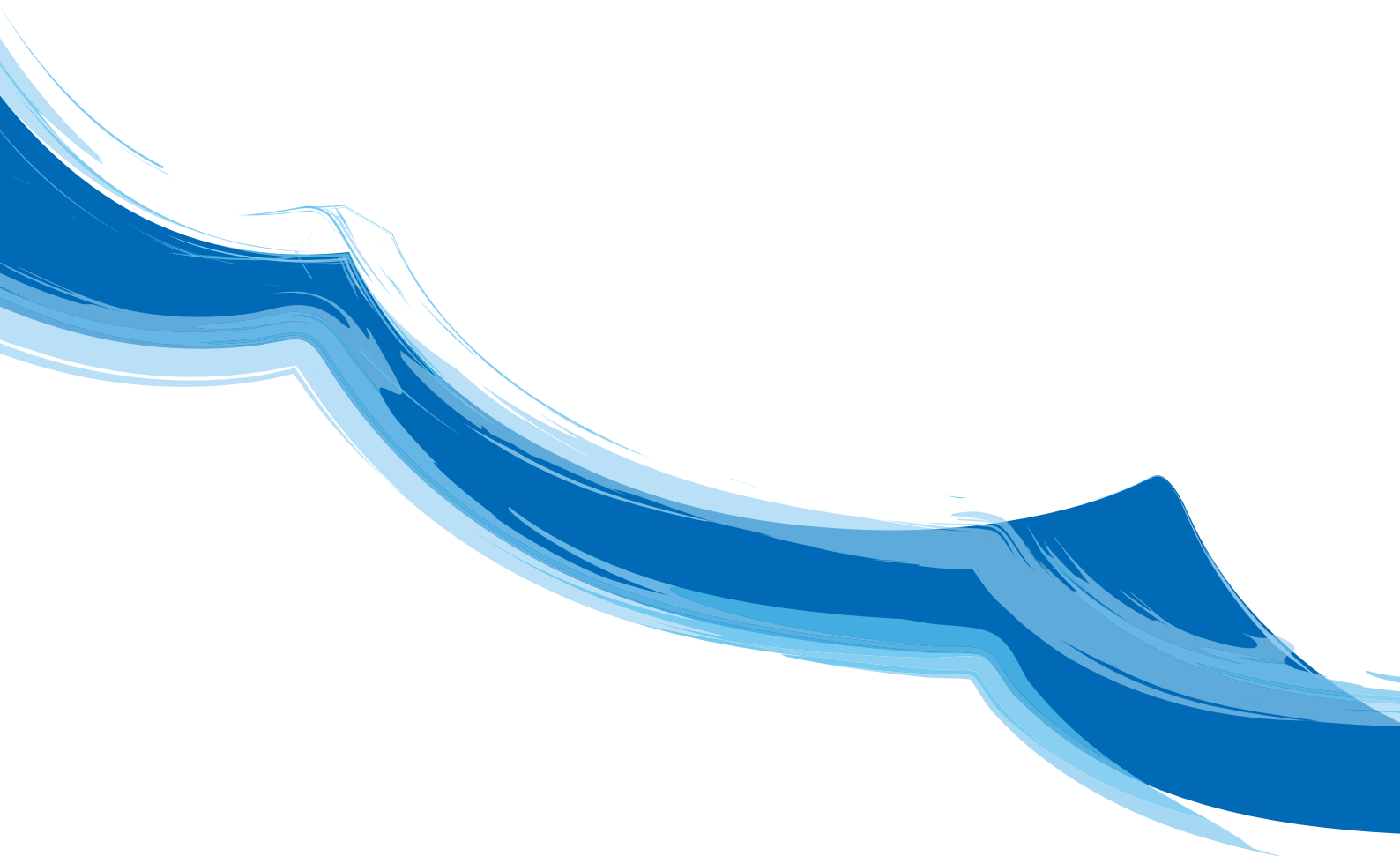
DIRECTORY OF UK CLIMATE CHANGE RESEARCH ORGANISATIONS

2010

Greg Masters



Dent Associates
Science in Business

DIRECTORY OF UK CLIMATE CHANGE RESEARCH ORGANISATIONS

2010

Dent Associates
Science in Business

Dent Associates: a global food security and climate change consultancy, providing advice, partnership and training for small to medium enterprises on business strategy and development, government affairs, export, international partnering, innovation and technology validation.

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Contents

Preface

Climate change is the most significant environmental and political challenge facing mankind in the 21st Century. Every dimension of our existence will be affected by it but of particular global concern is food and fresh water security, environmental security and the impacts of increasingly frequent extreme events. These concerns are real and demand action now from everyone: individuals, organisations, governments and business. The 2008 Climate Change Act made the UK the global leader in setting legally binding carbon budgets, aiming to cut UK emissions by at least 80% by 2050. To achieve these ambitious targets, widespread action is needed right now.

The UK is a global leader in investigating the causes and consequences of climate change. This research has led to the development of mitigation and adaptation strategies across all sectors of society, driven in part by awareness-raising among individuals. Building a competitive low carbon economy has to be a shared national priority, involving partnerships between government, consumers and businesses at a national and international level. Business, like people, needs information and incentives to take action on climate change. Business also has a responsibility to design new low-carbon products and solutions that enable mitigation but more importantly adaptation to climate change.

The UK has developed a world class research and development base to address climate change. But, there is no central directory of leading organisations enabling access to the research, knowledge and outreach provided by the UK climate change research base.

This directory lists the leading research organisations across all sectors, pulling together a description of their activity and knowledge base as well as their contact details.

Greg Masters

British Antarctic Survey

British Antarctic Survey (BAS) is a component of the Natural Environment Research Council (NERC). Based in Cambridge, United Kingdom, it has, for over 60 years, undertaken the majority of Britain's scientific research on and around the Antarctic continent. It now shares that continent with scientists from over thirty countries.

The British Antarctic Survey's Planet Earth Programme includes

- Chemistry and past climate
- Climate modelling
- Dynamics of polar eco systems
- Ice sheet evolution
- Change and sea level rise
- Polar oceans
- Environmental change and evolution

British Antarctic Survey
High Cross
Madingley Road
Cambridge
CB3 0ET

T: +44 (0)122 3221 400
www.antarctica.ac.uk

British Geological Survey

Founded in 1835, the British Geological Survey (BGS) is the world's oldest national geological survey and the United Kingdom's premier centre for earth science information and expertise.

The BGS provides expert services and impartial advice in all areas of geoscience. Its client base is drawn from the public and private sectors both in the UK and internationally

BGS carries out research in strategically important areas including energy and natural resources, vulnerability to environmental change and hazards, and Earth System Science, often in collaboration with the national and international scientific academic community. In this way BGS maintains and develops understanding of earth sciences to improve policy-making, enhance national wealth and reduce risk.

Research includes development of a holistic climate change impact model, examining the living environment response and its feedback.

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG

T: +44 (0)115 9363 100
www.bgs.ac.uk

British Oceanographic Data Centre

The British Oceanographic Data Centre (BODC) is a national facility for looking after and distributing data concerning the marine environment. It deals with biological, chemical, physical and geophysical data, and the databases contain measurements of nearly 10,000 different variables. BODC was formed in 1989 and has a mission to 'operate as a world-class data centre in support of UK marine science' with an emphasis on

- Providing data management support for UK marine science projects
- Maintaining and developing the UK's National Oceanographic Database (NODB)
- Developing innovative marine data products and digital atlases
- Collaborating (on behalf of the UK) in the international exchange and management of oceanographic data, and
- Making high quality data readily available to UK research scientists in academia, government and industry

Internationally, BODC has a range of roles and responsibilities, including

- Intergovernmental Oceanographic Commission (IOC)
- International Council for the Exploration of the Sea (ICES)
- International Coastal Atlas Network (ICAN)

and is the co-ordinating Centre for

- European Directory of the Ocean-Observing System (EDIOS)
- European Directory of Marine Environmental Data (EDMED)

The British Oceanographic Data Centre is hosted by the Proudman Oceanographic Laboratory (POL).

The data help provide answers to local questions (e.g. coastal flooding) or planetary wide issues (e.g. global warming).

British Oceanographic Data Centre
Joseph Proudman Building
6 Brownlow Street
Liverpool
L3 5DA

T: +44 (0)151 7954 884
www.bodc.ac.uk

British Trust for Ornithology

The British Trust for Ornithology has existed since 1933 as an independent scientific research trust, investigating the populations, movements and ecology of wild birds in the British Isles. The BTO is a not-for-profit trust, governed by its members.

The BTO aims to promote and encourage the wider understanding, appreciation and conservation of birds by

- Conducting high-quality, impartial research in field ornithology
- Providing scientific evidence and advice on priority issues in bird conservation

This work is based on a partnership between amateurs and professionals, conducting fieldwork that is both enjoyable and scientifically rigorous.

The BTO is involved in a range of research to determine how bird populations will be affected by climate change. The work includes investigation of relationships between range, abundance and climate, the potential effects of sea level rise on coastal bird populations and the demographic mechanisms through which climate will affect abundance. BTO research has also been important for demonstrating how spring weather is already bringing about earlier arrivals of migrants and earlier egg-laying in many species.

British Trust for Ornithology
The Nunnery
Thetford
Norfolk
IP24 2PU

T: +44 (0)184 2750 050
www.bto.org

The Carbon Trust

The Carbon Trust is a not-for-profit company with the mission to accelerate the move to a low carbon economy. It provides specialist support to help business and the public sector cut carbon emissions, save energy and commercialise low carbon technologies. By stimulating low carbon action, the Carbon Trust contributes to key UK goals of lower carbon emissions, the development of low carbon businesses, increased energy security and associated jobs.

The Trust has advised 75% of FTSE 100 companies, tens of thousands of small and medium sized businesses and over 2,500 public sector bodies.

The principal aim of Carbon Trust Investments is to promote the development of the UK's clean energy technology sector by investing its own funds, leveraged with other private funding, into early stage UK clean energy technology companies. Carbon Trust Investments is one of the UK's leading co-investors in clean technology with the ability to assess risk as an informed industry insider. The Trust typically invests between £250k and £3m in any given business, with an average transaction size between £500k and £10m.

The Carbon Trust provides specialist support to business and the public sector to help cut carbon emissions, save energy and commercialise low carbon technologies.

The Carbon Trust
Customer Centre
PO Box 89
Witney
OX29 4WB

T: +44 (0)800 0852 005
www.carbontrust.co.uk

CBI

The Confederation of British Industry helps create and sustain the conditions in which businesses in the UK can compete and prosper for the benefit of all. It is the leading lobbying organisation for UK business on national and international issues, working with UK government, international legislators and policymakers to help UK businesses compete effectively. The CBI works with over 200,000 British businesses, a figure which includes some 70% of FTSE 100 companies and around 50% of FTSE 350 companies.

The CBI is engaging the domestic and international business community to set the conditions for moving to a low carbon economy. It is also seeking to share best practice among companies and to celebrate the successes of British-based businesses in a changing economic environment.

The CBI helps create and sustain the conditions in which businesses in the United Kingdom can compete and prosper for the benefit of all. The board brings together senior business leaders from a range of sectors to demonstrate business commitment to managing the risk of climate change by

- Promoting business-led policy solutions to realise carbon savings
- Showcasing business opportunities for green growth
- Leading by example on corporate commitments to manage carbon footprint
- Monitoring progress by government and business in realising the UK's carbon targets
- Influencing a post-2012 international climate change agreement

CBI
Centre Point
103 New Oxford Street
London
WC1A 1DU

T: +44 (0)207 3797 400
climatechange.cbi.org.uk

Climate Change and Sustainable Futures, University of Exeter

Exeter has developed a strong position to develop interdisciplinary research both in understanding how climate change is developing and its effects upon the natural world. This is a cross-University theme that ranges across

- Predicting climate change and its effects on ecosystems and human and animal health
- Developing the technology for mitigating its effects
- The study of public attitudes and government policy

Although work is organised as part of the University's Science Strategy, the input from the social sciences and humanities is crucial. This is particularly true in understanding people's relationship with the environment and how this might be changed.

The complex range of issues involved in trying to predict and understand the potential impacts of climate change, seek ways to mitigate them and communicate this understanding effectively to inform policy and adapt human behaviour, presents a particular challenge to researchers in the field. The University has brought together world-class experts from a range of research groups across our disciplines to help understand what is happening and what we need to do about it. Their individual research expertise covers climate modelling; risk management for business; lessons from past climate change; extreme weather events; ecotoxicology; energy production and conservation; global food production and distribution; sustainable development and environmental threats to the health and wellbeing of humans and wildlife. Together they are generating new research that combines physical, mathematical, environmental, economic and social aspects of climate change and sustainable futures.

There is a particular focus on climate system dynamics, extreme climate and weather, marine energy research, policy into practice, sea life and environmental change, conserving threatened species, and lessons from climate past.

University of Exeter
Streatham Campus
Northcote House
Exeter
EX4 4QJ

T: +44 (0)139 2661 000
www.exeter.ac.uk/research/excellence/keythemes/climate

Climatic Research Unit (CRU), University of East Anglia

CRU is widely recognised as one of the world's leading institutions concerned with the study of natural and anthropogenic climate change. The Unit has developed a number of the data sets widely used in climate research, including the global temperature record used to monitor the state of the climate system, as well as statistical software packages and climate models.

The aim of CRU is to improve scientific understanding in three areas

- Past climate history and its impact on humanity
- The course and causes of climate change during the present century
- Prospects for the future

The Unit undertakes pure and applied research, sponsored almost entirely by external contracts and grant from academic funding councils, government departments, intergovernmental agencies, charitable foundations, non-governmental organisations, commerce and industry.

CRU is regarded as an authoritative source of information on both the science and policy aspects of climate change to the media and maintains a high public profile.

CRU is part of the School of Environmental Sciences. It undertakes collaborative research with institutes throughout the world on a diverse range of topics and is coordinating or contributing to a number of networking activities.

Climatic Research Unit
School of Environmental Sciences
Faculty of Science
University of East Anglia
Norwich
NR4 7TJ

T: +44 (0)160 3592 722
www.cru.uea.ac.uk

Environmental Change Institute (ECI)

ECI is an interdisciplinary unit within Oxford University that undertakes research on environmental issues, teaches an MSc in Environmental Change and Management, and fosters university-wide networks and outreach on the environment. It was formed in 1991 and aims to answer questions about how and why the environment is changing and how we can respond through public policy, private enterprise, and social initiatives. ECI research and teaching is characterised by a focus on global and regional environmental change, projects that bring together the natural and social sciences, and by an orientation to applied and public policy. Many of the research projects have a goal of influencing and informing public policy and decisions about the environment.

ECI is involved in a wide range of research projects that address the impacts of climate change, the possibilities for adaptation, the evolution of climate policy and the communication of climate change data and issues to society.

Environmental Change Institute
School of Geography and the Environment
South Parks Road
Oxford
OX1 3QY

T: +44 (0)186 5275 848
www.eci.ox.ac.uk

Environmental Change Research Centre (ECRC), University College London

ECRC research is concerned with the understanding of environmental change, past, present and future, especially with respect to aquatic systems and climate change. Research interests across the group are diverse but the unifying philosophy is a belief in the importance of setting contemporary environmental processes and problems in the context of longer time-scale variability, and in the associated need to understand the interplay between natural variability on different time-scales and the multi-layered and ever increasing impact of human activity on natural ecosystems.

Particular expertise is in aquatic eco system change and climate change, past present and future.

ECRC
Department of Geography
University College London
Gower Street
London
WC1E 6BT

T: +44 (0)207 6790 575
www.ecrc.ucl.ac.uk

Farming Futures

Farming Futures provides inspiration and information on how to prepare your business for the impacts, opportunities, risks and responsibilities that climate change brings. It is a communications collaboration project between the NFU, CLA, AHRF, AIC, Forum for the Future and Defra. Farming Futures is managed by Forum for the Future on behalf of the partnership.

Farming Futures provides information and support to prepare farming businesses for climate change.

Farming Futures
c/o Forum for the Future
Overseas House
19-23 Ironmonger Row
London
EC1V 3QN

T: +44 (0)207 3243 630
www.farmingfutures.org.uk

Food Climate Research Network

The Food Climate Research Network is a UK Research Council-funded initiative. It is based at the University of Surrey and is funded by the Engineering and Physical Sciences Research Council (EPRSC) and the UK Department for Environment, Food and Rural Affairs (Defra). Its aim is to better understand how the food system contributes to greenhouse gas emissions, and to research and promote ways of reducing them.

The FCRN works in the following ways

- Research: It undertakes its own research into the food chain, its GHG impacts and the options for emissions reduction
- Knowledge sharing: The FCRN sends out twice weekly e-newsletters to a wide range of people in Government, the food industry, non governmental organisations and the academic and research communities, and whose collective expertise includes everything from soil science, to life cycle analysis, human nutrition, the psychology and sociology of human behaviour, to food packaging. The e-newsletters provide summaries and commentary on newly published reports, information on events, topical news items and more. Importantly, mailing list members also use the list to ask questions of each other, share comments and views, and highlight work that they have done
- Knowledge base: There is a huge amount of information on this website that is regularly updated. The aim is to provide a comprehensive learning resource for anyone wanting to learn more about food and climate change
- Communication: The FCRN presents widely and frequently to varied audiences, including government, the food industry, NGOs, academics and students

Food Climate Research Network
Centre for Environmental Strategy
Faculty of Engineering and Physical Sciences
University of Surrey
Guildford
Surrey
GU2 7XH

T: +44 (0)148 3686 670
www.fcrn.org.uk

Forest Research

Forest Research is one of the world's leading centres of research into woodlands and forestry. It aims to provide research services relevant to UK and international forestry interests and inform and support forestry's contribution to UK governmental policies. Its core roles are to provide the evidence base for UK forestry practices and to support innovation. Forest Research's core work for the Forestry Commission supports the forestry strategies for England, Scotland and Wales. It also has a portfolio of work for external clients. Forest Research provides research, development and associated services to Government Departments and commercial organisations in the UK, EU and elsewhere.

The programme of climate change research on trees, woodlands and forests is wide-ranging, covering important aspects of climate change impacts, adaptation and mitigation. The research aims to inform both policy and forest management practice. It also supports biosecurity policy, and relates strongly to the ecosystem services approach to evaluating the goods and services that trees and woodlands provide to society. The Forestry Commission spends around a quarter of its research budget with Forest Research on climate change and related programmes.

Centre for Forestry Climate Change
Forest Research
Alice Holt Lodge
Farnham
GU10 4LH

T: +44 (0)142 0526 202
www.forestresearch.gov.uk/climatechange

Friends of the Earth

Friends of the Earth was formed in 1971 and is the UK's most influential environmental campaigning organization.

- Providing an extensive environmental network globally with almost 1 million supporters across five continents and more than 70 national organisations worldwide
- Supporting a network of campaigning local groups, working in over 200 communities throughout England, Wales and Northern Ireland
- Depending on individuals for over 90 per cent of its income

FoE was a key player in campaigning for a climate change bill. It uses media, reports, outreach and members to provide information and to apply pressure on issues such as climate change.

Friends of the Earth
26-28 Underwood Street
London
N1 7JQ

T. +44 (0)207 4901 555
www.foe.co.uk

The Global Sea Level Observing System (GLOSS)

GLOSS is an international programme conducted under the auspices of the Joint Technical Commission for Oceanography and Marine Meteorology of the World Meteorological Organisation (WMO) and the Intergovernmental Oceanographic Commission (IOC). GLOSS aims at the establishment of high quality global and regional sea level networks for application to climate, oceanographic and coastal sea level research. The main component of GLOSS is the 'Global Core Network' (GCN) of 290 sea level stations around the world for long term climate change and oceanographic sea level monitoring. The Core Network is designed to provide an approximately evenly-distributed sampling of global coastal sea level variations.

Another component is the GLOSS Long Term Trends (LTT) set of gauge sites (some, but not all, of which are in the GCN) for monitoring long term trends and accelerations in global sea level. These will be priority sites for Global Positioning System (GPS) receiver installations to monitor vertical land movements, and their data will contribute to long term climate change studies such as those of the WMO-UNEP Intergovernmental Panel on Climate Change (IPCC).

The Global Sea Level Observing System
Proudman Oceanographic Laboratory
Joseph Proudman Building
6 Brownlow Street
Liverpool
L3 5DA

T: +44 (0)151 7954 800
www.gloss-sealevel.org

Grantham Institute for Climate Change

The Grantham Institute's mission is to drive climate related research and translate it into real world impact. The Institute is based at Imperial College London, a university consistently rated amongst the world's best and with an international reputation for excellence in science-based research. It produces regular briefing papers, translating the research and its implications into publications that will shape global decision making and impact on policy in the public and private sectors.

The Institute is tackling climate change by

- Translating its research into publications to shape global decision making
- Creating strategic networks at Imperial and beyond
- Funding new climate-related academic appointments and studentships across the College
- Co-ordinating an outreach programme of events and lectures for a wide audience

There is a particular focus on earth system science; risks, extremes and irreversible change; sustainable futures; vulnerable ecosystems and human wellbeing.

Grantham Institute for Climate Change
Imperial College London
South Kensington Campus
London
SW7 2AZ

T: +44 (0)207 5949 666
www3.imperial.ac.uk/climatechange

Greenpeace UK

Greenpeace has the ultimate goal of ensuring the ability of the earth to nurture life in all its diversity. To achieve this, the organization works in a wide range of ways - from taking direct action and bearing witness to scientific research on solutions, improving public understanding of global ecology, and working with policy-makers and industry to affect change.

It has a dedicated science unit that provides scientific expertise and analytical support to campaign teams around the world, helping them to identify potential environmental threats and to provide permanent solutions for them.

Greenpeace promotes communication between environmentalists and industry, so Greenpeace Business explains environmental problems and how they relate to industry in the language of business - through lectures, newsletters and showcasing economically and environmentally sustainable solutions.

It also promotes solutions to climate change, low carbon energy, decentralised energy, waste heat recapture, energy efficiency, and the monitoring of climate impacts.

Greenpeace
Canonbury Villas
London
N1 2PN

T: +44 (0)207 8658 100
www.greenpeace.org.uk

The Macaulay Land Use Research Institute

The Macaulay, founded in 1930, is an international centre for research and consultancy on the environmental and social consequences of rural land uses. The Institute's interdisciplinary research across the environmental and social sciences, aims to support the protection of natural resources, the creation of integrated land use systems, and the development of sustainable rural communities. With an annual income from research and consultancy of over £11M, the Macaulay Land Use Research Institute is the largest interdisciplinary research organisation of its kind in Europe. It is one of the main research providers to the Scottish Government and currently about 75% of the Macaulay's income is related to commissioned research programmes, principally on "Land Use and Rural Stewardship".

Climate change research at the Macaulay is organised into an interdisciplinary and cross-cutting Theme, drawing on expertise from the five Science Groups, Ecology, Soils, Catchment Management, Socio-economics and Integrated Land Use Systems. The goals of the Climate Change Theme are to improve understanding of the interrelationships between changes in climate, land use, natural resources, and human communities, and to provide information at a range of spatial, temporal, and organizational scales that can assist policy-makers and practitioners in developing mitigation and adaptation mechanisms to ensure sustainable development.

The Macaulay Land Use Research Institute
Craigiebuckler
Aberdeen
AB15 8QH

T: +44 (0)122 4395 000
www.macaulay.ac.uk

UEA Meteorology, Oceanography and Climate Dynamics

This research and teaching grouping, divided between two Schools at the University of East Anglia, focuses on the physics and dynamics of the ocean-atmosphere system, including physical oceanography, climate modelling, climate variability, polar meteorology, boundary-layer and mesoscale meteorology, and air pollution meteorology.

UEA Meteorology, Oceanography and Climate Dynamics
School of Environmental Sciences and School of Mathematics
University of East Anglia
Norwich
NR4 7TJ

T: +44 (0)160 3456 161
envam1.env.uea.ac.uk/met_ocean_climate.html

National Centre for Atmospheric Science (NCAS)

NCAS is a world leader in atmospheric science. They have an annual budget of £9M and have research programmes on

- The science of climate change, including modelling and predictions
- Atmospheric composition, including air quality
- Weather, including hazardous weather
- Technologies for observing and modelling the atmosphere

Additionally, NCAS provides scientific facilities for researchers right across the UK to enable excellent atmospheric science on a national scale. These include a world-leading research aircraft, a ground-based instrumentation pool, access to computer models and facilities for storing and accessing data.

The National Centre for Atmospheric Science (NCAS) is a component of the Natural Environment Research Council (NERC), set up in 2002 to provide the UK with national capability in atmospheric science research and technology.

Our research programmes focus on the following key scientific challenges

- Climate change science (including modelling and predictions)
- Atmospheric composition, (including air quality, modelling and predictions)
- Weather, including hazardous weather (e. g. heavy rainfall and flash flooding)
- Technologies; e.g. instrumentation and platforms for observing and modelling the atmosphere

National Centre for Atmospheric Science
School of Earth and Environment
Environment Building
University of Leeds
Leeds
LS2 9JT

T: +44 (0)113 3435 158
www.ncas.ac.uk

Natural Environment Research Council (NERC)

NERC is the UK's main agency for funding and managing research, training and knowledge exchange in the environmental sciences, tackling issues such as climate change, environmental influences on human health and the genetic make-up of life on earth. NERC's work covers the full range of atmospheric, earth, biological, terrestrial and aquatic sciences, from the deep oceans to the upper atmosphere, and from the poles to the equator.

NERC has seven Themes

- Climate system
- Biodiversity
- Sustainable use of natural resources
- Earth system science
- Natural hazards
- Environment, pollution and human health
- Technologies

For the Climate System Theme, NERC-funded science must play a leading role in the development of risk-based predictions of the future state of the climate – on regional and local scales, spanning days to decades. This includes collaborating with key partners, notably the Met Office Hadley Centre, to help develop an improved predictive capability. The predictions will become the foundations for future mitigation and adaptation strategies.

NERC supports a climate system science theme and rapid climate change, quantifying uncertainty, quantifying and understanding the earth system, joint climate research programme, flood risk from extreme events, changing water cycle and aerosol influences on climate programs.

Natural Environment Research Council
Polaris House
North Star Avenue
Swindon
SN2 1EU

T: +44 (0)179 3411 500
www.nerc.ac.uk

National Oceanography Centre, Southampton (NOCS)

The centre is the UK's focus for oceanography and represents an unparalleled investment in marine and earth sciences and technology nationally. It has a remit to achieve scientific excellence in its own right as one of the world's top five oceanographic research institutions. The centre opened in 1995 and is a collaboration between the Natural Environment Research Council and the University of Southampton. NOCS was formerly the Southampton Oceanography Centre.

NOCS activities encompass major ocean technology development, long-term observations, managing international science programmes, promoting enterprise and knowledge transfer, providing advice to Government, business and charities, and the engagement between science and society. Moreover, the Centre is also specifically charged with working with the wider science community to provide strategic leadership, coordination and facilitation for the whole of the UK marine and related earth sciences.

Research groups include

- Ocean Biogeochemistry and Ecosystems
- Geology and Geophysics
- Ocean Observing and Climate
- Ocean Modelling and Forecasting
- Geochemistry
- Palaeoceanography and Palaeoclimate
- Coastal Processes

National Oceanography Centre, Southampton
University of Southampton
Waterfront Campus
European Way
Southampton
SO14 3ZH

T: +44 (0)238 0596 666
www.noc.soton.ac.uk

The National Trust

Founded in 1895, the National Trust is a charity completely independent of Government, relying for income on membership fees, donations and legacies, as well as revenue from its commercial operations. The Trust has over 3.6 million members and 55,000 volunteers. It is one of the largest land owners and managers in the UK, being responsible for forests, woods, fens, beaches, farmland, downs, moorland, islands, archaeological remains, castles, nature reserves and villages in addition to historic stately homes.

The Trust preserves and protects the coastline, countryside and buildings of England, Wales and Northern Ireland. It supports national programmes and actively address climate change through reduced energy use, renewables, managing land better for C storage. It takes strong action on energy efficiency, renewable energy and land management.

The National Trust
PO Box 39
Warrington
WA5 7WD

T. +44 (0)844 8001 895
www.nationaltrust.org.uk

Proudman Oceanographic Laboratory (POL)

POL is a fully-owned research laboratory of the Natural Environment Research Council. Their world-class research includes

- Physics of estuarine, coastal and shelf sea circulation
- Wind wave dynamics & sediment transport processes
- Global sea level science and geodetic oceanography
- Marine technology & operational oceanography

For climate change there is a focus on climate ocean circulation and sea level, next generation ocean prediction systems and integration of sustained observations in the marine environment.

Proudman Oceanographic Laboratory
Joseph Proudman Building
6 Brownlow Street
Liverpool
L3 5DA

T: +44 (0)151 7954 800
www.pol.ac.uk

Quantifying and Understanding the Earth System (QUEST), University of Bristol

QUEST aims to quantify earth system processes and feedbacks for better informed assessments of alternative futures of the global environment. QUEST argues that a step-change improvement in our ability to understand environmental changes, as part of the complex interactions between the Earth system and human action, is needed to inform decision-making by businesses, organisations and governments at all levels, from local planning to international negotiations.

QUEST is a NERC funded programme that assimilates information and expertise from many programmes and institutions in and outside the UK. Its unique focus is on highly effective, interdisciplinary research, closely targeted to help deliver a substantial improvement in our quantitative understanding of global environmental change. One of QUEST's guiding principles is integration. Advances in interdisciplinary earth system science may be made much more rapidly given sustained cooperation by scientists from different specialist backgrounds, institutions and cultures. QUEST has been set up explicitly to encourage such cooperation. It operates a programme of collaborative interdisciplinary research, investing in multi-institution consortium projects and supporting working groups and other activities that respond to today's scientific challenges. It explicitly tackles the interfaces between many science themes (in land, atmospheric and marine domains; modelling and observations; palaeoclimate and the contemporary earth; natural and human sciences).

QUEST
Department of Earth Science
University of Bristol
Wills Memorial Building
Queens Road
Bristol
BS8 1RG

T: +44 (0)117 3315 019
quest.bris.ac.uk

RenewableUK (previously the British Wind Energy Association)

RenewableUK is the trade and professional body for the UK wind and marine renewables industries. Formed in 1978, and with 595 corporate members, RenewableUK is the leading renewable energy trade association in the UK. Wind has been the world's fastest growing renewable energy source in the last decade and this trend is expected to continue with falling costs of wind energy and the urgent international need to tackle climate change. In 2004, RenewableUK expanded its mission to champion wave and tidal energy and use the Association's experience to guide these technologies to commercialisation.

The primary purpose of RenewableUK is to promote the use of wind, wave and tidal power in and around the UK. It acts as a central point for information for the membership and as a lobbying group to government, industry, the media and the public. RenewableUK researches and finds solutions to current issues and generally acts as the forum for the UK wind, wave and tidal industry.

RenewableUK
Greencoat House
Francis Street
London
SW1P 1DH

T: +44 (0)207 9013 000
www.renewable-uk.com
(previously www.bwea.com)

Rothamsted Centre for Bioenergy and Climate Change

Rothamsted is the largest agricultural research centre in the UK and almost certainly the oldest agricultural research station in the world. Over its 160-year history, Rothamsted Research has built an enviable international reputation as a centre of excellence for science in support of sustainable land management and its environmental impact. Its scientific research ranges from studies of genetics, biochemistry, cell biology and soil processes to investigations at the ecosystem and landscape scale, including climate change impacts.

Rothamsted Research is a centre of international multidisciplinary scientific excellence, primarily (although not exclusively) of relevance to: crops and products from crops; crop and soil management practices and the diverse interactions that occur between crops, other organisms and the physical environment.

Rothamsted Research is the only institute in the UK that integrates mathematics, physics, chemistry, ecology and crop sciences (including: genetics, pathology, entomology and soil science) to contribute predictive understanding and scientifically-sound options for the maintenance of economically and environmentally sustainable systems of exploiting arable land.

In terms of climate change, Rothamsted seeks to understand and predict the impacts of climate change on biotic and abiotic components of agro-ecosystems and provide land-based solutions for mitigation and adaptation through carbon-neutral renewable bioenergy crops and sustainable management strategies that retain ecosystem services and reduce greenhouse gas emissions.

Rothamsted Centre for Bioenergy and Climate Change
Rothamsted Research
Harpenden
Hertfordshire
AL5 2JQ

T: +44 (0)158 2763 133
www.rothamsted.ac.uk/Research/Centres/index.php?Centre=BCC

School of Earth and Environment, University of Leeds

Formed in 2004, the School of Earth and Environment at the University of Leeds is one of the largest in the UK. It has a multidisciplinary approach to understanding our environment, researching the earth from its core to its atmosphere and examining the social and economic dimensions of sustainability. The School also has strong collaborative links with industry, particularly with companies involved in hydrocarbon and mineral exploration, civil engineering and environmental monitoring and remediation.

Research is divided between four institutes:

- Institute for Climate and Atmospheric Science
- Earth Surface Science Institute
- Institute of Geophysics and Tectonics
- Sustainability Research Institute

School of Earth and Environment
Maths/Earth and Environment Building
University of Leeds
Leeds
LS2 9JT

T: +44 (0)113 3436 461
www.see.leeds.ac.uk

School of Environmental Sciences, University of East Anglia

The School of Environmental Sciences is one of the longest established, largest and most fully developed Schools of Environmental Sciences in Europe. It has a holistic approach to teaching and research, integrating physical, chemical, biological, social and geotechnical sciences into the study of natural and human environments - a truly modern philosophy for the new millennium.

The University of East Anglia (UEA) is an internationally renowned university based in a campus that provides top quality academic, social and cultural facilities.

The School has key capabilities in analyses of meteorological instrument data over the last 300 years; use and development of multiple proxy records (e.g. tree-ring data-ice core records) to examine large scale climatic change and spatial pattern over the last 2000 years; development of future climate scenarios (UK and Global) from computer modelling; state-of-the-art GCMs and regional climate models and statistical downscaling techniques.

School of Environmental Sciences
University of East Anglia
Norwich
NR4 7TJ

T: +44 (0)160 3456 161
www.uea.ac.uk/env

School of GeoSciences, University of Edinburgh

The School of GeoSciences at Edinburgh University is a leading interdisciplinary group, aiming to understand the interaction between the earth's geology, atmosphere, oceans, biosphere and human responses and roles in this complex interplay. The School's key research groups are Earth Subsurface Science, Global Change, Human Geography, the Edinburgh Earth Observatory and the Centre for Environmental Change and Sustainability.

The School is a leading international centre for geo science research, that links scientists to policy through knowledge transfer, partnerships and joint ventures. Themes include energy and climate policy, water, land use and land use policy, ecosystem services and international development. The global change research group aims to understand and predict global environmental change. Key approaches include how ice, oceans, atmosphere, land surface and biosphere interacted in the past and at present to aid prediction of future dynamics.

School of GeoSciences
University of Edinburgh
Grant Institute
The King's Buildings
West Mains Road
Edinburgh
EH9 3JW

T: +44 (0)131 6507 542
www.geos.ed.ac.uk

Scotland and Northern Ireland Forum for Environmental Research (SNIFFER)

SNIFFER's principal focus is on addressing knowledge gaps relating to environmental issues, and increasingly where there are interdependencies with the economy and society. Currently, work focuses on

- Climate change
- Sustainable land use and water management (Flood Risk Management, Water Framework Directive implementation)
- Sustainable places
- Environmental regulation

SNIFFER is a company limited by guarantee and a registered charity based in Edinburgh Belfast. It provides a service to its members and partners to manage and deliver knowledge relating to the environment and quality of life.

SNIFFER's approach must currently deliver public benefit and to do this it targets activities through policy makers and policy implementers within government departments and agencies, as well as through other partner organisations. It provides current data and information on recent trends in climate in Scotland and Northern Ireland, and predictions of future impacts and adaptation measures.

SNIFFER
First Floor
Greenside House
25 Greenside Place
Edinburgh
EH1 3AA

T: +44 (0)131 5572 140
www.sniffer.org.uk

Sustainable Consumption Institute (SCI), University of Manchester

SCI is a multidisciplinary centre of global excellence researching major national and international issues associated with sustainability and encouraging consumers to adopt more sustainable lifestyles. The SCI has four research themes: sustainable consumer behaviour and lifestyle, sustainable production and distribution, climate change and carbon, and making development more sustainable.

The SCI was set up against the background of the global threat from climate change and the economic benefits of early action highlighted by the Stern Review. It is recognised that the key to success will be a co-operative approach by government, business and the consumer which will involve understanding how to move towards a low-carbon economy by consuming more efficiently and how to lead low-carbon lifestyles.

The climate change focus is on carbon-mitigation, adaptation and vulnerability.

Sustainable Consumption Institute
188 Waterloo Place
Oxford Road
Manchester
M13 9PL

T: +44 (0)161 2754 030
www.sci.manchester.ac.uk

Tyndall Centre for Climate Change Research

The Tyndall Centre brings together scientists, economists, engineers and social scientists, who together are working to develop sustainable responses to climate change through trans-disciplinary research and dialogue on both a national and international level – not just within the research community, but also with business leaders, policy advisors, the media and the public in general. The Centre aims to become an internationally recognised source of high quality and integrated climate-change research, and to exert a seminal influence on the design and achievability of the long-term strategic objectives of UK and international climate policy.

Its purpose is to research, assess and communicate from a distinct trans-disciplinary perspective, the options to mitigate, and the necessities to adapt to, climate change, and to integrate these into the global, UK and local contexts of sustainable development.

A specific focus is the community integrated assessment system, to work with the Hadley Centre to include models of climate change on natural and social systems and their feedbacks to the climate system; sustainable development with low carbon technology; resilience of the coasts and cities to climate change impact, and adaptation; food, water and human security under climate change; green house gas stabilisation and transition to a low carbon society.

Tyndall Centre
Zuckerman Institute for Connective Environmental Research
School of Environmental Sciences
University of East Anglia
Norwich
NR4 7TJ

T: +44 (0)160 3593 900
www.tyndall.ac.uk

UK Climate Impacts Programme (UKCIP)

UKCIP helps organisations to adapt to inevitable climate change. While it's essential to reduce future greenhouse gas emissions, the effects of past emissions will continue to be felt for decades.

Since 1997 UKCIP has been working with the public, private and voluntary sectors to assess how a changing climate will affect

- Construction
- Working practices
- Demand for goods and services
- Biodiversity
- Service delivery
- Health

UKCIP provides scenarios of how climate may change and coordinates research on dealing with future climate. It shares information free of charge with the commercial and public sectors to aid preparing for climate change.

UK Climate Impacts Programme
Oxford University Centre for the Environment
Dyson Perrins Building
South Parks Road
Oxford
OX1 3QY

T: +44 (0)186 5285 717
www.ukcip.org.uk

UK Energy Research Centre

The UK Energy Research Centre is the focal point for UK research on sustainable energy. It takes an independent, whole-systems approach, drawing on engineering, economics and the physical, environmental and social sciences. The Centre's role is to promote cohesion within the overall UK energy research effort. It acts as a bridge between the UK energy research community and the wider world, including business, policymakers and the international energy research community, and is the centrepiece of the Research Council's Energy Programme.

The Centre was established in 2004, and funding comes from three Research Councils: the Engineering and Physical Sciences Research Council (EPSRC), the Natural Environment Research Council (NERC) and the Economic and Social Research Council (ESRC).

UK Energy Research Centre
58 Princes Gate
Exhibition Road
London
SW7 2PG

T: +44 (0)207 5941 574
www.ukerc.ac.uk

UK Met Office Hadley Centre

The Met Office Hadley Centre was founded in 1990 and is a global leader and the UK's foremost climate change research centre, producing world-class guidance on the science of climate change and providing a focus in the UK for the scientific issues associated with climate change.

The Hadley Centre aims to

- Understand physical, chemical and biological processes within the climate system and develop computer models of the climate which represent them
- Use computer models to simulate the differences between global and regional climates, the changes seen over the last 100 years, and to predict changes over the next 100 years
- Monitor global and national climate variability and change
- Attribute recent changes in climate to specific factors

UK Met Office Hadley Centre
Met Office
Fitzroy Road
Exeter
EX1 3PB

T: +44 (0)139 2885 680
www.metoffice.gov.uk/climatechange/science/hadleycentre

Walker Institute for Climate System Research

The Walker Institute was established in 2006 and brings together the breadth and depth of climate expertise that exists within the University of Reading. It aims to be a world leader in integrated climate system research in order to deliver better knowledge and understanding of future climate and its impacts for the benefit of society.

The Walker Institute works with the wider scientific community, especially the Met Office Hadley Centre and the National Centre for Atmospheric Science to respond to the demands and challenges that the world is facing due to increasing vulnerability to climate variability and change.

The Institute aims to answer fundamental questions in understanding and forecasting climate and its impacts across a range of applications, specifically to

- Study the processes that govern climate variability and change on local, regional and global scales, by integrating research across disciplines and across timescales
- Improve predictions of the climate on all timescales by building better models and by making better use of observations
- Provide more confident assessments of future impacts for the benefit of society, by building firm scientific foundations for utilising climate forecasts

The Institute provides a core expertise with integrated climate system research including links to insurance industry understanding of extreme events, forecasting climate over the next 10 years, climate change and food security.

Walker Institute for Climate System Research
Agriculture Building
University of Reading
Earley Gate
Reading
RG6 6AR

T: +44 (0)118 3787 380
www.walker-institute.ac.uk

Wellcome Trust

The Wellcome Trust was established in 1936 and is a global charity dedicated to achieving extraordinary improvements in human and animal health, including public engagement, education and the application of research to improve health. With an endowment of around £13 billion, it is the UK's largest non-governmental source of funds for biomedical research.

As well as tackling immediate priorities, the Trust's independence and long-term perspective enables research that will benefit future generations, including the interaction between climate change and health. The Trust has a history of funding and supporting climate change and health research projects across UK organisations.

Wellcome Trust
Gibbs Building
215 Euston Road
London
NW1 2BE

T: +44 (0)207 6118 888
www.wellcome.ac.uk

WWF (UK)

WWF-UK was launched in 1961 and is the UK arm of the WWF Network, the world's leading environmental organisation founded in 1961 and now active in over 100 countries. WWF has a unique combination of practical experience, knowledge and credibility, and works with governments, businesses and communities both here in the UK and around the world so that people and nature thrive within their fair share of the planet's natural resources. In 2007/8 it spent £42m on its work, most of its income coming from its dedicated members and supporters.

WWF has a worldwide reputation as a leading expert and a measured and principled contributor on environmental issues.

WWF is

- The world's leading independent environmental organization
- A global network, working in more than 90 countries
- A challenging, constructive, science-based organization that addresses issues from the survival of species and habitats to climate change, sustainable business and environmental education

WWF uses its practical experience, knowledge and credibility to create long-term solutions for the planet's environment. Climate change focus includes researching and addressing impacts and adaptation, outreach, solutions for sustainable lifestyles and businesses and global solutions including international treaties.

WWF
Panda House
Weyside Park
Godalming
GU7 1XR

T. +44 (0)148 3426 444
http://www.wwf.org.uk

Dent Associates

Science in Business

The next 20 years will be dominated by issues of global food security, climate change, water use and the need for more sustainable development. Dent Associates have the expertise and experience to assist small-medium enterprises to address these issues, to build a sustainable successful business and to benefit from opportunities that exist in this new and challenging environment

Socially responsible businesses can be drivers of a societal change improving the sustainability of of livelihoods across the world. Dent Associates mission is to make a signficant contribution to the development of sustainable business that will enable food security for all during a period of unprecedented challenge created by climate change and population growth. This we are able to do through our unique business approach to science and a sound evidence-based approach to use of science in business.

Dent Associates provide the following services:

- Advice and Tailored Business Support
- Business Strategy and Development
- Government Affairs
- Export and International Partnering
- Innovation and Technology Validation

Dent Associates work with small to medium enterprises, investors and investment banks

What we do? - We always find a way to make things happen!

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