



where your data matters

Customer
Case Study

Langstone Harbour Elevates Environmental Monitoring with OceanWise's Port-Log Solution

“Understanding local tidal and wind conditions is a critical part of navigating safely in a shallow natural harbour like Langstone. Being able to share real-time data with our users, be they dinghy sailors or larger vessels under pilotage, is a major step forward for us. I am genuinely pleased to be working with **OceanWise** and their **Port-Log** system, which is assisting all harbour users and making our beautiful harbour a safer place to sail. ”

Billy Johnson, Harbour Master, Langstone Harbour

THE PROJECT FILE

About OceanWise

OceanWise specializes in environmental data management and monitoring solutions that empower organizations to make better operational decisions.

From real-time data platforms to tailored software solutions, OceanWise helps customers optimise processes, enhance safety, and improve efficiency.

About the Project

OceanWise worked closely with the Langstone Harbour Board to develop and implement a solution tailored to the harbour's unique needs. With over a decade of experience, OceanWise specializes in delivering bespoke environmental monitoring solutions that balance operational demands with environmental stewardship.

The Customer

Langstone Harbour, located between Portsmouth and Chichester on the southern coast of Hampshire, is a designated Site of Special Scientific Interest (SSSI) and Special Protection Area (SPA). Managed by the Langstone Harbour Board, the harbour is a hub for commercial shipping, fishing, and leisure boating.

Its environmental significance, combined with diverse human activity, necessitates constant monitoring to ensure a balance between conservation and operational efficiency.

The Need

As a shallow natural harbour, Langstone faces unique challenges in navigation and environmental management. Understanding local tidal and wind conditions is critical for safe and efficient operations.

However, the previous lack of integrated real-time data made accessing this vital information time-consuming and inefficient for operators and harbour users alike.

The harbour required a comprehensive monitoring solution to provide reliable and easily accessible data for decision-making and public use.

The Solution

OceanWise provided Langstone Harbour with a transformative environmental monitoring system built around the **Port-Log** platform. The solution includes tide and weather monitoring equipment integrated with a cloud-based data platform. This system enables real-time monitoring and public access to critical data via the Langstone Harbour website, ensuring transparency and widespread usability.

Key Benefits

- **Enhanced Safety:** Real-time data on tidal and wind conditions allows operators to implement safety protocols, ensuring safer navigation for vessels of all sizes.
- **Operational Efficiency:** Integrated data streamlines decision-making, reducing downtime and improving resource allocation for marine operations.
- **Community Engagement:** Public access to real-time data supports a wide range of users, from dinghy sailors to larger vessels under pilotage, fostering a safer and more informed harbour community.



Why Environmental Monitoring Matters for Marine Sites of Special Interest

Marine Sites of Special Scientific Interest, such as Langstone Harbour, require proactive environmental monitoring to protect biodiversity and unique habitats.

The **Port-Log** system empowers harbour operators to track critical environmental variables—including tidal fluctuations, weather patterns, and potential pollutants—enabling informed management and conservation efforts. This real-time data also ensures compliance with environmental regulations and supports long-term research and sustainable practices.

If you have a specific data visualisation requirement or another challenge that you'd like our help with, please contact us today:

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