



The role for climate services in handling climate change risk: Contributions of UKCP18

Imperial College London - Lecture theatre G16, Sir Alexander Fleming building

Wednesday 20 February 2019, 2.00pm – 6.00pm

The new UKCP18 scenarios are designed to help inform the management of future risks from climate variability and change. UKCP18, produced by the Met Office, Defra and the Environment Agency, provides new probabilistic estimates of the ranges of future climate change that are projected for UK land areas for a number of different potential future emission scenarios. A new set of global climate model projections provide plausible storylines of future climate, running to the end of the 21st century. A subset of the global projections has been downscaled to the finer scale of 12km over the UK and Europe. Later, the 12km simulations will be supplemented with simulations from a new convective permitting model at 2.2km. Updated sea level projections have been produced for time-average changes and changes in water level extremes, including storm surges and waves.

There has been significant user engagement with UKCP18 from the start of its development; including tailoring the guidance that accompanies the projections so they better match user needs, and testing the knowledge and data delivery systems. Users have also produced demonstration studies of how they aim to use UKCP18 since its launch in November 2018

This meeting will explore how the UKCP18 climate tools were produced, including their strengths and limitations. It will showcase examples of how users are starting to exploit UKCP18 results and consider their plans for use ahead of the next UK climate change risk assessment. It will also consider the need and opportunity for alternative approaches to generating decisions–relevant climate projections.

14.00	Welcome	Prof Liz Bentley FRMetS RMetS
14.05	Introduction to climate services: Projections	Prof Sir Brian Hoskins FRMetS University of Reading and Grantham Institute
14.25	What do policymakers need from climate projections?	Baroness Brown (Julia King) Chair of Adaptation Committee of CCC
14.50	New UK Climate projections data: What is UKCP18?	Prof Jason Lowe Met Office Hadley Centre and UKCP18 Project team
15.15	What does UKCP18 say about land and marine projections?	James Murphy Met Office Hadley Centre and UKCP18 Project team Dr Matt Palmer Met Office Hadley Centre and UKCP18 Project team
15.40	Q & A	
16.00	UKCP18 demo projects poster session and refreshment break	Assessing climate change risk in Yorkshire - Dr Ben Rabb University of Leeds Coastal cliff recession under climate change – Dr Mike Walkden WSP Future surface water flood hazard risk - Dr Fiona McLay SEPA Thermal performance of buildings – Dr Anastasia Mylona CIBSE Water resources and drought planning - Chris Counsell HR Wallingford
16.25	Comparing different approaches for tackling climate risk	Dr Fiona Harrison (Chair) Defra Prof Nick Pidgeon Tyndall & Cardiff University Prof Jason Lowe Met Office Prof Suraje Dessai University of Leeds Liz Parkes Environment Agency
17.15	What does UKCP18 mean to the practitioner and academic community	Dr Mike Morecroft Natural England Dr Geoff Darch Anglian Water Dr Ella Howes CEFAS
17.50	Meeting summary	Prof Sir Brian Hoskins FRMetS University of Reading and Grantham Institute
18.00	UKCP18 demo projects poster session and drinks reception	Posters as above

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This meeting is part of the Royal Meteorological Society National Meetings programme, open to all, from expert to enthusiast, for topical discussions on the latest advances in weather and climate. Non-members are welcome to attend these meetings.