



# ABOUT US



**Centre for  
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

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**Our unique combination of cross-cutting scientific expertise, long-term environmental monitoring and state-of-the-art research infrastructure enables us to deliver practical solutions so that future generations can benefit from a rich and healthy environment.**

**Professor Pat Nuttall OBE, Director**

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# CENTRE FOR ECOLOGY & HYDROLOGY

## WHO WE ARE

**CEH is the UK's Centre of Excellence for integrated research in terrestrial and freshwater ecosystems and their interaction with the atmosphere.**

As part of the Natural Environment Research Council (NERC), we provide National Capability based on innovative, independent and interdisciplinary science and long-term environmental monitoring.

Working in partnership with the research community, policy-makers, environmental practitioners, industry and society, we deliver world-class solutions to the most complex environmental challenges facing humankind.

We have over 600 permanent staff and students based at five sites across the UK. Our work is funded by NERC and a wide range of other UK and European stakeholders.





# PARTNERSHIPS

**The environmental challenges we all face are fundamental and complex and can only be addressed through interdisciplinary and collaborative partnerships.**

We engage in national and international partnerships, working in collaboration with other researchers worldwide and government departments and agencies. At any one time we lead or participate in over 500 research projects.

Within Europe we shape key networks such as the Partnership for European Environmental Research (PEER) and the European Network of Freshwater Research Organisations (EurAqua). We lead European and global research efforts including the International Cooperative Programme on Effects of Air Pollution on Natural Vegetation and Crops. Our work also engages the private sector and established Non-Governmental Organisations - from insurance companies to wildlife conservation charities.

Our scientists are members of national and international advisory committees and CEH regularly contributes to consultations on government environmental policy.

## SCIENTIFIC EXPERTISE

**Our skills and expertise range from the smallest scale (the gene) to the largest scale (whole Earth systems). Our science tackles environmental questions in a holistic manner, integrating scientific disciplines and modelling capability.**

Multidisciplinary teams spanning biodiversity, biogeochemistry and water support national strategic needs, respond to emergencies and lead the field in cutting-edge research.

## ENVIRONMENTAL MONITORING

**Our regional presence and extensive network of long-term monitoring and experimental field sites provide access to diverse ecosystems, enabling us to provide a vital National Capability.**

There are currently more than 180 active long-term monitoring sites across Britain and overseas covering many broad habitat types.





# ENVIRONMENTAL INFORMATION

**CEH hosts a wealth of environmental information gathered over decades of environmental monitoring and research. This covers a wide range of nationally and often globally unique long-term datasets.**

Examples include:

- Biological Records Centre
- Countryside Survey
- National River Flow Archive
- UK Environmental Change Network
- Predatory Birds Monitoring Scheme
- UK Pollutant Deposition
- Acid Waters Monitoring Network
- EMEP Supersite (air pollution monitoring)

This National Capability supports our science and is used by environmental practitioners, policy-makers and other researchers. Much of this work is delivered in partnership. Through its Environmental Information Data Centre, CEH will extend, enhance and integrate these and other data holdings. One application envisaged for these data is their use in the development of cutting-edge climate models.

# COMMERCIALISATION

Through commercial investment and exploitation we seek to deliver the impacts of our research to benefit society.

CEH science formed the basis of NERC's first spin-out company. Examples of more recent ventures include:



CEH's data and models form the basis of flood prediction and forecasting tools, including the industry standard, CEH Flood Estimation Handbook. Other products of national importance include the UK Land Cover Map.





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# Integrated Science for Our Changing World



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