MIROS MOCEAN

MIROS MOCEAN UNLOCKS REAL-TIME VESSEL PERFORMANCE OBSERVATIONS FOR BW DRY CARGO

CASE STUDY

BACKGROUND

BW Dry Cargo maintains a fleet of 14 modern bulk carriers ranging from Ultramax to Capesize. The company was founded in 2016 as the dry cargo arm of BW Group, operating exclusively as a tonnage provider.

Built in 2019, BW RYE is a Kamsarmax bulk carrier with a deadweight tonnage of 81,600 tonnes, operating worldwide, primarily carrying agricultural products.

THE CHALLENGE

BW Dry Cargo, like shipowners worldwide, invests in new fuel-saving technologies to ensure the best possible efficiency of their fleet. However, they face difficulties when trying to measure the actual effect of such technologies.

"Everyone is promised 10% fuel savings here, 5% efficiency gains there, but nobody can measure if that's what they really get. We want to eliminate this uncertainty and make investments that matter, whilst calling time on those that don't," said Christian Bonfils, Managing Director, BW Dry Cargo.

On-board new-built BW RYE, the company was keen to understand whether it was possible to measure vessel speed through water together with environmental conditions, such as wind, waves and currents, with an accuracy that would make it possible to identify a minimum 5% efficiency gain.

THE SOLUTION

The BW Dry Cargo team approached Miros for a solution which accurately measures weather and sea state - the Miros Wavex. Wavex provides measurements of waves, currents and speed through water with unprecedented accuracy.

By combining the vessel's true speed through water and environmental conditions with a number of in-service data points, such as shaft power and fuel oil consumption, BW Dry Cargo is able to eliminate the environmental conditions from the equation and determine the actual performance of the vessel.

"By removing weather from the picture we can understand the vessel's true performance. Furthermore, we're doing it continuously, so we can tweak operations on the go, for optimal performance" explained Michael Schmidt, Head of Newbuildings & Projects, BW Dry Cargo.

CONCLUSION

Using Wavex, Miros' dry-mounted, radar-based technology, BW Dry Cargo was able to combine in-service data points from BW RYE with measured weather conditions from the vessel location.

This enabled them to understand the true value of their investments, as well as to operate the ship more efficiently, saving fuel and, ultimately, reducing carbon emissions.

BW GROUP AND MIROS LAUNCH FUEL-SAVING, EMISSIONS-REDUCING JOINT VENTURE

BW Group's own experience with Miros technology underpins the joint venture, with more than a year of cooperative development behind the new offering, Miros Mocean.

Miros Mocean provides accurate, local measurement of speed through water, waves, and currents on an hourly basis with unprecedented accuracy, thereby enabling real-time performance optimisation, fuel savings and reduced carbon emissions. The data is delivered to a secure Cloud platform accessible aboard the vessel or onshore.

"Access to accurate speed through water and weather data at the precise ship location helped us to save 7% in fuel oil consumption and emissions on a 20-day trans-Pacific voyage by adjusting the operation of the vessel to local conditions", says Christian Bonfils, Managing Director, BW Dry Cargo.

Miros and BW Group are combining their maritime expertise and leading radar technology to launch Miros Mocean. The joint venture aims to disrupt the performance inefficiencies of the shipping industry, providing the necessary tools to bring about a transparent, collaborative, and financially rewarding future for all.

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