How to get Access to GPM GMI NRT Data

The Joint Precipitation Measurement Missions (PMM) Science Team (JPST) has authorized the public release of GPM GMI brightness temperature and retrieval products. These are available to all once they are registered.

All users of GPM near realtime (NRT) data must be registered with the Precipitation Processing System (PPS). The registration process is simple, automated and described in step 1 below:

1   Registering

   1.1   Point your web browser to http://registration.pps.eosdis.nasa.gov
   1.2   Fill out the simple form indicating whether you want access to regular production data, NRT data or both and submit your form.
   1.3   Soon after you submitted your request, a confirmation email will be sent to the email that you registered.
   1.4   Click on the link in the email to confirm your registration
   1.5   Once having confirmed the registration, you are an registered user. There might be a lag in your access to NRT as the confirmation is sent to the NRT subsystem. Currently we believe the lag might be up to an hour but this will be reduced when the data is made fully public.

2   Once Registered use an ftp command to
   2.1   jsimpson.pps.eosdis.nasa.gov
   2.2   username: the registered email
   2.3   password: the registered email
   2.4   cd NRTPUB
   2.5   In NRTPUB, you will see the subdirectories:
      2.5.1   1C (GPM 1C files for all radiometers)
      2.5.2   GMI1B (GMI 1B Tb files)
      2.5.3   GPROF (GPM GPROF precipitation retrievals for all radiometers)

   2.6   1C directory has following subdirectories
      2.6.1   AMSR2
      2.6.2   ATMS
      2.6.3   GMI
      2.6.4   MHS
      2.6.5   SAPHIR
      2.6.6   SSMIS
      2.6.7   TMI
   2.7   GPROF directory has following subdirectories:
      2.7.1   AMSR2
      2.7.2   GMI
      2.7.3   MHS
      2.7.4   SSMIS

      2.7.5   TMI

2.8   The directories have a flat listing of the files that are stored in them. Files are maintained on the NRT server for 7 days only and then erased. By this time the standard science would be available for users to retrieve.

3 The NRT system is setup primarily to provide ftp access and no web interface is placed on top of the data. However, users can use URL: ftp://jsimpson.pps.eosdis.nasa.gov and get a graphical look on top of the data.

    3.1   There is no query or search service. All the data available is online and available in the directories described above.

    3.2   There is no data-ordering service. If you want the data, just download it via a script or right click the file name in your browser

4 GPM NRT granules

    4.1   NRT data is maintained for 7 days online and is then erased. Standard research products should be available by that time.

    4.2   GMI NRT products, 1B, 1C, and GPROF, are 5 minute granules

    4.3   Partner radiometer data 1C and GPROF are as provided by the partner

    4.4   ATMS NRT products are 1 hour granules

Because access is actually anonymous ftp, in spite of requiring the use of a user name and password, Linux users can put their registered email address into their .netrc file and then scripts can access the data without being prompted for user name and password.   Remember the registered email address is both your user name AND your password to jsimpson.pps.eosdis.nasa.gov