

Seabed and habitat mapping

For several decades Cefas scientists have provided government and commercial customers with bespoke solutions using our world-class expertise in seabed and habitat mapping.

We tailor our services to provide our customers with the evidence, advice and confidence they need to take forward major projects and policy decisions, such as infrastructure developments, managing sustainable fisheries, and marine resource assessments and protection.

Seabed mapping

Our experts offer world-class mapping solutions, including the three most prominent types:

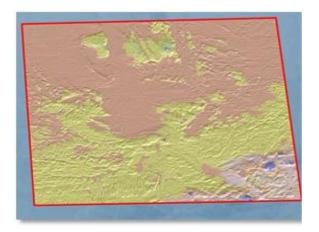
- Hydrographic and navigational safety mapping
- Geological characterisation and resource mapping
- Habitat and ecological mapping

Modelling

Cefas undertakes seabed and habitat mapping surveys from our modern research vessel RV Cefas Endeavour equipped with the latest state-of-the-art technology, using chartered or customer vessels, or using data supplied by third parties.







Our expertise

Our scientists are recognised internationally for their expertise in the field of habitat and seabed mapping.

Our offer is based on the following strengths:

- Acoustic seabed surveys using state-of-theart technology: multibeam echosounders, sidescan sonar
- Physical and biological seabed characterisation: seabed sample collection for benthic and sediment analysis in our specialist laboratories; high definition underwater video and photograph data collection
- Multidisciplinary surveys: our extensive survey expertise allows us to develop integrated, cost-effective survey programmes
- Innovative and robust data analysis: our scientists have developed objective, repeatable, robust and documented semiautomated data analysis techniques, providing significant cost and time benefits to end-users
- Advanced predictive, regional models: we have developed predictive habitat maps and species distribution models for regional seas to inform policy development

Internationally recognised

Our experts enjoy a global reputation for their cuttingedge research and innovative solutions. Cefas staff publish over 170 peer-review papers each year. Our scientists play an active role in national and international groups.

Our experience

Client Case study: Government

In 2011 Cefas was appointed by UK Government to coordinate an extensive survey and evidence collection programme for potential marine protected areas. Cefas' extensive expertise in seabed and habitat mapping was critical to assist in the collection of high quality data and development of robust habitat maps. Cefas' work directly informed government officials and provided the confidence needed to make highly sensitive decisions.

Client Case Study: Industry

Cefas has undertaken marine studies for the world's largest electricity producer in support of coastal infrastructure developments. Seabed and habitat maps were developed to identify the habitats likely to be impacted by the development. As a result engineering designs were informed to reduce the impact on the marine environment and regulatory burden for the developer.

Integrated solutions

Our seabed and habitat mapping solutions are complemented by our other services:

- Biodiversity assessments
- Coastal ecology characterisation
- High resolution modelling
- Laboratory and taxonomy analyses
- RV Cefas Endeavour

Enquiries

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