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rossby centre news

SMHI

A NEWSLETTER FROM THE ROSSBY CENTRE

Welcome to the May 2013 Newsletter

Spring has finally arrived at the Rossby Centre and we would like to give you an update on our activities over the last few months.

In this edition you can find: three articles on a selection of the scientific work currently being undertaken by the group; information on the Rossby Centre Day that took place in early May; and information on our involvement in successful proposals for the last call of the European Union Framework Programme 7.

As always please get in touch with any comments or questions you have about the Rossby Centre.

Best wishes,
Colin Jones
Head of the Rossby Centre



From data to decisions.....

On Monday 6th and Tuesday 7th May 2013 representatives of the Rossby Centre, SMHI, the impacts and risk assessment community and relevant stakeholders came together for the annual Rossby Centre Day at SMHI in Norrköping.

Under the title '**From data to decisions....**' the aim of the meeting was to improve the communication between these three communities to allow for more effective collaboration and ultimately more informed decisions on climate change mitigation and adaptation across the Nordic and Baltic regions.



[Click here for more information and to download the presentations](#)

Blocking index and Arctic Oscillation in decadal experiments with EC-Earth

Rosby Centre scientists have been analyzing the ability of our modelling system ability to reproduce Arctic Oscillation decadal variability. EC-EARTH model version 2.3 (Hazeleger et al, 2013) was used in CMIP5 configuration and forcing setup for an extended decadal hindcast experiment. This consists of an ensemble of 5 members each with 46 decadal simulations, starting yearly on 1st November for the period 1960-2005. The coupled model was initialised using anomaly method for ocean and ice and the 5 members are obtained perturbing both: ocean and ice initial state.



[Read more on these decadal experiments using EC-EARTH](#)

Reproducing an extreme precipitation event over Crete using high-resolution climate model simulations

The Rossby Centre is a participant in the EU project ECLISE. The main objective in this project is to take the first step towards the realisation of a European Climate Service. The Rossby Centre is involved mainly in providing regional climate model simulations over Europe to be subsequently used in impact studies. It not only involves pan-European simulations, but also European sub-regions that have been selected for specific case studies, such as Crete. In these latter experiments, the goal is to use very high-resolution climate models. We are currently working towards the development of a new regional climate model (RCM), based on the non-hydrostatic numerical weather prediction model HARMONIE.



[Read more on the results of high resolution model simulations over Crete](#)

Evaluation of water vapour in EC-Earth

For model evaluation and improvements long-term homogeneous and consistent observational data sets are needed. The EUMETSAT Satellite Application Facility on Climate Monitoring (CM-SAF) datasets have recently been made for available for the climate modelling community, including variables such as cloud and moisture and radiation variables. We have used the water vapour products for evaluation of the Rossby Centre global climate model EC-Earth.

[Find out more about the evaluation of water vapour simulated by EC-Earth](#)



Success for Rossby Centre partnered projects in last FP7 call

We recently received news that three project proposals for the the final FP7 call in which the Rossby Centre are partners have been successful. These projects will now enter final negotiations with the European Commission with likely start dates in Autumn 2013.

[Click here for more on the upcoming projects we are involved in](#)



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.