

Understanding marine climate change

Cefas' Marine Climate Change Centre provides unique leadership in understanding the challenges presented by climate change to aquatic environments and ecosystems.

We work closely with government and industry, as well as with other internationally recognised science organisations, to provide support in identifying marine climate change impacts and associated options for mitigation and adaptation.

Marine climate change

Over the coming years and decades, society will need to respond to the effects of changes in storm frequency and intensity, sea-level rise, increasing sea temperatures, ocean acidification and changes in ocean currents. These changes will impact on ecosystems, commercial fisheries and aquaculture, tourism, shipping, ports and other marine-based infrastructure.

Cefas Marine Climate Change Centre

Cefas has a long established track record of national and international leadership on marine climate change issues. We are leaders in applied scientific advice on aquatic climate change impacts and adaptation. We achieve this by collaborating extensively and by translating scientific knowledge into practical tools for policy development and industry decision making. We work closely with government and industry, as well as with other internationally recognised science organisations, to build the evidence base and help develop adaptive capacity.



Our services

Cefas is truly multi-disciplinary in its approach, and plays host to a diverse range of experts including biologists, modellers, oceanographers, epidemiologists, economists and science communicators. Our research encompasses both near term predictions (from days to seasons) and long term projections (over decades and centuries) of climate impacts.

Cefas offers an array of services, including:

- Risk assessments
- Socio-economic impacts
- Adaptation advice
- National & International reporting
- Marine & coastal climate scenarios
- Ocean climate monitoring
- Science-policy knowledge transfer
- Public perception polling & research
- Laboratory experiments
- Climate & ecosystem modelling
- Ocean Acidification research
- Partnership co-ordination



Internationally recognised

Our scientists are recognised internationally for their research and innovative solutions. In 2014, Cefas published 174 peer-reviewed papers and Cefas now ranks in the top 5% of over 2,500 international institutes publishing in the same fields.

Our experience

MCCIP (Marine Climate Change Impacts Partnership) - www.mccip.org.uk

Cefas has provided the secretariat for MCCIP since its inception in 2006. The partnership provides the national focus for the provision of impacts evidence and adaptation advice on marine climate change impacts to UK marine stakeholders, successfully bridging the gap between science and society.

CLAMER (Climate change and marine ecosystem research)

Cefas co-ordinated the first ever pan-European survey on public perceptions of marine climate change impacts, taking in the views of over 10,000 citizens in 10 European countries. The outputs have been published in high impact journals and used to inform a wide range of subsequent European research programmes.

PLACID (Placing ocean acidification in a wider fisheries context)

Cefas is leading research into how ocean acidification could impact on a range of important commercial fish and shellfish species. It will help quantify potential economic impacts and provide advice on future monitoring and modelling requirements of ocean acidification impacts.

Enquiries

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