

Possible New Directions For Precip Measurement

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- Development of new technologies for low-cost, low-frequency (10-37 GHz) radiometers
 - Critical complement to MW sounders & high-frequency radiometers
- Addition of hyperspectral MW sounding to GMI-like radiometer
 - Likely soon to be commercially available
 - GSFC also working on instrument concept for temp, humidity, and PBL sounding
- W-band cloud radar in formation flight with Ku-band radar
- Sub-mm channels for ice cloud characteristics
- Combination of soil moisture and GMI-like radiometer
 - Improved sfc emissivity for precip retrievals
 - Improvements to flood/landslide forecasts

