Find the clearest way ahead

Streamline your journey with IcySea

ICY SEA

Find the clearest way ahead: with one easy-to-use solution

Wherever sea ice or icebergs are present, you risk delays, increased transit times, higher fuel costs or worse.

So, you need the best ice information on-board – to help you safely steer the most direct route, reduce costs, and meet the requirements of the Polar Code.

You also want to focus on navigation, not on huge quantities of ice data. That's why we created IcySea – the most elegant solution to streamline your journey and save time and money.

Purpose-designed for clarity

With IcySea you don't have to switch between numerous different sources of sea ice data. The app aims to take care of that cumbersome task for you and combine the best of available sea ice satellite imagery with advanced software and a user-friendly interface.

IcySea's map-based interface delivers actionable information to any modern PC, tablet or smartphone. Just tap or click on the grid to get the overall sea ice distribution in the region, or dive deeper for up-to-date Sentinel-1 radar imagery of what's ahead – using our grid-based approach.

IcySea delivers reliable and timely global information about sea ice within two to four hours from the satellite recording, so that you can always find the safest, most cost-effective route.

Actionable information

Weather data*

In-situ data*

Sea ice model forecasts
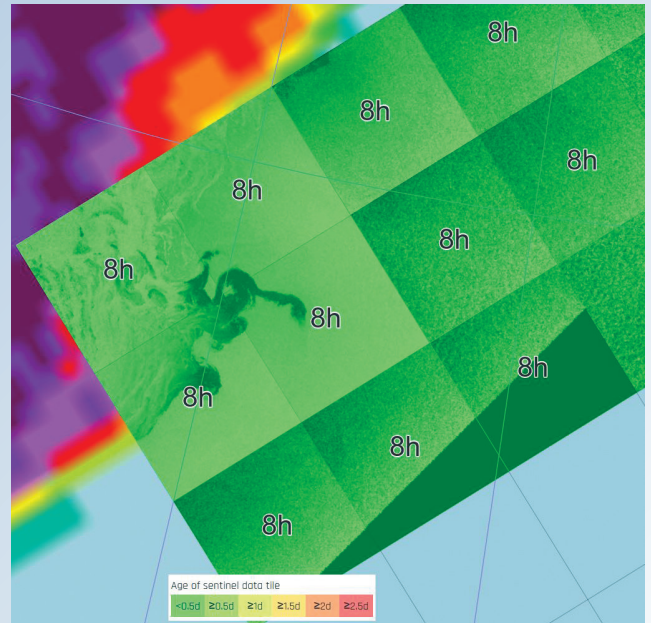
Ice type*

Ice age*

Icebergs*

Satellite images

Ice thickness*

Ice charts*

Historical data*

Vessel traffic data*

Ice drift

* Planned (status Oct 2020)

IcySea aims to surface the most important data from multiple sources, so you can make informed decisions on the safest route – faster.

Age of sentinel data tile
<0.5d ≥0.5d ≥1d ≥1.5d ≥2d ≥2.5d

See Sentinel-1 radar imagery and the age of information with a single click.

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The always-on app

IcySea solves another issue of navigating icy seas – the fragmented nature of data sources, many of which are not always online or designed to meet the mission-critical demands of shipping.

In contrast, the IcySea solution works globally and covers both polar regions. The robust backend architecture of IcySea optimises and delivers data in real-time, 24/7, all year round – providing a single source of constantly updated relevant sea ice data.
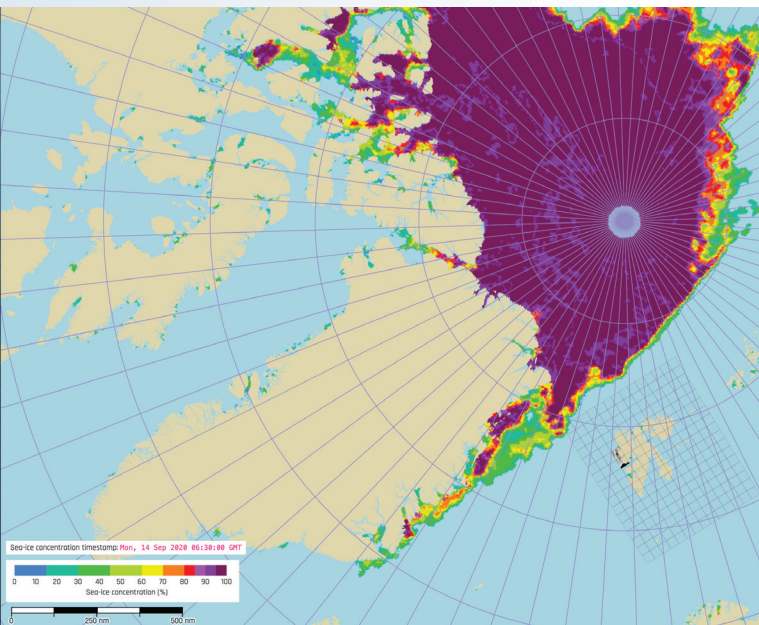
Even when your internet connection is poor, we help to ensure you receive ever-changing ice information, by providing different resolutions of map imagery within our app. It's another way we help you to stay safe, wherever your vessel goes.
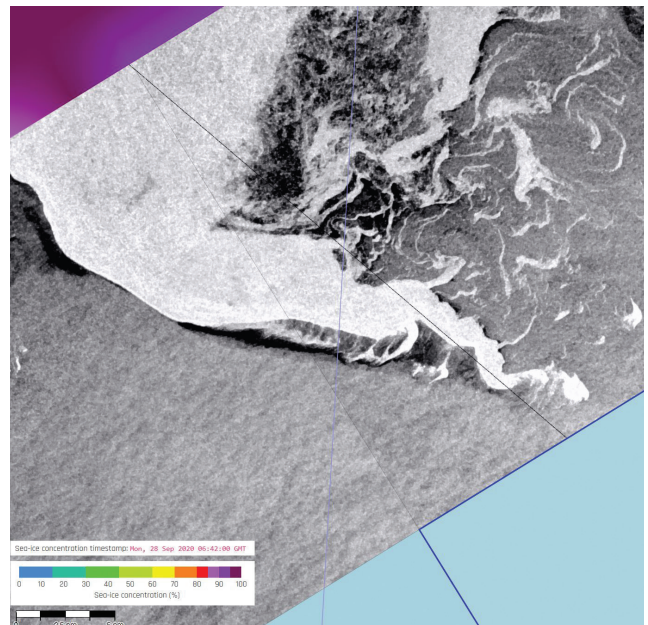
Take the free IcySea app trial

Your safety and profitability depend on successfully navigating sea ice in the most efficient way. A trial of IcySea demonstrates how useful it is for your ice navigation challenges. Try it now – sign up for our free 14-day trial and unlock the full functionality to see what makes IcySea special.

Register for free on www.icysea.org

Quickly view sea ice concentration as a percentage

Zoom into hi-res images to see details such as individual ice floes

IcySea: driven by research, for real-world use

IcySea is a product of Drift+Noise, a spin-off from the Alfred Wegener Institute in Bremerhaven, Germany. The company, founded by a team of professionals with more than 15 years of experience operating in the polar regions, geophysical exploration of sea ice, and software development, has received support from the ESA business incubation centre Northern Germany.

We are researchers at heart but also innovative software developers who know first-hand what it takes to navigate remote, ice-laden polar regions. IcySea translates all of our knowledge into an intuitive and cutting-edge app that does everything a polar shipping company needs – ensuring safety, reducing costs, and speeding up transit times.

As we continue to innovate, the IcySea app evolves with us. We continuously work on updates and improvements that will further enhance your navigation experience.

The first version of IcySea was developed under the Copernicus Marine Service User Uptake Programme in cooperation with the Meteorological Institute of Norway.

Norwegian Meteorological Institute

COPERNICUS · MARINE ENVIRONMENT MONITORING SERVICE
CMEMS DEMONSTRATION ARCTIC OCEAN
Copernicus · MERCATOR OCEAN
IcySea Contract 110-DEM5-L5 Until 31 March 2021

What our users say

"The intuitive GUI and data searching functionality was easy to learn and was useable by all parties integrating this data into their workflows, from scientists to members of the ship's crew who may or may not have had any prior experience with geospatial data/GIS packages."

Dr Frazer Christie,
Research Associate
in Glacier Geophysics,
Scott Polar Research Institute,
University of Cambridge, UK

"IcySea was a superb and very effective way of downloading and displaying a variety of remote sensing satellite images for the Weddell Sea Expedition to Antarctica in 2019. It was used every day on the bridge of the expedition ship, the S.A. Agulhas II, to help us navigate through the dense and thick multi-year sea ice found in the western Weddell Sea."

Dr John Shears,
Expedition Leader,
Weddell Sea Expedition 2019,
S.A. Agulhas II

Contact us

Take the first step to streamlining your polar shipping journeys with IcySea. Contact our team for more information now, or take a free trial here:

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