

## Development status of the GCOM-W1 AMSR2 research products

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Japan Aerospace Exploration Agency (JAXA) has operated the Advanced Microwave Scanning Radiometer 2 (AMSR2) onboard the GCOM-W satellite launched in May 2012. In this mission, 8 geophysical values (water

vapor, cloud liquid water, precipitation, sea surface temperature, sea surface wind speed, sea ice concentration, snow depth, and soil moisture) were defined as the standard products, and these are released to the public since May 2013.

On the other hand, several research products (e.g., land surface temperature, vegetation water content, sea

ice motion vector, thin sea ice detection, and high-resolution sea ice concentration) as a candidate of a future

standard product were officially defined in March 2015. Based on it, we started to implement algorithms to create the research products from the AMSR2 data, and obtained the initial validation results. In this paper, we present the current status of GCOM-W AMSR2 research products.

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