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Pre-Operational Validation of AHI on Himawari-9, in navigation and calibration.

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Japan Meteorological Agency (JMA) is planning to switch the operational geostationary meteorological satellite over from Himawari-8 to Himawari-9 on 13 December 2022.

Himawari-8 data have been contributing to prevention and mitigation of weather-related disasters in East Asia and Western Pacific regions since 7th July 2015, its commencement of the operation. Himawari-9, which was launched on 2nd November 2016 and has been on standby in orbit as a backup of Himawari-8, will take over the role of Himawari-8 as an operational satellite.

Himawari-9 is equipped with the Advanced Himawari Imager (AHI), which is the same specification as Himawari-8.

Accurate image navigation and radiometric calibration are essential for the meteorological missions.

The previous test observations have revealed that the accuracy in navigation and calibration is almost the same as Himawari-8, and it will be validated and tuning again by pre-operational observation.

This presentation introduces the preliminary results from the pre-operational observation of Himawari-9, including the satellite operation status, the image navigation, and the radiometric calibration.