4th workshop on assimilating satellite cloud and precipitation observations for NWP



Contribution ID: 35 Type: Oral presentation

Space-based Cloud & Precipitation Observing Systems in the 2020-2040 Period

Monday, 3 February 2020 12:15 (40 minutes)

In this presentation, we will go over the evolution of the collective capability to observe cloud and precipitation from space-based observing systems, as planned or envisioned by major international space agencies. We will highlight potential gaps if any and assess its compatibility with the evolution of the global NWP requirements. Both research and operational missions will be explored, as well as potential missions of opportunities from non-governmental entities. We will attempt to cover capabilities from microwave (active and passive) as well as infrared sensors. The capabilities that will be covered in this presentation will include the ability to measure the suspended cloud and the precipitating water in all phases but will also cover the additional characteristics that are critical for meteorological and hydrological applications such as global NWP: these include temporal update rate, spatial coverage, footprint resolution and vertical resolution. We will be targeting the 2020-2040 timeframe when assessing the capabilities.

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