

On requirements for a satellite mission to measure tropical rainfall

Goddard Space Flight Center - On the Tropical Rainfall Measuring Mission (TRMM)



Description: -

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Noise -- Measurement

Vehicles -- Noise

Automobiles -- Noise

Tropical meteorology

Remote sensors

RainOn requirements for a satellite mission to measure tropical rainfall

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Notes: Bibliography: p.44-49.

This edition was published in 1987



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Tags: #TRMM #Instruments

TRMM (Tropical Rainfall Measuring Mission)

We compared the histograms from each 0.

On requirements for a satellite mission to measure tropical rainfall

CERES monitors a variety of cloud properties, prevalence, altitude, thickness, and the size of cloud particles.

A Comparison of Gamma and Lognormal Distributions for Characterizing Satellite Rain Rates from the Tropical Rainfall Measuring Mission in: Journal of Applied Meteorology and Climatology Volume 43 Issue 11 (2004)

In most areas, including the tropics, most rainfall results from cold clouds, i. The minimum value is set to 0.

TRMM: Tropical Rainfall Measuring Mission

And the lower the IR brightness temperature, the higher the cloud top, and the more likely the rainfall. It's like a three-dimensional view.

The Tropical Rainfall Measuring Mission (TRMM) Sensor Package in: Journal of Atmospheric and Oceanic Technology Volume 15 Issue 3 (1998)

The earth science data in each scan line will consist of latitude and longitude values along with brightness temperatures for the 208 EFOVs at 85 GHz and 104 EFOVs at all the remaining lower-frequency channels. There are currently six CERES instruments on satellites orbiting Earth and taking data. Thirty-two pairs of pulses are transmitted for each of 49 angle bins with the angle-bin interval of 0.

A Comparison of Gamma and Lognormal Distributions for Characterizing Satellite Rain Rates from the Tropical Rainfall Measuring Mission in: Journal of Applied Meteorology and Climatology Volume 43 Issue 11 (2004)

Both distributions fail to find a fit when the mean rain rate is less than approximately 0. NASA and JAXA are now planning a new satellite mission for 2013 called the Global Precipitation Measurement mission. CERES data can also be used for assessing the radiative effects and climatic impact of natural disasters like volcanic eruptions, major floods and droughts.

Tropical cyclone rainfall area controlled by relative sea surface temperature

Note the caveat above that future changes in input data sets for the constellation members could affect the amount of microwave data.

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