

# rossby centre news

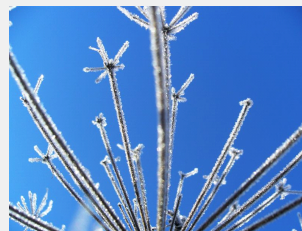
**SMHI**

A NEWSLETTER FROM THE ROSSBY CENTRE

Welcome to the February 2013 Newsletter

Welcome to this first Rossby Centre newsletter of 2013. There are a number of exciting activities ongoing within the group and in this issue you will find:

- Information on the upcoming Rossby Centre Day;
- Recent research news including a Nature Geosciences publication
- An update on our FP7 project work
- The CORDEX 2013 conference



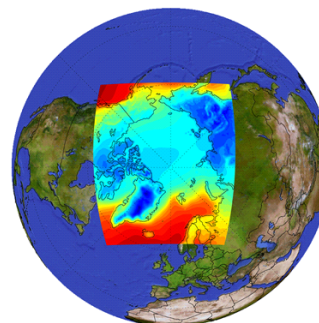
We hope you will find some information of interest and please remember that you can see the latest news from the Rossby Centre on our website.

Best wishes,  
Colin Jones  
Head of the Rossby Centre

## Rossby Centre Day, 6th-7th May 2013

The next Rossby Centre Day will take place on Monday 6th and Tuesday 7th May 2013. Here, we will launch our latest data, analysis and results including new RCP (Representative Concentration Pathways) scenarios, and CMIP5 and EURO-CORDEX simulations. We invite all those with an interest in using this information, particularly those from the climate impacts and risk assessment community and decision makers from government and industry, to come along and find out more.

[Click here for more information on the Rossby Centre Day](#)



---

## Nature Geosciences Article: Rainfall extremes linked to showers

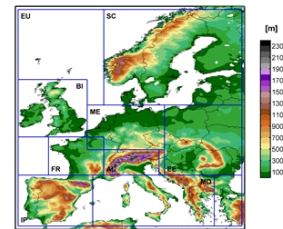
Rainfall extremes have far reaching consequences for nature and human society and their study therefore constitutes one of the main research focuses for meteorology and climatology. However, the topic of extreme rainfall is further complicated by rainfall properties being strongly dependent on the time scale studied, e.g. five minute periods compared to hourly or daily periods. There are also different types of precipitation, resulting from different processes that produce rain.

[Read more on Rossby Centre's Peter Berg's Nature published research](#)



## Emerging regional climate change signals under varying large-scale circulation conditions

A large ensemble of regional climate model projections from the ENSEMBLES project has been investigated for if, and when, they show an emergence of significant climate change signals in seasonal mean temperature and precipitation in different areas of Europe. The influence of the North Atlantic Oscillation (NAO), as simulated in the projections, was also investigated.

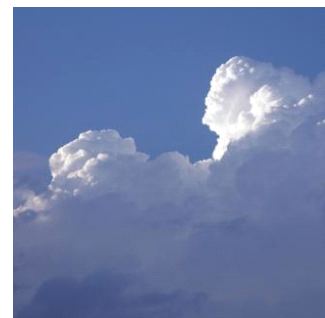


[Find out more about the results of the ENSEMBLES projections](#)

---

## Aerosol-cloud interactions in EC-Earth

Changes in cloud properties resulting from aerosol loading can have potentially significant effects on the radiative forcing and cloud and precipitation patterns and amounts (indirect aerosol effects). The Rossby Centre provides global climate predictions and projections using the EC-Earth model, which features advanced parametrizations of clouds and radiation but has rather crude representation of aerosols. Here we test the benefits of more realistic aerosol distributions and more complete aerosol and cloud representation that accounts for the interactions of aerosols with clouds and radiation.



[Find out more about our work on aerosol-cloud interactions in EC-Earth](#)

---

## FP7 project update

Work continues apace at the Rossby Centre on the number of FP7 projects we are involved in. Recent activities include participation in the EUPORIAS Stakeholder workshop in Rome in January. The discussions focused on how to best bridge the gap between producers and users of seasonal and decadal information.



[For more information on the EUPORIAS Stakeholder workshop](#)

---

## CORDEX 2013 conference, 4th-7th November 2013, Brussels

The International Conference on Regional Climate - CORDEX 2013 brings together the international community of regional climate scientists to present and discuss results from WCRP regional climate studies, with a particular emphasis on the CORDEX initiative.



Registration is now open and abstracts are invited before the 1st April deadline. Opportunities and financial support for students, early career scientists and scientists from developing countries is also available.

[Click here for the CORDEX 2013 conference website](#)

---

## 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.

## 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](mailto:rossby.data@smhi.se), where requests for data and other material can be made.

