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- Lars Bärring, Sweden
- Ole Bøssing Christensen, Denmark
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- Filippo Giorgi, Italy
- Jens Hesselbjerg Christensen, Denmark
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### Organisation



Denmarks Meteorologiske Institut

Sveriges Meteorologiska och  
Hydrologiska Institut



Lunds Universitet



GKSS-Forschungszentrum Geesthacht GmbH

### GEOCENTRE, Lund University

GeoBiosphere Science Centre  
Sölvegatan 12  
223 62 Lund  
Sweden

### Further Information

Details on registration procedures and the Workshop in general will be available at the BALTEX website:

[www.baltex-research.eu/RCM2009](http://www.baltex-research.eu/RCM2009)

### Travel



Copenhagen Airport Kastrup has flight connections to many destinations worldwide. Frequent connections between Kastrup and Lund are by bus or railway, taking 45 minutes. Another nearby airport is Malmö Sturup with a limited number of domestic and international flight connections.

# 21<sup>st</sup> Century Challenges in Regional Climate Modelling



Lund, Sweden  
4 - 8 May 2009

First Announcement

## Scope

The workshop is planned as a follow-up to the regional climate modelling workshop held in Lund, Sweden in 2004. Developments and progress achieved in the last five years will be presented and discussed along with open issues and expected future challenges related to regional climate modelling. The meeting will cover a wide range of RCM-related topics from basic research from basic research - such as theoretical aspects of numerics and parameterisations - to applications such as impact studies in the context of climate variability and change. The workshop is endorsed by the Global Energy and Water Cycle Experiment (GEWEX) and its regional European project BALTEX, as well as by the EU/FP6 project ENSEMBLES and the North American Regional Climate Change Programme (NARCCAP). The workshop is organised by Lund University, SMHI, DMI and GKSS with support by the International BALTEX Secretariat. Invited and contributed papers will be presented in plenary along with extended poster sessions. Workshop language will be English.

## Topics

### *Dynamical Downscaling*

Contributions will be on the development of alternative nudging techniques, the quantitative demonstration of the added value of regional climate models, and the comparison of dynamical and statistical downscaling.

### *New Developments in Numerics and Physical Parameterisations*

Progress and challenges in the development of numerical techniques as well as physical parameterisations and their dependence on resolution will be summarised and discussed.

### *From Weather to Climate*

Regional models are widely used in short range weather forecast and in seasonal to decadal predictions. Seamless prediction systems attempt to unify weather and climate prediction.

### *Regional Observational Data and Reanalysis*

In recent years there has been an increasing demand for high-resolution regional datasets and regional re-analyses.

### *Results from Large Projects*

Several large projects include regional climate modelling as a major component (e.g. ENSEMBLES, NARCCAP, CIRCE and MRED).

### *The Future of RCMs*

What are future challenges for regional climate modelling? Examples include regional Earth system models and very high resolution RCMs.

### *Impact Studies*

RCMs are increasingly being used as tools for the quantification of regional impacts in the context of global change. The workshop is expected to cover – and is open to – studies of the impacts of past and future climate variability and change, as well as other related topics such as the impacts of environmental pollution and other anthropogenic activities.

## Associated Programmes



Second announcement:	October 2008
Abstract submission:	January 2009
Hotel reservations:	March 2009

## Location

Lund is a city in Skåne, southern Sweden, with about 100,000 inhabitants. Lund has a history dating back to 990, when the viking king Svend Tveskaeg founded the city at the site of the village of Uppåkra. It was later moved by only some five kilometres to its present location,



which, on a hill and on the other side of a fjord, granted considerable defensive advantages. Lund is located less than ten kilometres from the sandy shore of the Öresund Straits. From the top of the hill Sankt Hans Backar it is possible to see Copenhagen, the capital of Denmark.

Lund University was founded in 1666. Today it is an international centre for research and education with approximately 39,000 students. Lund University is respected as one of the best universities in Sweden. The culture in Lund is characterized by the large student population and the student traditions. The city is currently applying to become European Capital of Culture in 2014.

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