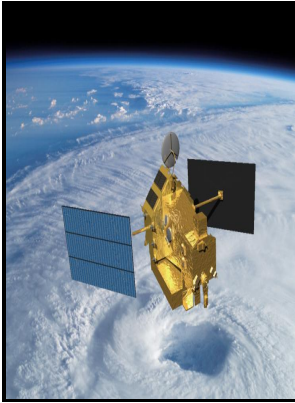


# On requirements for a satellite mission to measure tropical rainfall

Goddard Space Flight Center - Hurricanes: Science and Society: Satellites



Description: -

-

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



Filesize: 5.105 MB

Tags: #The #Tropical #Rainfall #Measuring #Mission #(TRMM)

## CiteSeerX — POTENTIAL ROLE OF DUAL

The tropical oceans near the Equator show intense thunderstorms. Together with the latent heating derived from the precipitation, a significantly improved picture of the atmospheric energy system can emerge.

### Mission Overview

As we might expect, the colder regions near the poles are blue, while the much warmer tropics are red. They also completed the integration of all the scientific instruments onboard. We use data products such as these to validate the accuracy of our Earth energy estimates.

### The Tropical Rainfall Measuring Mission (TRMM)

On the other hand, active microwave sensors radars provide specific height information based upon the time delay of the precipitation-backscattered return power. The attached files are our the First Light images full 24-h period of data collection.

### TRMM: Tropical Rainfall Measuring Mission

However, upon restoring operational power, it was observed the degradation continued at a greater rate than when powered off, therefore the asymptotic point for the degradation has not been reached. By carefully measuring the minute amounts of microwave energy emitted by the and , TMI was able to quantify the , the water, and the rainfall intensity in the.

### Satellite

All tests are being conducted at 30V, while the expected range of converter output voltage is 23-29V to these parts when the voltage converter completely loses regulation.

## **Mission Overview**

If this trend of 3. Newer versions of these voltage converters eliminate the insulating epoxy layer, and would eliminate any problems with silver migration.

## **Hurricanes: Science and Society: Satellites**

Satellite products were divided into three groups according to their spatial resolution.

## **Precipitation Products**

Keeping a satellite in the same place over the Earth all the time is a great advantage for monitoring weather because the satellite can collect data from the same part of the Earth continuously. The long-term data will provide a basis for scientific understanding of cloud and climate feedback that determines climate variations and trends. Satellites are often described by the instruments they carry.

## Related Books

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