# rossby centre news

SMHI

A NEWSLETTER FROM THE ROSSBY CENTRE

## Welcome to the March 2014 Newsletter

In this first newsletter of 2014 you can read about some recent Rossby Centre activities. These include the kick-off meetings of a number of new and challenging EU FP7 and Nordic projects and also progress reports of some ongoing and soon-to-be completed projects. Topics include: aspects of climate change at the time when the global temperature has increased by 2 degrees; changes in the Arctic climate and associated impacts; and “climate-proofing” the forestry sector.

Please feel free to get in touch with any comments or questions you have about the Rossby Centre. We look forward to hearing from you!

Best wishes,
Erik Kjellström
Head of the Rossby Centre

# rossby centre SCIENCE HIGLIGHTS

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## What are the impacts of a global warming of 2˚C?

The FP7 IMPACT2C project brings climate and impact modellers, including the Rossby Centre, together with experts on climate change adaptation and vulnerability to investigate what the local and regional impacts of a two-degree global warming will be. One part of this work deals with future climate change and its associated uncertainties. In a new study, regional climate change in Europe has been investigated.

To read more about the new study click here

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## ADSIMNOR project on Arctic climate change nears completion

The Arctic warms faster than other areas and the widely reported decline of Arctic sea ice cover over recent years is connected to rapid events leading to new record low summer ice extents. The Rossby Centre led project ADSIMNOR (ADvanced Simulation of Arctic Climate Change and IMpact on NOrthern Regions), which aims to improve the understanding of climate change in the Arctic and its impacts in northern Sweden, will come to an end during 2014. Together with advancing scientific knowledge the project has also been involved in a two-way stakeholder dialogue, communicating possible usage of climate projections for additional impact assessment and local decision making.

Find out more about the ADSIMNOR project here

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## Helping to ‘climate-proof’ the Swedish and Finnish forestry sectors

Rossby Centre scientist Lars Bärring works within the Mistra-SWECIA research programme to help forest scientists at Skogforsk to develop new production functions for Scots pine. With these new functions it is possible to take present day climate and the future warming trends into account when optimising the selection of Scots pine seedlings for forest regeneration.

Click here to learn more about this work

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## How will the earth’s climate respond to future changes in sea ice and snow cover?

Torben Königk of the Rossby Centre recently attended the launch meeting of the Impact of future cryospheric changes on Northern Hemisphere: Climate, green growth and society (GREENICE) project in Bergen. The project sets out to discover more about the interactions between changes in climate, such as extreme winter cold spells and summer heat waves, and future changes in Arctic sea ice and snow cover.

Click here to find out more about the project and our role in it

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### Final wave of FP7 projects kick off

The European Union Framework Programme 7 (FP7) is now drawing to a close with the last projects to be funded by this programme kicking off during recent months. The Rossby Centre is involved in three of these projects; CLIP-C, GLOBAQUA and HELIX.

Find out more about the projects and how our team will contribute

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## rossby centre OTHER ACTIVITIES

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### Rossby scientist takes on IPCC focal point role

From January 2014 SMHI has been tasked as the Swedish IPCC Focal Point. This responsibility is shared between Rossby Centre scientist Lars Bärring and Lena Lindström at the SMHI Core Services department. Working in close collaboration, Lars is focusing on contacts with Swedish scientists and experts involved or interested in IPCC activities, coordination of the Swedish review process, in addition to leading the Swedish delegation at IPCC meetings. Meanwhile Lena's focus is on contacts with Swedish government agencies, and communicating and disseminating IPCC information and results. Lars and Lena can both be reached at ipccfocalpoint@smhi.se

Up to date information can be found here (Swedish only)

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### Rossby Centre scientists join SMHI colleagues at CIRCLE2 conference

Erik Kjellström, Lars Bärring and Eleanor O'Rourke from the Rossby Centre joined their SMHI colleagues Carin Nilsson, Åsa Sjöström and Ingrid Gudmudsson to participate in the CIRCLE2 Adaption Frontiers Conference in Lisbon, 10th-12th March. CIRCLE-2 is a European Network of 34 institutions, including SMHI, from 23 countries committed to fund research and share knowledge on climate adaptation and the promotion of long-term cooperation among national and regional climate change programmes.

Click here for more details on our participation at the conference

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## rossby centre STAFF NEWS

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### Renate Wilcke

Renate joined the Rossby Centre in January 2014 to work on the reduction of ensembles for climate impact applications, mainly for Mistra-SWECIA and CLIP-C. Previously, she has worked as a research scientist (PhD student) at Wegener Center, Uni Graz, where she has been working on bias correction and analysis of regional climate models.

### Bode Gbobhaniyi

After completing a year as a visiting scientist in 2012/2013, Bode will be joining the Rossby Centre once more on detachment from the Centre for Atmospheric Research (CAR) in Nigeria and continuing his work with CORDEX Africa.

### Barry Broman

After over 40 years at SMHI Barry retired at the end of January. He joined the Rossby Centre in 2002 with responsibility for global climatic data and scenarios of the future climate from five different global climate models within the Arctic Climate Impact Assessment, ACIA. After that he moved to analysis of sea levels in the SEAREG project, and also responsibility for

general data analysis and data storage, and latterly the ECDS portal. His retirement was marked with a party and present from his colleagues.

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

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.