



**National Centre for  
Atmospheric Science**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

## **Fourth Annual Composition-Climate Meeting** Met Office, Exeter, 3-4 April 2014, Conference Room 1 **Oral Programme**

### **Thursday 3 April**

13:00 Lunch with tea/coffee

13:45 Welcome and opening remarks

#### **Session 1: Observations and Aerosol processes (Chair: Ken Carslaw)**

13:50 Hugh Coe (invited) - Up in smoke: Understanding biomass burning aerosol

14:20 Philip Stier - Are remote-sensing retrieved aerosol radiative properties a suitable proxy for CCN?

14:35 Nick Schutgens - Comparing apples and oranges: the Community Intercomparison Suite

14:50 Jonathan Reid - Water transport kinetics in aerosol

15:05 Tea/Coffee

#### **Session 2: Natural Influences on Climate (Chair: Philip Stier)**

15:30 Don Grainger (invited) - Satellite Measurements of Volcanic Products

16:00 Graham Mann - Quantifying the direct and indirect radiative forcings from the Pinatubo eruption

16:15 Ewa Bednarz - The response of chemistry and climate to the 11-year solar cycle in UM-UKCA

16:30 Poster Session

19:30 Drinks Reception followed by Conference Dinner (Mercure Exeter Southgate Hotel)

### **Friday 4 April**

#### **Session 3: Chemical processes (Chair: Fiona O'Connor)**

09:00 Tomas Sherwen - Iodine's Global Effects on Tropospheric O<sub>3</sub> and Perturbations to Key Oxidants

09:15 Oliver Squire - Isoprene as an exemplar of uncertainty in tropospheric oxidant budgets

09:30 Catherine Hardacre - Evaluating dry deposition in atmospheric chemistry transport models

09:45 Xin Yang - Sensitivity of Stratospheric O<sub>3</sub> Recovery to Changes in VSL Bromocarbons

10:00 Douglas Hamilton/Steven Rumbold - UKCA+: Bringing Together Early Career Scientists

10:15 Tea/Coffee

#### **Session 4: Chemistry-Aerosol and Climate Interactions (Chair: Alex Archibald)**

10:40 Ben Booth (invited) - An emerging aerosol role in climate variability

11:10 Laura Wilcox - Influence of Anthropogenic Aerosol on Multi-Decadal Variations of Historical Climate

11:25 Bill Collins (invited) - Climate impact of short-lived climate pollutants

11:55 Masaru Yoshioka - AQ-climate coupling of pollutant emissions in a chemistry-aerosol model

12:10 Apostolos Voulgarakis (invited) - Local and remote climate effects of short-lived pollutant emissions

12:40 Paul Young - The Chemistry-Climate Modeling Initiative (CCMI)

12:55 Closing remarks

13:00 Lunch with tea/coffee