

# **Evaluation of Multiple Satellite Microwave Precipitation Products over Northern China during Cold Seasons**

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Multiple international satellite microwave precipitation products all include solid precipitation parameters, such as the GPM 2ADPR product, passive microwave precipitation products based on the GPROF algorithm, and passive microwave precipitation products based on the MIRS algorithm. Based on the ground meteorological observation data of China, this paper carries out the performance analysis of these three kinds of precipitation products for several cold-season precipitation events that occurred in northern China in 2021. Among them, GMIGPROF orbital product, as a representative of GPROF algorithm, and NOAA20 ATMS orbital product, as a representative of MIRS algorithm, participate in the result analysis.