



# MarineAware Response | Maritime oil spill detection and response

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## Product overview

Protect yourself from the threat of oil spills with MarineAware Response's advanced satellite monitoring and dispersion modelling.

According to UNCTAD, global maritime trade reached 12.3 billion tons in 2023, and the sector is projected to grow by an average of 2.4% annually through 2029. Our seas and waterways have never been so busy.

With increased shipping comes increased risk from oil spills. Thousands of oil spills from ships go unreported each year. These spills threaten marine life, fishing industries, tourism and coastal infrastructure.

**"Just 474 out of more than 90,000 oil slicks from ships around the world were reported to authorities over a five-year period"**

Chronic oiling in global oceans, Science Vol. 376, No. 6599

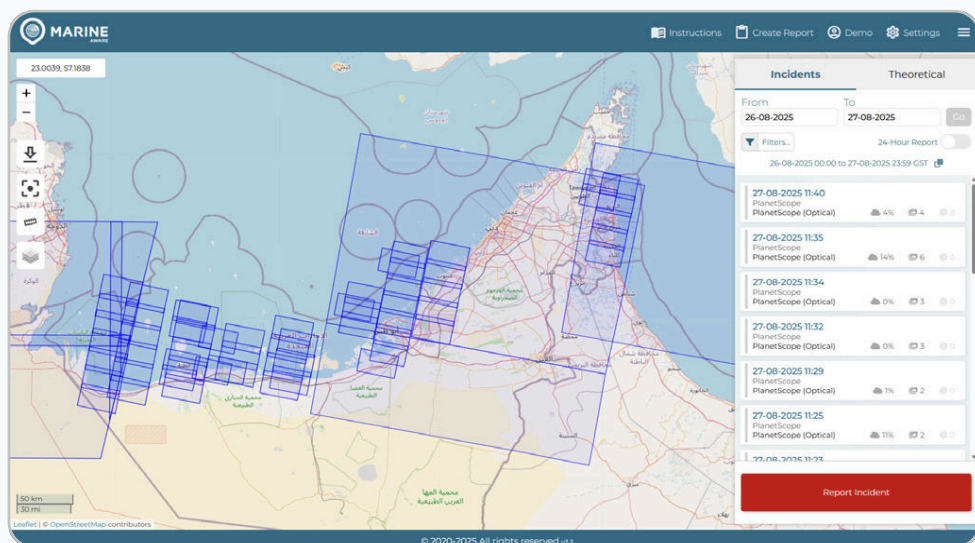
MarineAware Response is a web-based platform which manages those risks. It provides advance warning of oil spills through high resolution satellite imagery and incorporates integrated trajectory and source modelling to inform a response in the event of an incident.

MarineAware Response can be provided as a software subscription for clients wishing to conduct monitoring themselves, or as a managed service where monitoring is done by our team of experts, providing daily reporting and support when a spill is identified.

## Benefits

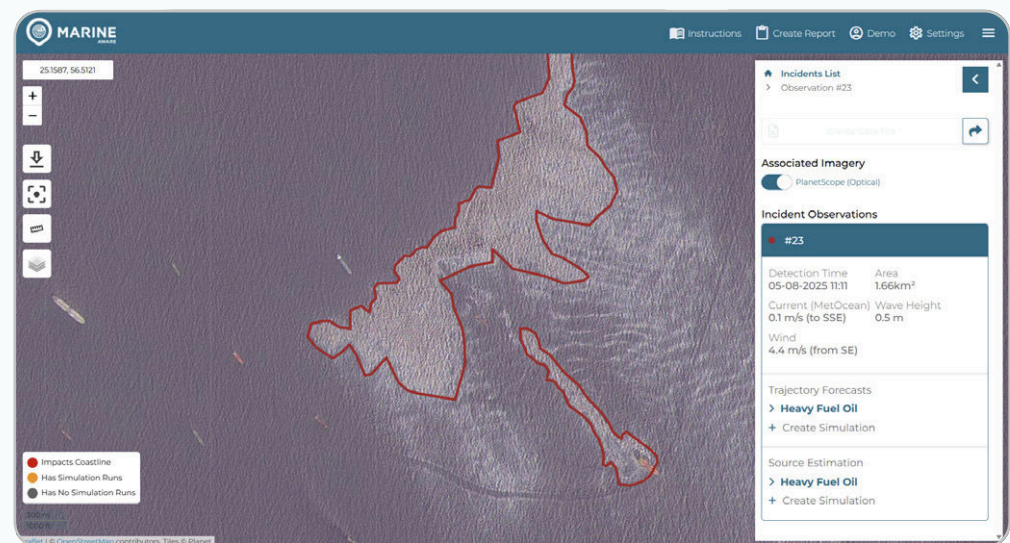
- › Daily satellite imagery gives advance warning of oil spills across large areas
- › Modelling shows oil spill trajectory and dispersion
- › Option of managed service with monitoring, daily reporting and incident support

## PRODUCT SCREENSHOTS



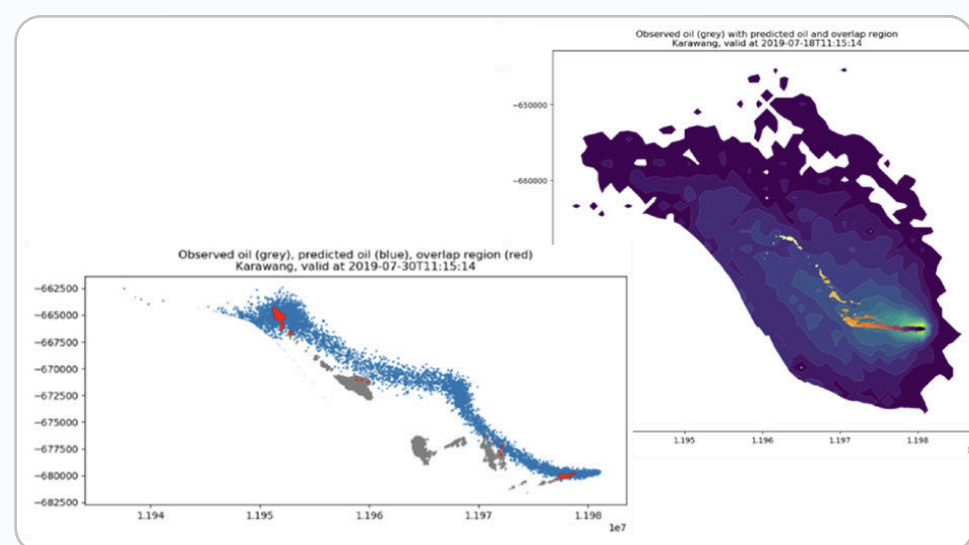
### Continuous Monitoring

MarineAware Response provides a continuous feed of satellite imagery from a range of constellations. The satellites give global coverage so MarineAware can be deployed anywhere in the world.



### High Resolution Imagery

Optical imagery up to a resolution of 3 metres means even small oil spills can be identified. Radar imagery, also available through the platform, ensures monitoring continues even when cloud cover is high.



### Proven Modelling

Identified oil spills can be simulated using the MarineAware dispersion model to predict the trajectory of oil. Spills can be simulated 72 hours ahead of when they were observed. The model has been independently validated by the UK's Science and Technology Facilities Council (STFC) at their Hartree Centre.



### Post-Incident Investigation

Ship tracking AIS information is available through the platform. This data is combined with the source estimation capability of the MarineAware model to help identify if nearby shipping activity was responsible. This feature acts as a deterrent, encouraging vessel operators to report spills.

## Credibility

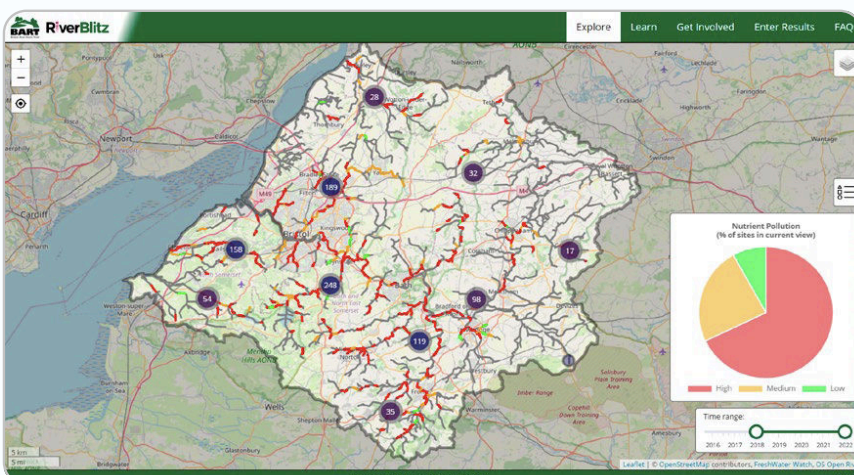
MarineAware Response is used by governments, ports and infrastructure operators to protect their assets. In one deployment, authorities were alerted to an oil spill 11 km off the coast of Johor.

## Related products



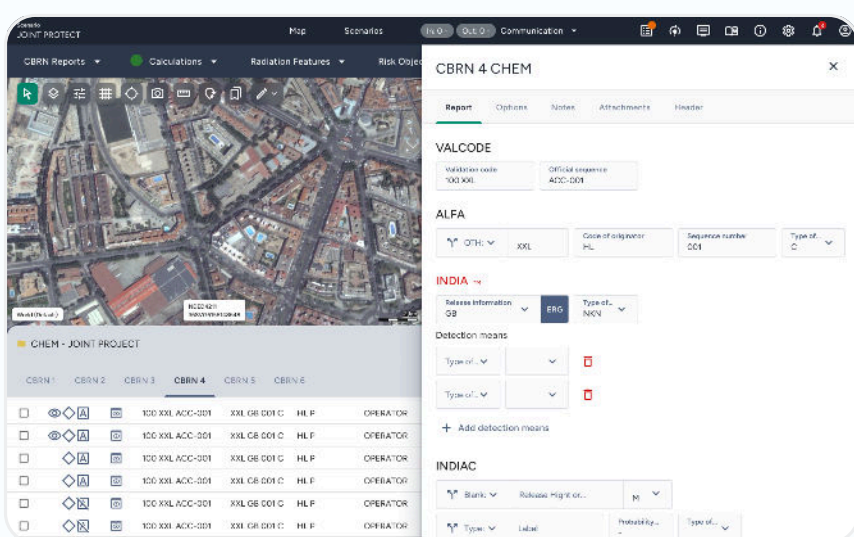
### UrbanAware

- Optimise real-time decision making with superior situational awareness. UrbanAware is a next-generation CBRN Information Management (IM) tool for the military, first responders, and local government.
- Its aim is to provide lifesaving situational awareness and decision support in the context of urban CBRN and HazMat incidents, helping stakeholders to develop more effective response processes.



### Congregate

- Congregate is the all-in-one platform for running environmental crowdsourcing projects.
- As the challenges facing our environment continue to grow, more people are looking for ways to drive distinct change. Crowdsourcing and citizen science is a great way in which they can be part of the solution.
- Congregate allows you to effectively coordinate projects, manage data collection teams, and explore results with industry-leading visualisation tools.



### CBRN-Analysis NG

- CBRN-Analysis is an advanced, off-the-shelf software-based CBRN Knowledge Management Application that includes Hazard Prediction and Warning and Reporting.
- Configurable and modular, it provides commanders with rapid and accurate information to increase their CBRN situational awareness within an area where CBRN materials may be used.
- CBRN-Analysis effectively supports and enhances risk-management in all phases of an operation, both in the planning and pre-deployment phase, in-theatre and in the post-conflict or recovery phase.

More information can be found at: [www.bruhn-newtech.com](http://www.bruhn-newtech.com).

