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## **Beyond bulk cloud top quantities: A climate perspective on using satellite observations (and assimilation) to better inform cloud simulation**

*Tuesday, 4 February 2020 15:15 (25 minutes)*

The challenges of cloud modeling in large scale models and for climate time scales (sub-seasonal to centuries) will be explored. Key problems related to clouds in longer term climate prediction include extreme precipitation, climate forcing and cloud feedbacks. Satellites provide a wealth of data on clouds that are used for evaluation of models in many different ways. Examples of innovative approaches to using data will be shown, with a discussion of the current generation of passive and active sensors, as well as some prospects for the future observation systems, and how they can be better integrated with models for weather and climate.

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**Session Classification:** Session 2: Cloud and precipitation modelling

**Track Classification:** 4th workshop on assimilating satellite cloud and precipitation observations for NWP