

Day 1: 11th September - Conference Auditorium 2			
8:30 -9:00 Registration and cloak room access for luggage			
9:00- 9:30 Introduction (Andy Challinor)			
Session 1: Answering impacts questions with climate models (Chair: Hayley Fowler and Dann Mitchell)	9:30-10:00	Julia Slingo	Latest advances in climate modelling to underpin risk assessments
	10:00-10:20	Simon Tett	The 2018 Scottish Heatwave: drivers and implications for climate change adaptation
	10:20 - 10:40	Michael Sanderson	The effect of climate model calibration on projections of heat-related mortality for ten cities.
	10:40-11:00	Ann-Kristin Koehler	Representation of flash drought in climate models and its impact on crop yield in south-east China
	11:00-11:30 Tea and Coffee		
	11:30-11:50	Hayley Fowler	Strong intensification of hourly rainfall extremes by urbanization
	11:50-12:10	Oliver Heidrich	Detecting triggers of change for transition to resilient cities
	12:10-12:30	Tom Locatelli	FOSPREF-Wind: A portable FOSS platform and modelling chain to aid in wind risk forest management under a changing climate
12:30-13:00	<i>Panel Discussion</i>		
13:00 - 14:00 Lunch and Poster Session			
Session 2: Interacting and transboundary risks (Chair: Andy Challinor)	14:00-14:30	Neil Morisetti	How to help governments fully understand, and act to reduce, the risks associated with a changing climate
	14:30-14:50	Kathrine Thorogood and Chris Rees (WSP)	Interacting risks within the built environment, natural environment and infrastructure sectors: Evidence in support of the third UK CCRA
	14:50-15:10	Stewart Jennings	AFRICAP Diets, Impacts, Mitigation modelling methods
	15:10-15:40 Tea and Coffee		
	15:40-16:00	Sam Varvastian	Climate science in courts: 30 years of experience
	16:00-16:20	Pauline Scheelbeek	Resilience of UK fruit and vegetable supply: threats to supply our "5-a-day"?
16:20-16:50	<i>Panel Discussion</i>		
17:00 Drinks Reception			
<p><i>Evening workshop discussion on modelling for UK impact facilitated by Pete Faloon, Met Office: We will also hold a side-session on forming a UK climate-crop modelling capability for impact assessments on food security, which aims to a) bring together key expertise in crop-climate modelling (including models, indices, metrics and datasets across space/time scales); b) facilitate coordinated participation in MIP projects, and c) deliver robust assessments of climate impacts on UK food security. This activity would help to deliver improved present and future assessments of climate-related risks, opportunities and adaptation needs for crops, and make key contributions to the Climate Change Risk Assessment, IPCC Assessment Reports and related outcomes. To participate, please email: pete.faloon@metoffice.gov.uk</i></p>			

Day 2: 12th September - Conference Auditorium 2			
8:30 -9:00 Registration and cloak room access for luggage			
Session 3: Assessing and managing climate-related risks to build resilience in the UK (Chair: Suraje Dessai and Richard Betts)	9:00-9:20	<i>SPF UK Climate Resilience Programme: Suraje Dessai, Kate Lonsdale and Jason Lowe</i>	
	9:20-9:50	Jim Hall	Climate risks to national infrastructure systems
	9:50 - 10:10	Eunice Lo	Future Urban Heat Island (UHI) effect in England
	10:10-10:30	Zhiwen Luo	Indoor heat exposure in London during July 2018 heatwave
	10:30-10:50	Alison Kay	A web-tool to explore the potential impacts of climate change on peak river flows in Great Britain
	10:50-11:20 Tea and Coffee		
	11:20-11:40	Maria Pregnolato	Assessing bridge vulnerabilities and failures due to flood-induced phenomena
	11:40-12:00	Liz Cornwell, Chris Counsell and Ralph Ledbetter	Translating climate science into water resource planning and management - the practitioners' experience
	12:00-12:20	Susan Davies	Risk management against the threat of drought impacts on the Scottish timber industry
	12:20-12:40	Charles Ffoulkes	Metrics and indicators to assess and track changes in climate change risks and adaptation
12:40-13:00	Jason Lowe	UKCP18: towards high resolution projections	
13:00 - 14:00 Lunch and Poster Session			
Session 4: Researching climate impacts and resilience in the Global South (Chair: Gerard Howe and Helen Coskeran)	14:00-14:30	Declan Conway	Climate impacts and water security – what's different for the Global South?'
	14:30-14:50	Ajay Bhawe	Using a Water Evaluation And Planning (WEAP) model to assess future risks related to outflows from Lake Malawi
	14:50-15:10	Stephen Whitfield	Agricultural and Food-system Resilience in sub-Saharan Africa
	15:10-15:30 Tea and Coffee		
	15:30-15:50	Ben Smith	Financially sustainable climate services for the Kenyan Potato sector
	15:50-16:10	Peter Uhe	Modelling changes in flood risk in the Ganges-Brahmaputra-Meghna
	16:10-16:30	Sumit Sinha	Examining the limitations and impacts of fertilizer application on crop yield in global south: insights from process-based numerical model
16:30-17:00	<i>Panel Discussion</i>		
17:00 Departure			

Session Descriptions

Session 1: Answering impacts questions with climate models (Chair: Hayley Fowler and Dann Mitchell)

Climate models contain a wealth of information that characterise the atmospheric states that lead to climate impacts and risk. Teasing out this information is not trivial and a range of methods are available:

- 1) Climate model ensembles can be used with impacts indicators, such as flooding or heat stress and results analysed in order to determine the location of impacts and the associated rates of change;
- 2) Climate ensembles can be used with impacts models, as a part of a chain; and
- 3) An integrated assessment model may be used.

This session examines the questions that can be asked of climate and impacts models, and asks which combination of models is best suited to answering those questions.

Session 2: Interacting and transboundary risks (Chair: Andy Challinor)

Climate risk assessment is a field that seeks to frame climate impacts in a way that informs political and societal decisions, including both mitigation and adaptation. Methods to date, which have produced useful results, focus largely on single risks. However, the complex multiple causal pathways that act across space and time to determine risk present a challenge for risk assessment, especially when risks are transmitted across sectors and international boundaries. In these situations, understanding the interconnected nature of systemic risks – and their amplification or attenuation through social processes and responses – is critical. This sessions examine progress in assessing interacting risks, including, but not limited to, use of expert judgement; interactive scenario building; global systems science and big data; innovative use of climate and integrated assessment models; and methods to understand societal responses to climate risk

Session 3: Assessing and managing climate-related risks to build resilience in the UK (Chair: Suraje Dessai and Richard Betts)

There is an urgent need to build resilience to climate variability and change in the UK. Informing the extensive preparations needed to manage climate-related risks, avoid damages, and realise emerging opportunities, is a grand challenge for climate change science. This session invites submissions on characterising and quantifying climate-related risks, which could include new methods, new sectoral knowledge and place-based assessment; and submissions on the management of climate-related risks to build resilience - which could include the examination of adaptation barriers and governance, the effectiveness of adaptation strategies and transformational change.

Session 4: Researching climate impacts and resilience in the Global South (Chair: Gerard Howe and Helen Coskeran)

This session will feature ODA-compliant research that:

- 1) Addresses the impact of climate change on infrastructure, energy, health, agriculture and a range of other areas in the Global South
- 2) Analyses the effectiveness of adaptation and mitigation responses to climate impacts including collaborations between academia and the private sector/civil society
- 3) Assesses resilience to climate change and recommends means to improve this through policy and practice, including analysis of (lack of) adoption by communities in the Global South of recommended responses

By mapping out ongoing research in this area across a range of disciplines including the social sciences, the session will foster debate on how multidisciplinary research through initiatives like the Global Challenges Research Fund complements and interacts with climate modelling and impact work; and the gaps that remain in the UK landscape for ODA-funded climate research