



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 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.

- [Rapid climate driven shifts in wintering distributions of three common waterbird species](#)
Three species of waterbirds - the tufted duck, goosander and goldeneye - are common in Britain and Ireland during northern Europe's winter. In the last 30 years, their numbers in these countries have shrunk. Lehtikoinen et al say that these Arctic-breeding species are no longer travelling as far to find unfrozen lakes for feeding. ([Lehtikoinen, A., et al., DOI: 10.1111/gcb.12200](#))
- [Trans-Arctic shipping routes likely to increase as ice melts](#)
New research on climate-driven reductions in Arctic sea ice has predicted that, by 2040 to 2059, new shipping routes will become passable across the Arctic, linking the Atlantic and Pacific oceans. An increase in traffic has implications for the ecosystems of this fragile area. ([Smith, L.C. & Stephenson, S.R., DOI: 10.1073/pnas.1214212110](#))
- [Survey: How best to communicate climate projections](#)
A project exploring how people understand and interpret visualisations of climate projections has begun at the University of Leeds. With the aim of improving scientific communication, a 15-20 minute survey trialling a number of different climate visualisations has been created and the creators are looking for people to complete the survey by the end of May.
- [Ocean warming affecting global fishery catches](#)
Warming oceans are pushing fish toward the poles in search of cooler waters. According to a study this raises new concerns that climate change is affecting the tropics' primary source of income and nutrition. Global fishery catches are increasingly dominated by warm-water species as a result of fish migration and, as a result, the fish which we eat will reflect this. ([Cheung, W., Watson, R. & Pauly, D., DOI: 10.1038/nature12156](#) & [Payne, M.R., DOI: 10.1038/497320a](#))
- ["Best estimate" for impact of melting ice on sea level rise](#)
An EU-funded team, [Ice2sea](#), have found that sea level rise could be higher than

the [IPCC](#) AR4's projection in 2007. They say that continental ice sheets and glaciers could add 36.8cm to the oceans by 2100. When combined with other factors, sea level could exceed 84cm by 2100; with a very small chance of seas around Britain rising by a metre following a 50-year extreme storm-surge event. (["From Ice to High Seas: Sea-level rise and European coastlines" report](#))

- [Natural climate variability in North Atlantic marine ecosystems](#)
Apart from the well documented trend in global temperature that has been rising almost linearly over the past few decades, there are a number of important natural oscillations in climate that continue to occur including the multidecadal Atlantic Multidecadal Oscillation. A new study shows that it accounts for the second most important macro-trend in North Atlantic plankton records, is responsible for habitat switching and influences fishery catches. ([Edwards, M., et al., DOI: 10.1371/journal.pone.0057212](#))

News stories: If there are any relevant news items or events that you would like to highlight on the MCCIP website please contact Georgia Bayliss-Brown at office@mccip.org.uk. New items will be added to the website next month.

Georgia Bayliss-Brown BSc (Hons) MSc

MCCIP Secretariat

The Centre for Environment, Fisheries and Aquaculture Science
Pakefield Road, Lowestoft, Suffolk, NR33 0HT, UK

Tel: +44(0)1502 524340 - Email: georgia.bayliss-brown@cefas.co.uk

[forward to a friend](#)

Copyright © 2013 Marine Climate Change Impacts Partnership All rights reserved.

Our mailing address is:
office@mccip.org.uk

Find more: For more stories on marine climate change, follow [@CefasGovUK](#)

[unsubscribe from this list](#) | [update subscription preferences](#)