

AC SAF NEWS BULLETIN 1/2017

General updates:

1 March 2017: SAF name changed

O3M SAF was changed to Satellite Application Facility on Atmospheric Composition Monitoring (AC SAF). The main website and helpdesk address changed as well:

<http://ac-saf.eumetsat.int> (redirects to <http://acsaf.org>) and helpdesk@acsaf.org.

December 2016: Twitter account opened

AC SAF opened a Twitter account [@Atmospheric_SAF](#). All product releases and other interesting news and product examples will be announced there.

AC SAF product releases within one year:

2 June 2017: New Lambertian-equivalent reflectivity data records

The LER data records based on GOME-2 measurements from both Metop-A and Metop-B were released. Data source can be selected between the Main Science Channels (MSC) and Polarisation Measurements Device (PMD). Furthermore, the coastline resolution has been improved via dynamical gridding. More information: <http://acsaf.org/datarecords/ler.html>.

27 April 2017: Reprocessed absorbing aerosol index data records

Reprocessed absorbing aerosol index data records (AAI and AAI from PMDs) were officially released. The data records form consistent time-series with the operational products being processed on a daily basis. The offline data with older algorithm versions are available only with a special request.

13 March 2017: The near real-time IASI CO products

The first AC SAF Metop/IASI products were released. The near real-time IASI CO products from Metop-A and Metop-B satellites are available in BUFR format via channel EUMETCast Europe on EUTELSAT 10A.

1 February 2017: Reprocessed GOME-2 vertical column trace gas products

GOME-2 vertical column trace gas products reprocessed with GDP 4.8 for the period 23/01/2007 – 16/11/2016 (Metop-A) and 13/12/2012 – 16/11/2016 (Metop-B) are available via the data record access page http://acsaf.org/datarecord_access.html.

October 2016: GDP 4.8 implemented for trace gases

The near real-time and offline GOME-2 trace gas processor was updated to version GDP 4.8.

Upcoming AC SAF product releases:

September 2017: OCIO data record

The GOME-2 data has been reprocessed with a new OCIO algorithm for the time period 23/01/2007 – 16/11/2016. The data record will be available via AC SAF ordering services and from the EUMETSAT Data Centre.

October 2017: NO2 and H2O TCDRs

The Thematic Climate Data Records of NO₂ and H₂O will be released in October 2017. These data records cover a time period of over ten years: January 2007 - August 2017.

Autumn 2017: IASI SO2

The IASI SO₂ product is currently available via EUMETCast as a demonstrational product. The official release is expected to happen later in 2017.

Autumn 2017: Reprocessed UV data records

The offline UV data from a time period of 2007 - 2017 will be reprocessed using the latest algorithm. The data record will be available later in 2017.

Discontinued products:

1 June 2017:

Processing of the near real-time and offline coarse resolution (CR) ozone profile products was discontinued. Users are encouraged to use the high-resolution ozone profile products instead. Existing CR ozone profile products remain available in the AC SAF archive at FMI.

Other AC SAF activities:

EUMETSAT Meteorological Satellite Conference 2017

The conference will be in Rome, Italy, on 2-6 October 2017. There will be several AC SAF related presentations during the conference:

- The use of QBO, ENSO, NAO perturbations in the evaluation of GOME-2A total ozone measurements (#115)
- New products and future evolution of the Atmospheric Composition Monitoring SAF (#116)
- Reprocessed Metop/GOME-2 vertical ozone profiles (#125)
- Improvements of the FRESCO cloud retrieval algorithm for GOME-2 (#156)
- A fast cloud retrieval algorithm from the oxygen B band for GOME-2 measurements (#157)
- CO and SO₂: two IASI products operationally distributed by EUMETCast (#220)
- Operational trace gas column observations from GOME-2 on MetOp (#249)
- 10 years of GOME-2 SO₂ data: Volcanic eruptions and anthropogenic emissions (#330)
- Inter-annual variations of nitrogen dioxide and formaldehyde over Greek urban sites detected from space (#334)
- Surface reflectivity climatologies derived from GOME-2 observations (#348)
- 9-year surface UV data record from Metop/GOME-2 (#351)
- Validation of GOME-2A and GOME-2B ozone profiles and tropospheric ozone column products in an operational context, using balloon sounding data (#412)
- Validation of the GOME-2 GDP 4.8 OCIO product (#418)
- Validation of the absorbing aerosol height (AAH) products from GOME-2 instruments onboard Metop-A and Metop-B within the framework of the AC SAF (#425)
- Sun-induced vegetation fluorescence retrieval development using GOME-2 data (#456)
- Validation of reprocessed GOME-2 and pre-operational IASI upper stratospheric ozone profiles (#461)
- Intercomparison study between observed tropospheric NO₂ columns from MAXDOAS, modelled and retrieved GOME-2 NO₂ data (#564)
- Trace gases validation and quality assessment within the AC SAF (#625)

Best regards,

AC SAF Project team