

U.S. Atlantic Meridional Overturning Circulation (AMOC) Update
March 2010

Under the guidance and support of relevant federal agencies (NASA [lead], NOAA, and NSF), the US ocean research community is focused on the 4th near-term priority of the Ocean Research Priorities Plan, the Atlantic Meridional Overturning Circulation (AMOC). Here we report significant events resulting from that effort since the last update:

Leadership

As of 4/1/2010 Bill Johns, University of Miami, will take over as chair of the US AMOC Science Team, replacing Susan Lozier, Duke University, who has served as chair since spring of 2008.

US AMOC Activities

- A workshop for the design of a subpolar North Atlantic observing system is currently being planned for April 14-16, 2010, at Duke University, Durham, NC. Susan Lozier is leading this effort, in conjunction with John Toole, Amy Bower, Craig Lee, Bob Pickart and Fiamma Straneo.
- George Halliwell and Tony Lee are working with Susan Lozier and the US CLIVAR Project Office to organize this year's AMOC Annual Science Team meeting to be held in Miami, Florida from June 7-9, 2010.

New Science Results

- Jim Carton and Sirpa Hakkinen are guest editors for a Special issue of Deep-Sea Research II: Climate and the Atlantic Meridional Overturning Circulation. Currently ~18 papers are in review.
- Terry Joyce and Rong Zhang have a manuscript accepted in the Journal of Climate: *On the path of the Gulf Stream and the Atlantic Meridional Overturning Circulation*.
- Josh Willis has a paper in press in Geophysical Research Letters: *Can In-Situ Floats and Satellite Altimeters Detect Long-Term Changes in Atlantic Ocean Overturning?*
<http://www.agu.org/journals/gl/papersinpress.shtml>
- Amy Bower, Susan Lozier and colleagues recently submitted a paper to Deep Sea Research: *The export of Labrador Sea Water from the subpolar North Atlantic: a Lagrangian perspective*.
- Susan Lozier, Stefan Gary and colleagues recently submitted a paper to Deep Sea Research: *Deciphering the pathways for the deep limb of the Meridional Overturning Circulation*

Submitted by:

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