





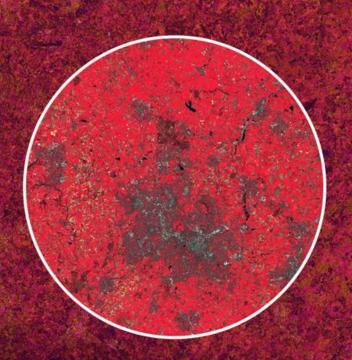
→ 8th ADVANCED TRAINING COURSE ON LAND REMOTE SENSING

10-14 September 2018
University of Leicester | United Kingdom

Course Introduction and Overview

Zoltan Bartalis

Data Applications Division Science, Applications and Climate Department ESA – European Space Agency Frascati, Italy



Why ESA Advanced Training Courses?

Action of ESA's Earth Observation Envelope Programme (EOEP)

Objectives:

- Training the next generation of EO scientists
- Explaining theoretical principles, processing algorithms, data products and their use in applications
- Introducing tools and methods for the exploitation of satellite EO data, in particular from the Sentinels
- Stimulating and supporting the exploitation of ESA and non-ESA EO data for land remote sensing science and applications
- Networking among young scientists.



eo science for society

















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Previous Editions











Lisbon 2007

Prague 2009

Krakow 2011

Athens 2013







Valencia 2014

Bucharest 2015

Gödöllő 2017

→ 8th ADVANCED TRAINING COURSE ON LAND REMOTE SENSING

Behind The Course

esa

Organising Committee

- European Space Agency (ESA)
 - Zoltan Bartalis
 - Diego Fernandez
 - Magdalena Fitrzyk
 - Irene Renis
- National Centre for Earth Observation (NCEO) / University of Leicester (UoL)
 - John Remedios (NCEO / UoL)
 - Kevin Tansey (UoL)
 - Martin Wooster (NCEO / King's College London)
 - Heiko Balzter (NCEO / UoL)
 - Darren Ghent (NCEO / UoL)
 - Michael Perry (NCEO / UoL)
 - Jane Hull (NCEO / UoL)







Supporters

Airbus UK

AIRBUS

Behind The Course



International team of top-notch lecturers

- Dr Ahmad Al Bitar, CESBIO, France
- Dr Pete Bunting, Aberystwyth University, UK
- Prof Mario Caetano, DGT/NOVA-IMS, Portugal
- Dr Gregory Duveiller, JRC, Italy
- Prof Laurent Ferro-Famil, Univ. of Rennes 1, France
- Dr Magdalena Fitrzyk, RSAC/ESA, Italy
- Dr Darren Ghent, NCEO/UoL, UK
- Prof Ramon Hanssen, TU Delft, Netherlands
- Prof Andy Hooper, University of Leeds, UK
- Dr Thuy le Toan, CESBIO, France
- Dr Arnaud Mialon, CESBIO, France
- Dr Andrea Minchella, Airbus, UK

- Dr Jolanda Patruno, RHEA/ESA, Italy
- Dr Mike Perry, NCEO/UoL, UK
- Prof Eric Pottier, Univ. de Rennes 1, France
- MSc Fabrizio Ramoino, Serco/ESA, Italy
- Dr Angelica Tarpanelli, CNR, Italy
- Dr Sebastian van der Linden, Humboldt Univ. Berlin, Germany
- Prof Martin Wooster, NCEO / King's College London, UK
- Dr Herve Yesou, SERTIT, France

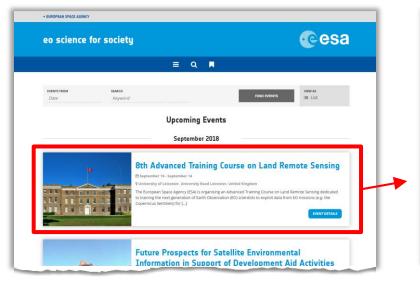
Supporting UoL students and staff

- Emma Dodd
- Karen Veal
- Harjinder Sembhi

Course Website



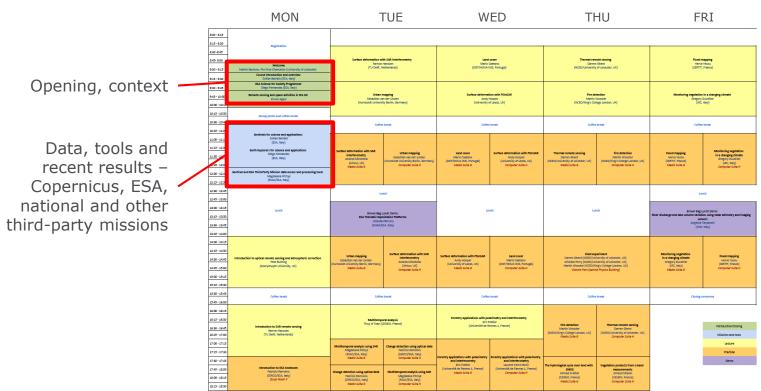
http://seom.esa.int https://eo4society.esa.int/events/



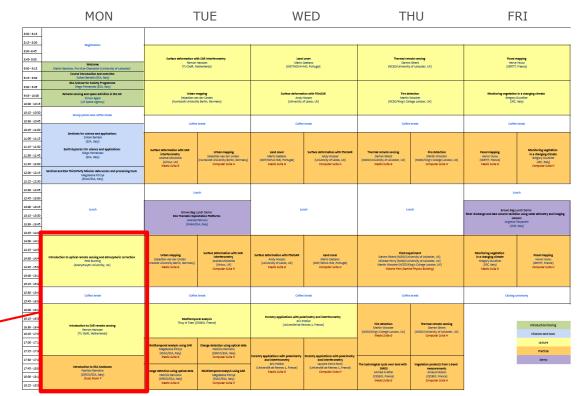
http://eoscience.esa.int/landtraining2018









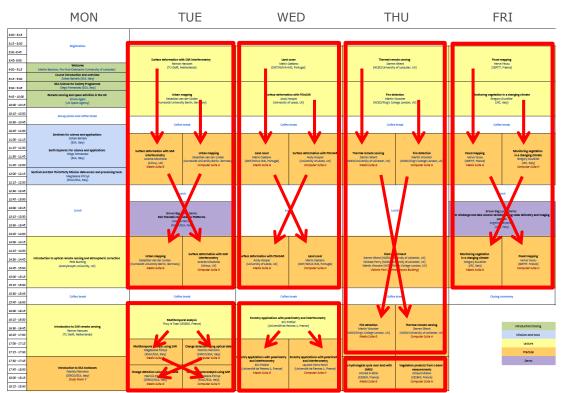


Theoretical background (optical, SAR) and intro to ESA toolboxes



EO Applications in-depth (theory and practice):

- SAR interferometry
- Urban mapping
- Multitemporal analysis
- Land cover
- PSInSAR
- Forestry
- Thermal remote sensing
- · Fire detection
- Hydrological cycle/SMOS
- Flood mapping
- · Vegetation and climate

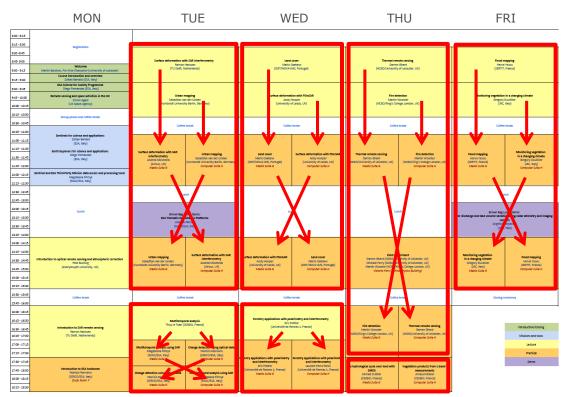




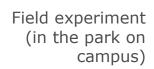
No parallel sessions, no need to choose and miss out (except Hydrological cycle/SMOS)

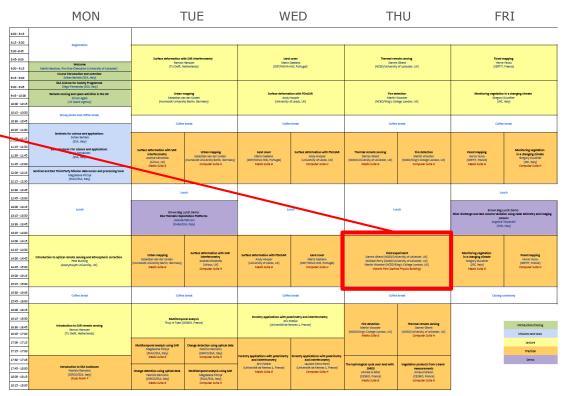
Computer practicals take place in two groups in two computer rooms

- Group 1: last names from Abel to Mulas: in Computer Suite H
- Group 2: last names from Mulder to Wrobel: in Study Room F
- Practicals repeated for each group (lecturers swapping rooms)



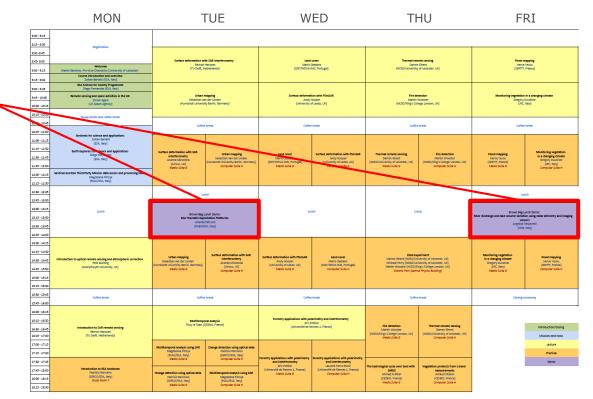




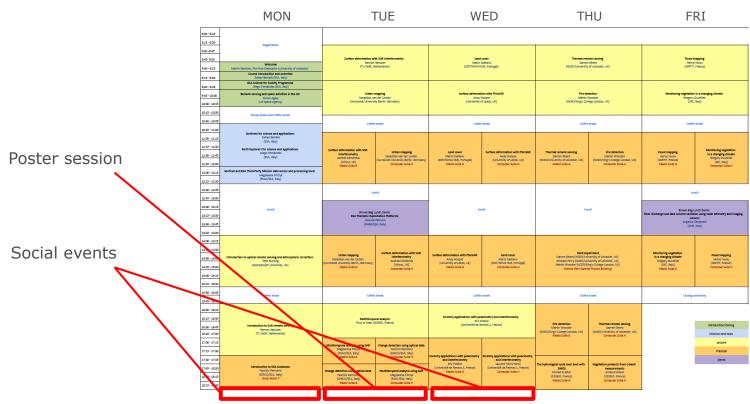




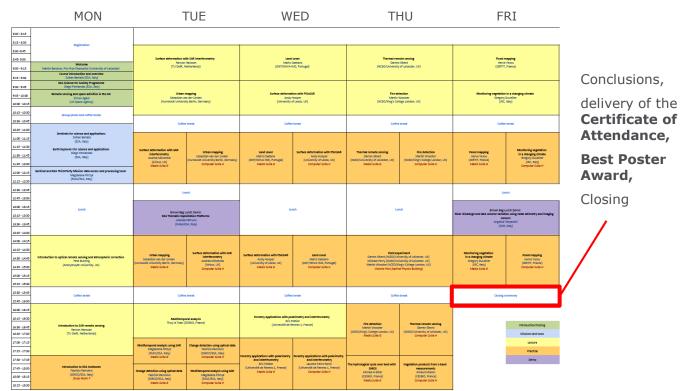
Brown Bag Lunches:
You are welcome to
pick up a takeaway
lunch from the
campus cafeterias/
restaurants and join
these demos
(Lecture Theatre A,
where we are now)









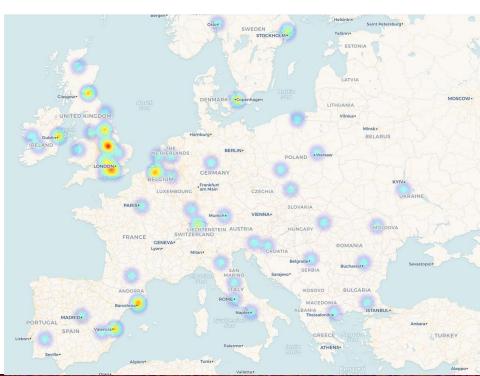




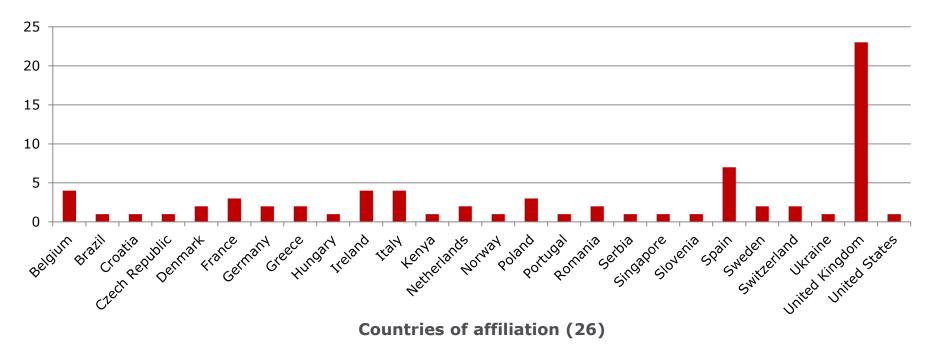
Location of affiliations of accepted participants



Total applications: 145 Accepted participants: 74

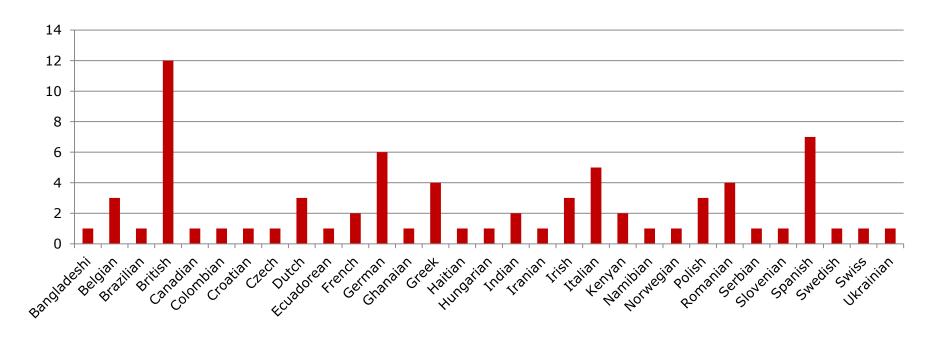






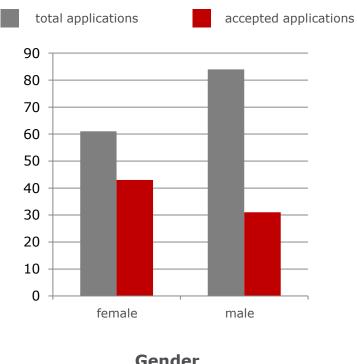
of which: ESA member/cooperating/associated states (20), other European (2), other non-European (4)





Nationalities (31)





100 90 80 70 60 50 40 30 20 10 0 academic public international private sector organisation / sector NGO

Gender

Affiliation type

Good to Know

Certificate of Attendance

- To get a certificate, attendance is mandatory for all lectures and practical classes
- Not enough to attend one or two lectures or to pick and choose from the programme
- Attendance lists will be in circulation during the week
- Certificates will be awarded during the closing ceremony on Saturday

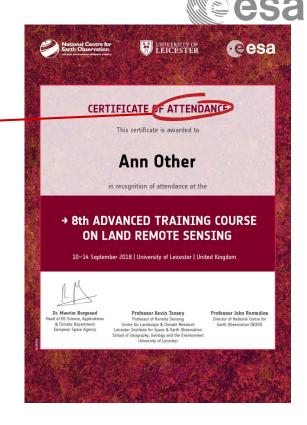
ECTS Credits

- Will be awarded by UoL on request
- Please contact organisers if interested

Online Course Evaluation

- To provide feedback to improve for future courses
- 10 minutes to complete
- The questionnaire is anonymous
- Link to website will be provided by email

Course material including videos will be made available on course website by end-September 2018



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Poster Session



- Poster Exhibition open at the Foyer of the Physics Building
- Mounting of posters from Tuesday morning, during coffee breaks and lunch
- Please check to find your poster board number on the list in the poster area
- Boards are labelled, please mount on the correct board
- Please take time to view the posters during the session but also make yourself available for discussion about your own poster with colleagues and lecturers
- Posters in PDF form will be shared on the course website by end-September (unless you do not want that)
- All posters not removed by Friday noon will be disposed of



Foyer of the Physics Building

Logistics



Badges

- Colour-coded:
 - Lectures Red
 - Students Green
 - Organisers –Light brown
 - Guests Dark blue
- Please wear at all times while on site
 - Helps us to recognise each other
 - Easily recognised by guards and university staff

Participant list and poster abstracts

will be shared electronically during the week

Most up to date course programme

please consult the course webpage!

In case of any need please ask the organisers!









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Logistics



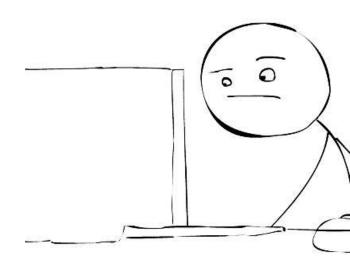
Wifi access:

• instructions to login to **eduroam** network were provided in the welcome package

Login to computers:

• instructions were provided in the welcome package

In case of any need please ask the organisers!



Spreading the Word





#ESALTC18

