

CM SAF Newsletter 18

September 2014

The EUMETSAT
Network of
Satellite Application
Facilities



New Version (340) of CM SAF ATOVS EDR products HTW, HLW and HSH for products from March 2014 onwards

CM SAF upgraded the CM SAF ATOVS EDR processing environment in order to be able to handle ATOVS data from the EUMETSAT operated Metop-B satellite. These changes included an update to AAPP version 7.5 for the pre-processing of the ATOVS data and an upgrade to IAPP 4.0, the software package used for temperature and humidity profile retrieval developed at the University of Wisconsin. At the same time the processing environment for the ATOVS EDR processing has been moved to ECMWF's new supercomputing system. These changes resulted in a new version number for the ATOVS EDR products for products from March 2014 onwards (new version number: 340). ***Users having a standing order of the affected products will need to re-new their standing order if they want to further receive the products.***

Until March 2014 ATOVS data from Metop-A and the NOAA satellites has been processed in different combinations during the time series, with NOAA-16 and Metop-A being the most recent combination used for the HTW, HLW and HSH products. As described in our [Newsletter 17](#) MHS on Metop-A entered into a fault mode in late March 2014 and could be recovered by EUMETSAT during the second half of May 2014. The CM SAF ATOVS EDR products are based on Metop-B and NOAA-16 data during the time period of the Metop-A recovery. Since Metop-A became available again the products have been generated using ATOVS data from both, Metop-A and Metop-B satellites. Unfortunately, the NOAA-16 satellite stopped sending data on the morning of 6 June 2014. On June 9 2014 NOAA decommissioned NOAA-16 due to a major spacecraft anomaly (see e.g. [POES status page](#)). Thus, there is currently only data from satellites in the morning orbit used in the generation of the CM SAF ATOVS EDR products.

New Version of the PVGIS tool available: extending coverage to Asia

The [PVGIS](#) (Photovoltaic Geographical Information System) hosted by JRC is an instrument for the geographical assessment of the solar energy resource and performance of photovoltaic technology. CM SAF has a close cooperation with JRC and provides radiation data as well as retrieval algorithms for the generation of the PVGIS radiation database.

A new version of the tool has been released recently. Beside the update of the CM SAF database (e.g. adding 2013) and the extension to 60°N, the main change is the extension of the coverage to Asia. The updated PVGIS version can be found at <http://re.jrc.ec.europa.eu/pvgis/apps4/pvest.php?map=africa&lang=en>.

The following publication gives more details on the extension of the method to Asia:

Amillo, A.G.; Huld, T.; Müller, R. A New Database of Global and Direct Solar Radiation Using the Eastern Meteosat Satellite, Models and Validation. *Remote Sens.* 2014, 6, 8165-8189, doi:[10.3390/rs6098165](https://doi.org/10.3390/rs6098165).

CM SAF members at upcoming conferences

CM SAF members will be at a number of upcoming conferences presenting the latest results of our work, among others:

22 - 26 September 2014, [EUMETSAT Meteorological Satellite Conference](#), Geneva, Switzerland

06 – 10 October 2014. [14th EMS Annual Meeting & 10th European Conference on Applied Climatology \(ECAC\)](#), Prague, Czech Republic (please take note of the side event [Remote Sensing in Climatology](#) organized by CM SAF)

13 – 17 October 2014. [The Climate Symposium 2014](#), Darmstadt, Germany

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