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## Rosby Centre Day 2010

The Rosby Centre Day is an annual outreach event, where the activities of the Centre at SMHI are presented to collaborating researchers, climate stakeholders, as well as government and funding agencies. This year the Rosby Centre will host a workshop with the theme: "Rosby Centre User Forum: Examples of Using Climate Projections in Impact Research".

[Rosby Centre Day 2010](#)

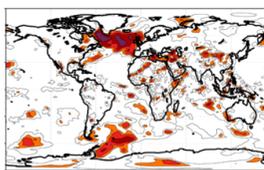
## Rosby Centre Staff news

Mihaela Caian joined the Rosby Centre in February 2010 to work on decadal climate prediction and ensemble climate scenarios with coupled (atm.-ocean) global climate models. Mihaela has previously carried out research within the field of Mathematics and Fluid dynamics at the University of Bucharest, Romania. She has a Ph D in numerical atmospheric modelling from the Paul Sabatier University in Toulouse.

[Mihaela Caian home page at SMHI](#)

## Potential decadal predictability in EC-EARTH

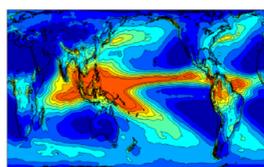
The next IPCC-report aims to provide better information on the evolution of the total climate system over the coming 1-3 decades. In order to estimate the upper limit of decadal predictability or the so called 'potential predictability', perfect ensemble simulations are performed with EC-EARTH. The results show that the atmospheric circulation has almost no significant predictability while the potential predictability of temperature is somewhat larger, particularly over the North Atlantic Ocean.



[Potential decadal predictability in EC-EARTH](#)

## Release of EC-EARTH Version 3.0beta

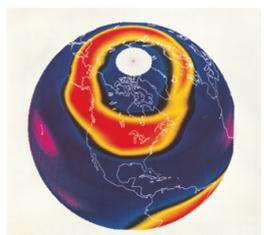
A new version of the earth system model EC-EARTH has recently been released by the Rosby Centre to the EC-EARTH community. The new version 3.0beta includes upgraded components, namely the ECMWF atmospheric model (IFS) cycle 36r1 and version 3.2 of the Nemo/LIM ocean and sea-ice models.



[Release of EC-EARTH Version 3.0beta](#)

## EC-EARTH and CMIP5

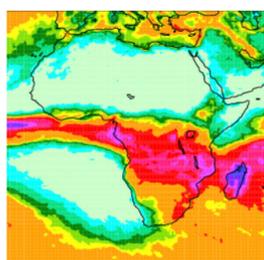
The 5th Coupled Model Intercomparison Project (CMIP5) of the World Climate Research Program (WCRP) is about to start. All global climate models are invited to participate in CMIP5 and submit their results to the database that will be a major resource for the coming IPCC Assessment Report 5.



[EC-EARTH and CMIP5](#)

## Evaluating the first CORDEX simulations over Africa

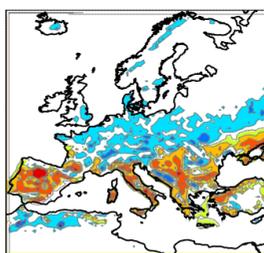
The Coordinated Regional Downscaling Experiment (CORDEX) is an international project sponsored by the World Climate Research Program (WCRP) to develop a coordinated ensemble of high-resolution, Regional Climate projections for the majority of land-regions of the world. In this article we briefly report on an evaluation of the first set of CORDEX simulations, run over Africa in phase I of the project.



[Evaluating the first CORDEX simulations over Africa](#)

## Future Hotspots in European Climate-Vegetation Feedbacks

The role of vegetation-climate feedbacks over Europe has been investigated. One conclusion drawn is that contrasting feedback mechanisms between climate and vegetation differ by region and season. In the Scandinavian mountains, feedbacks related to surface albedo amplify the warming in winter and spring.



[Future Hotspots in European Climate-Vegetation Feedbacks](#)

## Downscaling extreme RCA3-precipitation for urban hydrological applications

Urban hydrological modelling requires precipitation data at a very high resolution, in both time and space. A new report about simulating extreme local short-term (30-min) precipitation from the RCA3 regional climate model is available. A simple stochastic downscaling scheme based on cloudiness and precipitation components is formulated and evaluated in the report.



[Downscaling extreme RCA3-precipitation for urban hydrological applications](#)

## CONTACT AND DATA REQUEST

Information about the Rosby Centre can be found at [www.smhi.se](http://www.smhi.se). The Rosby Centre can be reached via [rossby.data@smhi.se](mailto:rossby.data@smhi.se), where requests for data and other material can be made.