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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

THURSDAY 24th March			
12.45	BUFFET LUNCH, School of Earth and Environment foyer		
1.45	Carslaw/Pyle	Welcome and aims of the meeting	
Session 1: Biosphere interactions (Chair: Ken Carslaw)			
2.00	*Gerd Folberth*	*Met Office*	*Multidirectional Biosphere-Atmosphere Feedbacks in HadGEM2*
2.25	Dom Spracklen	Leeds	Climate change, wildfire and air quality
2.45	Kirsti Ashworth	Lancaster	Air quality and climate impacts of biofuel cultivation
3.05	Stephen Arnold	Leeds	Impacts of climate-driven land cover changes on tropospheric ozone
3.30	BREAK		
Session 2: Aerosol processes (Chair: Bill Collins)			
3.55	*Philip Stier*	*Oxford*	*How reliable are global observational constraints on model-based assessments of indirect aerosol effects?*
4.20	Graham Mann	Leeds	Applications of the UKCA aerosol model
4.40	Ellie Highwood	Reading	Taking aerosols from composition to climate
5.00	John Marsham	Leeds	Meteorology of dust uplift in summertime West Africa: implications for climate and Earth system modelling
5.20	*Nicolas Bellouin*	*Met Office*	*Aerosol forcing in a GCM: Benefits of a sophisticated aerosol module*
5.50	POSTERS AND DRINKS (foyer area)		
7.00	DINNER (Buffet curry in foyer and coffee area)		
FRIDAY 25th March			
Session 3: Tropospheric chemistry (Chair: Peter Braesicke)			
9.15	*Alex Archibald*	*Cambridge*	*Investigating the impacts of HOx recyling in the oxidation of isoprene: Sensitivity studies of past, present and future atmosphere using the UKCA model*
9.40	*Oliver Wild*	*Lancaster*	*Modelling future changes in surface ozone*
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		
Session 4: Intercomparison studies (Chair: Oliver Wild)			
11.25	*Martyn Chipperfield*	*Leeds*	*Composition-Climate Coupling in the Stratosphere: Recent Results from CCMVal Simulations*
11.50	*Peter Braesicke*	*Cambridge*	*Chemistry-climate modelling with UM-UKCA: CCMVal-2 and beyond*
12.10	David Stevenson	Edinburgh	The CMIP5 ozone database 1850-2100: its construction and corresponding tropospheric and stratospheric ozone radiative forcings
Session 5: Discussion			
12.30	*Luke Abraham*	*Cambridge*	*Getting started with UKCA* **Discussion about UK composition-climate modelling**
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

1	Alan Gadian	Cloud Brightening
2	Anja Schmidt	Modelling volcanic aerosol: from aerosol microphysical processes to Earth system impacts
3	Carly Reddington	EUCAARI-AEROCOM aerosol model inter-comparison of boundary layer nucleation over Europe
4	Daniel Stone	Long-term measurements and modelling of OH and HO2 at a tropical marine location
5	Gordon McFiggans	Regional coupled modelling in WRF-Chem
6	Graham Mann	New particle formation and indirect climate forcing of regional SO_2 emissions
7	Helen Macintyre	Heterogeneous chemistry in the troposphere
8	Howard Roscoe	The NERC-funded project PSCs in UKCA – project rationale and definition
9	James Levine	The ice-core record of atmospheric methane: composition-climate interactions on glacial-interglacial timescales
10	Jo Browse	Modelling the Arctic aerosol seasonal cycle: the importance of wet deposition
11	John Marsham	Meteorology of dust uplift in summertime West Africa: implications for dust modelling
12	John Methven	Global conservation in tracer advection models and potential to influence the burden of long-lived chemical species
13	Kathryn Emmerson	UKCA and the stratosphere: the eruption of Mt Pinatubo
14	Kirsty Pringle	A new modal dust scheme for the UKCA model
15	Lindsay Collins	Emulation of a global aerosol model to quantify CCN sensitivity to uncertain parameters
16	Luke Abraham	Chemistry in the Unified Model: Climate-Chemistry Studies with UKCA
17	Maria Russo	Representation of tropical deep convection in atmospheric models – Part 1: Meteorology and comparison with satellite observations
18	Martyn Chipperfield	Climate Change and Ozone Depletion from N_2O
19	Paul Telford	Effects of climate-induced changes in isoprene emissions after the eruption of Mount Pinatubo
20	Peter Knippertz	Towards an Improved Representation of Meteorological Processes in Models of Mineral Dust Emission
21	Robert Thorpe	Evaluation of a year-long integration of AQUM-UKCA for a DEFRA model intercomparison
22	Rosalind West	Estimation of the indirect radiative effects of aerosol on climate using the HadGEM-UKCA aerosol–chemistry climate model
23	Ruth Doherty	Present-day and future ozone-related health impacts in the UK
24	Ryan Hossaini	The contribution of natural and anthropogenic short-lived species to stratospheric bromine
25	Sandip Dhomse	Solar response in tropical stratospheric ozone: A 3D chemical transport model study using ERA reanalyses
26	Tom Breider	Global modelling of bromine chemistry in the troposphere: Observation comparisons and changes to ozone budgets and cloud condensation nuclei formation
27	Wuhu Feng	Modelling studies of metallic layers in the mesosphere using a GCM model