



Regional Experiments For Land-atmosphere EXchanges

Albacete, Spain, 18 – 28 July 2012

EUFAR aims at integrating operators of instrumented aircraft and hyperspectral sensors, and experts in airborne measurements in the field of environmental research in the atmospheric, marine, terrestrial and Earth sciences.

Facts:

FP7 I3 (Integrated Infrastructure Initiative)

- o **Duration: until Sept.2012**
- o **32 partners**
- o **21 aircraft**
- o **21 expert groups**
- o **Budget: 8M€**

EUROSPEC aims to develop common protocols and new instruments within a larger European network for optical measurements for carbon fluxes and biophysical parameters estimations, bringing together scientists and industries in order to increase the reliability, value and cost-efficiency of the existing spectral observations within the European flux network.

The main objective of the training course is to train early-stage researchers and a limited number of university lecturers how to organize and conduct an airborne campaign with hyperspectral imaging sensors that supports their research in the framework of multi-scale ("leaf to ecosystem") land-atmosphere exchanges.

The course will provide the theoretical basis for airborne hyperspectral imaging in the visible, near infrared, shortwave infrared and thermal infrared wavelength ranges. In addition, land-atmosphere exchanges, case studies, demonstrations of field equipment and field and airborne measurements at the Barrax experimental site, training in data pre-processing, analysis and interpretation will be undertaken. The aircraft operator (INTA) will also present to the students issues specific to airborne measurements, such as flight plan design and constraints, instrument calibration, operation and data pre-processing.

Each researcher/lecturer who intends to participate should apply online at www.eufar.net/ET. Participants will have the opportunity to visit the C-212-200 RS aircraft operated by INTA. During and after the training course acquired or archived data will then be processed and analyzed with the support of experienced users of airborne facilities and form the basis for the final report.

Scientific committee:

Chairman Bob Su (UT-ITC-WRS, NL)
Ils Reusen (VITO, BE)
Loris Vescovo (FEM, IT)
Eduardo de Miguel (INTA, ES)

Organizing committee:

Bob Su (UT-ITC-WRS, NL)
Wim Timmermans (UT-ITC-WRS, NL)
Wenceslao Cañadas (ITAP, ES)
Loris Vescovo (FEM, IT)
Sabrina Bekhat (EUFAR Office, FR)
Ils Reusen (EUFAR ET coordinator, VITO, BE)

Applicants: PhD students, post-docs and university lecturers
(number of participants is limited)

Fee: free of charge – *Travel and subsistence funded by EUFAR and EUROSPEC*

Information and Registration: www.eufar.net/ET

Deadline registration: April 30 2012. Selected participants will be notified by May 7 2012

Contact: EUFAR Office (bureau@eufar.net)