

OneOcean



Voyage Performance & Optimisation:

Shoreside Routing

Advanced routing technology,
powered by Master Mariners

Static planning falls short in a **dynamic world**

Balancing commercial outcomes with decarbonisation goals and safety is becoming more difficult as environmental regulations tighten. Climate change is also increasing volatility and uncertainty at sea, while charterers face increasing complexity in meeting contract terms and performance benchmarks whilst shipowners are under pressure to maximise fuel efficiency and reduce operational costs.

Traditional voyage planning tools are static and quickly become outdated once a voyage begins. They cannot adapt to shifting conditions such as weather surges, congestion, route restrictions, or geopolitical risks. In high-pressure situations, crews can be forced to make decisions based on incomplete data that lacks context, opening the door to inefficiency and operational risk. It is time for voyage planning that's as dynamic as the world's oceans.





Shoreside Routing

Shoreside Routing combines advanced technology with 24/7 maritime expertise to optimise every voyage from start to finish. Led by Master Mariners, our human-in-the-loop approach blends real-time data, ship-specific performance models, and operational insight to deliver safe, compliant, and profitable routing.

Our multi-objective optimisation engine, combined with 3D motion simulation, continuously monitors conditions and adjusts recommendations to balance commercial outcomes, safety, and environmental goals. Live weather, congestion, and risk updates give operators the situational awareness they need to make confident, proactive decisions.

Integrated Charter Party (CP) Management enables you to track CP terms, minimise deviations, and strengthen claims with trusted reports. Both shore and ship teams work from the same situational picture, reducing workload and ensuring coordinated action.

The result is routing that adapts in real time, improves performance, and supports your commercial and environmental objectives.

Proactive routing for unpredictable seas



Improve safety, security, and efficiency

Shoreside Routing combines multi-objective route optimisation, ship-specific performance models, and motion simulation to recommend the safest and most efficient course of action.



Reduce environmental impact

Follow optimal routes supported by 24/7 advice from our experienced team, led by Master Mariners, to reduce fuel consumption and emissions while meeting decarbonisation goals.



Enhance decision-making and accuracy

Machine learning vessel models are regularly retrained to simulate current vessel performance, providing accurate forecasts and actionable insights.



Human expertise at the core

Unlike automated tools, every recommendation is reviewed by an experienced team led by Master Mariners, who assess multiple data sources and adapt plans to real-world conditions.



Optimise charter outcomes and avoid penalties

Integrated Charter Party (CP) Management tools track compliance with CP speed and fuel clauses, helping you avoid penalties, achieve just-in-time arrivals, and strengthen claims with trusted reports.



Enhance situational awareness

Shared data between shore and ship ensures both teams are aligned and informed, enabling coordinated responses to changing conditions.

Proactive routing for unpredictable seas



Reduce crew workload

By offloading complex routing decisions to our expert team, onboard crews can focus on safe navigation and core operational duties.



Adapt to real-time developments

Routes are updated continuously to account for weather, congestion, risk alerts, and operational changes so every voyage is optimised from start to finish.

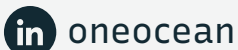
Features designed to keep you **on the front foot**

- ✓ Multi-objective route optimisation engine combined with 3D motion simulation.
- ✓ Machine learning ship-specific performance models.
- ✓ 24/7 expert routing advice from a team of experts led by Master Mariners.
- ✓ Integrated Charter Party Management and claims support.
- ✓ Real-time monitoring with live weather, congestion, and risk overlays.
- ✓ Shared situational awareness for shipboard and shore teams.
- ✓ High-quality ENC chart layers and AIS tracking.
- ✓ 15-day forecast and historical weather visualisation.

Find out more about **Shoreside Routing**



oneocean.com/SSR
enquiries@oneocean.com



Lloyd's Register and variants of it are trading names of Lloyd's Register Group Limited, its subsidiaries and affiliates. Copyright © OneOcean Group Limited. 2025. A member of the Lloyd's Register group.

OneOcean