

A preliminary initial check of the cloud discrimination products by CAI-2 onboard GOSAT-2

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GOSAT-2, which is a successor of Japanese GOSAT (Greenhouse Gases Observing Satellite) which was launched in January 2009 and has been operated for about ten years, is successfully launched on Oct. 29, 2018. Both satellites are jointly developed and operated by Ministry of the Environment, Japan Aerospace Exploration Agency, and National Institute for Environmental Studies. GOSAT-2 carries two mission instruments, Fourier Transform Spectrometer 2 (FTS-2) and Cloud and Aerosol Imager 2 (CAI-2). They are successors of GOSAT FTS and CAI.

Several publicly available standard products will be generated from GOSAT-2 FTS-2 and CAI-2 data. One of these is CAI-2 Level 2 Cloud Discrimination Product and will be used for the detection of clouds within the field of view of FTS-2. CAI-2 cloud discrimination product is generated by one of two different algorithms. One of those is CLAUDIA1 used for GOSAT CAI Level 2 cloud mask product and the other is newly developed CLAUDIA3. And CLAUDIA3 is default algorithm for CAI-2 cloud discrimination product generation.

In this presentation, we will present a very preliminary initial check results of CAI-2 Level 2 cloud discrimination products, including comparison of cloud discrimination results by CLAUDIA1 and CLAUDIA3.

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