

# 8th Advanced Training Course in Land Remote Sensing

10–14 September 2018, University of Leicester, United Kingdom

Main Campus of the University of Leicester: Department of Physics and Astronomy – Physics Building – Lecture Theatre A and Foyer (unless other room specified)

	Monday, September 10	Tuesday, September 11	Wednesday, September 12	Thursday, September 13	Friday, September 14				
8:00 - 8:15	Registration	Surface deformation with SAR interferometry Ramon Hanssen (TU Delft, Netherlands)	Land cover Mario Caetano (DGT/NOVA-IMS, Portugal)	Thermal remote sensing Darren Ghent (NCEO/University of Leicester, UK)	Flood mapping Herve Yesou (SERTIT, France)				
8:15 - 8:30									
8:30 - 8:45									
8:45 - 9:00									
9:00 - 9:15	Welcome Martin Barstow, Pro-Vice-Chancellor (University of Leicester)	Urban mapping Sebastian van der Linden (Humboldt University Berlin, Germany)	Surface deformation with PSInSAR Andy Hooper (University of Leeds, UK)	Fire detection Martin Wooster (NCEO/King's College London, UK)	Monitoring vegetation in a changing climate Gregory Duveiller (JRC, Italy)				
9:15 - 9:30	Course introduction and overview Zoltan Bartalis (ESA, Italy)								
9:30 - 9:45	ESA Science for Society Programme Diego Fernandez (ESA, Italy)								
9:45 - 10:00	Remote sensing and space activities in the UK Simon Agass (UK Space Agency)								
10:00 - 10:15	Group photo and coffee break	Coffee break	Coffee break	Coffee break	Coffee break				
10:15 - 10:30									
10:30 - 10:45	ESA and the Earth Explorers Diego Fernandez (ESA, Italy)  Sentinels for science and applications Zoltan Bartalis (ESA, Italy)  Sentinel and ESA Third-Party Mission data access and processing tools Magdalena Fitzryk (RSAC/ESA, Italy)	Surface deformation with SAR interferometry Andrea Minchella (Airbus, UK) <i>Group 1: Computer Suite H</i>	Urban mapping Sebastian van der Linden (Humboldt University Berlin, Germany) <i>Group 2: Study Room F</i>	Land cover Mario Caetano (DGT/NOVA-IMS, Portugal) <i>Group 1: Computer Suite H</i>	Surface deformation with PSInSAR Andy Hooper (University of Leeds, UK) <i>Group 2: Study Room F</i>	Thermal remote sensing Darren Ghent (NCEO/University of Leicester, UK) <i>Group 1: Computer Suite H</i>	Fire detection Martin Wooster (NCEO/King's College London, UK) <i>Group 2: Study Room F</i>	Flood mapping Herve Yesou (SERTIT, France) <i>Group 1: Computer Suite H</i>	Monitoring vegetation in a changing climate Gregory Duveiller (JRC, Italy) <i>Group 2: Study Room F</i>
10:45 - 11:00									
11:00 - 11:15									
11:15 - 11:30									
11:30 - 11:45									
11:45 - 12:00									
12:00 - 12:15	Lunch	Brown Bag Lunch Demo: ESA Thematic Exploitation Platforms Jolanda Patruno (RHEA/ESA, Italy)	Lunch	Field experiment Darren Ghent (NCEO/UoL, UK) Michael Perry (NCEO/UoL, UK) Martin Wooster (NCEO/King's College London, UK) <i>Group 1</i> <i>Victoria Park (behind Physics Building)</i>	Lunch	Lunch	Brown Bag Lunch Demo: River discharge and lake volume variation using radar altimetry and imaging sensors Angelica Tarpanelli (CNR, Italy)		
12:15 - 12:30									
12:30 - 12:45									
12:45 - 13:00									
13:00 - 13:15	Introduction to optical remote sensing and atmospheric correction Pete Bunting (Aberystwyth University, UK)	Urban mapping Sebastian van der Linden (Humboldt University Berlin, Germany) <i>Group 1: Computer Suite H</i>	Surface deformation with SAR interferometry Andrea Minchella (Airbus, UK) <i>Group 2: Study Room F</i>	Surface deformation with PSInSAR Andy Hooper (University of Leeds, UK) <i>Group 1: Computer Suite H</i>	Land cover Mario Caetano (DGT/NOVA-IMS, Portugal) <i>Group 2: Study Room F</i>	Lunch	Field experiment Darren Ghent (NCEO/UoL, UK) Michael Perry (NCEO/UoL, UK) Martin Wooster (NCEO/King's College London, UK) <i>Group 2</i> <i>Victoria Park (behind Physics Building)</i>	Monitoring vegetation in a changing climate Gregory Duveiller (JRC, Italy) <i>Group 1: Computer Suite H</i>	Flood mapping Herve Yesou (SERTIT, France) <i>Group 2: Study Room F</i>
13:15 - 13:30									
13:30 - 13:45									
13:45 - 14:00									
14:00 - 14:15									
14:15 - 14:30									
14:30 - 14:45	Coffee break	Coffee break	Coffee break	Coffee break	Closing ceremony				
14:45 - 15:00									
15:00 - 15:15									
15:15 - 15:30									
15:30 - 15:45	Introduction to SAR remote sensing Ramon Hanssen (TU Delft, Netherlands)	Multitemporal analysis Thuy le Toan (CESBIO, France)	Forestry applications with polarimetry and interferometry Eric Pottier (Université de Rennes 1, France)	Fire detection Martin Wooster (NCEO/King's College London, UK) <i>Group 1: Computer Suite H</i>	Thermal remote sensing Darren Ghent (NCEO/University of Leicester, UK) <i>Group 2: Study Room F</i>				
15:45 - 16:00									
16:00 - 16:15									
16:15 - 16:30									
16:30 - 16:45									
16:45 - 17:00									
17:00 - 17:15	Introduction to ESA toolboxes Fabrizio Ramoino (SERC/ESA, Italy) <i>Study Room F</i>	Multitemporal analysis using SAR Magdalena Fitzryk (RSAC/ESA, Italy) <i>Group 1: Computer Suite H</i>	Change detection using optical data Fabrizio Ramoino (SERC/ESA, Italy) <i>Group 2: Study Room F</i>	Forestry applications with polarimetry and interferometry Eric Pottier (Université de Rennes 1, France) <i>Group 1: Computer Suite H</i>	Forestry applications with polarimetry and interferometry Laurent Ferro-Famil (Université de Rennes 1, France) <i>Group 2: Study Room F</i>	The hydrological cycle over land with SMOS Ahmad Al Bitar (CESBIO, France) <i>Group 1: Computer Suite H</i>	Vegetation products from L-band measurements Arnaud Mialon (CESBIO, France) <i>Group 2: Study Room F</i>		
17:15 - 17:30									
17:30 - 17:45									
17:45 - 18:00									
18:00 - 18:15	Icebreaker	Poster session	Hosted Social Dinner National Space Centre, Leicester						
18:15 - 18:30									

Introduction/Closing
Missions and tools
Lecture
Practical
Demo