

02. MAPPING SOIL MOISTURE: MEASUREMENT, MONITORING AND MODELLING FROM THE PLOT SCALE TO THE REGIONAL WATER BUDGET

Venue. Leonardo da Vinci Building. Campus of Rabanales

Director of the course. María José Polo Gómez (mjpolo@uco.es)

Dates. From 5th to 9th October 2015

Schedule. 9:00-13:30; 14:30-18:00

Credit hours. 4,1,5 h

Objectives. In this course, the students will be provided with tools to measure, monitor and estimate soil moisture at different scales, and analyze its influence on the water and energy budget. Different techniques will be presented together with the use of hydrological and circulation models for estimating this variable. Case studies from agricultural and forest applications will be worked through the lessons. Special focus is made on remote sensing sources, data assimilation techniques, and evaluation of uncertainty in data acquisition and modelling. Also, different projects and experiences in this field around the world will be presented.

International lecturers. Z. Bob Su (University of Twente), R. Muñoz-Carpena (University of Florida), C. Notarnicola (EURAC)

Deadline for applications. September 21th 2015

Target students. MSc and PhD students with interest in the topic, whose work involves soil moisture data and analysis; technicians, environmentalists, engineers searching for professional updating.

Number of places. 20

Teaching language. English

Registration fee. 50€

Course recognized as training activity in the following PhD Programs.

- Dynamics of Biogeochemical Fluxes and their Applicability

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