



Euro Mediterranean Centre on Climate Change -CMCC

Fall School on

"Modeling Climate Change Impacts on Water and Crops at Different Scales"

Alghero (Italy) 5 -9 November 2012

Climate change and its impact on agricultural systems is one of the most pressing issues humanity is facing nowadays. With a rapidly growing population and decreasing resources, it is essential to identify state of the art tools to understand and predict climate change, assess its impact on ecosystems and devise adaptation and mitigation options.

Objectives

The main objective of the Fall School is to provide doctoral and post doctoral students and professionals a broad and updated discussion of themes and methodologies to assess the impact of climate change on agriculture and water resources, considering different scales, from field to regional. In addition, the School will focus on the identification and evaluation of adaptation strategies, with regards also on food security threats.

The use of modeling software, with particular emphasis on crop simulation models applied to determine the potential impacts of climate change on crop production and the evaluation of changes in crop and water management will be a central part of the School. Lectures on economic issues will complement other topics by integrating the economic investigation with the physical assessment.

The Fall School, coordinated by Prof. Donatella Spano, is an initiative of IAFENT (Impacts on Agriculture, Forest and Natural Ecosystems), a division of the Euro Mediterranean Centre on Climatic Change (CMCC).

Other divisions of CMCC cooperating in the Fall School are: CIP (Climate Impacts and Policies. An Economic Assessment), ANS (Numerical Applications and Scenarios), and ISC (Impacts on Soil and Coast).

Main Topics

The following topics will be covered and laboratory sessions will be held in conjunction with lectures.

- (i) Climate modeling and downscaling techniques;
- (ii) Models and tools for the assessment of climate change impacts on agriculture and evaluation of changes in crop management as adaptation/mitigation strategies;
- (iii) Socio-economic issues.

Course Organization

The school will be held in Alghero (Sardinia, Italy) over the period November 5-9 2012, with morning session lectures, afternoon laboratory activities and evening sessions dedicated to poster sessions, working group, and discussion.

Participation

The school will be limited to 20 participants.

Applications are open to doctoral and post-doctoral students and professionals in environmental and economic resources. Long standing and relevant experience (>3 years) can substitute the PhD degree. Admission is based on selection and successful participants will be notified by **September 15, 2012**.

Adequate knowledge of English is a requirement.

Applications

Application forms are available at:

<http://www.cmcc.it/training-programs/summer-and-winter-schools/modelling-climate-change-impacts-on-water-and-crops-at-different-scales>

Candidates should send the completed application form, together with detailed curriculum vitae to:

gavkyr15@gmail.com and vmereu@uniss.it

Deadline for Applications

The deadline for submission of applications is **10 September 2012**. Applications received after this date will not be considered.

Scientific Committee

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Contacts

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List of Lecturers

Francesco Bosello

CMCC – Climate Impacts and Policies. An Economic Assessment (CIP), Venezia (Italy)
DEEM-Department of Economics, Management and Quantitative Methods, University of Milan (Italy)
FEEM - Fondazione Eni Enrico Mattei, Milan (Italy)

Edoardo Bucchignani

CMCC – Impacts on Soil and Coast (ISC), Capua (Italy)
CIRA - Centro Italiano Ricerche Aerospaziali, Capua (Italy)

Tony Hunt (*tbc*)

Department of Plant Agriculture, University of Guelph, Ontario, Canada

Jon I. Lizaso

Dpto. Producción Vegetal. Fitotecnía ETS Ingenieros Agrónomos, Universidad Politécnica de Madrid

Valentina Mereu

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DipNET – Department of Science for Nature and Environmental Resources, University of Sassari (Italy)

Monia Santini

CMCC - Impacts on Agriculture, Forest, and Natural Ecosystems (IAFENT), Viterbo (Italy)

Enrico Scoccimarro

CMCC - Climate Services Division (SERC), Bologna (Italy)
INGV - Istituto Nazionale di Geofisica e Vulcanologia, Bologna (Italy)

Richard L. Snyder

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