Innovasea Partners with BiOceanOr to Deliver Oxygen Forecasts

Innovasea, a global leader in technologically advanced aquatic solutions for aquaculture and fish tracking, announced today that it has partnered with BiOceanOr – an international pioneer in water quality predictions – to add oxygen forecasting to its environmental monitoring solution.

The system uses a combination of regional weather models, physical and biogeochemical oceanographic models and advanced AI-powered algorithms that ingest real-time data from Innovasea's environmental sensors and open data. This allows for in-pen predictions of dissolved oxygen (DO) levels and can warn farmers of low DO events up to 48 hours before they occur. Users can easily access the forecasts and set customizable thresholds in an interactive chart located in the Environmental Monitoring Dashboard in Realfish Pro – a cloud-based precision aquaculture platform that enables fish farmers to monitor, manage, and control key aspects of their farms.

Low DO levels can be fatal. Furthermore, prolonged periods of low oxygen will stress fish populations, leading to reduced appetites, slower growth, and a negative impact on overall health and welfare.

"Being able to predict low dissolved oxygen events empowers farmers to determine when to feed with confidence and helps them mitigate against environmental threats before they happen," said Tim Stone, Innovasea Vice President. "Through this partnership with BiOceanOr, our users will be able to plan feedings better, address changing water conditions, and take a more proactive approach to improve fish health and growth."

The algorithm, trained on over 200 million data points to date, was developed by BiOceanOr in collaboration with several international research agencies. This vast data set allows for more accurate predictions and will continue to improve over time as additional information is collected worldwide.

"Our predictions model is a result of our unique combined expertise in AI-powered analytics, marine biology, fish health and oceanography," explained Gaëtan Fabritius, Chief Business Officer at BiOceanOr. "By integrating predictive services on top of Innovasea's real-time sensors and operation-driven Realfish Pro platform, we can provide farmers with a more complete and actionable service to improve operations and drive sustainable practices."

Oxygen Forecasts is the latest addition to Innovasea's comprehensive environmental monitoring offerings available on Realfish Pro. Today, Realfish Pro is active on more than 700 sites and 25 countries.

Those interested in learning more about adding Oxygen Forecasts to Realfish Pro should reach out to Innovasea through their current sales contact or by using this form.

About Innovasea

Fueled by leading-edge technology and a passion for research and development, Innovasea is revolutionizing aquaculture and advancing the science of fish tracking to make our oceans and freshwater ecosystems sustainable for future generations. With more than 275 employees worldwide, we provide full end-to-end solutions for fish farming and aquatic species research – including quality equipment that's efficient and built to last, expert consulting services, and innovative platforms and products that deliver unrivaled data, information, and insights.
Learn more at Innovasea.com and follow us on LinkedIn and X.

About BiOceanOr

BiOceanOr provides unrivaled data-driven water quality forecasting and correlation services to the aquaculture and water treatment industries. Leveraging expertise in artificial intelligence (AI), marine biology, oceanography and fish health, BiOceanOr has developed a suite of services and associated APIs that collect, analyze, and predict water quality data and the associated operational implications for fish growth, fish welfare, risk mitigation and environmental impact assessment.

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