



## Marine Climate Change Impacts Partnership

Dear MCCIP news subscriber,

MCCIP website has recently been updated with new marine climate change news and events. Below is a brief summary of the new items that have been added. For more details on all of the items listed below, simply go to [www.mccip.org.uk](http://www.mccip.org.uk) and go to the relevant links in the 'news and events' box on our homepage. Please note that the material presented in MCCIP news does not necessarily reflect the views of MCCIP.

- **[UKCP09 climate change projections website update](#)**

The UKCP09 climate change projections website has been refreshed and updated based on customer feedback. UKCP09 remains the leading source of climate change information for the UK. Visitors will still find all the same high quality information as before, but it will be easier to find and use, particularly for those who are new to climate change impacts and adaptation. The Environment Agency manages UKCP09 with support from the Met Office as part of its Climate Ready Support Service. Since April 2012, this support service has provided advice to help organisations in adapting to a changing climate.

- **[2014 confirmed as UK's warmest year](#)**

According to the Met Office, 2014 was the UK's warmest since records began in 1910, as well as the fourth wettest. The UK's mean temperature for the year was 9.9C - that is 0.2 degrees higher than the previous record set in 2006. However no month saw record temperatures - instead each month was consistently warm, according to the Met Office. Last year's record means that eight of the UK's top-ten warmest years have occurred since 2002.

- **[Flood risk data open to all](#)**

The Environment Agency's Flooding from Rivers and Sea datasets has been released under Open Government Licence and can be accessed through [data.gov.uk](http://data.gov.uk). The Agency saw the potential for innovation during the flood events last winter when the Agency released some flood data free of charge. Developers

came up with a range of solutions to help – from a phone service that connects people with their energy supplier in the event of a power cut to an app that alerts Twitter users to volunteering opportunities in their local area. The Environment Agency hopes to create more opportunities for web and mobile applications for businesses and the public to help communities understand their local environment and better protect themselves from flood risk.

- **[Early warning signs of abrupt climate change](#)**

A new study by researchers at the University of Exeter has found early warning signals of a reorganisation of the Atlantic ocean's circulation which could have a profound impact on the global climate system. The research, published in December 2014 in *Nature Communications*, used a simulation from a highly complex model to analyse the Atlantic Meridional Overturning Circulation (AMOC), an important component of the Earth's climate system. The AMOC is like a conveyor belt in the ocean, driven by the salinity and temperature of the water. The early warning signals discussed in the paper provide information about the approach of the system towards the tipping point. [Chris A. Boulton, Lesley C. Allison, Timothy M. Lenton. Early warning signals of Atlantic Meridional Overturning Circulation collapse in a fully coupled climate model. *Nature Communications*, 2014; 5: 5752 DOI: [10.1038/ncomms6752](https://doi.org/10.1038/ncomms6752)]

- **[PhD research training opportunities](#)**

The Centre for Ocean and Atmospheric Sciences (COAS) at UEA announces exciting PhD research training opportunities. Funding may be available through the EnvEast NERC-funded Doctoral Training Programme led by UEA. Some of the titles available are: “Predictability of European marine climate over seasons to decades”; “Impact of climate change on Jellyfish occurrence”; and “Mechanisms for shelf sea carbon uptake”. Check the website (<https://www.uea.ac.uk/study/postgraduate/research-degrees/phds-and-studentships/environmental-sciences>) for a full list. Deadlines for applications start from January 2015.

**News stories:** If there are any relevant news items or events that you would like to highlight on the MCCIP website please contact Susana Lincoln at [office@mccip.org.uk](mailto:office@mccip.org.uk). New items will be added to the website next month.

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