8.30	**Registration and Refreshments**			
9.00	**Welcome and Opening Address**			
9.10	**Keynote Address - Re-Examining the Perplexity of Cyclone Complexity**			
	Dr Helen Dacre, Associate Professor of Meteorology, University of Reading			
9.40	**An Overview of Atmospheric Pollution and Human Health in a Chinese Megacity Research Programme (APHH-Beijing)**			
	Dr Zongbo Shi, University of Birmingham			
10.00	**Causes of Climate Change over the Industrial Period – Understanding the past and predicting the future**			
	Prof Gabriele Hegerl, University of Edinburgh			
10.20	**First Results from the UKESM1 CMIP6 ScenarioMIP Ensemble of Future Projections**			
	Dr Alistair Sellar, Met Office			
10.40	**Tea and Coffee Break**			
11.10	**Parallel Sessions 1**			
	A - Seasonal Predictions	**B - Dynamics**	**C - Interactions**	**D - Earth System Modelling**
	Nick Dunstone	**Ian Phillips**	**Clare Heaviside**	
11.10	**Development, Amplification and Decay of European Summer Weather Patterns Linked to Spring North Atlantic Sea Surface Temperatures**	**Structure, Lifecycle and Environmental Conditions of Tibetan Plateau Vortices**	**Managing Air for Green Inner Cities**	**UKESM1: An Assessment of the Pre-Industrial to Present-Day Anthropogenic Forcing and its Attribution to Different Forcing Agents**
	Dr Albert Ossó, NCAS	Julia Curio, University of Reading & NCAS	Dr Paul Hayden, University of Surrey, AMF, NCAS	Dr Fiona O'Connor, Met Office Hadley Centre
11.30	**The Utility of Seasonal Forecast Information for Drought Risk Assessments**	**ENSO Modulation of MJO Teleconnection to the North Atlantic & Europe and Implications for Subseasonal Predictability**	**On the Influence of Pre- and In-Seasonal Meteorological Conditions on Grass Pollen Interannual Variations in the UK**	**UKESM-Hybrid: Focusing Resolution Where it's Most Needed**
	Dr Matthew Young, University of Reading & NCAS	Dr Robert W Lee, University of Reading & NCAS	Dr Alexander Kurganskiy, University of Worcester	Dr Marc Stringer, NCAS-CMS (University of Reading)
11.50	**Seasonal Forecasts of the 20th Century**	**The Study of Topographic Changes of the Middle Levels of the Atmosphere and its Effect on the Heat Increase in the Middle East**	**Atmospheric Boundary Layer, Atmospheric Stagnation and Air Pollution Relationships Over the Atacama Desert, Chile**	**An Analysis of the UKESM1 CMIP6 Historical Ensemble**
	Dr Antje Weisheimer, University of Oxford, Department of Physics & ECMWF	Prof Nader Parvin, Payame Noor University, Iran	Damián Oyarzun, Environmental Change Research Centre, Department of Geography, UCL	Dr Till Kuhlbrodt, University of Reading & NCAS
12.10	**Volcanic Impacts on Large-Scale Climate Modes in a Multi-Model Ensemble**	**Equatorial Waves and High Impact Weather in South East Asia**	**An Extension of the Online Atmospheric Model WRF-Chem with Bioaerosols at the Species Level**	**Coupled Interactive Fire-Atmospheric Chemistry Model**
	Dr Leon Hermanson, Met Office	Dr Sam Ferrett, University of Reading & NCAS	Prof Carsten Skjoth, University of Worcester	João Teixeira, Met Office & University of Exeter
12.30	**Lunch**			
13.30	**Parallel Sessions 2**			
	A - Seasonal Predictions	**B - Aerosols**	**C - Ozone & Climate**	**D - Regional**
	Adam Scaife	**Briony Turner**	**Till Kuhlbrodt**	
13.30	**The Impact of Strong El Nino and La Nina Events on the North Atlantic**	**The Influence of VOC Mixing on the Formation and Properties of Secondary Organic Aerosols**	**Modelling the Impacts of Ongoing East Asian CFC Emissions on Ozone Recovery**	**Interaction of Convective Organisation with Monsoon Precipitation, Atmosphere, Surface and Sea: Emerging results from the 2016 INCOMPASS field campaign in India**
	Dr Steve Hardiman, Met Office Hadley Centre	Dr M. Rami Alfarra, The University of Manchester & NCAS	Dr James Keeble, NCAS	Dr Andy Turner, University of Reading & NCAS
13.50	**Understanding the Signal-to-Noise Paradox with Nonlinear Dynamics**	**Observations Of Highly Oxygenated Molecules and New Particle Formation In Urban Atmospheres**	**Towards Improved Characterisation of the Impact of Chlorinated VSLSs on Atmospheric Chemistry and Climate**	**Airmass Analysis of the Processes Driving the Progression of the 2016 Indian Summer Monsoon**
	Prof Tim Palmer, University of Oxford	James Brean, University of Birmingham	Dr Ewa Bednarz, Lancaster University	Dr Ambrogio Volonté, NCAS - Climate & University of Reading
14.10	**Attribution of 2012 Extreme Climate Events: Does air-sea interaction matter?**	**Aerosol Sources in Delhi drived from Eddy-Covariance Flux Measurements and Concentration Analysis**	**Machine Learning Parameterizations for Ozone in Climate Sensitivity Simulations**	**Transport Resilience to Weather in Rio de Janeiro, Brazil**
	Dr Buwen Dong, NCAS-Climate, University of Reading	Dr Eiko Nemitz, Centre for Ecology and Hydrology	Dr Peer Nowack, Imperial College London	Dr Emma Ferranti, University of Birmingham
14.30	**Refreshments**			
15.00	**Poster Session**			
16.00	**Keynote Address - UK Emissions from Novel Sources**			
	Prof Frank Kelly, King's College London			
16.30	**Potential Benefits of Cool Roofs in Reducing Heat-Related Mortality During Heatwaves in a European City**			
	Dr Helen L Macintyre, Public Health England & University of Birmingham			
16.50	**Increased Shear in the North Atlantic Upper-Level Jet Stream over the Past Four Decades**			
	Prof Paul D. Williams, University of Reading			
17.10	**Simulating the Climate Response to Atmospheric Oxygen Variability in the Phanerozoic**			
	Dr Alexander T. Archibald, University of Cambridge & NCAS/Met Office			
17.30	Conference closes day 1			
19.30	Conference Dinner			

8.30	**Registration and Refreshments**			
9.00	**Welcome to Day 2**			
9.05	**Keynote Address - Global Intensification in Observed Short-Duration Rainfall Extremes**			
	Prof Hayley Fowler, Professor of Climate Change Impacts, Newcastle University			
9.35	**Isoprene Measurements in an Oak-Dominated Forest during the 2018 Heatwave in the UK**			
	Dr Valerio Ferracci, Cranfield University			
9.55	**Measurement and Modelling of Physico-Chemical Properties and Atmospheric Behaviour of Automotive Diesel Particles**			
	Prof Roy Harrison, NCAS, University of Birmingham, UK and King Abdulaziz University, Saudi Arabia			
10.15	**Unsupervised Classification of Convective Organisation with Deep Learning**			
	Dr Leif Denby, University of Leeds			
10.35	**Tea and Coffee Break**			
11.05	**Workshops**			
11.10	**Urban and Regional Air Quality**	**Climate Services**	**Machine Learning in Earth Sciences**	
11.30				
11.50				
12.10				
12.35	**Lunch**			
13.10	**Poster Session**			
14.10	**Parallel Sessions 3**			
	A - Climate Variability	**B - Atmospheric Chemistry**	**C - Africa**	**D - Convection & Storms**
	Richard Allan	**Tomas Sherwen**	**Emily Black**	
14.10	**Assessing External and Internal Sources of Atlantic Multidecadal Variability using Models, Proxy Data and Early Instrumental Indices**	**Measurements from the Manchester Time of Flight Chemical Ionisation Mass Spectrometer on the FAAM Bae 146 Research aircraft**	**Validation of TAMSAT-Derived Soil Moisture using NDVI**	**Radar Applications in Northern Scotland (RAiNS)**
	Dr Christopher H. O'Reilly, Atmospheric, Oceanic & Planetary Physics, University of Oxford	Dr Thomas J Bannan, University of Manchester	Dr Vicky Boult, Department of Meteorology, University of Reading	Dr Ryan Neely lll, University of Leeds & NCAS
14.30	**Quantifying the Effect of Asian Circulation Biases on the Climate Responseto Aerosol Forcing**	**Analysis of tropospheric NO_2, HCHO, HONO and O_3 from three years of remote and urban MAX-DOAS measurements in Australasia**	**Regional Mechanisms for the "East African Paradox" Rainfall Decline and Recent Recovery**	**Covariance of Storm Hazards in the Atlantic Basin**
	Dr Laura Wilcox, University of Reading & NCAS	Robert Ryan, The University of Melbourne, Australia	Dr Caroline M. Wainwright, University of Reading	Dr Michael Angus, University of Birmingham
14.50	**Reconstruction of the Southern Annular Mode from Ships' Logbooks and other Historical Observations**	**Ammonia in the 21st Century: Challenges for Measurements and Mitigation**	**Quantifying Shifts in the Seasonality of Rainfall Across South Africa**	**High-Resolution Weather Research and Forecasting (WRF) Simulations of Ice Crystal Icing Events and the Risk to Aircraft**
	Dr Julie M Jones, University of Sheffield	Dr Christine Braban, Centre for Ecology & Hydrology	Sarah Roffe, University of Witwatersrand	Dr Daniel Bannister, SATAVIA
15.10	**Examining the Role of Aerosol Forcing in Driving Global Climate Variations using a Novel Large Ensemble of Historical Simulations**	**How Does the Formation Mechanism of Atmospheric Aerosol Particles Affect PM2.5 Toxicity in Urban Environments?**	**Title TBC**	**Slope-Driven Convection: Present Understanding, Open Questions, and Challenges for Numerical Weather Prediction Models.**
	Dr Andrea Dittus, University of Reading & NCAS	Steven Thomson, University of Birmingham	Speaker TBC	Prof. Dino Zardi, Atmospheric Physics Group, Department of Civil, Environmental and Mechanical Engineering, University of Trento, Italy
15.30	**Refreshments**			
16.00	**Long Range Predictability of Atmospheric Angular Momentum**			
	Prof Adam Scaife, Met Office Hadley Centre / University of Exeter			
16.20	**State of the UK Climate 2018**			
	Michael Kendon, Met Office & National Climate Information Centre			
16.40	**Keynote Address - Climate Science Needs to Take Risk Assessment Much More Seriously**			
	Prof Rowan Sutton, University of Reading & NCAS			
17.10	Closing Remarks			
17.15	Close of conference			