

July 23, 2026

**New Marine Weather App Provides the Fastest Alerts on Vessel Status,
Driving Digital Transformation in Shipping**

Weathernews Launches Smartphone App for AI-Powered Marine Weather Service SeaNavigator

Faster Detection of Navigation Issues; 75% Time Reduction in Workflow for Changing Voyage Plans

[Weathernews Inc.](https://www.weathernews.com) (Headquarters: Chiba, Japan; President and Representative Director: Tomohiro Ishibashi) has launched a smartphone app for SeaNavigator, its AI-powered marine weather service, enabling faster vessel status monitoring and more streamlined navigation decision-making.

The app delivers timely push notifications to dispatchers (shore-side operators) regarding navigational issues and route changes, eliminating the delays inherent in conventional email communications. In addition to automatically detecting and notifying users of vessel speed reductions and drifting based on AIS (Automatic Identification System) data, the app also features a workflow that enables dispatchers to review and approve route and speed recommendations from Weathernews directly from a smartphone. Notifications prompt shore-side operators to instantly check high-resolution wind and wave forecasts and vessel data on their smartphones.

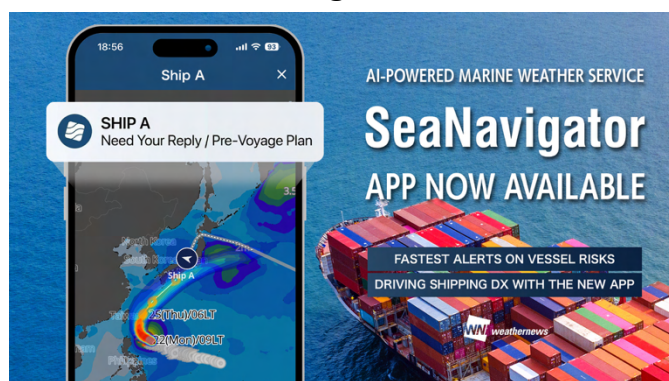
In pre-launch trials, the process of proposing a route change and issuing instructions to the vessel (which had previously taken an average of 24 hours) was reduced to roughly 6 hours, demonstrating a significant improvement in response time. Land-based operators can also choose to receive only the push notifications relevant to them, allowing them to stay on top of critical risks instantly even when away from their desks. Furthermore, the status of voyage plan changes is automatically synced in real time with the desktop version of the service, ensuring that the entire team maintains an accurate and up-to-date picture of the situation.

Weathernews will continue to expand the app's functionality to provide powerful support for fast and reliable mobile decision-making not only for shore-side operators at shipping companies, but also for personnel in different departments such as chartering, sales, environmental management, and corporate planning, thereby contributing to greater operational efficiency across shipping companies and helping establish a framework for safe vessel dispatch.

Inquiries about this service	See here for this service
https://sea.weathernews.com/contact	https://sea.weathernews.com/seanavigator

Timely Awareness of Navigation Issues and Faster Route Changes in Severe Weather

In recent years, the shipping industry has seen strong demand for frontline-focused digital transformation aimed at reducing the burden on crews and shore-side operators while enhancing both safety and operational efficiency. Weathernews has supported shipping operators through SeaNavigator, its AI-powered marine weather service, and developed this mobile application after identifying



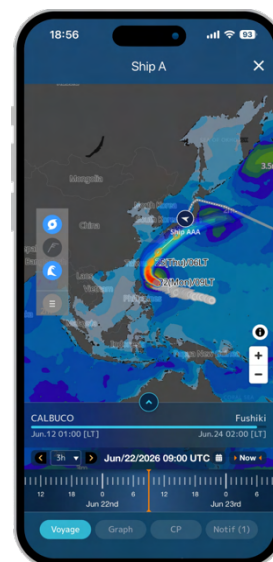
opportunities to accelerate dispatch operations and improve the speed at which navigation issues are detected.

Vessel status monitoring had previously relied primarily on report emails from vessels and on monitoring the SeaNavigator screen at a fixed workstation, making it difficult to gain an immediate understanding of sudden speed changes caused by severe weather when away from the office. The back-and-forth of emails and the effort required for manual confirmations in the conventional email-based workflow also caused significant delays in issuing instructions to vessels. Weathernews concluded that eliminating these inefficiencies and delays at the source and enabling more timely decision-making required a fundamentally different approach.

Mobile App Developed for AI-Powered Marine Weather Service SeaNavigator

The app's key strengths lie in its ability to rapidly detect navigation issues and accelerate dispatch workflows through real-time alerts. A personalization feature also allows operators to select only the push notifications they need, ensuring critical risks are never missed while keeping day-to-day operations free from unnecessary interruptions.

Future development plans include expanding the app's push notification capabilities with features such as automatic transmission of approved plans to vessels and route deviation alerts, as well as a request feature that will allow operators to submit changes to destinations, vessel speed, and estimated time of arrival directly from the app.



<Points>

1. Automatic Detection of Navigation Issues from AIS: Instant Push Notification Alerts for Speed Reductions and Drifting
2. Faster Workflow for Changing Voyage Plans Through Push Notifications for Quicker Decision-Making
3. Access the Latest High-Resolution Wind and Wave Forecasts with World-Class Accuracy
4. Stronger Team Coordination Through Seamless Integration Between the SeaNavigator Desktop and Mobile App

1. Automatic Detection of Navigation Issues from AIS: Instant Push Notification Alerts for Speed Reductions and Drifting

The app is equipped with an alert feature that continuously analyzes AIS (Automatic Identification System) data and sends push notifications when abnormal vessel behavior is detected. The app automatically detects sudden speed reductions or drifting (when a vessel comes to a complete stop) outside port areas where deceleration is expected and immediately notifies shore-side operators.

The "Slowdown" notification for speed reductions is triggered when the cumulative deceleration of a vessel exceeds the threshold set for its vessel type. The "Drifting" notification is sent when a vessel's speed remains below 0.5 knots for two or more consecutive hours.

2. Faster Workflow for Changing Voyage Plans Through Push Notifications for Quicker Decision-Making

The app's push notification feature instantly delivers voyage plan changes and other updates to shore-side operators. They can review the recommended route along with the estimated time of arrival (ETA), vessel speed, and projected fuel



Push notification for voyage plan
(notification of recommended route)

consumption on their smartphones and simply tap the "Approve" button to confirm the recommendation, significantly reducing the time required for voyage plan management.

In the past, changing voyage plans involved a slow, email-dependent process that caused significant delays in decision-making. The conventional workflow proceeded as follows: (1) Weathernews detecting weather changes along a route and emailing a proposed plan change to the land-based operator; (2) the land-based operator replying by email to approve the change; and (3) Weathernews reflecting the approved plan in SeaNavigator and notifying the captain by email.

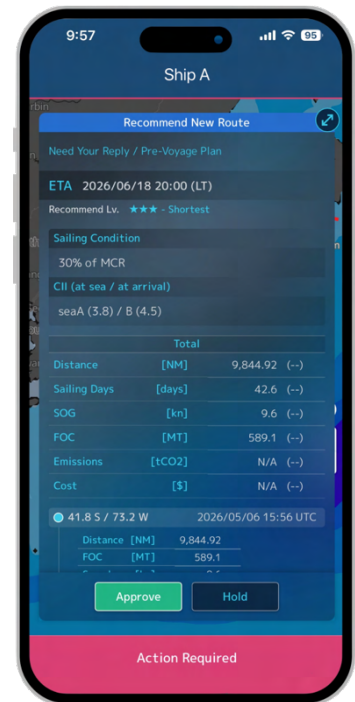
This app eliminates the inefficiencies and delays caused by email-dependent confirmations, enabling more timely decision-making. During pre-launch trials, the average time from Weathernews's initial route change proposal to transmission of the final voyage plan to the vessel was reduced from approximately 24 hours to approximately 6 hours, with the fastest recorded case completed in as little as 23 minutes.

Incoming notifications can also be viewed as a list, with badges color-coded by status so that land-based operators can see at a glance which items require attention. To ensure that critical approval items are never overlooked even on the busiest of days, the app also includes a reminder feature that automatically resends notifications when no action has been taken within a specified period, preventing important notifications from being missed, as can easily happen with conventional email.

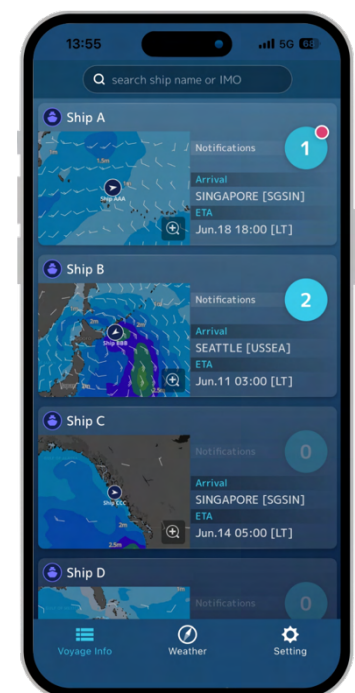
3. Access the Latest High-Resolution Wind and Wave Forecasts with World-Class Accuracy

The app provides high-resolution weather and marine data — including wind direction and speed, wave height and period, ocean currents, and typhoon track forecasts — for any location worldwide. Operators can overlay this data, displayed on a 0.125-degree grid, with the positions of the vessels under their responsibility, allowing them to assess severe weather risks at a glance.

The service's forecasts are powered by Weathernews' proprietary Global Weather and Wave Forecasting System, which delivers world-class forecast accuracy at high resolution. Forecasts are generated by combining more than 80 forecast scenarios derived from ensemble forecasts produced by major meteorological agencies worldwide with weather satellite data and Weathernews' extensive vessel observation network.



Respond to recommended route proposal by pressing "Approve" or "Hold"

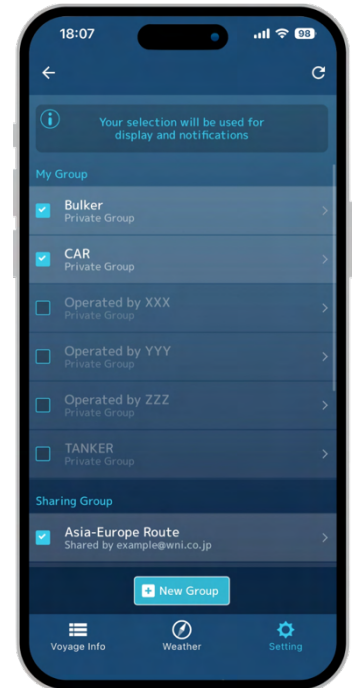


Check the latest arrival times for individual vessels as well as notifications from Weathernews

4. Stronger Team Coordination Through Seamless Integration Between the SeaNavigator Desktop Website and Mobile App

Working alongside the SeaNavigator desktop platform already in use at many shipping companies, the app allows users to receive push notifications on their smartphones before switching to their computers to review detailed voyage and weather information.

Furthermore, rather than displaying all vessels linked to an account, the app features a "Vessel Groups" function, that allows operators to filter their view to show only the vessels under their responsibility. Operators can monitor the current location and status of only selected vessels exclusively, enabling more efficient responses to confirmations and risk management tasks without distraction from unnecessary information or notifications.



Create vessel groups and configure notification settings

Reference: SeaNavigator — The AI-Powered Marine Weather Service

[SeaNavigator](#) is an AI-powered integrated marine weather service that supports safer, more environmentally friendly, and more economical vessel operations across all vessel sizes. The service includes AI Weather Insight, which automatically generates weather and marine analyses covering all ocean areas up to five days in advance and instantly identifies vessels affected by deteriorating weather conditions, as well as AI Agent, which allows users to query vessel performance, fuel data, and more at any time. The service enables users to select optimal routes, visualize CO2 emissions, and mitigate grounding risks — all within a single platform.

In December 2025, Weathernews also released [SeaNavigator for Master](#), a marine weather service designed specifically for onboard use that supports captains' operational decision-making through AI. Using AI Agent, captains can instantly obtain information about weather risks and the rationale behind recommended routes through a conversational chat interface, much like consulting a specialist directly. Designed to overcome the connectivity challenges inherent to operations at sea, the service gives captains access to the latest high-resolution wind and wave forecasts covering all ocean areas, along with a simulation function that automatically calculates optimal routes and a chat tool for ship-to-shore communication, providing powerful support for reliable decision-making at sea.



Inquiries about this service ► <https://sea.weathernews.com/contact>

Leveraging more than 40 years of marine weather expertise and its experience supporting more than 1 million voyages, Weathernews will continue to drive digital transformation in shipping by making the most of AI and mobile technology.