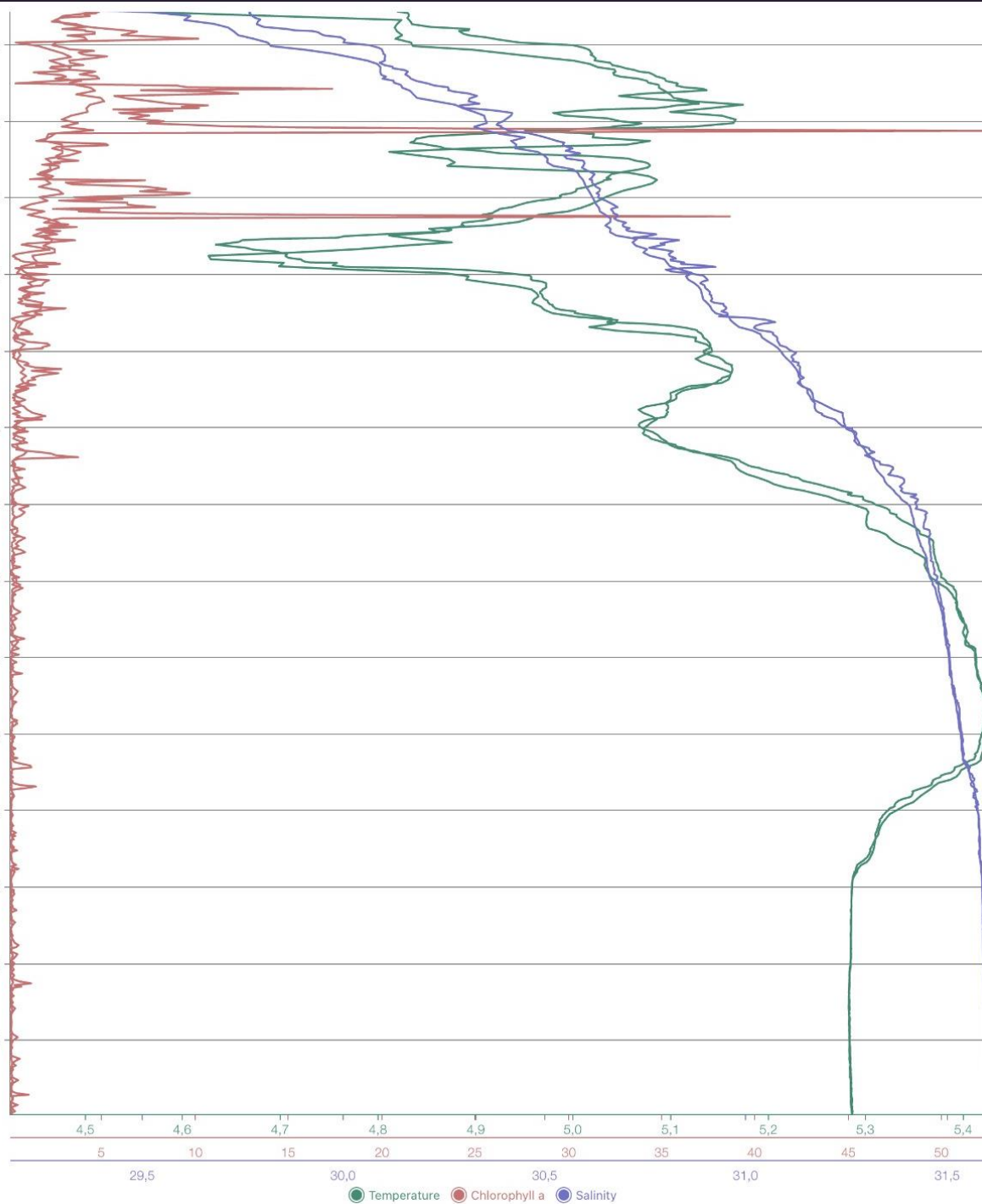
# Science Boat: CTD data – College Fjord

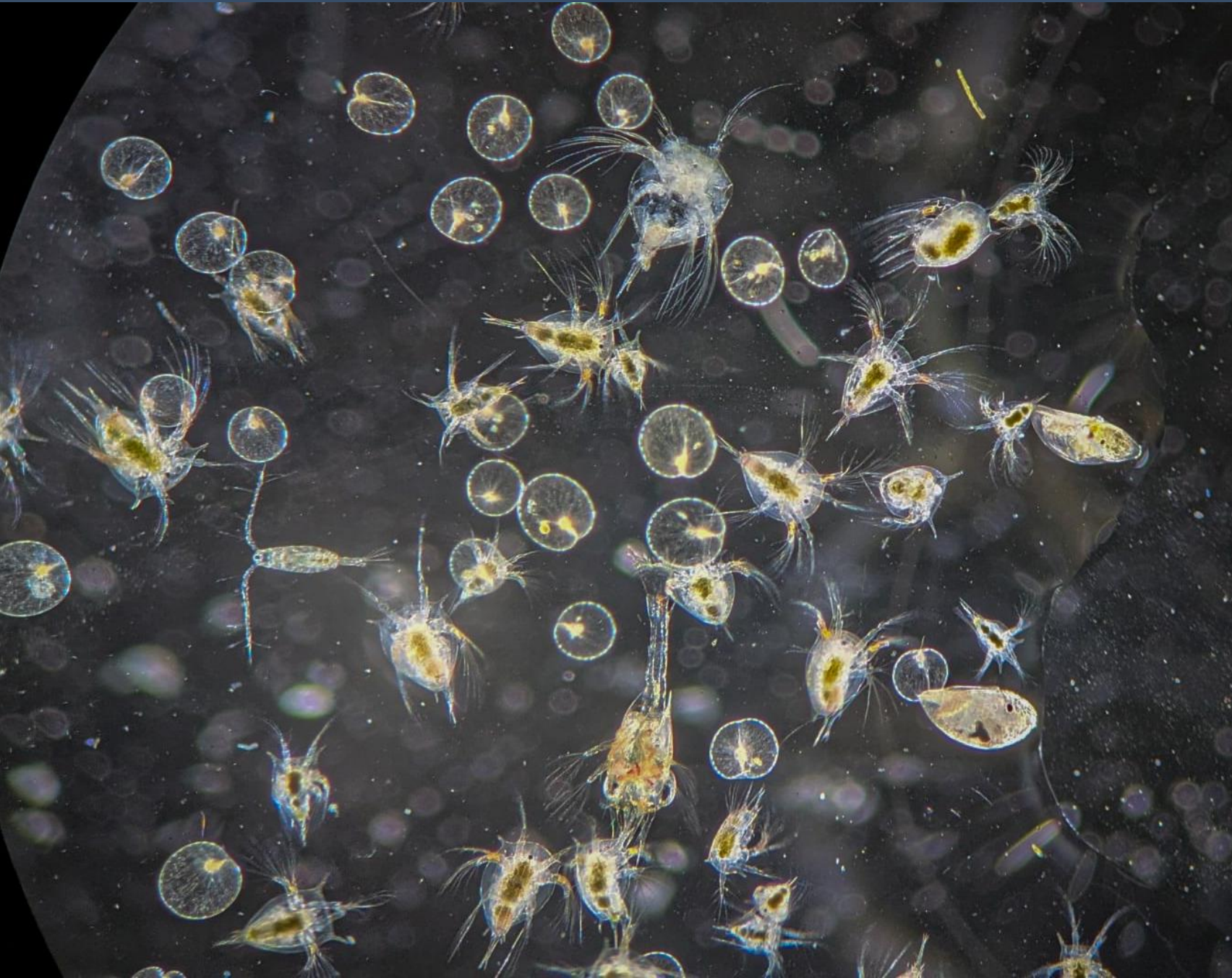
**Temperature (green)** is coolest near the surface at  $\sim 4.5\text{--}4.7^\circ\text{C}$ , then gradually increases with depth to  $\sim 5.4^\circ\text{C}$  by  $\sim 45\text{ m}$ . Below  $\sim 50\text{ m}$ , temperature becomes more stable at  $\sim 5.3^\circ\text{C}$ . The cooler surface waters likely reflect strong glacial meltwater influence.

**Salinity (blue)** is lowest at the surface at  $\sim 29.5\text{ PSU}$  and steadily increases with depth, reaching  $\sim 31.5\text{ PSU}$  below  $\sim 40\text{ m}$ . This gradual increase indicates a stratified water column, with fresher meltwater-influenced surface waters overlying saltier, denser marine water below. Compared to some fjords, the halocline is relatively broad rather than sharply defined, suggesting ongoing mixing between surface and deeper layers.

**Chlorophyll a (red)** is highest in the upper  $\sim 5\text{--}18\text{ m}$  at approximately  $20\text{ }\mu\text{g/l}$ , before dropping rapidly below  $\sim 20\text{--}25\text{ m}$  and remaining near zero at depth. This suggests a surface phytoplankton bloom, with productivity concentrated within the upper illuminated layer of the fjord. In glacier-fed fjords like College Fjord, meltwater can stabilise the surface layer while also supplying micronutrients such as iron, helping support phytoplankton growth during the productive season.

Overall, this profile reflects a classic glacier-influenced fjord system: cool, fresh surface waters from meltwater input overlying warmer, saltier marine water at depth, with biological productivity concentrated within the upper photic zone.

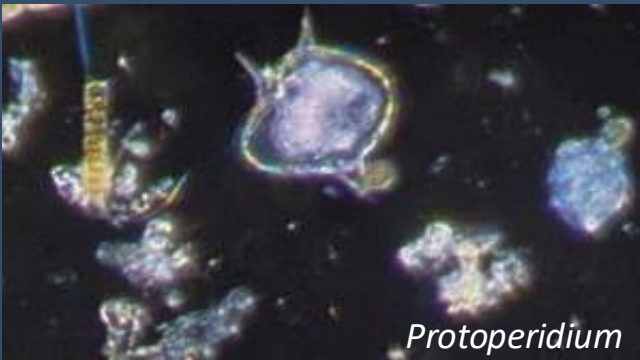




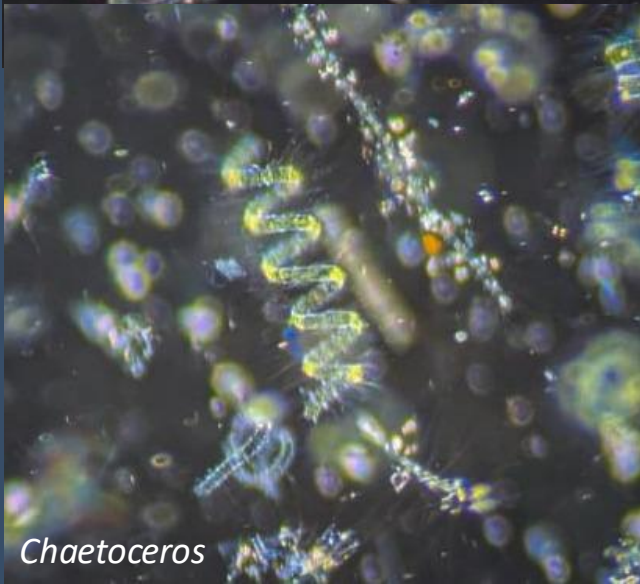
# Plankton samples

Plankton are ocean drifters, transported by currents and tides and lacking the ability to navigate against these natural forces. Animals (zooplankton) and plant-like algae (phytoplankton) play a key role in supporting the marine food web and the health of our oceans.

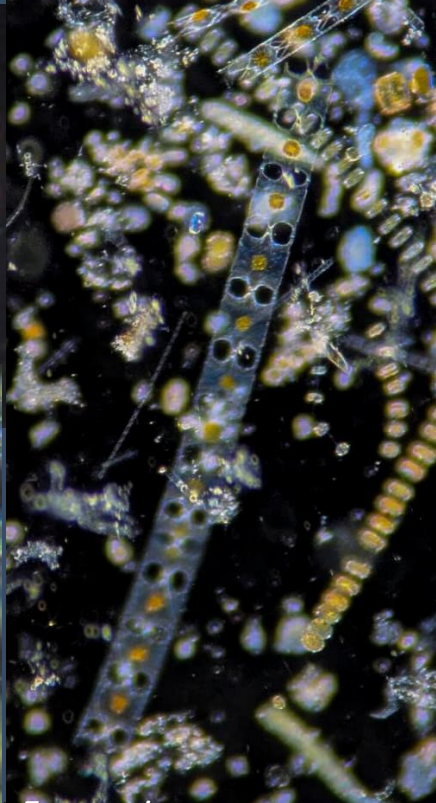
The image on the left shows a plankton sample from Kake, Alaska, including barnacle nauplius larvae, barnacle cypris larvae, a calanoid copepod, and *Noctiluca* phytoplankton, also known as 'sea sparkle'.



*Protoperidium*



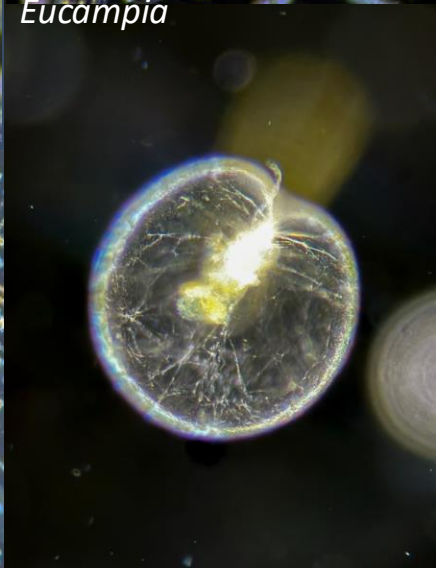
*Chaetoceros*



*Eucampia*



*Thalassiosira*



*Noctiluca scintillans*

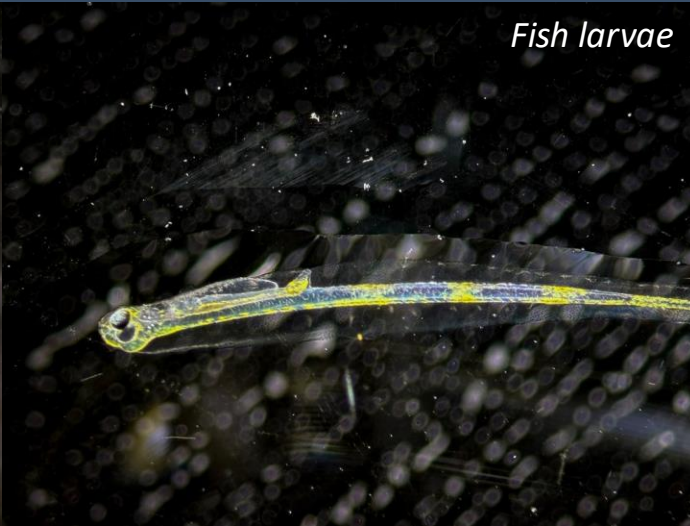
# Phytoplankton & Harmful Algal Bloom (HAB) Project

Phytoplankton underpin the marine food web: like plants on land, they contain photosynthetic pigments (chlorophyll) that convert sunlight into energy and oxygen, and sequester carbon dioxide.

We collected phytoplankton samples in Misty Fjord, the Inian Islands, Icy Bay, and College Fjord, and reported the abundance and species present for the HAB project, to detect harmful blooms of microalgae. These blooms, caused by excessive nutrient pollution and environmental changes, can produce toxins that harm aquatic life, disrupt ecosystems, and pose health risks to humans. The HAB project aims to monitor outbreaks, identify contributing factors, and develop strategies to predict, prevent, and manage HABs through scientific research. The data we collected suggested **no potential HABs** were present in our sample locations.



*Barnacle nauplius larvae*



*Fish larvae*



*Arrow worm*



*Bristle worm*



*Calanoid copepod*  
*Calanoid copepod*



# Zooplankton

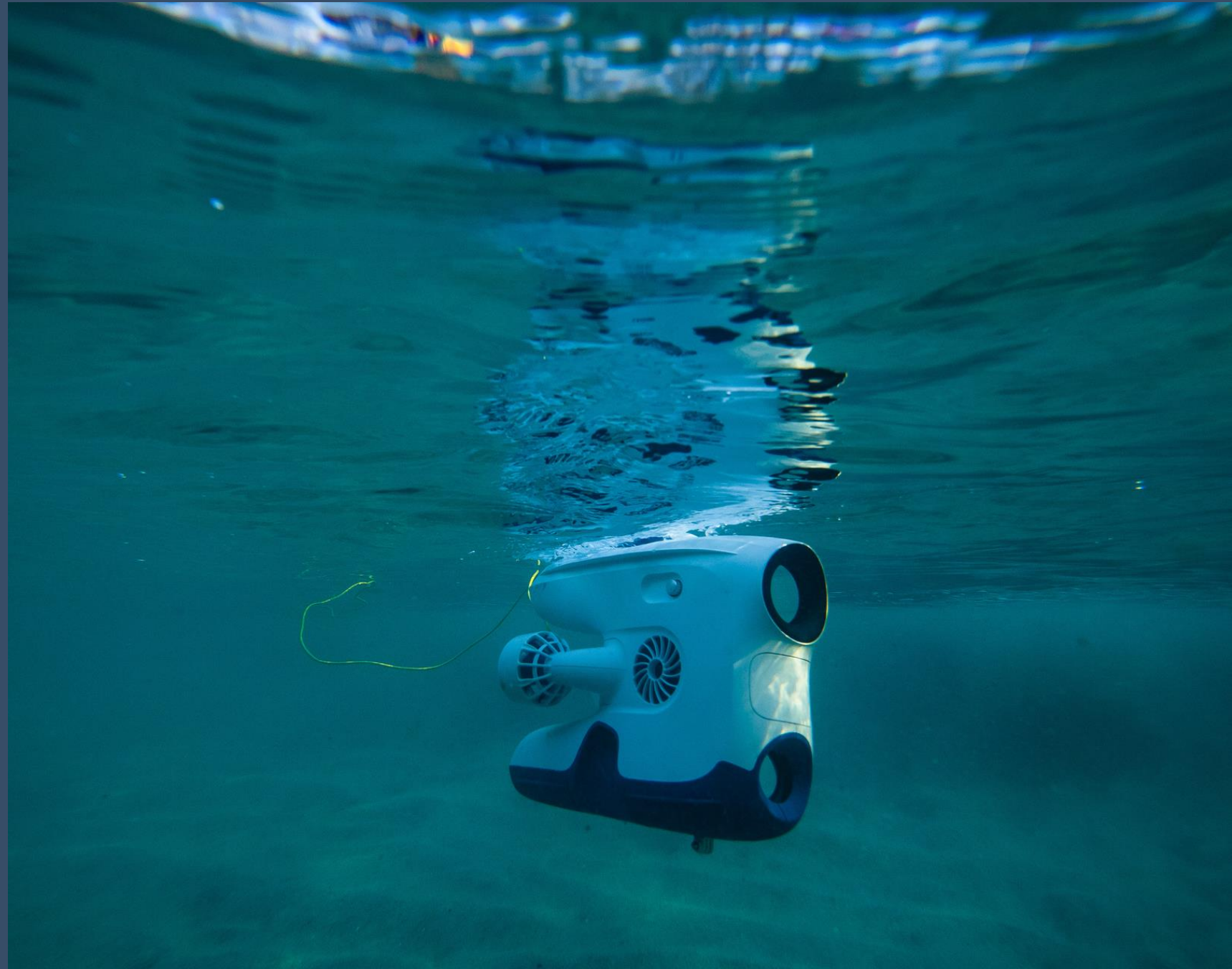
We also collected zooplankton samples in Kake, the Inian Islands, Icy Bay, and College Fjord. Samples included 'holoplankton', which remain planktonic throughout their whole life cycle — such as copepods and arrow worms — and 'meroplankton', which are only planktonic for part of their life cycle, such as crab and fish larvae.

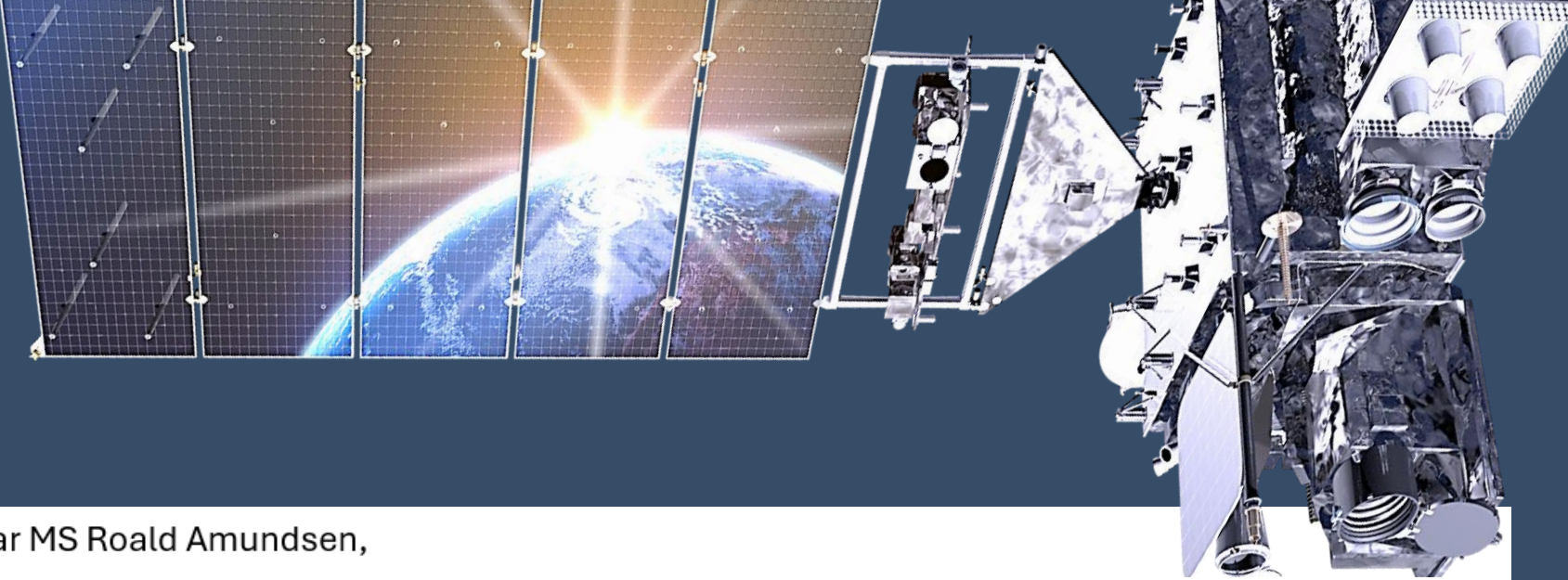
The photos taken on our microscopes have also been added to our iNaturalist project to help monitor plankton biodiversity.

# Underwater drone

We had the opportunity to deploy our underwater drone in Kake, where we observed a variety of intertidal creatures, including sugar kelp, giant plumose anemones, and ochre sea stars.

View the highlights from our underwater drone footage on the HX Underwater Drone Footage [YouTube channel](#).





# Citizen Science NASA Cloud Observer

Clouds aren't just shapes in the sky; they are important components of Earth's heat budget and balance. Information about when, where, and what types of clouds are forming helps scientists understand more about Earth's climate and climate change. Through NASA's GLOBE Cloud Observer, we help contribute such data.

Our Citizen Scientists submitted three observations over four sessions to the global database run by NASA. Our observations were matched to data from weather satellites orbiting above and will be used to better understand global weather phenomena.


If you would like to continue cloud observations at home, you can download the GLOBE Observer app.

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

Dear MS Roald Amundsen,

Thank you for your NASA GLOBE cloud observation! The NASA GLOBE Clouds Team matched your cloud observation with corresponding satellite data. The satellite match is based on the time and location of your cloud report. You can learn more about how to understand your satellite match at [GLOBE Clouds Satellite Comparison](#). The link(s) below show your data. The satellite names shown correspond to the satellites that matched the time and place of your report.

[Measurement 2026-05-04 19:21:00](#) GOES-18



Satellite: 'GOES 18'.  
Operator: NOAA / NASA.  
Mass: 5192 kg.  
Launched: 1<sup>st</sup> March 2022.  
Orbit: Geostationary.  
Application: Rainfall, fire,  
cloud cover and air quality.



Observation	GLOBE	<a href="#">GOES-18 Satellite</a>
<b>Universal Date/Time</b>	2026-05-04 19:21:00	2026-05-04 19:33
<b>Latitude</b>	55.3	54.98 to 55.62
<b>Longitude</b>	-130.96	-131.28 to -130.64
<b>Total Cloud Cover</b>	Few (<10%)	No Clouds
<b>High Clouds</b>	Short Lived Contrails: 1 Non Spreading Contrails: 0 Cirrus Cover: Few (<10%)	No Clouds
<b>Mid Clouds</b>	Altostratus Cover: Few (<10%) Opacity: Translucent	No Clouds
<b>Low Clouds</b>	Stratus Cover: Few (<10%) Opacity: Translucent	No Clouds
<b>GLOBE Cloud Photos and Corresponding NASA Satellite Images.</b>	<b>GLOBE Photos</b> North  East  South West  Up  Down	<b>GOES-18</b> <a href="#">Visible</a> <a href="#">Infrared</a> <a href="#">GEO Tutorial</a>

Click image to

# NASA Cloud Observer

The light blue column marks the data we collected together out on Deck 10 that very day.

The white column marks the data collected by the satellite GOES 18.

When we have both columns side by side, we can fill in the gaps between ground observations and space orbital observations.

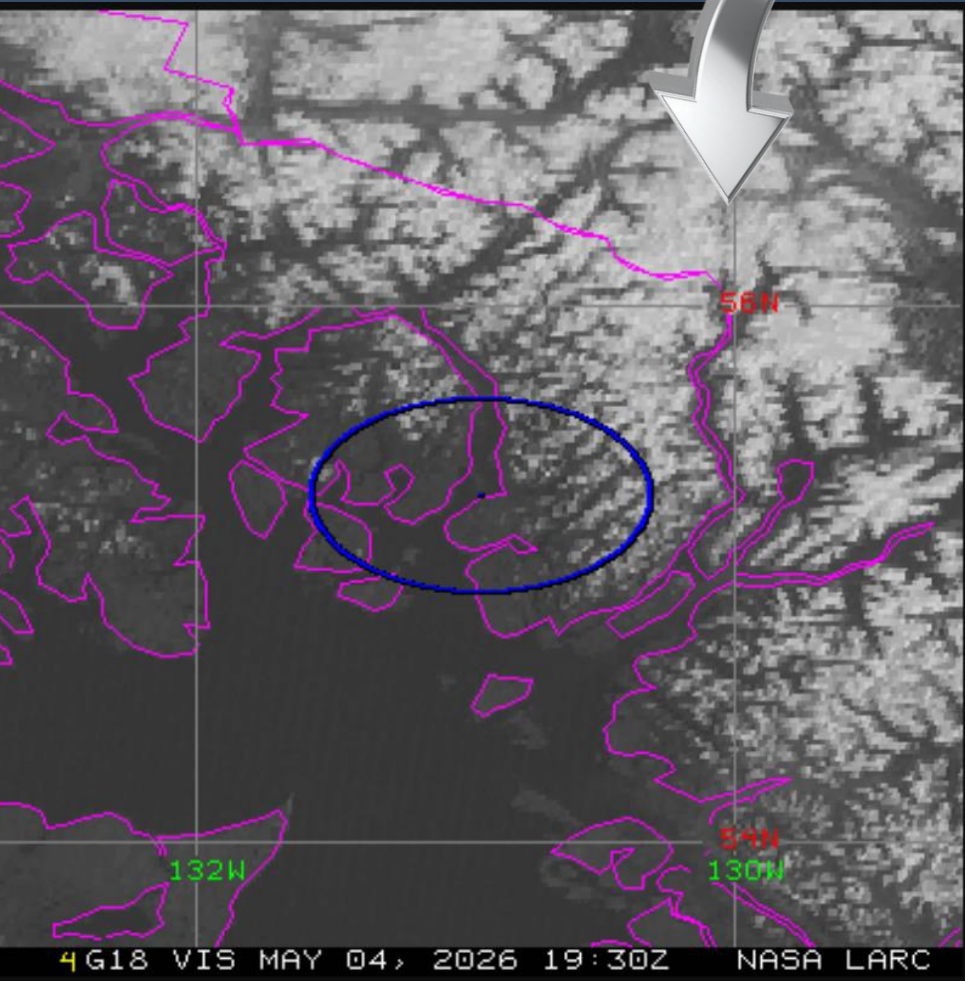
On this day, the sky was very clear and only a few clouds were visible closer to the mountains on land. We were therefore able to provide additional data on clouds that the satellite could not detect.

Thanks for your participation!

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

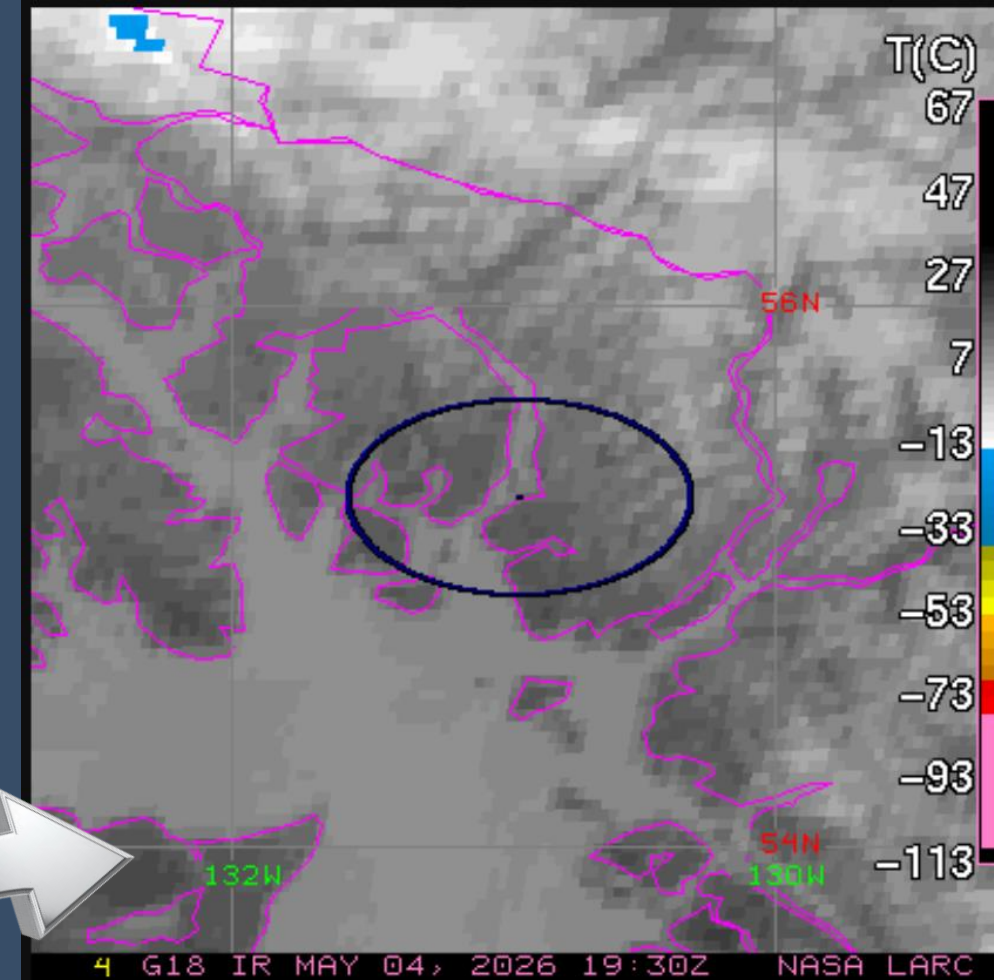
Remember:  
we couldn't see  
many clouds that  
day!

# NASA Cloud Observer



Real colour image. The blue dot marks our position on the ship that day. The blue circle indicates a 40 km diameter from our single data point.

Grey marks the cloud cover, while darker hues indicate land or ocean close to the ship.

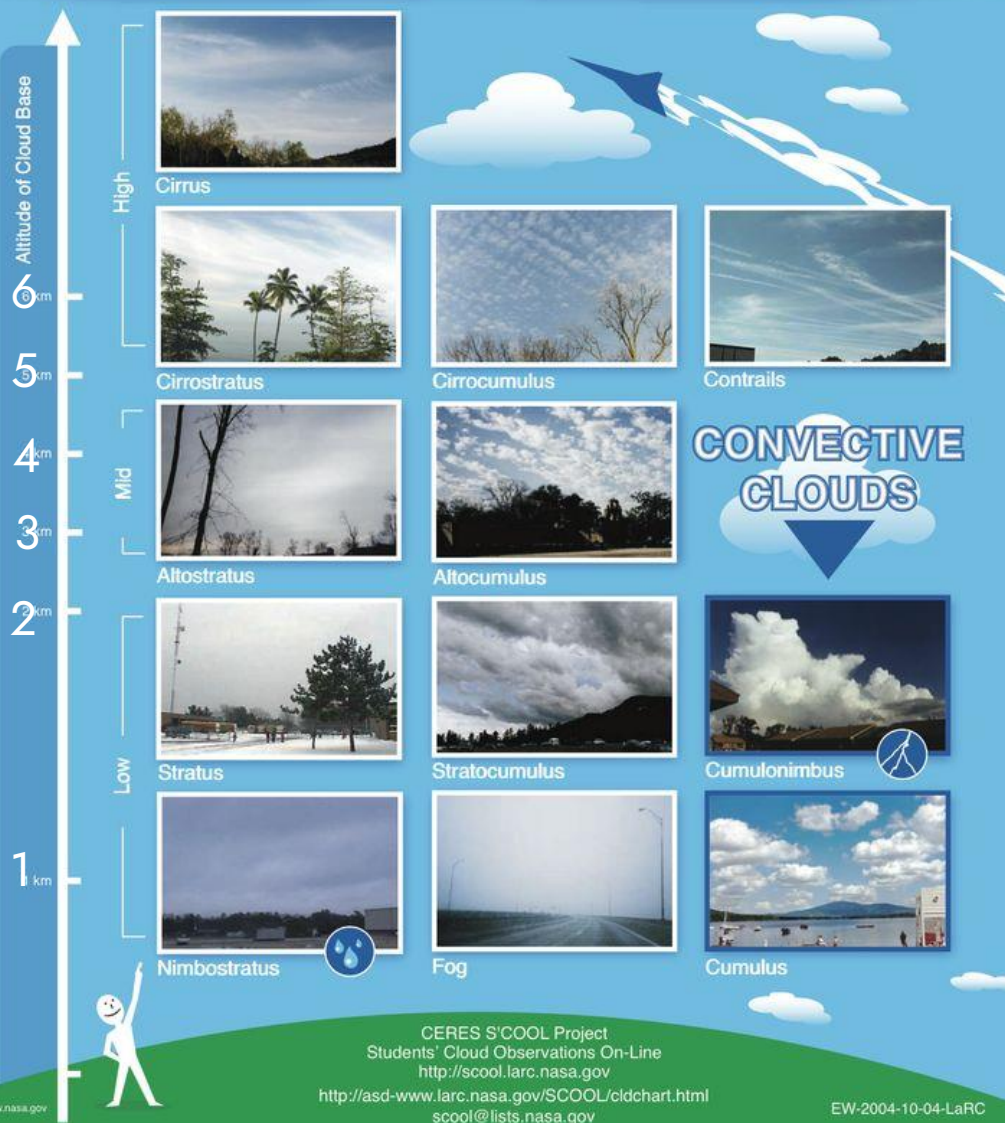


Infrared image where the data legend is in temperature (°C). Grey hues represent positive Celsius values around 7°C. The darker colour indicates land.

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



# S'COOL Cloud Identification Chart



## Citizen Science

# NASA Cloud Observer

### High clouds (base above 6,000 metres):

- **Cirrus:** thin, wispy clouds composed of ice crystals, often appearing as delicate streaks or feathery wisps high in the sky.
- **Cirrostratus:** thin, sheet clouds that cover large portions of the sky, sometimes creating a halo around the sun or moon.
- **Cirrocumulus:** small, fluffy clouds resembling fish scales or ripples.

### Medium clouds (base between 2,000 and 6,000 metres):

- **Altostratus:** thick, greyish clouds that partially obscure the sun or moon, lacking the distinct features of cirrostratus.

### Low clouds (base below 2,000 metres):

- **Stratus:** uniform, grey clouds that cover the sky like a blanket, sometimes bringing drizzle or light rain.
- **Stratocumulus:** low, lumpy clouds with defined edges, often appearing in rows or patches.
- **Nimbostratus:** thick, dark grey clouds associated with steady rain or snow.

If you would like to explore more examples, you can check out [NASA's online cloud chart](#). [View our data](#) on the global map.

# Citizen Science

## Happywhale

Cetaceans — whales, dolphins, and porpoises — capture our imaginations and our hearts whenever we witness them. Something as simple as taking a photograph can help scientists learn more about these animals. That is where Happywhale comes in: by using AI to match images of whales submitted by users, they can track individuals as they migrate across the world and throughout their lives. When you submit a photo of a whale, you will be notified of any past and future matches of that individual.

We spotted a pod of orcas just outside Lituya Bay and submitted pictures of several individuals to Happywhale. We hope to hear back about our orcas — to find out whether they have been seen before, and where and when.

[View MS Roald Amundsen's submissions](#) to Happywhale from our voyage to keep updated about this sighting.



*Jeff Linton*



# Citizen Science **ORCA**

While on your journey through Alaska, you were joined by ORCA Ocean Conservationist Leo, who collected data during wildlife watches on whales, dolphins, and porpoises. This data was sent back to ORCA and made available to organisations working in cetacean conservation.



© Leonie Zimmermann

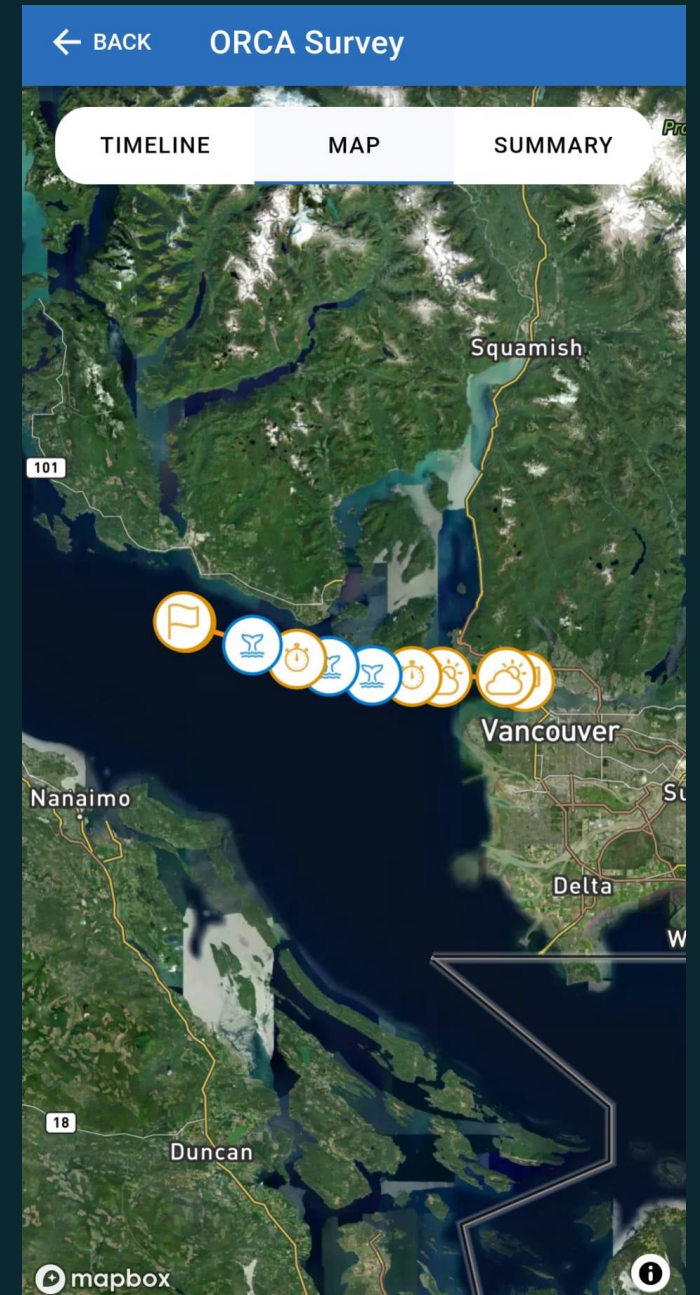
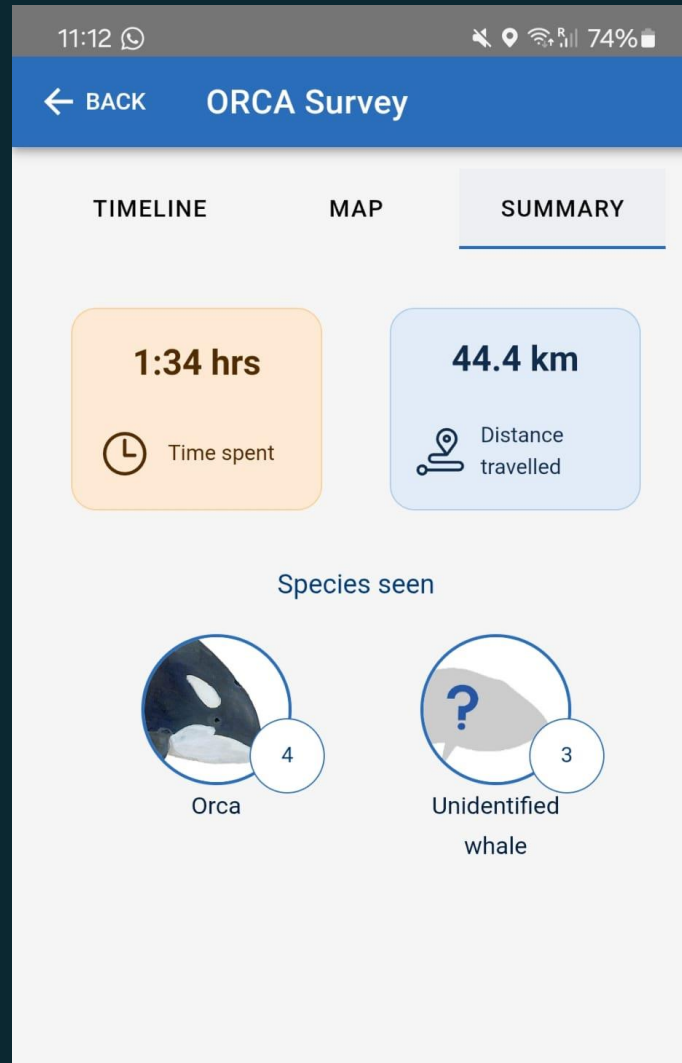


*Jeff Linton*

# OceanWatchers Survey Effort

A huge thank you to everyone who came out and joined the Naturalists for the wildlife watches in all weathers. There might not always have been sightings, but it was a pleasure getting to know you all out on deck.

In total, **31 hours** of data collected, spanning **over 335.2 km**.



# What Species Did We See?

7



Unidentified whales

6



Killer whale

10

Humpback whale



11

Dall's porpoise



1

Harbour porpoise



# Citizen Science iNaturalist

During our voyage we had the chance to explore many different ecosystems: from the rainforest to the intertidal zone and the kelp forest; from rivers and lakes to glaciated fjords. In these habitats we observed a great variety of trees, flowers, marine invertebrates, mammals, and birds.

In total we recorded:

- 146 species
- 430 observations

...and counting, as you upload more photos from home our dataset grows! Through iNaturalist, these observations can now be used as data in global scientific research.

Thanks for your participation!

View our data submitted to our iNaturalist project here:


**[2026 May 2–11: MS Roald Amundsen: Alaska & British Columbia · iNaturalist](#)**



# Citizen Science iNaturalist

## What Did We Observe?

Event in progress



2026 May 2 - 11: MS Roald Amundsen: Alaska & B...

May 2, 2026 - May 11, 2026

About Leave 26





Observations made by guests and staff on the Amundsen's May 2026 Alaska's Inside Passage: Fjords of the Great Land voyage.

Read More > Your Membership

Project Members Only Project Journal

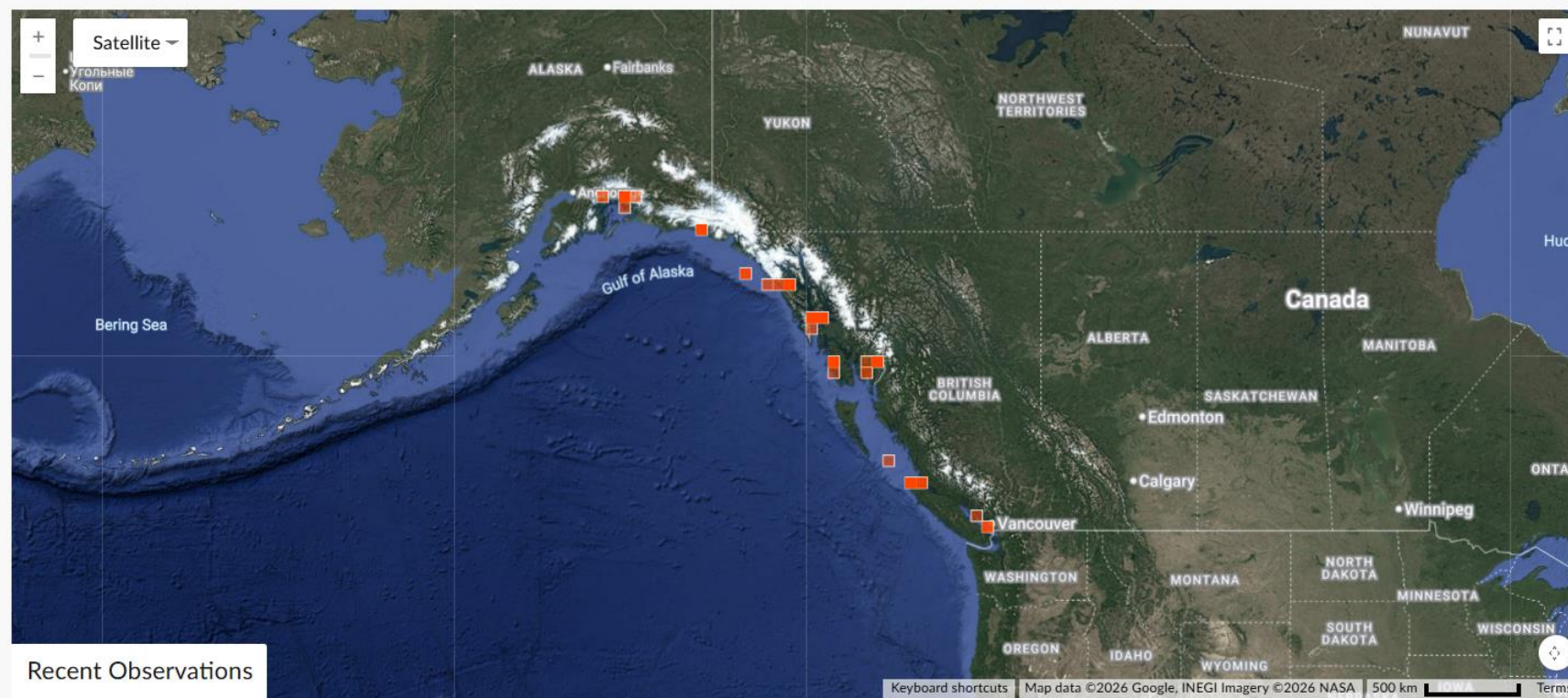
Overview **418** OBSERVATIONS **144** SPECIES **84** IDENTIFIERS **13** OBSERVERS Stats

Recent Observations → View All

 <p>Barrow's Goldeneye · Islandsand · Spatelente <i>Bucephala islandica</i> <span>1 2h</span></p>	 <p>Unknown <span>2h</span></p>	 <p>Harlequin Duck · Harlekinand · Kragenente <i>Histrionicus histrionicus</i> <span>1 2h</span></p>	 <p>Alaska Willow · Alaskavier <i>Salix alaxensis</i> <span>1 20h</span></p>
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Citizen Science  
**iNaturalist**  
Where Did We  
Observe?

Map of Observations





# Citizen Science e-Bird

At sea and on land, our onboard Ornithologists were constantly surveying the birdlife we encountered along our route. The diversity of habitats we travelled through provided an equally diverse array of birds, from the majestic bald eagle to a great variety of ducks and shorebirds.

Including eight onboard wildlife watches and eBird sessions on deck, we recorded 75 bird species across 63 eBird checklists. Through the e-Bird platform, the data we collected is available to scientists around the world, helping to understand patterns of bird distribution, migration, and habitat use.

View our data for this trip here:  
**[2026 May 2 - 11: MS Roald Amundsen:  
Alaska & British Columbia, Fjords of the  
Great Land - eBird Trip Report](#)**

# Wildlife List — Birds



# Wildlife List – Birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Branta bernicla</i>	brant	Ringelgans	bernache cravant	ringgås
<i>Branta canadensis</i>	Canada goose	Kanadagans	bernache du canada	kanadagås
<i>Spatula clypeata</i>	northern shoveler	Löffelente	canard souchet	skjeand
<i>Mareca americana</i>	American wigeon	Kanadapfeifente	canard d'amérique	amerikablesand
<i>Anas platyrhynchos</i>	mallard	Stockente	canard colvert	stokkand
<i>Anas acuta</i>	northern pintail	Spießente	canard pilet	stjertand
<i>Anas carolinensis</i>	green-winged teal	Carolinakrickente	sarcelle à ailes vertes	amerikakrikkand
<i>Aythya collaris</i>	ring-necked duck	Ringschnabelente	fuligule à collier	ringand
<i>Aythya affinis</i>	lesser scaup	Kanadabergente	petit fuligule	purpurhodeand
<i>Histrionicus histrionicus</i>	harlequin duck	Kragenente	arlequin plongeur	harlekinand
<i>Melanitta perspicillata</i>	surf scoter	Brillenente	macreuse à front blanc	brilleand
<i>Melanitta deglandi</i>	white-winged scoter	Höckersamtente	macreuse à ailes blanches	knoppsjørre
<i>Bucephala islandica</i>	Barrow's goldeneye	Spatelente	garrot d'islande	islandsand
<i>Mergus merganser</i>	common merganser	Gänsesäger	grand harle	laksand
<i>Mergus serrator</i>	red-breasted merganser	Mittelsäger	harle huppé	siland

# Wildlife List – Birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Podiceps grisegena</i>	red-necked grebe	Rothalstaucher	grèbe jougris	gråstrupedykker
<i>Columba livia</i>	rock pigeon	Felsentaube	pigeon biset	klippedue (bydue)
<i>Selasphorus rufus</i>	rufous hummingbird	Rotrücken-Zimtelfe	colibri roux	rødkolibri
<i>Haematopus bachmani</i>	black oystercatcher	Klippenausternfischer	huîtrier de Bachman	amerikasvarttjeld
<i>Numenius hudsonicus</i>	Hudsonian whimbrel	Hudsonbrachvogel	courlis hudsonien	tundraspove
<i>Limosa haemastica</i>	Hudsonian godwit	Hudsonschnepfe	barge hudsonienne	svartvingespove
<i>Actitis macularius</i>	spotted sandpiper	Drosseluferläufer	chevalier grivelé	flekksnipe
<i>Tringa incana</i>	wandering tattler	Wanderwasserläufer	chevalier errant	alaskavandresnipe
<i>Tringa flavipes</i>	lesser yellowlegs	Kleiner Gelbschenkel	petit chevalier	gulbeinsnipe
<i>Tringa melanoleuca</i>	greater yellowlegs	Großer Gelbschenkel	grand chevalier	plystresnipe
<i>Arenaria melanocephala</i>	black turnstone	Schwarzkopf-Steinwälzer	tournepierre noir	svartsteinvender
<i>Calidris alpina</i>	dunlin	Alpenstrandläufer	bécasseau variable	myrsnipe
<i>Antigone canadensis</i>	sandhill crane	Kanadakranich	grue du Canada	kanadatrane
<i>Cerorhinca monocerata</i>	rhinoceros auklet	Nashornalk	macareux rhinocéros	neshornlunde
<i>Fratercula cirrhata</i>	tufted puffin	Gelbschopflund	macareux huppé	topplunde

# Wildlife List – Birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Brachyramphus brevirostris</i>	Kittlitz's murrelet	Kurzschnabelalk	guillemot de Kittlitz	kortnebbdvergteist
<i>Brachyramphus marmoratus</i>	marbled murrelet	Marmelalk	guillemot marbré	marmordvergteist
<i>Cephus columba</i>	pigeon guillemot	Taubenteiste	guillemot colombin	beringteist
<i>Uria aalge</i>	common murre	Trottellumme	guillemot marmette	lomvi
<i>Rissa tridactyla</i>	black-legged kittiwake	Dreizehenmöwe	mouette tridactyle	krykkje
<i>Larus brachyrhynchus</i>	short-billed gull	Kurzschnabel-Sturmmöwe	goéland à bec court	kortnebbmåke
<i>Larus californicus</i>	California gull	Kaliforniermöwe	goéland de Californie	præriegråmåke
<i>Larus glaucescens</i>	glaucous-winged gull	Beringmöwe	goéland à ailes grises	gråvingemåke
<i>Sterna paradisaea</i>	Arctic tern	Küstenseeschwalbe	sterne arctique	rødnebbterne
<i>Gavia stellata</i>	red-throated loon	Sternaucher	plongeon catmarin	smålom
<i>Gavia pacifica</i>	Pacific loon	Pazifiktaucher	plongeon du Pacifique	amerikastorlom
<i>Gavia immer</i>	common loon	Eistaucher	plongeon huard	islom
<i>Phoebastria nigripes</i>	black-footed albatross	Schwarzfußalbatros	albatros à pieds noirs	svartfotalbatross
<i>Podiceps auritus</i>	horned grebe	Ohrentaucher	grèbe esclavon	horndykker
<i>Phalacrocorax pelagicus</i>	pelagic cormorant	Meerscharbe	cormoran pélagique	beringskarv

# Wildlife List – Birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Haliaeetus leucocephalus</i>	bald eagle	Weißkopf-Seeadler	pygargue à tête blanche	hvithodehavørn
<i>Megaceryle alcyon</i>	belted kingfisher	Gürtelfischer	martin-pêcheur d'Amérique	belteisfugl
<i>Sphyrapicus ruber</i>	red-breasted sapsucker	Feuerkopf-Saftlecker	pic à poitrine rouge	rødbrystsevjespett
<i>Cyanocitta stelleri</i>	Steller's jay	Diademhäher	geai de Steller	furuskrike
<i>Pica hudsonia</i>	black-billed magpie	Hudsonelster	pie d'Amérique	svartnebbskjære
<i>Corvus brachyrhynchos</i>	American crow	Amerikakrähé	corneille d'Amérique	amerikakrähé
<i>Corvus corax</i>	common raven	Kolkrabe	grand corbeau	ravn
<i>Tachycineta bicolor</i>	tree swallow	Sumpfschwalbe	hirondelle bicolore	tresvale
<i>Ixoreus naevius</i>	varied thrush	Halsbanddrossel	grive à collier	båndtrost
<i>Catharus ustulatus</i>	Swainson's thrush	Zwergmusendrossel	grive à dos roussâtre	brunkinnskogtrost
<i>Catharus guttatus</i>	hermit thrush	Einsiedler-Musendrossel	grive solitaire	eremittskogtrost
<i>Turdus migratorius</i>	American robin	Wanderdrossel	merle d'Amérique	vandretrost
<i>Anthus rubescens</i>	American pipit	Pazifikpieper	pipit d'Amérique	myrpiplerke
<i>Passerella iliaca</i>	fox sparrow	Fuchsammer	bruant fauve	revespurv
<i>Junco hyemalis</i>	dark-eyed junco	Winterammer	junco ardoisé	vinterjunko
<i>Zonotrichia atricapilla</i>	golden-crowned sparrow	Kronenammer	bruant à couronne dorée	gulkronespurv

# Wildlife List – Birds

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Passerculus sandwichensis</i>	savannah sparrow	Grasammer	bruant des prés	musespurv
<i>Melospiza melodia</i>	song sparrow	Singammer	bruant chanteur	sangspurv
<i>Leiothlypis celata</i>	orange-crowned warbler	Orangefleck-Waldsänger	paruline verdâtre	oransjekroneparula
<i>Setophaga townsendi</i>	Townsend's warbler	Townsendwaldsänger	paruline de Townsend	granparula
<i>Cardellina pusilla</i>	Wilson's warbler	Mönchswaldsänger	paruline à calotte noire	kalottparula

# Wildlife List – Mammals



# Wildlife List – Marine Mammals

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Megaptera novaeangliae</i>	humpback whale	Buckelwal	baleine à bosse	knølhval
<i>Orcinus orca</i>	killer whale, orca	Schwertwal, Orka	orque	spekkhogger
<i>Phocoenoides dalli</i>	Dall's porpoise, Dall porpoise	Weißflankenschweinswal	marsouin de Dall	Dalls nise
<i>Eumetopias jubatus</i>	Steller sea lion	Stellerscher Seelöwe	lion de mer de Steller	hvalross
<i>Phoca vitulina</i>	harbour seal	Seehund	phoque commun	steinkobbe
<i>Enhydra lutris</i>	sea otter	Meerotter	loutre de mer	havoter

# Wildlife List – Terrestrial Mammals

SCIENTIFIC NAME	ENGLISH	DEUTSCH	FRANÇAIS	NORSK
<i>Tamiasciurus hudsonicus</i>	American red squirrel	Gemeines Rothörnchen	écureuil roux américain	amerikansk ekorn
<i>Oreamnos americanus</i>	mountain goat	Schneezeige	chèvre es montagnes rocheuses	snøgeit
<i>Lontra canadensis</i>	North American river otter	Nord-amerikanischer Fischotter	loutre de rivière	amerikaoter
<i>Neogale vison</i>	American mink	Amerikanischer Nerz	vison d'Amérique	mink
<i>Canis latrans ssp. Incolatus</i>	northern coyote	Kojote	coyote	præriedulv

A spotted seal is swimming in the water, its head and eyes visible above the surface. The water is calm with some ripples. The seal has a light-colored body with dark spots and whiskers.

**Thank you for your  
participation!**