



## 4th ICTP Workshop on the Theory & Use of **REGional Climate Models**

### 'Applying RCMs to Developing Nations in Support of Climate Change Assessment and Extended-Range Prediction' March 3 - 14, 2008

Co-Sponsored by the World Climate Research Program  
(WCRP)

The Abdus Salam International Centre for Theoretical Physics (Abdus Salam ICTP) is organizing its *4th ICTP Workshop on The Theory and Use of **REGional Climate Models: 'Applying RCMs to Developing Nations in Support of Climate Change Assessment and Extended-Range Prediction'***, to be held from March 3 to 14, 2008, in Trieste, Italy.

Regional climate models (RCMs) are important climate research tools available to scientists from developing nations. The field of regional climate modeling has expanded tremendously in the last decade and RCMs are being used for a wide variety of applications, from process studies to paleoclimate, climate change and (more recently) seasonal to interdecadal prediction. The workshop is intended to provide a forum to review the status of research, discuss outstanding issues and investigate possibilities of new applications in regional climate modeling. A particular perspective of the workshop is the use of RCMs related to climate change and extended (seasonal to interannual) prediction research in developing nations. The workshop is composed of two weeks. The first will include invited lectures, contributed papers and panel discussions, while the second will include hands-on training sessions with two RCMs (the ICTP RegCM and the ECPC/IRI RSM) for specific application to climate change and seasonal prediction studies. The 8th International RSM workshop as well the RegCM user meeting will be held during this workshop.

The workshop will cover the following *topics*:

- Regional climate modeling, status and outstanding issues;
- Application of RCMs to climate change and seasonal prediction;
- Tropical climate processes, variability and predictability;
- Uncertainties in regional climate change predictions;
- Biosphere-atmosphere interactions;
- The role of fine scale feedbacks in regional climate simulation;
- Use of RCMs in Africa, Asia and South America;
- Use of RegCM and RSM for climate change and seasonal prediction.

Presentations by participants on their specific area of climate research are welcome. If you wish to make a **presentation**, please include the **title** and a **one-page abstract** together with the application form.

#### PARTICIPATION

The workshop is intended for scientists and graduate students working in the areas of Atmospheric Physics and Dynamics, Climatology, Oceanography, Physics and Mathematics. It is open to scientists from all member countries of the United Nations, UNESCO and IAEA. Although the main purpose of the Abdus Salam ICTP is to help researchers from developing countries through a program based on international cooperation, scientists from developed countries are also welcome to attend. The activity will be conducted in English. Such financial support is granted only for those who attend the entire activity. Registration is free-of-charge.

#### APPLICATION

The "On-line Application" form can be accessed at:  
**web form:** <https://webform.ictp.it/ACTIVITIES/form/1934.mhtml>  
or **web page address:** <http://www.ictp.it/~smr1934>

& **ICTP agenda page:** [http://cdsagenda5.ictp.trieste.it/full\\_display.php?smr=0&ida=a07143](http://cdsagenda5.ictp.trieste.it/full_display.php?smr=0&ida=a07143)

(Please save and upload file attachments in either: **RTF format, .doc or .PDF**)

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#### Directors

**F. Giorgi** (ICTP, Italy)  
**C. Jones** (UQAM/CRCMD, Canada)  
**L. Sun** (IRI, USA)

#### Lecturers include

- **X. Bi** (ICTP, Italy)
- **J.H. Christensen** (DMI, Denmark)
- **N.S. Diffenbaugh** (Purdue U., USA)
- **X. Gao** (CMA, China)
- **F. Giorgi** (ICTP, Italy)
- **W. Gutowski** (Iowa State U., USA)
- **B. Hewitson** (U. Cape Town, S. Africa)
- **R. Jones** (UKMO, UK)
- **C. Jones** (UQAM/CRCMD, Canada)
- **M. Kanamitsu** (SCRIPPS, USA)
- **R. Leung** (PNNL, USA)
- **A. Moura** (INMET, Brazil)
- **C. Nobre** (CPTEC, Brazil)
- **J. Polcher** (LMD/CNRS, France)
- **S. Rauscher** (ICTP, Italy)
- **H. Rautenbach** (U. Pretoria, S. Africa)
- **J.L. Redelsperger** (CNRS, France)
- **A. Robertson** (IRI, USA)
- **J. Slingo** (U. Reading, UK)
- **L. Sun** (IRI, USA)

#### Application Deadline

**December 15, 2007**