

The course will be limited to 30 participants in order of registration.
Fees: 100€ for Scarce students (early registration: 75€ before September 1st) and 125€ for non-Scarce students (early registration: 100€ before September 1st). Fees include the course inscription, and documentation. Please, make a transfer to the following account (expenses for the sender): indicating your name and course Ecosystem Services-URV.

- Account owner: ADECIT. Associació per al Desenvolupament de la Ciència i la Tecnologia; SCARCE.

- Bank: La Caixa

- IBAN number: ES70 2100-0655-780200202561, SWIFT code: CAIXESBB

- Specify concept: Scarce Course URV and participant name

Online registration is opened at www.scarceconsolider.es until **1st November 2013**

The course will take place at Chemical Engineering School, Campus Sescelades, 43007, Tarragona, Spain

For more information, please contact:

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Chemical Engineering Departament (URV)

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ORGANIZERS

-Rovira i Virgili University (URV) / TECNATOX group



SUPPORTED BY:



SCARCE-Consolider CSD-2009-00065



Advanced Course on Ecosystem Services

Tarragona (Spain), November 18-19, 2013

Rovira i Virgili University

The Context and Issues

The Millennium Ecosystem Assessment (MA) introduced a new framework for analyzing social– ecological systems that has had wide influence in the policy and scientific communities. Studies after the MA are taking up new challenges in the basic science needed to assess, project, and manage flows of ecosystem services and effects on human well-being.

Understanding the factors that cause changes in ecosystems and ecosystem services is essential to the design of interventions that enhance positive and minimize negative impacts. Multiple and interacting drivers can cause changes in ecosystem services. **This course will reflect the different approaches that can be used to characterise and assess ecosystem services. Also, the main interactions of ecosystem services and human well-being will be discussed. It will look at modelling approach.** The general increase in provisioning services over the past century has been achieved at the expense of decreases in regulating and cultural services, and biodiversity. Making these tradeoffs explicit is a core function of ecosystem assessments. This is the general goal of the research project "SCARCE. Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change", funded by the Spanish Ministry of Science and Innovation, and hosting this advanced course.

Who should attend

The 2-days advance course is designed for graduate students, Master students, PhD students and researchers interested on understanding ecosystem services and the role played by major drivers. Course include theoretical and practical aspects. Lectures given by experts from various research areas followed by open discussions on case studies constitute the general framework of the course.

PROGRAMME

November 18

1st block

9:00-11:00

Introduction to Ecosystem services. Analytical approach to achieve the goals of the Millennium Ecosystem Assessment (MA)
Prof. Marta Schuhmacher, URV. Tarragona, Spain

11:00-13:00.

What's leading to ecosystem change?
Driver-Pressure-State-Impact-Response (DPSIR) framework.
Rubab Bangash URV, Tarragona, Spain

2nd block

15:00- 17:00

Valuing ecosystem services
Dr.Francesc La Roca, University of Valencia, Spain

17:00-19:00.

Determination of the net benefits of human interventions that alter ecosystem conditions. Do the benefits justify an actuation with the real cost?
Dr. Vicenç Acuña. Catalan Institute for Water Research, Spain

November 19

3rd block

9:00- 13:00

Decision Supporting tools to evaluate vulnerability and adaptation strategies to climate change and ecosystem services- Invest model
Dr. Guy Ziv. Stanford, CA, USA

4th block.

15:00- 17:00

Cost-benefit analysis of possible policy measures
Dr. Vikas Kumar URV. Tarragona

17:00-19:00

Case studies
Dr. Vikas Kumar /Rubab Bangash URV, Tarragona, Spain