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rossby centre news

SMHI

A NEWSLETTER FROM THE ROSSBY CENTRE

Collaboration in support of climate adaptation

Autumn is here in all its splendour, and to us autumn also means Rossby Centre Day. An annual outreach event where we present our research activities to a broad audience. This year we focus on collaboration in support of climate adaptation. So, if you work with climate adaptation or related issues - don't forget to register!

This issue of Rossby Newsletter also contains info on the progress of coupling RCA4 to the widely used ocean model NEMO, and articles with CMIP5 and EC-EARTH as a common theme. Last, but not least, we have a guest contribution on the atmospheric impact on sea-ice reduction.

Colin Jones
Head of the Rossby Centre



Rossby Centre Day 2011: "Transdisciplinary research collaboration in support of climate adaptation studies"

Is the theme of this year's Rossby Centre Day which is an annual outreach event, where the Rossby Centre presents its research activities to collaborating researchers, climate stakeholders, as well as government and funding agencies. This year the Rossby Centre Day will be held on November 16 in Norrköping and focus on collaboration in support of climate adaptation.

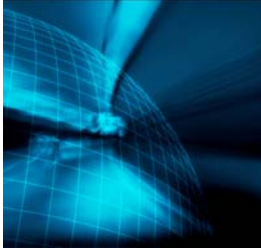
[Read more about the Rossby Centre Day programme and how to register \(Swedish\)](#)



Accomplished EC-EARTH simulations for CMIP5

The EC-EARTH model has been used during the last months to produce simulations for the on-going Coupled Climate Model Intercomparison Project Phase 5 (CMIP5) in support of the next IPCC Assessment Report. The simulations have been completed and the results meet the expectations. Some post-processing of the output remains before the results can be transferred to the CMIP5 archive for further analysis by the wider scientific community.

[Read more about EC-EARTH simulations for CMIP5](#)



CMIP5 - Ensemble decadal simulations with EC-EARTH

An ensemble of decadal simulations with actualised forcing covering 1960-2015 decades has been performed with the Earth System Model EC-Earth. The data will be provided into the CMIP5 archive, and their analysis will investigate several actual aspects of decadal predictability.

[Read more about decadal simulations with EC-Earth](#)



Successful coupling of RCA4 with the ocean model NEMO

The new version of the Rossby Centre regional atmospheric model (RCA4) has successfully been coupled with the ocean model NEMO. Recent evaluations show that the coupled system is stable.

[Read more about the coupling of RCA and NEMO](#)



Satellite measurements shed light on the atmospheric impact on sea-ice reduction in the Arctic

A reoccurring conclusion from recent studies of the atmospheric impact on sea-ice reduction is the anomalously large convergence of atmospheric heat and moisture and the enhancement of downwelling longwave radiation from enhanced cloudiness. Here, the clear-sky atmospheric greenhouse effect is examined by analyzing the anomalies in thermodynamic profiles from instruments onboard the Aqua satellite.

[Read more about the clear-sky anomalies over the Arctic](#)

ABOUT THE ROSSBY CENTRE

The Rossby Centre pursues research on climate processes and the behaviour of the climate system. The principal tools are the global and regional climate models developed within the research unit.

[Rossby Centre at www.smhi.se](http://www.smhi.se)

CONTACT AND DATA REQUEST

[Climate scenario data](#) from the Rossby Centre is available via a web application or as netCDF-files for download. The Rossby Centre can be reached via rossby.data@smhi.se, where requests for data and other material can be made.

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