



## 2nd VALUE training school: Statistical and Dynamical Downscaling of Extreme Events



European Cooperation in Science and Technology

### VALUE: COST Action ES1102 (2012-2015)

**21 October - 1 November 2013**

ICTP, Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing the “2nd VALUE Training School on Statistical and Dynamical Downscaling of Extreme Events”, to be held at **ICTP, Trieste, Italy** from **21 October to 1 November 2013**.

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](http://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.



The school comprises different modules, containing lectures and practical applications. Starting with an introduction to climate modelling and different downscaling approaches, downscaling of weather extremes will be studied in

detail with a comparison of statistical and dynamical approaches, followed by an introduction to methods for validating the representation of extreme events and assessing their uncertainties.

#### **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 agenda page at: <http://agenda.ictp.it/smr.php?2567> 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 **Fax:** +39 040 2240 449 **E-mail:** [smr2567@ictp.it](mailto:smr2567@ictp.it)

**ICTP Home page:** <http://www.ictp.it>

More information about the course in <http://www.value-cost.eu/TS2>

#### **Organizers:**

**J. M. Gutiérrez**

(CSIC-Universidad de Cantabria, Spain)

**D. Maraun**

(GEOMAR, Germany)

**E. Hertig**

(Augsburg University, Germany)

**M. Widmann**

(University of Birmingham, U.K.)

#### **Local organizer:**

**E. Coppola**

(ICTP, Italy)

#### **Speakers to be confirmed**

**J. Christensen**

(DMI, Denmark)

**F. Giorgi**

(ICTP, Italy)

**B. Hewitson**

(University of Cape Town, South Africa)

**R. Huth**

(Charles University, Prague, Czech Republic)

**L. Mariotti**

(ICTP, Italy)

**and to be announced**

**EXTENDED  
APPLICATION DEADLINE**

**15 Sept 2013**