



The Abdus Salam
International Centre for Theoretical Physics

3rd ICTP Workshop on



'THE THEORY AND USE OF
REGIONAL CLIMATE MODELS'

May 29 - June 9, 2006

Miramare-Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (Abdus Salam ICTP) is organizing its 3rd Workshop on the 'Theory and Use of Regional Climate Models', to be held from May 29 to June 9, 2006, in Trieste, Italy.

Regional climate models are very important climate research tools available to scientists from developing countries. The ICTP Earth System Physics section maintains and distributes a state-of-the-art regional climate model (RegCM3), which is currently used by a wide research community for a range of studies. The community forms the basis of a regional climate research network (RegCNET) aimed at developing research projects related to climate change issues over different regions of the world. This workshop is intended to provide lectures and hands-on sessions on the theory of regional climate change and regional climate modeling as well as the use of the RegCM3 modeling system. This year's workshop will also cover aspects of climate impacts on agriculture, hydrology, and air quality.

The workshop will cover the following *topics*:

- The physical processes that regulate regional climates;
- Climate change and seasonal prediction at the regional scale;
- Regional climate information from global climate models;
- Regional climate modeling and the ICTP RegCM3;
- Biosphere-atmosphere interactions;
- Climate impacts on agriculture, hydrology and air quality;
- Extreme events, floods and drought.

The workshop will also provide a forum for current and future participants to the RegCNET to review past projects and plan for future projects. A limited number of students are envisioned, with proven experience in atmospheric modeling and strong interest in regional climate studies.

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. Limited funding (including travel grants) for participation in the workshop is available for scientists from developing countries. **Registration is free-of-charge.**

APPLICATION

Those wishing to apply should complete and return the "Request for Participation" form, to be found either via WWW Server at: <http://agenda.ictp.it/smr.php?1754> [under: **application_form**] or at web address <http://www.ictp.it/~smr1754>. The *Request for Participation* (complete with a recent picture and signature) should be returned by **March 10, 2006** and sent either:

[preferably] by electronic mail or fax to

by e-mail: smr1754@ictp.it, or **telefax:** +39-040-2240 558

(Please save and send file attachments in either: **RTF [zipped] format or, .doc or .pdf**)

or

by mail

3rd ICTP Workshop on the Theory and Use of RegCMs
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Directors

J. Pal (ICTP, Italy)
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Lecturers include

- **K. Abdourahamane** (Abidjan U., Ivory Coast)
- **C. Brankovic** (Croatian Met Service)
- **A. Challinor** (CGAM, UK)
- **S. K. Dash** (I.I.T., India)
- **N. Diffenbaugh** (Purdue U., USA)
- **N. Elguindi** (U.C. Santa Cruz, USA)
- **S. Hagemann** (MPI, Germany)
- **R. Harding** (Centre for Ecology Hydrology, UK)
- **G. Jones** (Southern Oregon U., USA)
- **E. Lin** (Chinese Academy of Agricultural Science, China)
- **L. Mearns** (NCAR, USA)
- **F. Meleux** (INERIS, France)
- **S. Rauscher** (ICTP, Italy)
- **A. Seth** (IRI, USA)
- **L. Sloan** (U.C. Santa Cruz, USA)
- **F. Solmon** (U.C. Santa Cruz, USA)
- **F. Stordal** (U. Oslo, Sweden)
- **G. Takle** (Iowa State U., USA)
- **S. Topcu** (U. Cukurov, Turkey)
- **J. Trapp** (Purdue U., USA)
- **M. Verdecchia** (U. Aquila, Italy)

Application Deadline

March 10, 2006