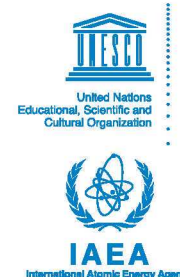




The Abdus Salam
International Centre for Theoretical Physics



SUMMER SCHOOL ON CLIMATE IMPACTS MODELLING FOR DEVELOPING COUNTRIES: WATER, AGRICULTURE AND HEALTH

5 - 16 September 2011
Miramare, Trieste, Italy



"QWeCI first project workshop 14-16 September 2011"

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing an **Summer School on Climate Impacts Modelling for Developing Countries: Water, Agriculture and Health** to be held at ICTP, Trieste, Italy from 5 - 16 September 2011.

Severe weather and climate affect vulnerable communities through their impact on water resources, agriculture, energy and health. Currently in developing countries, weather observations and seasonal forecasts and climate-change projections are rarely converted to sector-specific projections. Impacts modelling, involving the use of dynamical or statistical models to convert climate information into sector-relevant guidance, is a relatively new but fast growing and important research field.

To aid scientists in developing countries achieve a working knowledge of impacts modelling, this workshop proposes to provide lectures and laboratory classes on:

- The use and uncertainty of the main observational datasets available from remote sensing to drive impacts models.
- The use and uncertainty of short-range to seasonal forecast products and climate model data from major numerical weather prediction and climate centres including the IPCC assessment climate integrations.
- Impacts modelling in the three target sectors of agriculture, water and health including classes using open-source models in each sector.

Agriculture	Water	Health
The modelling will centre on the General large-scale model for crops (GLAM, Challinor et al. 2005) for ground nut, wheat, maize and sorghum that has been used for research in Africa and Asia.	Differences in modelling small and large hydrological basins will be illustrated. The hydrological model CHyM (Coppola et al., 2006) will be demonstrated, a grid-based distributed hydrological model.	The health modelling lectures will focus on malaria. The lab will introduce the Liverpool Malaria Model (LMM), a dynamical vector borne disease model described in Hoshen and Morse (2004). In addition, statistical-based modelling techniques will be introduced.



Joint SUMMER SCHOOL/QWeCI/CLIVAR session: On the 14th September there will be a joint session "Sectorial Seasonal to Decadal Prediction in Africa" with invited contributions from the summer school lecturers and scientists attending the QWeCI workshop and the CLIVAR 14th session of the working group on seasonal to decadal prediction (WGSIP)."

Participation:

The Summer School will be conducted in English. Limited funding (including travel grants) for participation in the conference is available for scientists from developing countries.

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?2262>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Kindly send all file attachments in Word or PDF format.

Deadline for receipt of applications is 31 May 2011.

Contact Information:

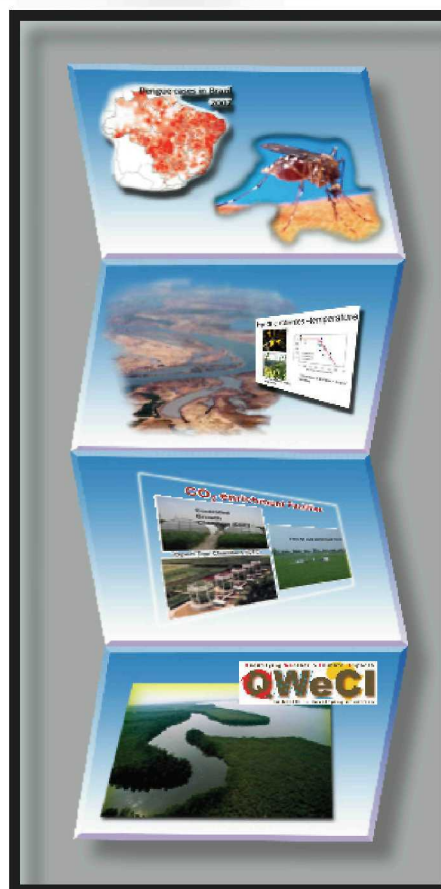
Phone: +39 040 2240 426 Fax: +39 040 2240 449 E-mail: smr2262@ictp.it

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

QWeCI:

The QWeCI science meeting will take place **14 -16 September**, however, QWeCI participants are also invited to join the school lecture series and are asked to email directly smr2262@ictp.it to register the dates of arrival and departure. QWeCI participants are expected to use their own project funds to support attendance.

March, 2011



Directors:

Soroosh Sorooshian

(University of California, Irvine, USA)

Andrew Challinor

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Erika Coppola

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Adrian Tompkins

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Lecturers

to be confirmed:

David DeWitt

(IRI, Columbia University, USA)

Francesca di Giuseppe

(ECMWF, UK)

Volker Ermert

(University of Cologne, Germany)

James Famiglietti

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(Met Office, UK)

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(Trinity College Dublin, Ireland)

Gulilat Tefera-Diro

(ICTP, Italy)

APPLICATION DEADLINE

31 MAY 2011