

Weather

Up-to-date weather that facilitates optimal planning for safe voyages.

Weather is one of the most crucial factors that determines the safety, cost, schedule and overall viability of a maritime voyage. Mariners rely on weather data to put together comprehensive passage plans that account for risk and determine scheduling and routing throughout a journey.

Bad weather is bad news for ships and their crews. Extreme conditions can risk the safety of the ship, its cargo, and not least, its crew. Efficient weather planning mitigates this risk, while allowing your company to save on fuel costs and to maintain schedules.

Weather planning is about more than just knowing the forecast. In maritime, it's important to understand how predicted conditions and sea states will affect the ship's design, speed, bearings and roll. What effect will the laden level have on the ship's ability to react to or circumvent bad weather?

Manually planning the safest and most cost-effective route can take a lot of time, and even the most concerted manual effort can prove inefficient if weather conditions change.

A smarter solution

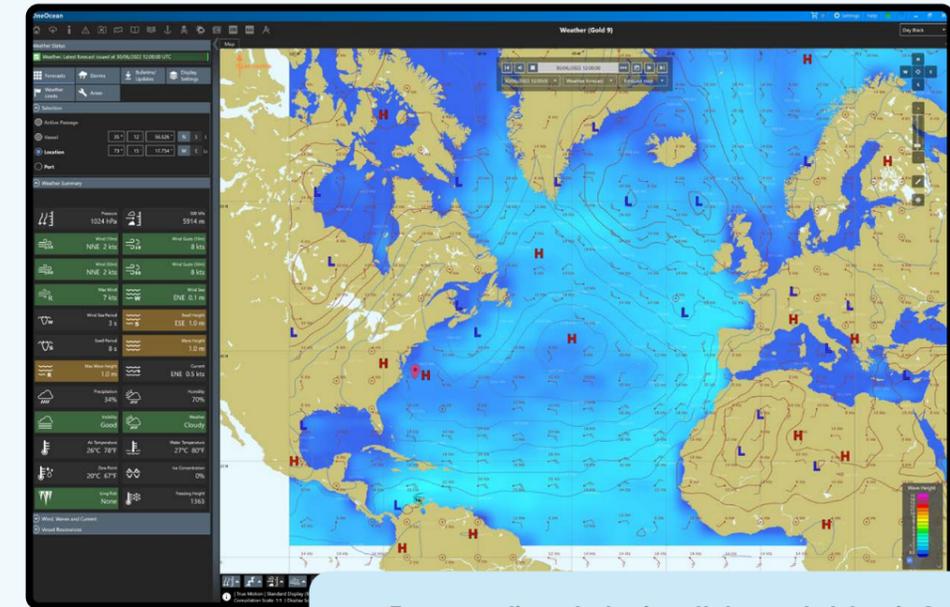
The OneOcean Weather module collects and visually displays information on the predicted meteorological conditions at any location around the world, including near and along contemplated routes.

This data is consolidated with navigational information and presented visually on one dynamic chart display using the NOAA scale. OneOcean Weather can be used in the appraisal process to monitor conditions and adjust planning.

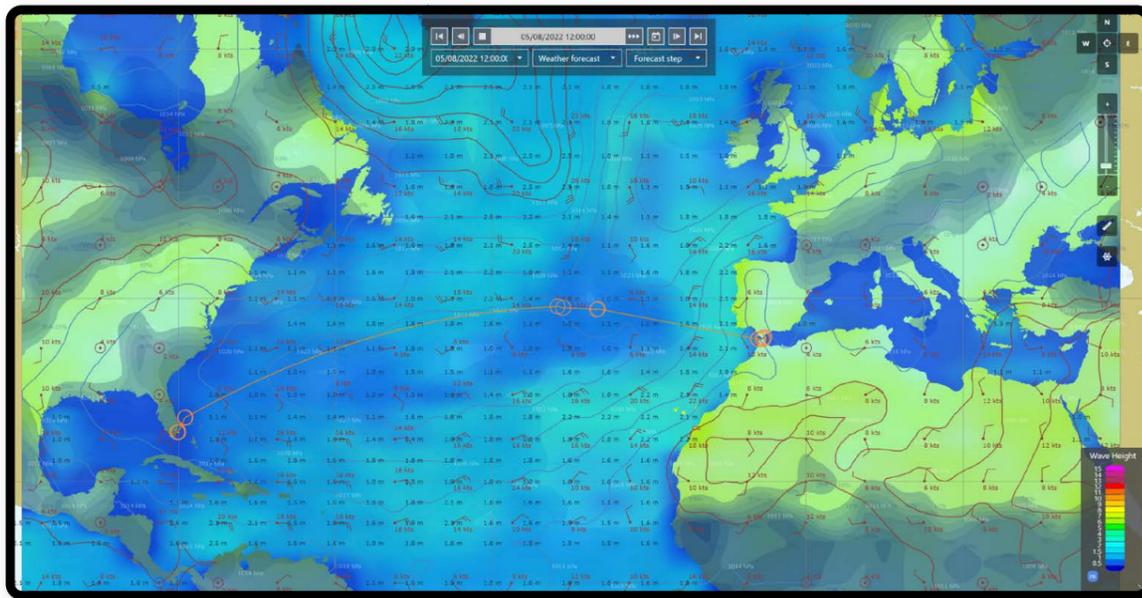
Simulate weather

OneOcean's Weather Simulator tool predicts how forecasted weather will affect a vessel throughout its voyage. It does so using an advanced AI algorithm that relies on the latest weather conditions. The simulation gives a visual prediction of the impact weather and sea states will have on a vessel, based on the ship's parameters, laden level, course and speed.

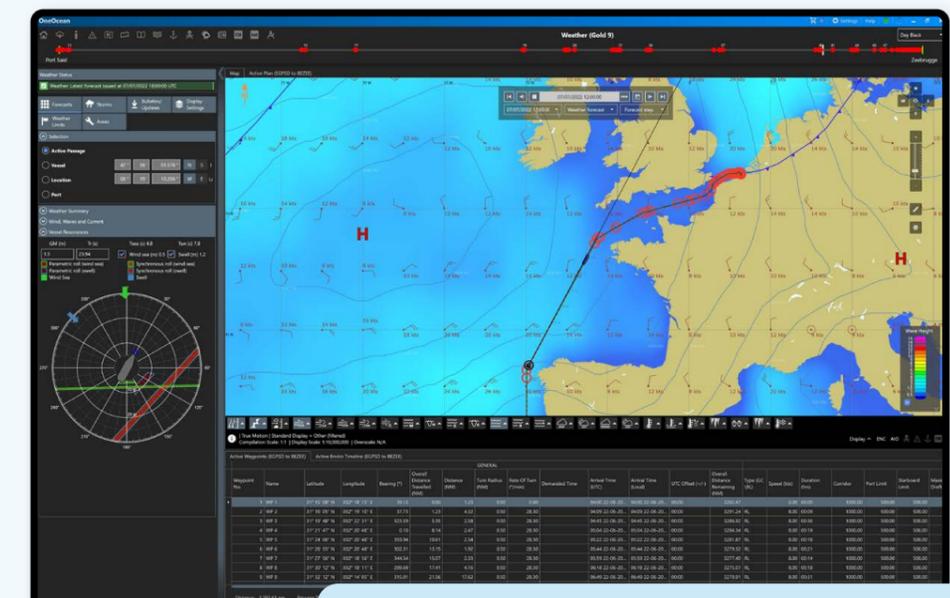
Using Weather as part of Voyage Planner, you can also set weather limits, such as maximum wave heights, wind speeds and minimum distance from storms that a vessel can safely sail in. When a route is plotted in OneOcean's Voyage Planner, these limits will be taken into account and flagged visually if the proposed route presents a safety issue.



- Ensure readiness by having all the needed data in front of you
- Be prepared for possibilities caused by bad weather
- Assess conditions at specific coordinates and determine if these exceed pre-defined safety limits



- Assess weather at a global level
- Use the platform's intuitive display to determine a safe, viable and timely route



- Visualise how precipitation, wind and wind gusts affect wave heights, swells and visibility
- Combine weather and vessel data to display routes optimised for fuel and cost savings

Understanding and improving

Condition assessments: The system allows you to assess and understand the multiple elements of risk bad weather imposes on your fleet. By using this data, your teams can increase situational awareness and ensure optimal routing for safe navigation.

- ✓ **Access weather and sea state conditions by category**
- ✓ **Visualise weather factors and impact levels**
- ✓ **Determine if forecasted conditions fall within pre-set safety parameters**

Safety improvement: Simulating the expected weather conditions allows teams to be fully aware of the variables in relation to the vessel's limitations. This awareness includes being able to analyse vessel resonances to avoid, for example, parametric rolling. All this serves to improve safety.

- ✓ **See when vessels are predicted to encounter weather conditions**
- ✓ **Modify waypoints to avoid bad weather and optimise weather windows**

Contact us today to see how the Weather module can deliver greater efficiency and peace of mind. Don't hesitate to request a demo or to talk about the complete suite of OneOcean solutions.

Get in touch today:

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Email enquiries@oneocean.com

Visit www.oneocean.com
for more details about our solutions



OneOcean