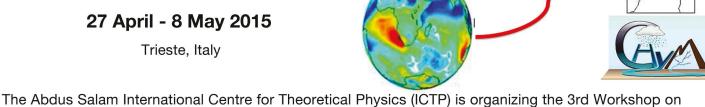






3rd Workshop on Water Resources in Developing Countries:

Planning and Management in Face of
Hydroclimatological Extremes and Variability



The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing the 3rd Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability", to be held at ICTP, Trieste, Italy from 27 April - 8 May 2015.

One of the major challenges facing the water resources planning community is addressing and assessing the impact of the climate change and variability on the different component of the water cycle. The most influential component of the water cycle for resource management is precipitation, especially its extremes causing floods and droughts. The reliability of projection of precipitations (average, distribution, frequency, intensity) is still less than adequate and limits their usefulness to decision management of the water systems.

Aside from the issue of reliability of precipitation projections, which are usually obtained from global or regional climate models (GCM/RCM), there is also the need for estimates at resolutions sufficiently fine for simulating the water cycle at watershed and useful hydrological scales.

Therefore there is always the need to bridge the resolution gap between the global or regional and the river basin scale. Moreover the hydrological model outputs are very sensitive to the GCM/RCM biases therefore often bias correction techniques have to be applied before the GCM/RCM output can be used to input the hydrological models.

This workshop will focus on the state-of-the-art research of:

- The quality of precipitation projections, including recent developments in uncertainty analysis of precipitation products.
- Approaches to deal with the resolution gap between global/regional model and hydrological model scale.
- How to apply bias correction to the GCM/RCM model output without degrading the original information.
- Introduction of the recent hydroclimatological data sets including a 30-year Climate Data Record (CDR) of the high-resolution bias corrected global satellite precipitation product, which has recently become available (http://www.ncdc.noaa.gov/cdr/operationalcdrs.html).
- Use the available in-house hydrological model CHyM (Coppola et al.2006)

The workshop is composed of one week lectures and laboratory training followed by a second week of laboratory sessions.

Participation:

Scientists and students from all countries that are members of the United Nations, UNESCO or IAEA may attend the Workshop. As it will be conducted in English, participants should have an adequate working knowledge of this language.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half fare). However limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the whole activity. There is no registration fee.

How to apply for Participation:

The on-line application form can be accessed via the ICTP activity agenda page at:

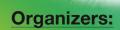
http://indico.ictp.it/event/a14265/ Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

Please send all file attachments in Word or PDF format.

Contact Information:

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ICTP Home page: http://www.ictp.it



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(University of Geneva, Switzerland)

F. Giorgi (ICTP, Italy)

T. Hogue

(Colorado School of Mines, USA)

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K. Madani

(Imperial College, London, U.K.)

F. Melton

(California State University, Monterey Bay, USA)

C. Piani

(American University of Paris, France)

Z. Su

(University of Twente, The Netherlands)

updates to be announced on the website

APPLICATION DEADLINE

1 February 2015