

NCEO/CEOI JOINT SCIENCE CONFERENCE, WARWICK

MONDAY 5 SEPTEMBER – THURSDAY 8 SEPTEMBER, 2011

TIMETABLE

Monday 5 September

16.00 – 18.00	Registration, Warwick Conference Reception, Rootes Building
18.00 – 19.00	Drinks Reception, Rootes Restaurant Bar Area
19.00 – 21.00	Dinner (self-service) in Rootes Restaurant
21.00 -	Rootes Bar will be open

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Tuesday 6 September

7.30-9	Breakfast, Rootes Restaurant
08.30 onwards	Reception Desk in Ramphal Reception
09.00 – 11.05	<p>PLENARY: NCEO SCIENCE HIGHLIGHT TALKS (15 minutes each) Ramphal Lecture Theatre</p> <p>1 Welcome – Alan O’Neill, Director NCEO</p> <p>2 Volcano InSAR reveals shallow magmatic activity in East Africa– Juliet Biggs, University of Bristol</p> <p>3 A new scheme for sulfur dioxide retrieval from IASI measurements: application to recent volcanic eruptions. Elisa Carboni, Roy Grainger, Joanne Walker, Anu Dudhia, University of Oxford, Richard Siddans, STFC RAL</p> <p>4 Vertical tectonic signals from integrated InSAR and GPS observations: Southern Walker Lane and Sierra Nevada - Zhenhong Li, University of Glasgow: William C. Hammond, Geoffrey Blewitt, Corné Kreemer and Hans-Peter Plag, University of Nevada, Reno, USA</p> <p>5 Slip in the 2010-2011 Canterbury Earthquakes, New Zealand and implications for future seismic hazard in Christchurch. John Elliott, E. K. Nissen, P. C. England, J. A. Jackson, S. Lamb, Z. Li, M. Oehlers, K. Palamartchouk, and B. Parsons.</p> <p>6 Data assimilation news – Peter Jan van Leeuwen, University of Reading</p> <p>7 Reduced order models in data assimilation. Amos Lawless University of Reading.</p> <p>8 Development of prototype EO land data assimilation system - Philip Lewis (UCL); Jose Gomez-Dans, UCL; Thomas Kaminski, FastOpt Ltd., Germany; Jeff Settle, Kevin Pearson, U of Reading, Tristan Quaife, University of Exeter, Nadine Gobron, Joint Research Centre, Jon Styles, Assimila Ltd, Michael Berger, ESA</p> <p>9 Analysis of the DALEC evergreen model - Anna Chuter, Anne Skeldon, Philip Aston, Ian Roulstone, University of Surrey</p>

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Tuesday 6 September, continued	
11.05 – 11.30	REFRESHMENTS Ramphal Foyer and Rooms R03 & 4
11.30 – 13.00	<p>PLENARY: NCEO SCIENCE HIGHLIGHT TALKS - continued Ramphal Lecture Theatre</p> <p>10 Atmospheric data assimilation with space and ground based observations for high-impact weather. Stefano Migliorini and Ross Bannister, University of Reading</p> <p>11 Future improvement to methane & ozone climate data sets through combining sensors – Richard Siddans, RAL</p> <p>12 Measuring methane from space and comparing to model simulations - Robert Parker, University of Leicester, Annemarie Fraser, University of Edinburgh</p> <p>13 ESA Climate Change Initiative: A new collaborative European approach to aerosol remote sensing from satellite – Gareth Thomas/Caroline Poulsen, University of Oxford</p> <p>14 ESA Climate Change Initiative: Towards a unified satellite cloud climatology – Caroline Poulsen, RAL</p> <p>15 Radiative impacts of desert dust in HiGAM Model – Margaret Woodage and Richard Allan, University of Reading</p>
13.00 – 14.00	LUNCH Ramphal Foyer and Rooms R03 & 4

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Tuesday 6 September, continued	
14.00 – 15.30	<p>PLENARY: NCEO SCIENCE HIGHLIGHT TALKS - continued Ramphal Lecture Theatre</p> <p>16 An update on the Geostationary Earth Radiation Budget project - Helen Brindley and Jacqui Russell, Imperial College</p> <p>17 Latest results from Cryosat – Seymour Laxon, UCL</p> <p>18 Melt-induced speed-up of Greenland ice-sheet offset by efficient subglacial drainage - Aud Sundal, Andrew Shepherd, Steve Palmer, U of Leeds; Pete Nienow, U of Edinburgh; Edward Hanna, U of Sheffield; Philippe Huybrechts, University of Vrije, Brussels</p> <p>19 Using EO data to assess snow models - Steven Hancock, Bob Baxter and Brian Huntley, Durham University</p> <p>20 Seasonal cycling of inorganic carbon downstream of the island of South Georgia, Southern Ocean - Elizabeth Jones, University of East Anglia/ Royal Netherlands Institute for Sea Research, Dorothee Bakker and Andrew Watson, University of East Anglia; Hugh J. Venables, British Antarctic Survey</p> <p>21 Consistency of marine wind speed data sets for global calculations of turbulent heat flux over the ocean - Susanne Fangohr, Elizabeth Kent, National Oceanography Centre, Southampton</p>
15.30 – 16.00	<p>REFRESHMENTS Ramphal Foyer and Rooms R03 & 4</p>

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16.00 – 17.30	<p>PLENARY: NCEO SCIENCE HIGHLIGHT TALKS - continued Ramphal Lecture Theatre</p> <p>22 A High-Resolution Reanalysis of the Global Ocean - Keith Haines, Maria Valdivieso and Hao Zuo, Reading University</p> <p>23 Using satellite radar to map biomass and disturbance- Timothy Hill, Casey Ryan and Mat Williams, University of Edinburgh</p> <p>24 Radiative Transfer modelling of wildfire impacts - Philip Lewis, Jose Gomez-Dans, Mathias Disney UCL, Martin Wooster, Kings College London, Bernard Pinty, Joint Research Centre, David Roy, South Dakota State University, USA</p> <p>25 Determining global soil moisture from space - Robert Gurney, Mel Sandells, Ian Davenport, University of Reading</p> <p>26 Storm Initiation in the Sahel - Phil Harris, CEH Wallingford</p> <p>27 Near real-time flood detection in urban and rural areas using TerraSAR-X - David Mason, Ian Davenport, University of Reading, Guy Schumann, Jeffrey Neal, Paul Bates, University of Bristol</p>
18.30	<p>JOINT NCEO-CEOI DRINKS RECEPTION Rootes Restaurant Bar Area</p>
19.00	<p>SELF-SERVICE DINNER Rootes Restaurant</p>

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Wednesday 7 September

07.30 – 09.00	Breakfast, Rootes Restaurant
08.30 onwards	Reception Desk in Ramphal Reception
09.00 – 10.45	<p>PLENARY: JOINT NCEO/CEOI SESSION Ramphal Lecture Theatre</p> <p>UK Earth Observation and ESA Missions:</p> <ol style="list-style-type: none"> 1. Alan O’Neill: NCEO overview (15 mins) 2. Mick Johnson: CEOI overview (15 mins) 3. Amanda Regan (ESA): ESA Plans for EO Missions and Technologies (30 mins) 4. Science and Technologies for EE8 Missions: <ol style="list-style-type: none"> a. Hartmut Boesch (University of Leicester): Carbon Sat (15 mins) b. Luis Guanter (University of Oxford): FLEX (15 mins) c. Dan Lobb (SSTL): Instrument Options for CarbonSat and FLEX
10.45 – 11.10	<p>REFRESHMENTS Ramphal Foyer and Rooms R03 & 4</p>

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Wednesday 7 September, continued	
11.10 – 13.00	<p>NCEO/CEOI YOUNG SCIENTIST/ENGINEERS' TALKS Ramphal Lecture Theatre (11 x 10 minute talks: 3 CEOI /8 NCEO)</p> <p>1 Alex Parkins, UCL - Development of a new class of geodetic sensor for seismic early warning</p> <p>2 Remote sensing of snow mass from ground to satellite - Mel Sandells, Mark Richardson, Ian Davenport and Robert Gurney, University of Reading</p> <p>3 The detection and measurement of forest degradation using ALOS PALSAR data – Kevin Tansey, Sue Page, Matthew Waldram, University of Leicester</p> <p>4 Inter-comparison of AIRS and High Quality Radiosonde Sites for Climate Assessment, Timothy Trent, John Remedios, University of Leicester</p> <p>5 Profiling Trace Gases in the Upper Troposphere and Lowest Stratosphere, Daniel Gerber, STFC</p> <p>6 Improving satellite retrievals of formaldehyde and glyoxal from GOME-2 to improve tropical biogenic emission estimates - Will Hewson, Hartmut Bosch, University of Leicester</p> <p>7 Model based predictions of marine ice sheets – Rupert Gladstone, University of Bristol</p> <p>8 Dale Partridge, N Nichols, M Baines, University of Reading: Data assimilation in a moving mesh model of an ice sheet</p> <p>9 David Nandi, R Sharples, D Donogue (University of Durham): A Novel Hyperspectral Imager Based on Microslice Technology</p> <p>10 Karl Atkinson (Astrium): Science potential for advanced EO missions in convoy with operational satellites</p> <p>11 Rebecca Rose (STFC-RAL) Laser Heterodyne Radiometry for EO</p>
13.00 – 14.00	<p>LUNCH Ramphal Foyer and Rooms R03 & 4</p>

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Wednesday 7 September, continued	
14.00 – 15.30	NCEO/CEOI JOINT POSTER SESSION Ramphal Foyer and Rooms R03 & 4
15.30 – 16.00	POSTER SESSION CONTINUES WITH REFRESHMENTS Ramphal Foyer and Rooms R03 & 4

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Wednesday 7 September, continued	
<p>16.00 – 17.30</p>	<p>NCEO and CEOI BREAKOUT SESSIONS</p> <p>1. Instruments and Technologies for EO: Ramphal Lecture Theatre (Chair - Mick Johnson, CEOI)</p> <ol style="list-style-type: none"> a. Using Hollow Waveguides in Advanced Optical Instruments for EO (Mike Jenkins, Hollow Waveguides Ltd) b. Millimetre wave technology for STEAM-R (Simon Rea, STFC-RAL) c. CityScan and CompAQS Air Quality Monitors (Roland Leigh, University of Leicester) d. Thermal IR Data Acquisition Systems (Neil Humpage, University of Leicester) e. Passive Microwave and Sub-millimetre wave Imager Technologies for MetOp-SG (Simon Rea, STFC-RAL) f. The TDS Altimetry Sensing System (Martin Unwin, SSTL) <p>2. Joint Workshop with the UK Measurement Network (NPL/NMS) on “Quality Issues for ECVs and Climate Data”: Room R1-15</p> <p>Pascal Lecomte (European Space Agency) Geoff Busswell (Logica) Nigel Fox (National Physical Laboratory) John Remedios (University of Leicester) Richard Siddans (NCEO RAL)/ Debbie Clifford (NCEO) *A facilitated discussion with panel members will follow Chair: Hilary Elliott (National Physical Laboratory)</p> <p>3. Scientific applications of InSAR Interferometry (Andy Shepherd and Tim Wright, NCEO, University of Leeds): Room R1-13</p> <ol style="list-style-type: none"> 1. Andy Hooper (Atmosphere) 2. Zhenhong Li (Atmosphere) 3. Shaun Quegan (Vegetation) 4. Iain Woodhouse (Vegetation) 5. Noel Gourmelen (Carbon Capture and Storage) 6. Aud Sundal (Ice motion) 7. Mal McMillan (Ice motion) 8. Tim Wright (Tectonics) 9. Juliet Biggs (Volcanoes) <p>4. Media Interviews (Sam Williams, NCEO and Paul Ireson): Room R1-03 Volunteers required to give informal, 5-minute one-to-one, interviews about their science. These will be professionally filmed for uploading on the web.</p>
<p>18.30 19.00</p>	<p>CHANCELLORS SUITE, ROOTES BUILDING PRE-DINNER DRINKS with BARSC MOU Signing Ceremony <i>Followed by:</i> FORMAL CONFERENCE DINNER</p>

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08.30 onwards	Reception Desk in Ramphal Reception
09.00 – 11.00	<p>NCEO and CEOI THEME/BREAKOUT SESSIONS:</p> <p>1. Innovation in Earth Observation Services: Ramphas Lecture Theatre Co-chair Andy Shaw & Chetan Pradhan Setting the scene: Andy Shaw (NCEO/ISIC) The evolving UK EO landscape – science & policy Chetan Pradhan (BARSC) The evolving UK EO landscape – commercial perspective Gordon Campbell (ESA) 'Innovation & Markets for EO services Market perspectives: Robin Higgons(Qi3) EO Markets – The Value Chain and the Chasm Professor Michael Mainelli (Executive Chairman, Z/Yen Group Limited) View From the City – Commercialising Measures for Commerce Ed Parsons (Google) Is the future of EO in the mass market? Juan Carlos Castillo-Rubio, (Planetary Skin Institute) – Public-Private innovations for managing resource scarcity under increasing complexity and uncertainty Discussion: Moderator Gordon Campbell (ESA): Where are the growth markets? How can UK grow its share of the market? What is innovation? What does it look like? How do we make it work?</p> <p>2. Richard Hollingham (Boffin Media): Getting your Message Across Room R1-103 Why it's important to communicate your science and how to do it. Science journalist Richard Hollingham leads this practical session in science communication covering media, writing and podcasting.</p> <p>3. Chris Taylor (NCEO/CEH) and Shaun Quegan (NCEO University of Sheffield): Land-atmosphere processes and interactions Room R1-13</p>
11.00 – 11.30	REFRESHMENTS Ramphal Foyer and Rooms R03 & 4

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Thursday 8 September, continued	
11.30 – 13.00	<p>PLENARY SESSION JOINT NCEO/CEOI MEETING: FUTURE DIRECTIONS FOR EO Ramphal Lecture Theatre</p> <ol style="list-style-type: none"> 1. Paul Monks (University of Leicester): EO for Science, Security and Services 2. Michael Lawrence (TSB): Could a Space Technology and Innovation Centre help accelerate the commercialisation of new EO technologies? 3. David Parker (UKSA): UK Space Agency Technologies 4. Ruth Boumphrey (UKSA): The UK Space Agency's perspective and vision for Earth Observation
13.00 – 14.00	<p>LUNCH Ramphal Foyer and Rooms R03 & 4</p>
14.00 – 15.30	<p>CEOI Session DEVELOPING PRIORITIES FOR FUTURE UK-LED EO MISSIONS Ramphal Lecture Theatre</p> <ul style="list-style-type: none"> - Developing Indicative Missions for EO – The story so far and next steps (Mick Johnson) - Example missions: <ul style="list-style-type: none"> o EO Opportunities through TDS, Stuart Eves (SSTL) o TRUTHS Mission, Nigel Fox (NPL) o Tropical Carbon Mission, Paul Palmer (University of Edinburgh) o The SpecL Mission, Iain Woodhouse (University of Edinburgh) - From EO to planetary missions Jan-Peter Muller (MSSL) - Closing Discussion
15.30 – 16.00	<p>REFRESHMENTS Ramphal Foyer and Rooms R03 & 4</p> <p>NCEO BOARD MEETING 15.40 – 16.30 hours, Room R1-104</p>