



The Abdus Salam
International Centre
for Theoretical Physics



6th Workshop on Water Resources in Developing Countries: Hydroclimate Modeling, Information Tools and Simulation Techniques

Description:

Over the past several decades various international and national academic and research centres have placed high priorities on global water resources issues which are facing many nations as how to address the variability and trends in regional availability and predictability of changing patterns of water supply and shifts in demand.

MORE DETAILS:

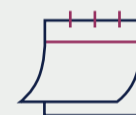
Programs such as the GEWEX, CORDEX and CMIP under the WCRP umbrella and UNESCO initiatives such as G-WADI program have been addressing the Grand Challenges of how the freshwater availability will shift due to climate change in many food producing regions of the world as well as the supply needs of the growing number of Mega urban areas. The freshwater availability can be different in time because precipitation or ground water change or because snow melt effecting local runoff can experience reduction or increase. Climate extremes are one factor that can influence the intensity of precipitation in time, the snow melt timing and the exchange of water with land and therefore the storage.

To this aim the climate and hydrologic modelling communities have been moving toward very high resolution simulations down to the scale of the convective permitting resolution (1-3 km); and from another side is working to implement fully coupled Earth System models to be able to understand the role of coupled water cycle and land atmosphere interaction in understanding local climate response.

This course will provide the participants with up to date knowledge of advances in both modeling and hydroclimatological data available for regional water resources analysis.

LECTURERS INCLUDE:

- A. AGHACOUCHAK, University of California, USA
- S. BACER, ARPA FVG, Italy
- T. BOAS, Forschungszentrum Juelich GmbH, Germany
- E. COPPOLA, ICTP, Italy
- M. GARCÍA-VALDECASAS OJEDA, University of Granada, Spain
- D. GIAIOTTI, ARPA FVG, Italy
- K. GOERGEN, Forschungszentrum Juelich GmbH, Germany
- H.-J. HENDRICKS-FRANSEN, Forschungszentrum Juelich GmbH, Germany
- W. S. LOGAN, International Center for Integrated Water Resources Management, USA
- D. P. NGUYEN, University of California, USA
- R. NOGHEROTTO, OGS and ICTP, Italy
- S. POLL, Forschungszentrum Juelich GmbH, Germany, Germany
- P. RIGOR, Forschungszentrum Juelich GmbH, Germany
- S. SOROOSHIAN, CHRS University of California, Irvine, USA



20 - 31 May 2024



Trieste, Italy



**Deadline:
29 February 2024**

DIRECTORS:

- S. BACER, ARPA FVG, Italy
- D. GIAIOTTI, ARPA FVG, Italy
- S. SOROOSHIAN, CHRS, University of California, USA

LOCAL ORGANISER:

- E. COPPOLA, ICTP, Italy

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

FURTHER INFORMATION:



E-mail: smr3939@ictp.it

Web: <https://indico.ictp.it/event/10477/>

Female scientists are encouraged to apply

