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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

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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.

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