

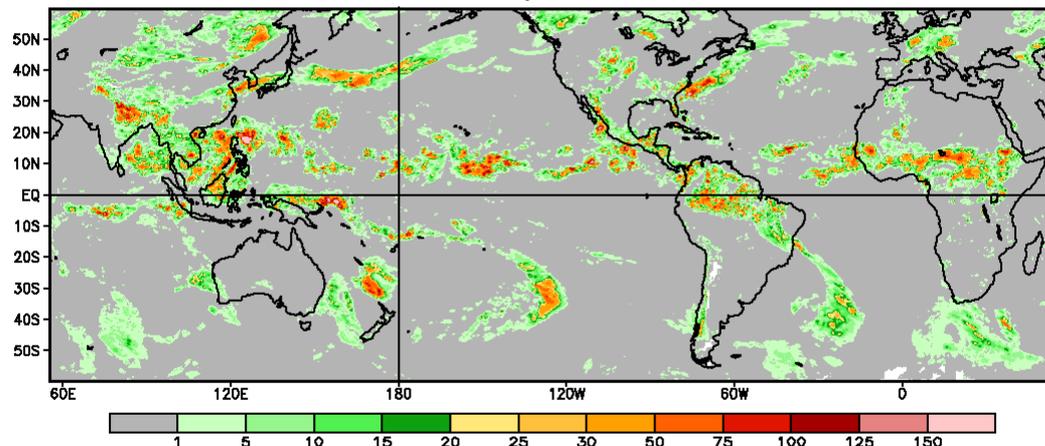
# GPM Level 3 Products for Enhanced NOAA Applications

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- GPM will generate products at several levels (L0,1,2,3..)
- Many NOAA end users will be accessing Level 3 grided precipitation fields (e.g. 3B42RT, CMORPH)

Daily Precipitation for: 18 Aug 2003 (00Z-00Z)  
Data on .25 x .25 deg grid; UNITS are mm/day

CMORPH Precipitation Estimates



# Do the Components and Upgrade Strategy of GPM Products Reflect NOAA's Needs

- NASA tries to get the best out of GPM
  - *Satellite centric*
  - *Advanced techniques*
  - *Frequent updates of products*
- NOAA works to make best use of the GPM information for improved precipitation products
  - *Unified suite of products*
  - *Consistency with other precipitation products*
  - *Homogeneity*
  - *Reasonable frequency of version upgrade*
- We need a good strategy and implementation plan
  - *What we need from GPM*
  - *How to enhance NOAA products and service taking advantage GPM*
  - *How to enhance the collaborations with GPM science community*

# Enhance R&D for GPM Applications in NOAA

- Create a short list of precipitation products
  - *Check through the NASA GPM products list*
  - *Generate a list of products most demanded by various parts of NOAA*
  - *Identify the GAPS*
- NOAA teams continue to be a part of GPM development activities from early stages
  - *Reflect NOAA's needs*
  - *Accelerate transition*
- Support / coordinate efforts across NOAA for the development of NOAA GPM product
  - Strengthen collaborations among NOAA GPM PIs
  - Support efforts to combine GPM with other sources of information
  - Close collaboration with products users

# One NOAA, One Precipitation

- We have **TOO MANY** precipitation data sets
  - *New data sets come with new instruments / platforms*
  - *Many centers generate their own data sets*
  - *Inconsistencies among different data sets*
- Ideally, we should consolidate them into a unified suite of precipitation products
  - *Composed of products based on individual platforms (gauge, radar, satellites,,), as well as their combination*
  - *A combination of time/space resolution and coverage*
  - *Reasonable quantitative consistency*
  - *Serving most NOAA applications*
- Long way to go ~~~~~
  - *We may take advantage of the GPM projects to start with something through collaboration*