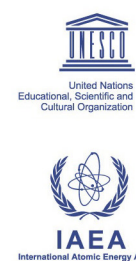




The Abdus Salam
**International Centre
for Theoretical Physics**
www.ictp.it



4th VALUE Training School: **Validating Regional Climate Projections**



VALUE: COST Action ES1102 (2012-2015)

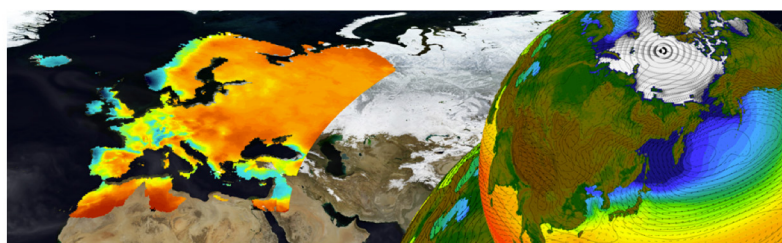
26 - 30 October 2015
ICTP, Trieste, Italy

The 4th VALUE training school "Validating Regional Climate Projections", will be held from **26 - 30 October 2015** at the "Abdus Salam International Centre for Theoretical Physics (ICTP)" in Trieste (Italy).

Our understanding of global climate change is mainly based on General Circulation Models (GCMs) with a relatively coarse resolution. Since climate change impacts are mainly experienced on regional scales, high-resolution climate change scenarios need to be derived from GCM simulations by downscaling.

The EU COST action VALUE (ES1102, www.value-cost.eu) is a research network aiming to systematically validate and develop downscaling methods for climate change research in order to improve regional climate change scenarios for use in climate impact studies.

A key objective of VALUE is the integrated training of young scientists from various disciplines in both statistical and dynamical downscaling.



Regional climate projections are a key element for adaptation to climate change, but are afflicted with high uncertainties. Therefore a thorough validation is essential to provide users with plausible, defensible and actionable information in order to avoid ill-informed decisions. This

training school presents general aspects of downscaling, including a brief discussion of different approaches, and a general introduction to validation of climate models. The focus will be on the VALUE validation framework, and a critical discussion of the difficulties in validating climate projections. Lectures will be complemented by hands-on exercises. The VALUE framework starts from a specific user problem, a validation tree guides the selection of relevant validation indices and performance measures. Several experiments have been designed to isolate specific points in the downscaling procedure where problems may occur: what is the isolated downscaling skill? How do statistical and dynamical methods compare? How do methods perform at different spatial scales? Do methods fail in representing regional climate change? How is the overall representation of regional climate, including errors inherited from global climate models?

Participation:

Scientists and students from all countries that are members of the United Nations, UNESCO or IAEA may attend the school. As it will be conducted in English, participants should have an adequate working knowledge of this language. Limited funding (including travel grants) for participation is available. No registration fee is required.

How to apply for Participation:

The on-line application form can be accessed via the ICTP activity page at: <http://indico.ictp.it/event/7585/> 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:

Phone: +39 040 2240 426 **E-mail:** smr2895@ictp.it **ICTP Home page:** <http://www.ictp.it>

More information about the course in <http://www.value-cost.eu/node/1151>

Faculty:

Douglas Maraun
(GEOMAR Germany)

Radan Huth
(Academy of Sciences Prague)

Sven Kotlarski
(ETH Zurich)

Joanna Wibig
(University of Lodz)

Pedro Soares
(Universidade de Lisboa)

and to be announced on the
website

Local organizer:

E. Coppola
(ICTP, Italy)

APPLICATION DEADLINE

1 October 2015

