



The GPM Precipitation Gridded Text Product SET

Erich Franz Stocker (1) and Owen A Kelley (1,2)

(1) NASA/GSFC, Code 610.2, Greenbelt, United States (erich.f.stocker@nasa.gov), (2) George Mason University, Fairfax VA 22038

The Global Precipitation Measurement (GPM) mission provides a suite of daily gridded precipitation retrieval in a text format. The grid is a .25 deg x .25 deg box. The files are packaged as daily files and gzipped for download convenience. Each hourly grid cell precipitation is contained on a single ASCII textline that is terminated with a line feed character. That makes these files easy to ingest into any program that reads space delimited text files. Obviously being ASCII text the files are human readable.

GPM provides three different precipitation gridded text products:

- 1) the first contains GPROF GMI retrievals, KU retrievals, Dual-Frequency Radar retrievals and combined GMI/radar retrievals
- 2) the second contains GPROF retrievals from all the current constellation conically scanning radiometers
- 3) the final contains GPROF retrievals from all constellation cross-track scanning radiometers.

The paper will provide the details of the V05 GPM gridded text products and provide examples of use including potential for undertaking diurnal precipitation studies. It also presents the advantages of using the gridded text products.

Lastly the paper will present plans for the reprocessing of Tropical Rainfall Measuring Mission (TRMM) gridded text products. These were the 3G68 series of products. The papers provides the process of integrating the TRMM gridded text products within the overall GPM data suite.

Once the TRMM reprocessing is complete, users will have a continuous set of gridded text products containing microwave precipitation retrievals, Ku radar precipitation retrievals and combined precipitation retrievals from January 1998 through the present time.