

地上雨量計を併用した衛星からの高時空間分解能全球降水マップ (GSMaP_Gauge) Gauge Adjusted Global Satellite Mapping of Precipitation (GSMaP_Gauge)

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Precipitation is one of the most important parameters on the earth system, and the global distribution of precipitation and its change are essential data for modeling the water cycle, maintaining the ecosystem environment, agricultural production, improvements of the weather forecast precision, flood warning and so on. The GSMaP_MVK is a product of surface rainfall rate with 0.1 degree and 1 hour resolution on a global basis using the data from microwave radiometers on low earth orbit and infrared radiometers on geostationary orbit, and has been widely used through internet. However, some validation results from the hydrological model show that the GSMaP_MVK sometimes underestimates the surface rainfall rate. In this presentation, the GSMaP_Gauge which is a gauge adjusted product to the GSMaP_MVK for climatological studies are introduced, focusing particularly on structure and performance of the algorithm and some initial evaluation tests. Additionally, the concept and theoretical basis of the near real time product of the GSMaP_Gauge named as GSMaP_Gauge_NRT is introduced.

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