

Session 1A: Vegetation Characterisation – Tuesday 6 th September 11:00-12:30	
54	A comparison of models for signal decomposition of satellite time-series data to estimate tree/grass fractional cover in African savanna <i>Saad Ibrahim, University of Leicester; saadarg1@yahoo.com</i>
37	Determining the impact of vegetation cover on geological mapping <i>Stephen Grebby; The University of Nottingham; Stephen.grebby@nottingham.ac.uk</i>
92	Vegetation Sensitivity Analysis after Droughts in the Yucatan Peninsula, Mexico: Resistance and Resilience of Vegetation <i>Betsabe De la Barreda-Bautista; The University of Nottingham; lqxbd2@nottingham.ac.uk</i>
47	'Scrubbing up': a multi-scale investigation of woody encroachment in African savannas <i>Christopher George Marston; Edge Hill University; marstonc@edgehill.ac.uk</i>
27	CANCELLED

Session 2A: Biomass Burning & Land-based Emissions – Tuesday 6 th September 13:30-15:00	
43	The 2015/16 El-Nino and its impact on African biomass burning <i>Gareth Roberts, University of Southampton; G.J.Roberts@soton.ac.uk</i>
46	Global multi-year burned area maps from PROBA-V 333M data <i>Kevin Tansey, University of Leicester; kit7@le.ac.uk</i>
66	Spatio-temporal sampling design for Global burned area validation <i>Marc Padilla, University of Leicester; mp489@le.ac.uk</i>
80	Prototyping a global Landsat-8 Sentinel-2 burned area product <i>David Paul Roy, South Dakota State University; david.roy@sdstate.edu</i>
91	The role of water surface width in estimating CO₂ effluxes from rivers and streams to the atmosphere in England and Wales using super-resolution mapping and predictive modelling <i>Liam D. Clark. The University of Nottingham; lqxdcl@nottingham.ac.uk</i>

Session 2B: Built Environment – Tuesday 6 th September 13:30-15:00	
48	Remote Sensing of Surface Urban Cool and Heat Island Dynamics in Erbil, Iraq, between 1992 and 2013 <i>Azad Rasul, University of Leicester; aor4@le.ac.uk</i>
64	Modelling the spatiotemporal change of radiant urban heat islands <i>Jasim Ali, The University of Nottingham; ezxja@nottingham.ac.uk</i>
70	Satellite based decadal trends and annual cycles of tropospheric NO₂ pollution in Nigerian urban centres <i>Ajoke Ruth Onojeghuo, University of Leicester; aroo1@le.ac.uk</i>
13	Ground-based archaeological remote sensing <i>Chris Brooke, The University of Nottingham; chris.brooke@nottingham.ac.uk</i>
19	A remote-sensing based approach to endangered archaeology in the Middle East and North Africa <i>Louise Elizabeth Rayne, University of Leicester; ler14@leicester.ac.uk</i>

Session 3A: Forestry – Tuesday 6th September 15:30-17:30	
6	Virtual forests to support end-to-end traceability of essential climate variables <i>Kim Calders, National Physical Laboratory/University College London; kim.calders@npl.co.uk</i>
29	Aboveground Biomass Carbon Stocks and Changes in Forest of the Iberian Peninsula (Spain and Portugal) <i>Pedro Rodriguez Veiga, University of Leicester/NCEO; prv4@le.ac.uk</i>
45	Characterising fine scale variation in forest form using archive multispectral imagery in a high altitude tropical region <i>Peter James Morley, University of Stirling; p.j.morley@stir.ac.uk</i>
84	Dual-wavelength terrestrial laser scanning of forest structure and composition <i>Fadal Sasse, Salford University; f.sasse@edu.salford.ac.uk</i>
12	Cloud-based EO data exploitation platform for forestry community <i>Rakesh Prithiviraj, CGI IT UK Ltd.; rakesh.prithiviraj@cgi.com</i>
94	A View From Above vs One From Below: Remote Detection of Lianas in Tropical Forests using a UAV <i>Catherine Waite, The University of Nottingham; catherine.waite@nottingham.ac.uk</i>

Session 3B: Hazards & Disaster Risk Reduction – Tuesday 6th September 15:30-18:00	
17	Enhanced flood mapping using a Sentinel-1 time series <i>Sarah C.M. Johnson, University of Leicester; sj239@le.ac.uk</i>
18	Determination of the Winter 2015-16 Flood Extent in Yorkshire using Sentinel-1 Data <i>Miles Clement, Newcastle University; m.a.clement2@ncl.ac.uk</i>
1	A semi-automated flood mapping procedure using statistical SAR backscatter analysis <i>Louisa Jane Reynolds, Pixalytics; louisa_reynolds@yahoo.co.uk</i>
69	Seismic risk assessment based on Open Source satellite imagery, global DEMs, geomorphometrics and Multi-Criteria Decision Analysis. A case study from Crete, Greece <i>Richard M. Teeuw, University of Portsmouth; richard.teeuw@port.ac.uk</i>
41	Benefits and limitations of free geospatial data for disaster risk reduction applications – a case study of Matara, Sri Lanka <i>Mathias Leidig, University of Portsmouth; mathias.leidig@port.ac.uk</i>
8	Detecting and monitoring artisanal oil refining in the Niger Delta <i>Richard M. Teeuw, University of Portsmouth; richard.teeuw@port.ac.uk</i>
	Uses of remote sensing for disaster response <i>Ian Holt, Map Action</i>

Session 4A: Land Use/Land Cover mapping – Wednesday 7th September 11:30-13:00	
82	Producing Land Cover Map 2015 (LCM2015) <i>Clare Rowland, Centre for Ecology and Hydrology; clro@ceh.ac.uk</i>
50	Automatically updating land cover mapping using open source Earth Observation tools and satellite data <i>Thomas Alexander McCoy Jones, Satellite Applications Catapult; tom.jones@sa.catapult.org.uk</i>
10	Fractional Land Cover Dynamics during 1983-2012 using GIMMS NDVI3g <i>Narumasa Tsutsumida, Kyoto University, Japan; naru@kais.kyoto-u.ac.jp</i>
25	Monitoring Land Cover Dynamics: Bringing together Landsat-8 and Sentinel-2 data <i>Samantha Lavender, Pixalytics Ltd; slavender@pixalytics.com</i>
21	Long term resilience of tropical forests to logging and drought in SE Asia <i>Mark Cutler, University of Dundee; m.e.j.cutler@dundee.ac.uk</i>

Session 4B: SAR Applications 1 – Wednesday 7th September 11:30-13:00

58	On the use of the Trace Coherence for polarimetric and interferometric SAR data <i>Armando Marino, The Open University; armando.marino@open.ac.uk</i>
76	Simultaneous X- and Ku-band SAR Monitoring of a Barley Crop Over a Growing Season <i>Keith Morrison, Cranfield University; k.morrison@cranfield.ac.uk</i>
89	New Applications for a Space-borne SAR with 2D steering capability <i>Geoff Burbidge, Airbus Defence and Space; geoff.burbidge@airbus.com</i>
67	GEO Radar Performance Statistics for User Applications <i>Stephen Edward Hobbs, Cranfield University; s.e.hobbs@cranfield.ac.uk</i>
33	Simulation and Parameterisation of Dynamic Clutter in SAR Imaging <i>Stephen Edward Hobbs, Cranfield University; s.e.hobbs@cranfield.ac.uk</i>

Session 5A: Land Surface Characterisation & Monitoring – Wednesday 7th September 14:00-15:30

23	Generation of Analysis Ready Data (ARD) and intermediate products for habitat condition assessment and monitoring <i>Gwawr Angharad Jones, Joint Nature Conservation Committee; Gwawr.Jones@jncc.gov.uk</i>
40	An assessment of 30 m resolution global forest change maps for national forest monitoring in Guyana <i>Daniel NM Donoghue, Durham University; danny.donoghue@durham.ac.uk</i>
32	Multi-scale Analysis of Forest and Inundated Forest from SAR Time Series Data <i>James Edward Maxwell Wheeler, University of Leicester; jemw3@le.ac.uk</i>
7	Using Proba-V and Sentinel-2 Data to Monitor Pasture Production on a Dairy Farm in Manawatu, New Zealand <i>Mike Tuohy, Massey University; m.tuohy@massey.ac.nz</i>
68	Development of the intermediate product concept to support EO-based applications <i>Geoff Smith, Specto Natura Ltd.; geoffsmith@specto-natura.co.uk</i>

Session 5B: Ground Deformation – Wednesday 7th September 14:00-15:30

3	Utilising corner reflectors for deformation monitoring using Sentinel-1 data <i>Ahmed Dhahir Athab, The University of Nottingham; isxada@nottingham.ac.uk</i>
57	Assessing peatland subsidence by Intermittent Small Baseline Subset (ISBAS) Differential interferometric SAR <i>Lubna Salih Alshammari, The University of Nottingham; lubna_alshammari@yahoo.com</i>
22	ISBAS potential for a UK national monitoring program: time to think big <i>Alessandro Novellino, Geomatic Ventures Limited; alessandro.novellino@geomaticventures.com</i>
24	On safe ground? Analysis of European urban geohazards using satellite radar interferometry <i>Ren Capes, University of Portsmouth; renalt.capes@port.ac.uk</i>
62	Establishing environmental baselines for potential UK shale gas sites; the role of InSAR <i>Luke Bateson, BGS; lbateson@bgs.ac.uk</i>

Session 6A: High-resolution Remote Sensing – Wednesday 7th September 16:00-17:30

61	Urban mapping at high resolutions: exploiting the long-term EO record Doreen Boyd, University of Nottingham; doreen.boyd@nottingham.ac.uk
65	That sweet spot between UAV and large format survey Chris Mewse, Getmapping PLC; chrismewse@gmail.com
36	Assessment of the Feasibility of Producing Cadastral Base Maps from Pleiades Satellite Image Gabriel Ajayi, Federal University of Technology, Akure, Nigeria; geajayi@futa.edu.ng
44	CANCELLED
95	Virtual ground control points – exploiting UAV sensor systems in otherwise inaccessible terrain Simon Pomeroy, Loughborough University; S.C.Pomeroy@lboro.ac.uk

Session 6B: SAR Applications 2 – Wednesday 7th September 16:00-17:30

78	Radar Instrumentation for Remote Sensing of Ice and Snow Prasad Gogineni, The University of Kansas; PGogineni@ku.edu
90	A mission for measuring ocean surface current vectors Geoff Burbidge, Airbus Defence and Space; geoff.burbidge@airbus.com
49	IPSP: Collaborative SAR Solutions for Australia Mark Jarman, Satellite Applications Catapult; mark.jarman@sa.catapult.org.uk
63	CANCELLED
56	Using Sentinel-1 dual-polarimetric Extra Wide Swath to detect icebergs: a new algorithm Armando Marino, The Open University; armando.marino@open.ac.uk

Session 7A: Computation – Thursday 8th September 10:30-12:30

35	A computational tool for the reconstruction of scene geometry of a stereogram using epipolar image correlation Gabriel Ajayi, Federal University of Technology, Akure, Nigeria; geajayi@futa.edu.ng
5	PC based Dense Matching and Super Resolution Scene Depth Reconstruction Xue Wan, Imperial College London; x.wan12@imperial.ac.uk
60	CANCELLED
72	Using Earth Observation and cloud infrastructure to enhance knowledge and innovation in coastal research Eirini Politi, University College Cork, Ireland; eirini.politi@ucc.ie
28	Addressing the Sentinel data deluge with JASMIN at CEDA (other EO datasets are available!) Ed Williamson, Centre for Environmental Data Analysis (CEDA); edward.williamson@stfc.ac.uk

Session 7B: NERC ARF – Thursday 8th September 10:30-12:30

	NERC ARF: Collecting airborne data for the UK research community <i>Gary Llewellyn, Airborne Research Facility (NERC ARF); gaew@nerc.ac.uk</i>
	Topography controls fine-scale variation in aboveground carbon density and tree species diversity across a tropical forest landscape <i>Tomasso Jucker, University of Cambridge; tj272@cam.ac.uk</i>
20	Automated tree genus mapping and disease detection using airborne hyperspectral remote sensing <i>William John Oxford, BioSystems, 2Excel Aviation Ltd.; williamoxford@2excelaviation.com</i>
14	Calibration and characterisation of airborne hyperspectral instruments: case study using a Specim AisaFenix instrument <i>Aser Mata, Plymouth Marine Laboratory; asm@pml.ac.uk</i>
	What happens after the flights? Overview of the NERC Airborne Research Facility Data Analysis Node <i>Laura Harris, Plymouth Marine Laboratory; lah@pml.ac.uk</i>
	NCEO Field Spectroscopy Facility <i>Chris MacLellan, NCEO Field Spectroscopy Facility, chris.maclellan@ed.ac.uk</i>