



Informing the vision of a low-carbon future

Jason Lowe, Met Office Hadley Centre and University of Leeds Priestley Centre

Abstract

In this seminar I will discuss the findings of the AVOID programmes, which were designed to support UK Government with evidence and tools for developing and deploying its climate policy. This will include consideration of: climate pathways and how well they sample the range of outcomes; potential impacts of future climate change and the fraction that might be avoided through mitigation; and issues related to the feasibility of emission reductions. I will also discuss the follow-up work to AVOID that looks at a more ambitious climate target of limiting global mean warming below 1.5°C above pre-industrial levels. As part of this, I will bring in some of the findings from the recent NERC-BEIS 1.5C programme. Since mitigation alone is unlikely to avoid all of the potential damages from future climate change, I will describe progress to equip the UK with new scientific understanding and tools to quantify climate risks in the UK, including the UKCP18 scenarios that will be launched later this year.

Bio

Professor Jason Lowe is Deputy Director of Met Office Hadley Centre and Head of Climate Services. He is Chair of Interdisciplinary Climate Research in the Priestley Centre. Prof. Lowe has played a major role in developing policy relevant science, including designing several of the Met Office Hadley Centre Climate Programmes. He also leads the development of the UKCP18 projections. His work covers a range of climate science subject areas, from underpinning research on non-linear climate change and amplification of feedbacks due to earth system processes, through to impacts and the application of the science.

Tyndall Manchester Seminar Series

2nd October 2018, 1.00 pm, Lecture theatre C21, Pariser Building

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