

DEADLINES

Website Opening	18 December 2013
Application Submission (opening)	20 January 2014
Application Submission (closing)	7 May 2014
Notification of Acceptance	15 June 2014

APPLICATION

The number of participants is limited to a maximum of 70 students and subject to selection of application. Students wishing to participate can apply on-line via the training course website.

Application submission will be available **from 20 January to 7 May 2014**.

Notification of acceptance will be sent via e-mail by June 2014.

FEES

No participation fees will be charged for the training. Participants are expected to finance their own travel and accommodation expenses. The official language of the course is English.

For further information please visit the Course website at:

<http://seom.esa.int/landtraining2014>



ORGANISING COMMITTEE

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Andrea Minchella (RSAC c/o ESA) | **Jose Moreno** (University of Valencia) | **Luis Alonso** (University of Valencia) |
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CO-SPONSORS

European Space Agency (ESA)
University of Valencia (VLC)

CONTACT POINTS

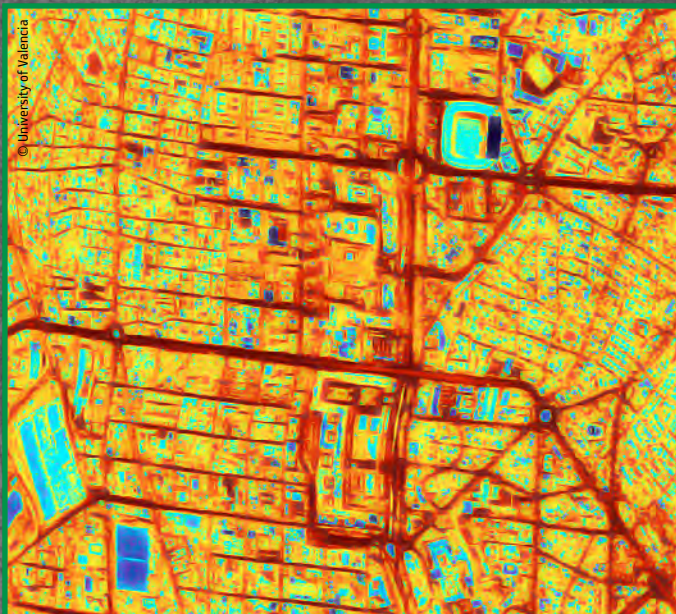
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→ 5th ESA ADVANCED TRAINING COURSE ON LAND REMOTE SENSING

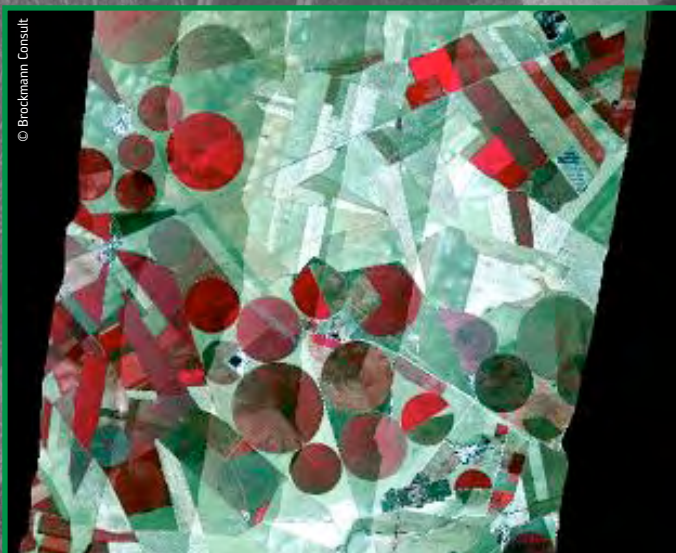
8–12 September 2014 | University of Valencia | Valencia, Spain



Observed AHS relative temperatures of an area of Madrid, Spain at midnight



The University of Valencia, Spain



Mosaic of airborne hyperspectral measurements of different vegetation types over the Barrax test site in Spain

BACKGROUND

As part of the Scientific Exploitation of Operational Missions (SEOM) programme element, the European Space Agency (ESA) organises each year an advanced Land Training Course devoted to train the next generation of Earth Observation (EO) scientists to exploit data from ESA and operational EO Missions for science and applications development.

Post graduate, PhD students, post-doctoral research scientists and users from European countries and Canada interested in Land Remote Sensing and its applications are invited to apply to the 5 day course which will be held at the University of Valencia, **Valencia, Spain from 8 to 12 September 2014.**

Research scientists and students from all other countries are also welcome to apply and participate to the course subject to space availability.

OBJECTIVES

The Advanced Land Training Course aims at:

- Training the next generation of European and Canadian Principal Investigators (PIs);
- Explaining theoretical principles, processing algorithms, data products and their use in applications;
- Introducing tools and methods for the exploitation of EO satellite data;
- Stimulating and supporting the exploitation of ESA EO and Third Party Mission data for land remote sensing science and applications.

LECTURERS

The team of lecturers will be composed of Principal Investigators and Professors from leading universities and research institutions.

CONTENTS

The advanced course will provide a substantial and balanced introduction to the basic theory and applications related to land remote sensing. It will be organised around four main components:

- Theoretical fundamentals of spaceborne Optical, Thermal and SAR remote sensing;
- EO land applications lectures on Land Use and Land Cover, Terrain Motion, Hazards, Forest Bio-physical retrievals, Multi-temporal analysis, Hot-Spot & Fire Detection, Hyperspectral and Lidar, Climate (Water and Carbon);
- Practicals using ESA toolboxes for scientific exploitation of EO data;
- EO data processing and product demonstration for land resources monitoring.

The training course will include formal lectures by leading scientists as well as hands-on computing exercises exploiting real and simulated data for science and application.