

Discover the future of sustainable fisheries and aquaculture with NextOcean – your gateway to innovative data solutions using the latest satellite technology.

NextOcean serves as an online marketplace, uniting remote sensing organisations committed to delivering precise, verifiable data to support fisheries and aquaculture operations.

Create an account today to access earth observation data, providing valuable insights for better-informed decision-making in your organisation.



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Register for a free account to explore and purchase our services via the online store

## Service providers



Plymouth Marine Laboratory



## Technical development



## Business development



NOVA SCHOOL OF BUSINESS & ECONOMICS

## Alpha users



## Contact

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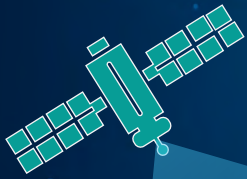
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# NEXT OCEAN

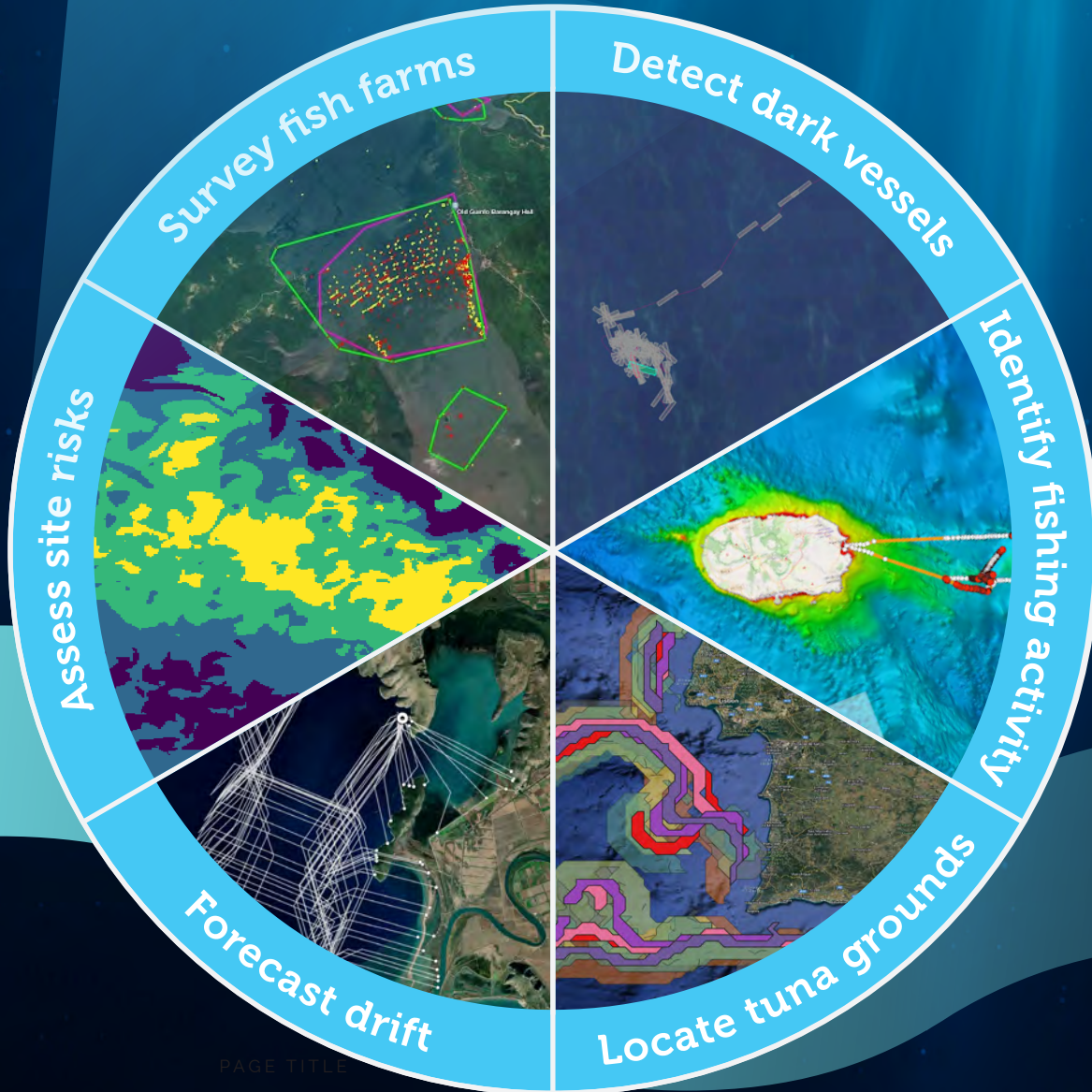
CLEAR INSIGHTS INTO FISHERIES AND AQUACULTURE





# Earth Observation services for fisheries and aquaculture

NextOcean services empower aquaculture operators, fisheries stakeholders, and regulatory authorities with actionable insights and data-driven solutions for effective management and sustainable utilisation of marine resources:



## Site Risk Assessment

- > Analysis of weather and ocean parameters to assess site suitability and risks
- > Provision of forecasts of marine heatwaves to aid in feed planning and risk mitigation
- > Detection of oil spills in the vicinity of aquaculture sites for timely response and environmental protection

## Fish Farm Impacts

- > Environmental impact assessment through simulation of drift and dispersion of litter, such as plastic materials
- > Modelling the trajectory of lost material to understand ecological risks and assist in recovery

## Monitoring of Aquaculture Structures

- > Detection of features using SAR and optical sensors for infrastructure monitoring

## Fishing Activity Indicator

- > Monitoring vessel behaviour to determine fishing activity
- > Aggregating data to show fishing intensity and patterns



## Fisheries Monitoring & Surveillance

- > Automatic detection of suspicious fishing vessels using advanced algorithms

## Characterisation of Fishing Areas

- > Identification of ocean fronts and high biological productivity zones for optimal fishing
- > Specialised analytics for identifying tuna aggregations to support sustainable fishing practices