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TOWARDS NEXT GENERATION CLIMATE PREDICTION

With rapid changes in climate affecting large parts of the globe, the need to skillfully predict climate from a few weeks to years into the future has never been so urgent. Fortunately, climate predictions have improved over the recent years, and they are now even skillful in the extra-tropics and on multi-annual timescales. In particular, the Atlantic Ocean offers the potential to predict high-latitude and Eurasian climate on multi-annual timescales. In this presentation, I will summarize recent developments in climate prediction focusing on Atlantic, Arctic, and Eurasian regions. I will discuss advanced data assimilation and supermodelling techniques that promise further improvements in climate prediction.