Geophysical Research Abstracts Vol. 13, EGU2011-3259, 2011 EGU General Assembly 2011 © Author(s) 2011



## **Gridded analysis products provided by the Global Precipitation Climatology Centre (GPCC)**

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The Global Precipitation Climatology Centre (GPCC) provides several gridded near-real-time as well as non-real-time global precipitation products. The availability of different data sources utilized cause the distinction between near-real-time and non-real-time products.

Near-real-time products are the 'First Guess Product' and 'Monitoring Product', both with a spatial resolution of  $1^{\circ}x1^{\circ}$ . Only an automatic quality control runs during the generation of the 'First Guess Product', whereas the data base is extended and a manual quality control is carried out for the 'Monitoring Product'.

In addition the GPCC offers several non-real-time products based on additional data from national meteorological or hydrological services or other organizations. These are the 'Climatology' (new version based on ca. 64,400 stations with climatological normals, available since December 2010) and the 'Full Data Reanalysis' (new version 5, also available since December 2010). This new version extends the time period from 1901 til 2009 based on an enlarged data base (ca. 11,000 stations in 1901, up to a maximum of ca. 47,000 stations in 1986/87 and slowly declining thereafter) and the quality control has been further improved. Since the data coverage for the 'Full Data Product' is time dependent it is not well suited for trend analysis. 'VASClimO' is currently the homogenized product, which covers the period from 1951 til 2000. It will be replaced by the new product 'HOMPRA', which will extend the period from 1951 to 2005 and is scheduled to be delivered in 2011.

Also in 2011 an analysis of daily precipitation is scheduled to start on basis of global SYNOP reports. This new 'First Guess Daily' will be released together with the 'First Guess Product' 3 to 5 days after the end of each month.

The different products and a comparison to older versions will be presented. Also the effect of the enlarged data base and enhanced quality control from the 'First Guess Product' to the 'Full Data Reanalysis' will be shown. An analysis of the highest and lowest observed gridded precipitation amount will be presented based on the 'Full Data Reanalysis'.

To protect the interests of the data suppliers the GPCC is not providing the station related data, but all gridded products mentioned above are available free of charge at the GPCC web site (gpcc.dwd.de).