

Kim Wood  
ATMO 529  
Homework #1  
Part 1  
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#### Tropical Rainfall Measuring Mission

<http://trmm.gsfc.nasa.gov/>

<http://daac.gsfc.nasa.gov/data/datapool/TRMM/>

The Tropical Rainfall Measuring Mission (TRMM) is a satellite dedicated to measuring rainfall in the tropics and subtropics, a mission done jointly between NASA and the Japan Aerospace Exploration Agency (JAXA). Two instruments on board are aimed directly at rainfall measurement, the passive TRMM Microwave Imager (TMI) and the active Precipitation Radar (PR). Multiple data products related to TRMM are linked through the NASA website and hosted by the Goddard Distributed Active Archive Center (GES DISC DAAC) on the datapool site (direct link: [http://daac.gsfc.nasa.gov/data/datapool/TRMM/01\\_Data\\_Products/index.html](http://daac.gsfc.nasa.gov/data/datapool/TRMM/01_Data_Products/index.html)). Sensor-resolution orbital data in HDF format from the TMI and PR instruments, from brightness temperatures and radar reflectivity to rain rates and profiles, can be viewed through the TRMM Orbit Viewer, found at [http://disc.sci.gsfc.nasa.gov/precipitation/additional/tools/trmm\\_ov.shtml](http://disc.sci.gsfc.nasa.gov/precipitation/additional/tools/trmm_ov.shtml). Gridded data types, also in HDF format, range from monthly 5-degree TMI (ocean-only) and PR (land and ocean) rainfall rates and related information to 3-hourly 0.25-degree merged TRMM and other satellite estimates.