

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



Contribution ID: 58

Type: **Poster presentation**

# Assimilating all-sky Himawari-8 radiances in the heavy rainfall event on 23 August 2018 in Taiwan

Assimilating all-sky Himawari-8 radiances in the heavy rainfall event on 23 August 2018 in Taiwan

Takumi Honda, Shu-Chih Yang, and Takemasa Miyoshi

In August 2018, a tropical depression stayed near Taiwan and induced heavy precipitation over the southwest region of Taiwan. Detailed evolution of this depression was well captured by the Himawari-8 geostationary satellite of the Japan Meteorological Agency. Previous studies have investigated impact of all-sky assimilation of Himawari-8 radiance observations on predicting rapid intensification of a typhoon over the ocean and typhoon-associated precipitation. However, it is an open question if Himawari-8 observations can improve the prediction of tropical depression and associated precipitation in a warm and moist environment. This study aims at exploring the impact of assimilating all-sky Himawari-8 observations on the analyses and forecasts of the heavy rainfall event on 23 August 2018, in Taiwan.

**Primary authors:** HONDA, Takumi; Prof. YANG, Shu-Chih (National Central University, Taiwan); MIYOSHI, Takemasa (RIKEN)

**Presenter:** HONDA, Takumi

**Session Classification:** Poster session with self-serve tea and coffee

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