

Flood risk management



Contemporary flood risk management

Cefas is firmly aligned towards an ecosystem approach to land and water management. We aim to support sustainable resources and environments. In the flood-risk arena this can take a wide variety of forms – whether it's safeguarding coastal defences to protect inland assets, or the creation of new and ecologically valuable habitats.

Strategic planning advice

Our expertise helps inform short and long-term management strategies. We provide strong scientific evidence underpinning policy-making, and we deliver information to aid realistic planning, cost forecasting and risk assessment.

We are able to actively contribute across the whole flood and coastal defence spectrum; from data capture and analysis for improving knowledge of flood risk areas, to modelling and impact-assessment tool development for long-term risk analysis.

Our scientists can contribute to a wide range of projects, whether it's improving understanding of coastal erosion and shoreline evolution, the ecological value of wetlands and coastal habitats, or flood risk prediction, climate change impacts and "extreme event" scenarios.

Services list:

- contemporary flood risk approach
- sustainable asset management
- habitat creation
- ecosystem approach
- innovative solutions
- unique capability
- state-of-the-art modelling
- long-term forecasting
- climate change expertise
- real-time data systems
- multi-disciplinary teams
- risk assessments
- track record
- science based

Ecosystem knowledge

Our ecosystems knowledge is long established. We have been providing scientific evidence for over 100 years, and we have a long and prestigious track record in supplying evidence to the UK Government, and others worldwide.

We have practical experience in advising on sustainable habitat creation options, assessment criteria and likely scheme success, including the delivery of studies into beneficial use of dredged material.

We have over twenty five modellers within our organisation. Their expertise is used to undertake studies and build decision-making tools to aid the introduction of innovative solutions to environmental challenges.

Our expertise in climate science, forecasting and scenario building provide a unique capability in clarifying the links between long term climate trends and present and future flood risk.

Multi-disciplinary teams

Cefas is a modern environmental scientific organisation; with three laboratories, over 500 staff and a state-of-the-art research vessel. Our expertise includes all of the scientific requirements for delivery of effective contemporary flood risk management.

Our multi-disciplinary expert teams include geomorphologists, sedimentologists, geochemists, oceanographers, and ecologists. Our scientific knowledge is backed by outstanding technical skills, including GIS capabilities.

State-of-the-art technology

We have invested in, and developed, state-of-the-art ecosystem models giving us a highly advanced wider modelling capability.

Our SmartBuoy and WaveNet systems are real-time, live data capture and analysis tools. They are vital tools to aid swift delivery of live data, risk assessment and monitoring. These tools provide us with a highly developed marine monitoring and live data collection and transfer capability.

1 Saltmarsh

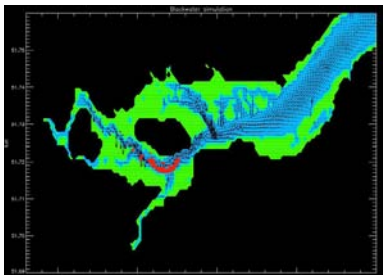
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About us

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.

- 2 Cefas SmartBuoy
- 3 Blackwater estuary model output
- 4 Stormy seas