Modelling challenges in understanding weather change

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Meaningfully mitigating global climate change as well as adapting to changes that are already unavoidable requires information about the future of our weather decades ahead at local granularity, globally. It also requires us to understand how the weather systems that produce the local weather, are affected by and are affecting the larger scale changes in the climate system.

This leads to new challenges for weather and climate science in general and for weather and climate modelling in particular. This presentation will discuss some of these challenges and how our community may come together to build modelling systems to meet them.