

Offshore environmental effects monitoring



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- 1 SPMD (cage and membranes)
2 Blue mussels
3 Fish embryo bioassay

New approach

Offshore oil and gas operators need reliable environmental information for assessing the effectiveness of their environmental management systems. Our recently developed integrated approach to Environmental Effects Monitoring (EEM), for the offshore oil and gas industry, gives operators a complete assessment of the impact of their activities. EEM encompasses the whole local marine environment from the sea floor to the sea surface.

This new approach to EEM can assess any potential impacts of offshore oil and gas exploration, development and production on the surrounding environment. Typically this involves the field collection and analysis of environmental samples using both biological effects and chemical techniques. We offer an integrated and multi-disciplinary service for offshore EEM that will be tailor-made to your specific requirements.

Our services

Integrated field monitoring

- Field collection of environmental samples
- Testing for biological markers of contaminant exposure (eg PAHs and endocrine disrupters)
- Quality assured chemical analysis

Site specific biological effects and chemical monitoring

- Field deployment and recovery of fish and bivalve cages and integrated samplers
- Biological markers of chemical exposure and chemical analysis

Produced water characterisation

- Specialised integrated sampling
- Bioassay testing
- Chemical fractionation
- Broad-spectrum chemical analysis

Integrated data assessment

- Validation of fate/effects modeling data

Applying EEM

We have already applied EEM approaches to:

- Produced water characterisation
- Development of site specific biological effects monitoring techniques
- Development and application of bioassays for offshore monitoring
- Assessment of cuttings piles
- Oil dispersant testing
- Understanding UK policy and OSPAR requirements for the offshore oil and gas industry
- Leading a recent International Council for the Exploration of the Sea (ICES) international workshop on offshore environmental effects monitoring.

Contact us

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About us

Cefas is a multidisciplinary scientific research and consultancy centre providing a comprehensive range of services in fisheries management, environmental monitoring and assessment, and aquaculture to a large number of clients worldwide. We have more than 500 staff based in 3 laboratories, our own ocean-going research vessel, and over 100 years of fisheries experience. We have a long and successful track record in delivering high-quality services to clients in a confidential and impartial manner. (www.cefas.co.uk)

Cefas Technology Limited (CTL) is a wholly owned subsidiary of Cefas specialising in the application of Cefas technology to specific customer needs in a cost-effective and focussed manner. CTL systems are developed by teams that are experienced in fisheries and environmental management and in working closely with clients to ensure that their needs are fully met. (www.cefastechnology.co.uk)

Customer focus

With our unique facilities and breadth of expertise in environmental and fisheries management, we can rapidly put together a multi-disciplinary team of experienced specialists, fully supported by our comprehensive in-house resources.

Our existing customers are drawn from a broad spectrum with wide ranging interests. Clients include:

- international and UK government departments
- the European Commission
- the World Bank
- United Nations Food and Agriculture Organisation (UNFAO)
- oil, water, chemical, pharmaceutical, agro-chemical, aggregate and marine industries
- non-governmental and environmental organisations
- regulators and enforcement agencies
- local authorities and other public bodies

We also work successfully in partnership with other organisations, operate in international consortia and have several joint ventures commercialising our intellectual property.



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4 Fish cage deployment