

*The meeting is supported by funding from NCAS and the NERC AEROS project*

## NCAS Composition-Climate Interaction Meeting, 24-25 March 2011

University of Leeds, School of Earth and Environment

### ORAL PROGRAMME

*Presentations in italic are invited. Note that the length of presentations is 15, 20 or 25 mins*

<b>THURSDAY 24th March</b>			
12.45	BUFFET LUNCH, School of Earth and Environment foyer		
1.45	Carslaw/Pyle	Welcome and aims of the meeting	
<b>Session 1: Biosphere interactions</b> (Chair: Ken Carslaw)			
2.00	<i>Gerd Folberth</i>	<i>Met Office</i>	<i>Multidirectional Biosphere-Atmosphere Feedbacks in HadGEM2</i>
2.25	Dom Spracklen	Leeds	Climate change, wildfire and air quality
2.45	Allan Spessa	Reading	Simulating emissions from wildfires at global and regional scales: Where are we now and where do we go next?
3.05	Kirsti Ashworth	Lancaster	Air quality and climate impacts of biofuel cultivation
3.25	Stephen Arnold	Leeds	Impacts of climate-driven land cover changes on tropospheric ozone
3.45	BREAK		
<b>Session 2: Aerosol processes</b> (Chair: Bill Collins)			
4.10	<i>Philip Stier</i>	<i>Oxford</i>	<i>How reliable are global observational constraints on model-based assessments of indirect aerosol effects?</i>
4.35	Graham Mann	Leeds	Applications of the UKCA aerosol model
4.55	Ellie Highwood	Reading	Taking aerosols from composition to climate
5.10	John Marsham	Leeds	Meteorology of dust uplift in summertime West Africa: implications for climate and Earth system modelling
5.25	<i>Nicolas Bellouin</i>	<i>Met Office</i>	<i>Aerosol forcing in a GCM: Benefits of a sophisticated aerosol module</i>
5.50	POSTERS AND DRINKS (foyer area)		
7.00	DINNER (Buffet curry in foyer and coffee area)		
<b>FRIDAY 25th March</b>			
<b>Session 3: Tropospheric chemistry</b> (Chair: Peter Braesicke)			
9.15	<i>Alex Archibald</i>	<i>Cambridge</i>	<i>Investigating the impacts of HOx recycling in the oxidation of isoprene: Sensitivity studies of past, present and future atmosphere using the UKCA model</i>
9.40	<i>Oliver Wild</i>	<i>Lancaster</i>	<i>Modelling future changes in surface ozone</i>
10.05	Roland Von Glasow	UEA	Process studies of chemistry-climate interactions
10.20	Mat Evans	Leeds	Impacts of halogens on pre-industrial ozone
10.35	Bill Collins	Met Office	UKCA in the HadGEM2 and HadGEM3 earth system models
10.55	BREAK		
<b>Session 4: Intercomparison studies</b> (Chair: Oliver Wild)			
11.25	<i>Martyn Chipperfield</i>	<i>Leeds</i>	<i>Composition-Climate Coupling in the Stratosphere: Recent Results from CCMVal Simulations</i>
11.50	<i>Peter Braesicke</i>	<i>Cambridge</i>	<i>Chemistry-climate modelling with UM-UKCA: CCMVal-2 and beyond</i>
12.10	David Stevenson	Edinburgh	The CMIP5 ozone database 1850-2100: its construction and corresponding tropospheric and stratospheric ozone radiative forcings
<b>Session 5: Discussion</b>			
12.30	<i>Luke Abraham</i>	<i>Cambridge</i>	<i>Getting started with UKCA</i> <b>Discussion about UK composition-climate modelling</b>
1.15	CLOSE		

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## LIST OF POSTERS

*Posters will be up for the duration of the meeting. There is a poster session on Thursday at 5.50pm*

Alan Gadian	Cloud Brightening
Anja Schmidt	Modelling volcanic aerosol: from aerosol microphysical processes to Earth system impacts
Carly Reddington	EUCAARI-AEROCOM aerosol model inter-comparison of boundary layer nucleation over Europe
Howard Roscoe	The NERC-funded project PSCs in UKCA – project rationale and definition
James Levine	The ice-core record of atmospheric methane: composition-climate interactions on glacial-interglacial timescales
Jo Browse	Modelling the Arctic aerosol seasonal cycle: the importance of wet deposition
John Marsham	Meteorology of dust uplift in summertime West Africa: implications for dust modelling
John Methven	Global conservation in tracer advection models and potential to influence the burden of long-lived chemical species
Kathryn Emmerson	UKCA and the stratosphere: the eruption of Mt Pinatubo
Luke Abraham	Chemistry in the Unified Model: Climate-Chemistry Studies with UKCA
Maria Russo	Representation of tropical deep convection in atmospheric models – Part 1: Meteorology and comparison with satellite observations
Martyn Chipperfield	Climate Change and Ozone Depletion from N <sub>2</sub> O
Paul Telford	Effects of climate-induced changes in isoprene emissions after the eruption of Mount Pinatubo
Peter Knippertz	Towards an Improved Representation of Meteorological Processes in Models of Mineral Dust Emission
Robert Thorpe	Evaluation of a year-long integration of AQUM-UKCA for a DEFRA model intercomparison
Ruth Doherty	Present-day and future ozone-related health impacts in the UK