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Validation of Soil Moisture Estimation by AMSR-E in the Plateau

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Abstract

During the summer of 2000, the monitoring of the water cycle using term monitoring data began to be used as ground truth for ADEOS Observing Satellite-II) /AQUA validation in the study area (160 km Mongolian Plateau. Since 2002, the AMSR-E (Advanced Microwa Radiometer for EOS) has successfully monitored the surface soil may In this study, we have attempted to validate the AMSR-E standard using the JAXA standard product data (Ver. 5.0) of the AMSR-E and ground-based long-term monitoring data in the study area from Although the standard product slightly overestimated the soil moists was found between the AMSR-E soil moisture product and the gro in Mongolia, and a reasonable matching of the change and distribution between them was found. The results suggest that the quality of the AMSR-E is good and basically useful for surface soil moisture mon of the steppe.

Keywords: soil moisture, AMSR-E, validation, water cycle, Mong



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