



Current Status of Japan's Global Precipitation Mission (GPM) Activity

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Global precipitation measurement is essential not only for the research of the global change but also for the water resources management. The basic concept of the GPM is to provide three hourly global precipitation map using eight constellation satellites equipped with microwave radiometers and a core satellite equipped with a dual-wavelength radar (DPR) and a microwave radiometer. The role of Japan for the space segment of GPM is development of DPR which is an essential sensor for GPM. The algorithm for DPR is under development. The basic idea is to fully utilize the additional information from Ka-radar. Data combination with the microwave radiometer is also under investigation. Japan is also encouraging Asian countries to participate in GPM.