



World class science for  
the marine and freshwater  
environment

[www.cefas.co.uk](http://www.cefas.co.uk)

@CefasGovUK



Centre for Environment  
Fisheries & Aquaculture  
Science



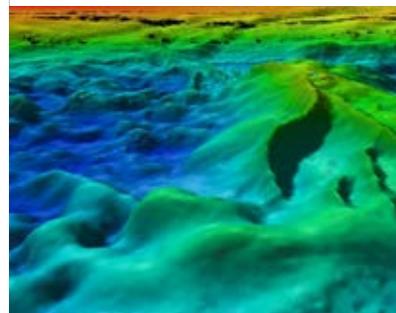
## The Centre for the Environment, Fisheries and Aquaculture Science (Cefas) supports governments, businesses and society in the UK and internationally to ensure that seas and rivers are healthy and productive, thereby enabling food security and sustainable development.

Cefas is the UK's most diverse centre for applied marine and freshwater science. Starting as a small fisheries laboratory in Lowestoft in 1902, we now employ 550 staff between our main sites in Lowestoft and Weymouth, and our offices in English ports, Kuwait and Oman.

Our Cefas scientists work and collaborate across the world to provide impartial research and advice to address the challenges and harness the opportunities relating to the marine and freshwater environment. Our science helps ensure thriving marine economies, sustainable fisheries and food safety, protects marine biodiversity, and addresses the serious threats of climate change, marine litter and pollution.

Science excellence is key to our success. Our world-leading research outputs are recognised internationally. We maintain strong academic links through our international network of university partnerships and Strategic Alliances with the University of East Anglia and the University of Exeter.

These relationships enable us to influence the next generation of marine and aquatic science leaders through applied programmes of doctoral study.



Centre for Environment  
Fisheries & Aquaculture  
Science

"Cefas has played a leading role in the UK's marine history over the past 115 years. We are now pursuing an exciting programme of development which will see our international footprint increasing and the renewal of our Lowestoft Headquarters.

Together this will ensure we remain at the forefront of international marine science and technology as we seek to meet future challenges in developing sustainable marine economies and a healthy marine environment."

*Tom Karsten, Cefas Chief Executive*

## Our commitment to Defra and the UK



Our primary focus remains firmly on the UK and providing Government and businesses with world class science, including research, advice, emergency response, laboratory services, modelling, programme management and training. Our activities play a major role in supporting sustainable blue growth – contributing to the UK's £49 billion marine economy.

As an Executive Agency of Defra, Cefas is integral to departmental policy development. Unlike many other organisations, Cefas experts provide an 'end to end' science service. For example, we support a sustainable fishing industry through fisheries data collection and data analysis at sea and at UK ports, through to evidence-based advice to Defra, which informs national and international fisheries negotiations. Cefas data, evidence and advice is used by the International Council for the Exploration of the Sea (ICES) to provide assured and quality controlled products for governments and the EU.

The monitoring and surveying of our waters is critical to assessing marine biodiversity and marine ecosystem health. Cefas' Research Vessel (RV Cefas Endeavour) is deployed throughout the year to collect marine ecosystem data

from our seas. We provide the science and capability to enable the designation of the UK's Marine Protected Areas (MPAs) and Marine Conservation Zones (MCZs). Cefas also played a significant role in the recent assessment of the North East Atlantic ecosystem by OSPAR.

Our scientists play a vital role in safeguarding human health by ensuring water quality and seafood is safe, and supporting the UK aquaculture industry by responding to aquatic and disease outbreaks. Cefas scientists are permanently on call to respond to national emergencies such as oil, chemical or radiological incidents. Our radiological laboratories also test the safety of food grown in the UK and imported from abroad.



## UK international marine leadership

With the world's population set to reach more than 9 billion in 2050, demand for seafood will double and the problems caused by climate change, pollution, marine litter and over-fishing will intensify. Cefas plays a key role in ensuring the UK meets its international commitments, including UN Sustainable Development Goal 14, the Paris Climate Change Agreement and the Biological Diversity Convention.

Working across UK Government, with the Foreign and Commonwealth Office, Cabinet Office, Ministry of Defence and other marine agencies, Cefas delivers science and advice in support of these and other commitments across the globe. Our flagship UK Government funded programmes in the UK Overseas Territories, across Commonwealth Small Island Developing States and the Middle East help to address environmental challenges and support sustainable development.



---

## Commonwealth Marine Economies Programme

Cefas is working with some of the most vulnerable Commonwealth Small Island Developing States (SIDS), in partnership with the United Kingdom Hydrographic Office and National Oceanography Centre to provide data SIDS are unable to access themselves, helping unlock the potential of SIDS marine resources to support their resilience and long-term prosperity.



---

## Blue Belt Programme

Cefas and the Marine Management Organisation are working in partnership to deliver the Blue Belt Programme on behalf of the UK Government. The UK and Overseas Territory (OT) governments are committed to working together to preserve and protect the rich environmental heritage of the OTs, whilst enabling sustainable growth.



---

## Commonwealth Litter Programme (CLiP)

Cefas is working with partners across the Commonwealth to share experience and find solutions to the environmental and socio-economic challenges posed by litter in the marine environment. The programme will build on existing efforts and create a Commonwealth network to reduce litter in the marine environment by exchanging ideas, developing end-to-end measures, and coordinating actions across international, national and regional scales.



Discover more case studies at [www.cefas.co.uk](http://www.cefas.co.uk)

## Developing wider markets



---

Our work across wider markets brings our science services to a range of customers, both in the UK and internationally.

In the Middle East, the Gulf states have significant marine resources, but face complex challenges in managing these sustainably and for the benefit of both society and the economy.

Cefas scientists have been conducting project work for the Kuwait Environment Protection Authority (EPA) since 2001 and support our Kuwaiti partners as they deliver their internationally-leading national marine environmental monitoring and assessment programme.

In South East Asia, Cefas is working with governments to support sustainable fishing and aquaculture, in addition to helping address challenges such as marine litter and water pollution.

Safeguarding public health and protecting the marine environment requires accurate and wide-ranging environmental impact assessments to ensure effective risk management. We work with private sector national and international customers, to provide services that help them meet their commitments to society and the environment.

Our 'end-to-end' services range from the initial design and implementation of complex sampling programmes to assessments of the impact of construction or decommissioning of marine infrastructure.





# Fast forward: investing in our future

A multi-million pound investment programme at our Lowestoft HQ will provide Cefas with leading-edge facilities and office space by late 2018, ensuring a future where Cefas continues to deliver science excellence and capability.



[www.cefas.co.uk](http://www.cefas.co.uk)

@CefasGovUK