

Global Precipitation Measurement

*System Requirements Review
Technical Risk Assessment*

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- ***Calibration and error characterization across the constellation***
 - *Ground validation*
 - *Can measurements from the ground be matched with spacecraft measurements?*
 - *Can measurements at a few sites be extrapolated to the whole planet?*
 - *How accurate can ground measurements be?*
 - *Orbit crossings between primary spacecraft and constellation spacecraft*
 - *Infrequent – with precipitation they will be rare*

- ***Primary Spacecraft Mass***
 - *Launch mass allocation is still uncertain*
 - *Payload mass is greater than TRMM, but launch allocation will be less than TRMM*
 - *Design studies show that target launch mass (3200 kg) is achievable*
 - *Descopes are available (auxiliary payload)*
 - *Japan controls most of the instrument mass and the launch allocation*
 - *In-house build gives us some flexibility*

