

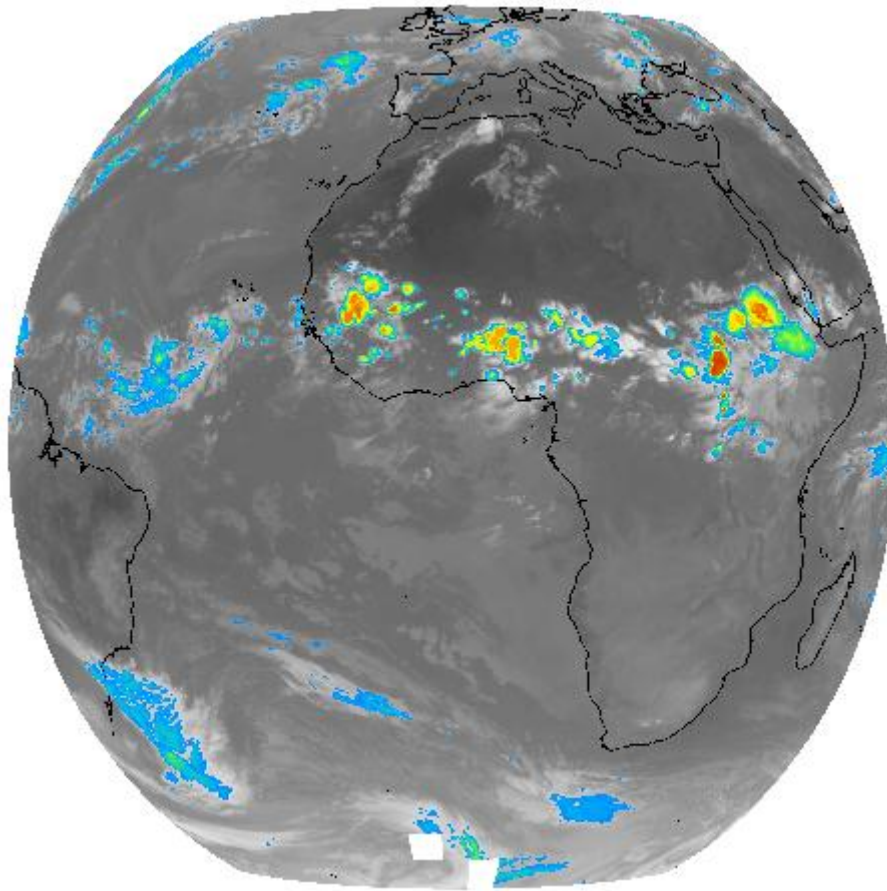
Multi-Sensor Precipitation Estimate Factsheet

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Multi-Sensor Precipitation Estimate Factsheet

The Multi-Sensor Precipitation Estimate (MPE) product consists of the rain rate in mm/hr for each Meteosat image in original pixel resolution.



MPE at 18:30 CET on 24 July 2005

Currently products for Meteosat-7, Meteosat-8 and Meteosat-9 are produced in near real-time. The algorithm is based on the combination of passive microwave data from the SSM/I and SSMIS instruments on the US-DMSP satellites and images in the Meteosat IR channel by a so-called blending technique.

A detailed description of the algorithm, its scientific background and its validation can be found in the following documents:

- **Introduction** (PDF, 95 KB)
- **Concept and Validation** (PDF, 199 KB)
- **Validation Status Report** (PDF, 1.26 MB)

This product is also available for downloading as **GRIB2 data** format.

Note: The GRIB2 data files contain two quality indicators to identify area where the rain retrieval can be used with confidence. More details about these indicators can be found in the following document: [MPE Quality indicators](#) (PDF, 140 KB).

From 23/11/2009 onward the MPE product generation also uses data from SSMIS onboard DMSP-16.

Below are example GRIB files for download:

- [zip_example_mpe_mtp_gribfile.zip](#) (Meteosat First Generation, 151 KB)
- [zip_example_mpe_msg_gribfile.zip](#) (Meteosat Second Generation, 357 KB)

For the latest MPE imagery, see the [Satellite Products and Derived Product Imagery](#) browser. Images are available for the last 5 days, every 15 minutes.