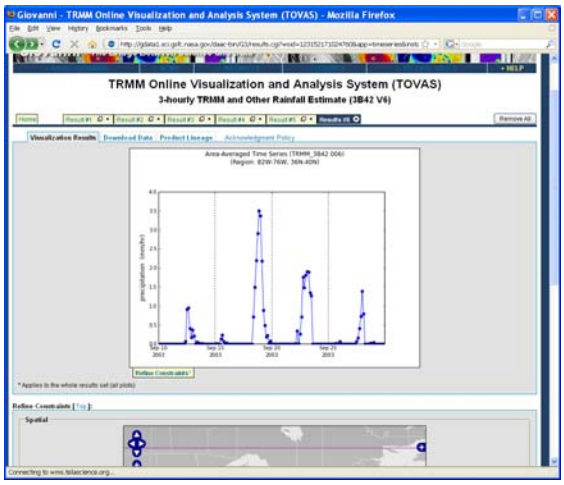
AMS 2009 Giovanni Workshop Hydrology Case Study: Giovanni TOVAS Practice Cases

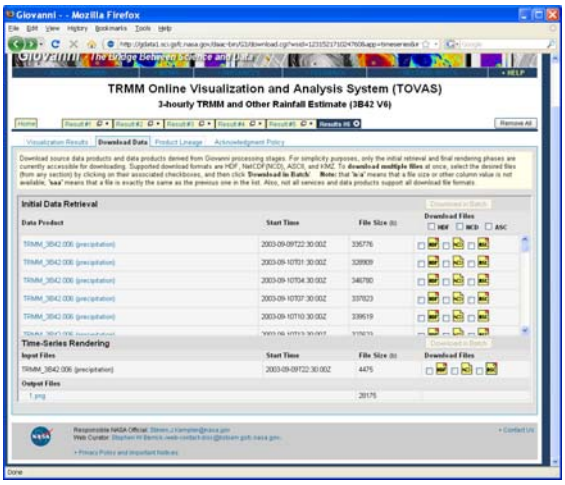
Goals: To get familiar with TOVAS and its functionality. Provide feedback for future improvements.

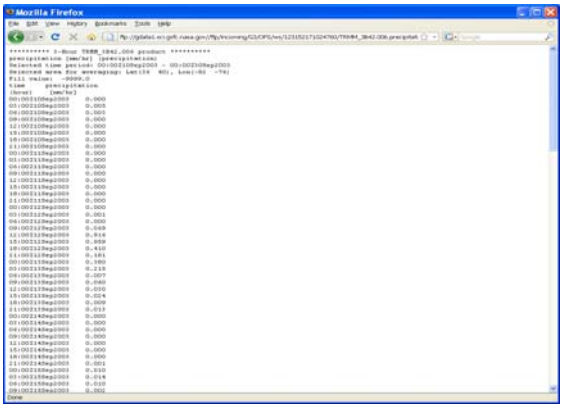
TOVAS URL: http://disc2.nascom.nasa.gov/Giovanni/tovas/

Case 1: Time series ➔ Identify Hurricane Isabel Heavy Rainfall Event

- URL: http://gdata1.sci.gsfc.nasa.gov/daac-bin/G3/gui.cgi?instance_id=TRMM_3-Hourly
- Area: (76ºW – 82ºW, 36ºN-40ºN)
- Precipitation
- Begin Date: 00Z10Sept 2003, End Date: 21Z30Sept 2003
- Time series
- Click "Generate Visualization", to process and generate the image
- On the result page, change Plot Preferences (min/max)
- Click "Generate Visualization" to re-generate the image
- Click on "download data" at the top
- Click on the "ASC" icon under Time-Series Rendering/Input Files/Download Files/ to see the ASCII data

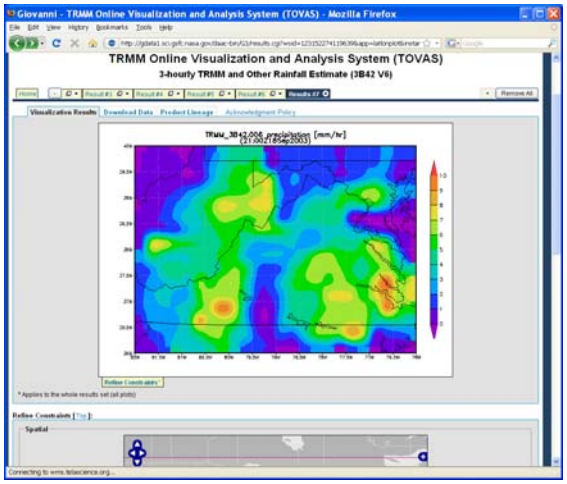


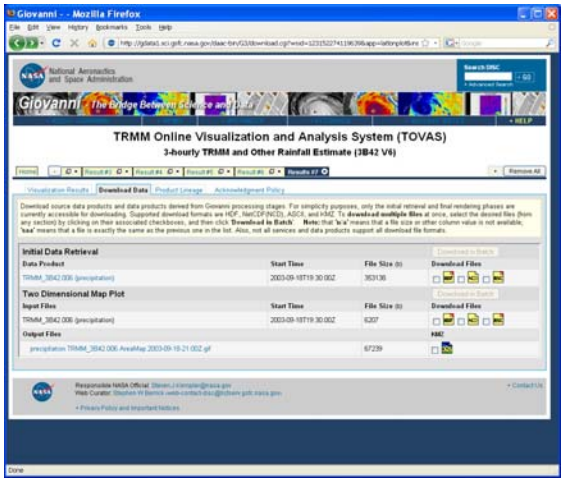


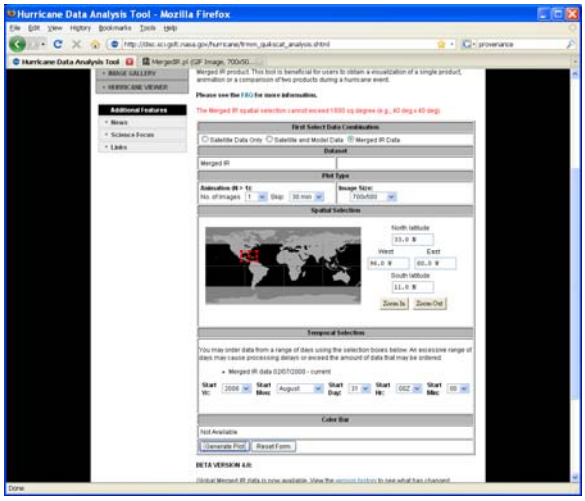
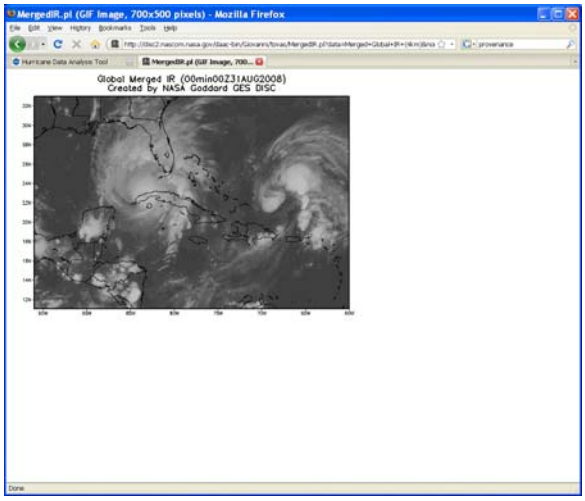


Case 1 (cont.): Lat-lon map (Time averaged) ➔ Plot Heavy Rainfall Map

- Area: (76ºW – 82ºW, 36ºN-40ºN)
- Precipitation
- Begin Date: 21Z18Sept 2003, End Date: 21Z18Sept 2003
- Lat-lon map
- Click "Generate Visualization", to process and generate the image
- On the result page, modify image size, color bar, etc.
- Click "Generate Visualization" to re-generate the image
- Click on "download data" at the top
- Click on the "ASC" icon to display the ASCII data





Case 2: Ancillary Products ➔ Merged IR from Hurricane Tool

- URL: http://disc.sci.gsfc.nasa.gov/hurricane/trmm_quikscat_analysis.shtml
- Select Merged IR Data
- select an area near Gulf of Mexico, (60W-96W, 11N-33N)
- Select time: 0min0Z31Aug. 2008 (Hurricane Gustav and Hanna)
- For animation, change the number in No. of Images