

# Ship Routing

## Getting You There Safely and Efficiently

Our experienced staff of weather routing experts will recommend the optimum route, taking into account an analysis of all variables, including the weather, currents, vessel type, age, stability, cargo and speed. StormGeo uses its proprietary application, Ship Route Optimization System — the most sophisticated weather routing tool available today.

### /01

#### Improved Safety

Alerts show where severe motions are most likely to occur along a route and indicate headings and/or speeds to minimize the impact of heavy weather damage. We find the most efficient route and keep your crew, vessel and cargo safe.

### /02

#### Time and/or Fuel Savings

We integrate vessel specifications, such as vessel type, age, stability, cargo, and speed, as well as environmental factors in our system. Our experienced team of weather routing experts then identify the optimal route.

### /03

#### Documentation that the Captain Knows the Optimum Route

Improves dialogue between the captain and shore-based managers on the intended route and why.

#### Safety and Fuel Efficiency

The combination of experienced ship routing staff and the most sophisticated tools ensures the highest probability of a safe and efficient voyage. StormGeo has developed a ship routing system using artificial intelligence with an extensive alarm system that continuously monitors the vessels and alerts the Route Analyst when action is needed.

The alerts are prioritized so the analyst can quickly address the vessels that need the most help. These alarms cover all facets of the voyage, from administrative details, data quality, vessel and voyage to performance and safety.



StormGeo's shipping division leads the industry with 60,000 ship voyages routed annually."

#### Why Use StormGeo Ship Routing

StormGeo is the only shore-based ship routing company to use vessel and voyage-specific severe motion alerts based on the vessel size, draft, stability, speed, heading and wave conditions. These alerts provide both strategic and tactical guidance to our experienced Route Analysts when evaluating a vessel's route.

The alerts show where severe motions are most likely to occur at a specific time along the route and give an indication on which headings and/or speeds could be used to avoid these areas, thereby minimizing the potential for heavy weather damage. These types of alarms allow StormGeo to find the optimal route while keeping the crew, vessel and cargo safe.

*Examples include:*

- Potential of encountering freak waves, tropical cyclones and explosive deepening storms
- Probability of putting sensitive cargo at risk

## Experienced, Full-Service Ship Routing Support

Our offices are staffed with experts in forecasting, forensic meteorology, oceanography, computer science and voyage planning. Because ships are on the job 24-hours a day, every day during a voyage, StormGeo provides ship operators and masters 24-hour support, year-round.

The services provided by StormGeo include interactions with shipping company offices, initial routing messages for shipmasters, continuous monitoring of the vessel's progress and issuance of voyage performance reports.



With StormGeo (formerly Applied Weather Technology), we get effective communication and a quick response from both the local CST and the U.S. Operations Center. The local CST knows what I need even when I do not explain in much detail, and they handle issues immediately.”

Ms. Tina Yi, Shipping Department Assistant Manager  
Topsheen Shipping Ltd.



StormGeo routing teams are established to promote ship-type expertise – aligning our experts into groups that specialize in each major ship type.

StormGeo has extensive experience and data to help plan your voyage ahead of time and support the speed and consumption claims for routed and un-routed voyages.

### Numerous Sources of Environmental Information for the Best Data

- State-of-the-art oceanic and atmospheric modeling
- Sophisticated and precise satellite remote sensing instrumentation
- Direct, surface-based environmental observations
- Hybrid Coordinate Ocean Model (HYCOM) current data with tidal streams

### Combining Meteorology with Actual Ship Response

Ship routing demands an understanding of the complex relationship between the science of meteorology and the science of naval architecture ship-response algorithms. Voyage analysis that defines the exact relationship between the actual weather encountered and the true effect on speed of advance of any specific vessel requires considerable skill and experience. Industry-renowned scientists in this specialized science head the StormGeo voyage analysis group.