



## Marine Climate Change Impacts Partnership

Dear MCCIP news subscriber,

The 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.

- **[Climate change risks biggest change to marine species in 3m years](#)**  
Humans rely heavily on the world's oceans. About 70% of the world population lives within 60km of the shoreline, and we catch around 80 million tonnes of fish every year. In our new study, we investigate how warming oceans could affect the spread of marine species. And the results suggest warming over 2C would have a bigger impact on marine biodiversity than we've seen in the last three million years. [Beaugrand, G. et al. (2015) Future vulnerability of marine biodiversity compared with contemporary and past changes, Nature Climate Change, [doi:10.1038/nclimate2650](https://doi.org/10.1038/nclimate2650)].
- **[2015 CCC Progress Report to Parliament](#)**  
The UK's Committee on Climate Change first report to the new Parliament and the first report under sections 36 and 59 of the Climate Change Act, covering both progress towards meeting carbon budgets and progress on adaptation to climate change, was published last month. It includes the CCC's first ever statutory assessment of the National Adaptation Programme. The report comes in 3 volumes: **[I Reducing emissions and preparing for climate change; II Meeting Carbon Budgets; III Progress in preparing for climate change.](#)**
- **[Melting ice caps and the economic and environmental impact of opening the Northern Sea route](#)**  
A discussion paper recently published by the Netherlands Bureau for Economic Policy Analysis examines the consequences of the melting of Arctic ice caps on

the Northern Sea shipping route. The opening of this route will represent a sizeable reduction in shipping distances and a decrease in the average transportation days by around one-third compared to the currently used Southern Sea Route. The study predicts a shift of bilateral trade flows between, as well as within, Asia and Europe, which will have income and welfare effects for the countries involved. The estimated redirection of trade highlights political interest and environmental pressure on the Arctic.

- **[Europe's seas: productive, but not healthy or clean](#)**

A new **report** published today by the European Environment Agency shows that, despite some improvements, the way we use our seas remains unsustainable and threatens not only the productivity of our seas, but also our wellbeing. Human activities and climate change are increasingly putting a number of pressures on Europe's seas, the cumulative effects of which threaten the functioning and resilience of marine ecosystems.

- **[Defra Climate Science Packages – Met Office Hadley Centre Climate Programme](#)**

Three Defra climate science packages have been produced as part of the Met Office Hadley Centre Climate Programme by the Hadley Centre's Knowledge Integration team. These packages give an introduction to a range of climate science topics and contain a summary of research from the Hadley Centre Climate Programme, as well as the wider scientific community. The Global Projections package looks at model projections of the climate might change in the future in terms of sea level rise and storminess. The Monitoring the Climate package discusses how we measure and observe the climate, including a closer look at the 'slowdown' or 'pause' in global temperature. The Dangerous Climate Thresholds package talks about potentially large changes in the climate that could have a big impact on the UK: melting of polar ice sheets, changes to ocean circulation in the North Atlantic, the disappearance of Arctic sea ice, and rapidly changing ecosystems.

**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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