

EUMETSAT Product History: 1995-2015

The following tables contain lists of changes to the EUMETSAT products provided to the meteorological user community.

The tables are ordered with the most recent changes first.

Product updates (2015)

| Date | Product | Collection Reference | Update |
|------------|--|--|--|
| 25/06/2015 | GOME-2 GDS Level 1B - Metop | EO:EUM:DAT:METOP:GOMEL1 | Update of GOME-2 level-1b processor to Version 6.1. |
| 23/06/2015 | RapidScat Winds at 25 km Swath Grid, 3 Hours Latency - ISS RapidScat Winds at 50 km Swath Grid, 3 Hours Latency - ISS RapidScat Winds at 25 km Swath Grid, 2 hours latency - ISS RapidScat Winds at 50 km Swath Grid, 2 hours latency - ISS | EO:EUM:DST:ISS:RSCAT25 EO:EUM:DST:ISS:RSCAT50 EO:EUM:DST:ISS:RSCAT25_2H EO:EUM:DST:ISS:RSCAT50_2H | Start of distribution on EUMETCast (all three beams). |
| 27/05/2015 | IASI GDS Level 1C - all spectral samples - Metop IASI GDS Level 1C - reduced spectral samples - Metop IASI GDS Level 1 Principal Component Scores - Metop | EO:EUM:DAT:METOP:IASIL1C-ALL EO:EUM:DAT:METOP:IASIL1C-RED EO:EUM:DAT:METOP:IASPCS01 | Release of IASI L1 Product Processing Facility version 7.2. |
| 19/05/2015 | Polar Winds - Metop Global AVHRR Atmospheric motion vectors - Metop | EO:EUM:DAT:METOP:AVHRAMV EO:EUM:DAT:METOP:AVHAMV2D | Introduction of Version 3 of the AVHRR Atmospheric Motion Vectors algorithm. This version fixes a bug in the temporal vector consistency test. The Quality Index (QI) distribution is therefore modified, increasing the number of vectors with QI greater than 60. This change affects both AVHRR Polar and Global Winds. |
| 06/05/2015 | ATOVS Regional Data Service – Multimission IASI Regional Data Service Level 1 - 500 Selected Channels and Principal Component Scores - Metop | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:METOP:EARS-IASI | Addition of Metop-B data from the Canadian Edmonton HRPT station. |
| 06/05/2015 | ATOVS Regional Data Service - Multimission ASCAT Regional Ocean Surface Winds at 12.5 km Node Grid - Metop ASCAT Regional Ocean Surface Winds at 25 km Node Grid - Metop AVHRR Regional Data Service – Multimission IASI Regional Data Service Level 1 - 500 Selected Channels and Principal Component Scores - Metop | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 EO:EUM:DAT:MULT:EARS-AVHRR EO:EUM:DAT:METOP:EARS-IASI | Addition of Metop-A data from the Canadian Gander HRPT station. |

| Date | Product | Collection Reference | Update |
|-------------|---|--|--|
| 06/05/2015 | ATOVS Regional Data Service - Multimission ASCAT Regional Ocean Surface Winds at 12.5 km Node Grid - Metop ASCAT Regional Ocean Surface Winds at 25 km Node Grid - Metop AVHRR Regional Data Service - Multimission IASI Regional Data Service Level 1 - 500 Selected Channels and Principal Component Scores - Metop EARS Cloud Mask - Multimission EARS Cloud Top Temperature & Height - Multimission EARS Cloud Type - Multimission | EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 EO:EUM:DAT:MULT:EARS-AVHRR EO:EUM:DAT:METOP:EARS-IASI EO:EUM:DAT:MULT:EARS-RCMA EO:EUM:DAT:MULT:EARS-RCTTH EO:EUM:DAT:MULT:EARS-RCTY | Addition of Metop-B data from the Canadian Gander HRPT station. |
| 30/04/2015 | Geostationary Nowcasting Cloudmask - MSG - 0 degree Geostationary Nowcasting Cloud Type - MSG - 0 degree Geostationary Nowcasting Cloud Top Temperature and Height - MSG - 0 degree | EO:EUM:DAT:MSG:GNWCCMa EO:EUM:DAT:MSG:GNWCCT EO:EUM:DAT:MSG:GNWCCTH | Start of distribution on EUMETCast Europe and EUMETCast Africa. |
| 28/04/2015 | ASCAT Winds and Soil Moisture at 12.5 km Swath Grid - Metop | EO:EUM:DAT:METOP:OAS012 | Discontinuation of the product: end of distribution via EUMETCast and end of archiving. |
| 22/04/2015 | Rapid Scan High Rate SEVIRI Level 1.5 Image Data - MSG | EO:EUM:DAT:MSG:MSG15-RSS | Addition of alternative calibration coefficients to the L1.5 image header for Meteosat-9, based on GSICS inter-calibration. This is done as part of the MSG MPEF Release 2.1. |
| 22/04/2015 | Meteosat-10 meteorological products | | Introduction of MSG MPEF (Meteorological Product Extraction Facility) Release 2.1. Main changes in this release include a new version of RTTOV (Radiative Transfer Model) and improvements to the OCA (Optimal Cloud Analysis) product |
| 05/03/2015 | ATOVS Regional Data Service - Multimission ASCAT Regional Ocean Surface Winds at 12.5 km Node Grid - Metop ASCAT Regional Ocean Surface Winds at 25 km Node Grid - Metop AVHRR Regional Data Service - Multimission | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 EO:EUM:DAT:MULT:EARS-AVHRR | Addition of Metop-B data from the Moscow HRPT station. |
| 12/02/2015 | Global AVHRR Atmospheric motion vectors - Metop | EO:EUM:DAT:METOP:AVHAMV2D | Start of distribution on the GTS. |
| 30/01/2015 | Global AVHRR Atmospheric motion vectors - Metop | EO:EUM:DAT:METOP:AVHAMV2D | The product was granted operational status. |
| 20/01/2015 | Polar Multi-Sensor Aerosol Optical Properties - Metop | EO:EUM:DAT:METOP:PMAP | New release (1.0.10) improving the provided aerosol parameters |

| Date | Product | Collection Reference | Update |
|------------|--|-------------------------|--|
| 20/01/2015 | Multi-Sensor Precipitation Estimate (GRIB) - MSG - 0 degree | EO:EUM:DAT:MSG:MPE-GRIB | Start of distribution on EUMETCast-Americas |
| 08/01/2015 | OSI SAF IASI Sea Surface Temperature - Metop | EO:EUM:DAT:IASI-SST | Start of distribution on EUMETCast (all three beams) |

Product updates (2014)

| Date | Product | Collection Reference | Update |
|------------|---|--|---|
| 04/12/2014 | Global AVHRR Atmospheric motion vectors - Metop | EO:EUM:DAT:METOP:AVHAMV2D | Correction to the speed bias difference between the Metop A/B and Metop B/A products. This difference was due to the small drift in orbit of the satellites. With this correction, the speed bias and RMS are similar for the two complementary products. |
| 19/11/2014 | VIIRS Regional Data Service - Suomi-NPP | EO:EUM:DAT:SUOMI-NPP:EARS-CVIIRS | Availability of EARS-VIIRS products from the Maspalomas HRPT station |
| 29/10/2014 | VIIRS Regional Data Service - Suomi-NPP | EO:EUM:DAT:SUOMI-NPP:EARS-CVIIRS | New EARS-VIIRS service available on EUMETCast Europe. |
| 15/10/2014 | IASI GDS Level 1C - reduced spectral samples - Metop IASI Regional Data Service Level 1 - 500 Selected Channels and Principal Component Scores - Metop | EO:EUM:DAT:METOP:IASIL1C-RED EO:EUM:DAT:METOP:EARS-IASI | Update of Global and Regional IASI Level 1C reduced spectral samples distributed on EUMETCast and GTS, from 366 channels to 500. |
| 14/10/2014 | Polar Multi-Sensor Aerosol Optical Properties - Metop | EO:EUM:DAT:METOP:PMAP | The Aerosol Optical Depth over ocean contained in EUMETSAT's Polar Multi-Sensor Aerosol Optical Properties product (PMAP) granted operational status. |
| 30/09/2014 | IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature - Metop IASI Cloud Parameters - Metop IASI Ozone - Metop IASI Surface Emissivity - Metop IASI Trace Gases - Metop IASI Carbon Monoxide Profiles FORLI-CO - Metop Atmospheric Temperature Water Vapour and Surface Skin Temperature Error Estimate - Metop | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2EMS EO:EUM:DAT:METOP:IASIL2TRG EO:EUM:DAT:METOP:IASIL2COX EO:EUM:DAT:METOP:IASIL2TWT_ERR | Release of IASI Level 2 Version 6 products, superseding Version 5 products. |
| 18/09/2014 | Global AVHRR Atmospheric motion vectors - Metop | EO:EUM:DAT:METOP:AVHAMV2D | Global AVHRR Atmospheric Motion Vectors (derived from Metop-A and Metop-B) available on EUMETCast Europe . |
| 29/08/2014 | GOME-2 L1B | EO:EUM:DAT:METOP:GOMEL1 | Two new parameters contained in GOME-2 L1b processor Version 6 (released on 17 June 2014) — |

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|------------|--|---|--|
| | | | geometrical scene homogeneity and cloud fraction values derived from AVHRR — declared operational. |
| 24/07/2014 | H SAF Snow status by MW radiometry | EO:EUM:DAT:DMSP:SN-OBS-2 | Start of distribution on EUMETCast |
| 22/07/2014 | ROM SAF Near Real Time Refractivity Profile | EO:EUM:DAT:METOP:NRP | Enhancement of the product with the inclusion of temperature, specific humidity, pressure and surface pressure from Metop-A and B. |
| 17/06/2014 | GOME-2 L1B | EO:EUM:DAT:METOP:GOMEL1 | Update of GOME-2 level 0 to 1b processor to Version 6, with the inclusion of geometrical scene homogeneity and cloud fraction values. |
| 17/06/2014 | ROM SAF Near Real Time Refractivity Profile based on Metop-B | EO:EUM:DAT:METOP:NRP | Start of distribution on EUMETCast |
| 05/06/2014 | Rapid Scan High Rate SEVIRI Level 1.5 Image Data - MSG | EO:EUM:DAT:MSG:MSG15-RSS | Update of the calibration coefficient for the four Visible Channels of Meteosat-9 |
| 03/06/2014 | Tropospheric Humidity - MSG - 0 degree | EO:EUM:DAT:MSG:TH | Correction in the generation of the product, resulting in an average difference of about 1 % relative humidity. |
| 03/06/2014 | All Sky Radiances - MSG - 0 degree | EO:EUM:DAT:MSG:ASR | Update to the BUFR product, affecting only the 'product subtype' in the BUFR section 1 which will be changed from 40 to 41. This allows users to differentiate between the ASR and the CSR (Clear Sky Radiances) products. |
| 28/05/2014 | Polar Winds - Metop | EO:EUM:DAT:METOP:AVHRAMV | Metop AVHRR Polar Winds algorithm update to version 2.3.3 Main enhancements to the product are: - QI (Quality Indicator) distribution: there are more winds with a QI greater than 60. - A reduced RMSVD (root-mean-square vector difference) against forecast - A slightly smaller bias against forecast There is no change to the format. |
| 29/04/2014 | Polar Multi-Sensor Aerosol Optical Properties | EO:EUM:DAT:METOP:PMAP | Start of distribution on EUMETCast |
| 26/03/2014 | Metop-B EARS ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Metop-B EARS ATOVS data available from Gilmore Creek HRPT station. |
| 12/03/2014 | Metop-A ASCAT L1B (Full Resolution) Metop-A ASCAT L1B (12.5 km) Metop-A ASCAT L1B (25 km) | EO:EUM:DAT:METOP:ASCSZF1B EO:EUM:DAT:METOP:ASCSZR1B EO:EUM:DAT:METOP:ASCSZO1B | Update to Metop-A ASCAT calibration to reflect the calibration model used in the reprocessing of the Metop-A ASCAT Level 1 data. |
| 27/02/2014 | AVHRR Level 1B | EO:EUM:DAT:METOP:AVHRRL1 | Update to AVHRR Level 1B processor for Metop-A and Metop-B. |
| 17/02/2014 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Addition of Metop-B products from the Muscat station. |

| Date | Product | Collection Reference | Update |
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| | EARS-ASCAT EARS-ASCAT25 | EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 | |
| 30/01/2014 | Sea Ice Surface Emissivity Medium Resolution Sea Ice Drift products | EO:EUM:DAT:SISE50 EO:EUM:DAT:NH-MR-SID | Start of distribution on EUMETCast. |
| 16/01/2014 | EARS-ATMS EARS-CrIS | EO:EUM:DAT:SUOMI-NPP:EARS-RATMS EO:EUM:DAT:SUOMI-NPP:EARS-CRIS | Addition of SNPP data from the Kangerlussuaq station. |
| 16/01/2014 | EARS-NWC EARS-RCMA EARS-RCTTH EARS-RCTY | EO:EUM:DAT:MULT:EARS-RCMA EO:EUM:DAT:MULT:EARS-RCTTH EO:EUM:DAT:MULT:EARS-RCTY | Addition of Metop-B data from the Kangerlussuaq station. |

Product updates (2013)

| Date | Product | Collection Reference | Update |
|------------|--|--|--|
| 12/12/2013 | EARS-ATOVS EARS-AVHRR EARS-IASI EARS-ASCAT EARS-ASCAT (25 km) | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:MULT:EARS-AVHRR EO:EUM:DAT:METOP:EARS-IASI EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 | Addition of Metop-B products from the Kangerlussuaq station. |
| 11/12/2013 | EARS-ATMS | EO:EUM:DAT:SUOMI-NPP:EARS-RATMS | Update to EARS-ATMS service. |
| 11/12/2013 | Atmospheric Motion Vectors - MSG - 0 degree Rapid Scan Atmospheric Motion Vectors - MSG | EO:EUM:DAT:MSG:AMV EO:EUM:DAT:MSG:RSS-AMV | AMV BUFR encoding correction. |
| 11/12/2013 | High Rate SEVIRI Level 1.5 Image Data | EO:EUM:DAT:MSG:HRSEVIRI | Meteosat-10: Introduction of GSICS Cross Calibration Coefficients. |
| 03/12/2013 | EARS-ATOVS EARS-ASCAT EARS-ASCAT (25 km) | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 | Addition of Metop-B products from the Saint-Denis station. |
| 21/11/2013 | HRI Level 1.5 Image Data - MFG - Indian Ocean | EO:EUM:DAT:MFG:HRI-IODC | The Meteosat IODC 6-hourly data distributed on EUMETCast become part of the 3-hourly data. |
| 20/11/2013 | OSI SAF North Atlantic and Regional Sea Surface Temperature - Multimission | EO:EUM:DAT:MULT:OSSTNAR | Change of filename to reflect that the NAR SST based on NOAA-19 data is superseded by the NAR SST based on S-NPP data. New filename example: S-OSI_-FRA_-NPP_-NARSST_FIELD-201311050200Z.grb.gz. |
| 14/11/2013 | High Rate SEVIRI Level 1.5 Image Data | EO:EUM:DAT:MSG:HRSEVIRI | Meteosat-8: Update of the calibration for the Visible Channels with new coefficients. |
| 14/11/2013 | Cloud Top Height - MSG - 0 degree | EO:EUM:DAT:MSG:CTH | Change in the product generation. |

| Date | Product | Collection Reference | Update |
|-------------|--|--|---|
| 14/11/2013 | Aerosol Properties over Sea - MSG - 0 degree | EO:EUM:DAT:MSG:AES | Change to the GRIB descriptors to be in line with the ones assigned by WMO. |
| 10/10/2013 | O3M SAF Near real time Absorbing Aerosol Index from the GOME-2 PMD (NAP) | EO:EUM:DAT:METOP:NAP | Start of distribution on EUMETCast. |
| 08/10/2013 | EARS products | | Update of AAPP to V7.5: - Improvement of the Metop-B AVHRR and AMSU-A calibration and adjustment to the degradation of AMSU-A1-2 on NOAA-15. - Change of the BUFR encoding of CrIS and ATMS products by setting the data category to 21, sub-category to 6 (ATMS) and to 5 (CrIS), for consistency with NOAA BUFR products. |
| 07/10/2013 | IODC DCP Messages | | Change to EUMETCast dissemination: 0° and IODC DCPs now use the same generic header. |
| 18/09/2013 | Level 1.5 High Rate SEVIRI Image Data | EO:EUM:DAT:MSG:HRSEVIRI | Meteosat-9: Update of the calibration for the Visible Channels with new coefficients. |
| 18/09/2013 | MSG Atmospheric Motion Vectors (AMV) product | EO:EUM:DAT:MSG:AMV | Meteosat-10: disabling of the inversion height assignment for the WV channel AMVs. |
| 05/09/2013 | O3M SAF High Resolution GOME-2 Vertical Ozone Profiles (NHP) H SAF SN-OBS-3 (Effective snow cover by VIS/IR radiometry) H SAF SN-OBS-4 (Snow water equivalent by MW radiometry) | EO:EUM:DAT:METOP:NHP EO:EUM:DAT:OBS:SNOBS3 EO:EUM:DAT:OBS:SNOBS4 | Start of distribution of NHP on EUMETCast Start of distribution of SN-OBS-3/4 on EUMETCast |
| 20/08/2013 | EARS-ATOVS, EARS-AVHRR, EARS-IASI, EARS-ASCAT and EARS-NWC: ATOVS Regional Data Service - Multimission AVHRR Regional Data Service - Multimission IASI Regional Data Service Level 1 Principal Component Scores and subset of channels - Metop ASCAT Regional Ocean Surface Winds at 12.5 km Node Grid - Metop ASCAT Regional Ocean Surface Winds at 25 km Node Grid - Metop EARS Cloud Mask - Multimission EARS Cloud Type - Multimission EARS Cloud Top Temperature & Height - Multimission | EO:EUM:DAT:MULT:EARS-ATOVS EO:EUM:DAT:MULT:EARS-AVHRR EO:EUM:DAT:METOP:EARS-IASI EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 EO:EUM:DAT:MULT:EARS-RCMA EO:EUM:DAT:MULT:EARS-RCTY EO:EUM:DAT:MULT:EARS-RCTTH | Start of distribution of Metop-B data |
| 20/08/2013 | AMSU-A and MHS BUFR products: | EO:EUM:DAT:METOP:AMSUL1 | Antenna correction version number set to 2 for Metop- |

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|------------|--|--|--|
| | AMSU-A GDS Level 1B - Metop AMSU-A GDS Level 1B - NOAA MHS GDS Level 1B - Metop MHS GDS Level 1B - NOAA | EO:EUM:DAT:NOAA:AMSU EO:EUM:DAT:MULT:MHSL1 EO:EUM:DAT:NOAA:NOAAMHS | A, 1 for Metop-B and 1 for NOAA-19 (it was previously set to 2 for all satellites). |
| 08/08/2013 | IASI Level 1 | | Introduction of a new version of IASI L1 Product Processing Facility (Version 7.0). No change to the products. |
| 08/08/2013 | Optimal Cloud Analysis (OCA) | EO:EUM:DAT:MSG:OCA | Start of distribution of OCA on EUMETCast |
| 31/07/2013 | IASI L2 products from Metop-B: IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature - Metop IASI Cloud Parameters - Metop IASI Ozone - Metop IASI Trace Gases - Metop IASI Surface Emissivity - Metop | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2TRG EO:EUM:DAT:METOP:IASIL2EMS | Start of distribution on the GTS |
| 30/07/2013 | OSI SAF ASCAT multi-parameter at 25 km Swath Grid and ASCAT Coastal Winds | EO:EUM:DAT:METOP:OAS025 EO:EUM:DAT:METOP:OSI-104 | Start of distribution on EUMETCast of Metop-B products |
| 25/07/2013 | O3M SAF Near Real Time Ozone Profiles and Near Real Time Total Column BUFR products | EO:EUM:DAT:METOP:NOP EO:EUM:DAT:METOP:NTO | Start of distribution on EUMETCast Africa |
| 25/07/2013 | ASCAT L1 Sigma0 at Full Sensor Resolution from Metop-A and B | EO:EUM:DAT:METOP:ASCSZF1B | Start of distribution on EUMETCast |
| 22/07/2013 | IASI L2 products from Metop-B: IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature - Metop IASI Cloud Parameters - Metop IASI Ozone - Metop IASI Trace Gases - Metop IASI Surface Emissivity - Metop | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2TRG EO:EUM:DAT:METOP:IASIL2EMS | IASI L2 products from Metop-B became operational |
| 18/07/2013 | H SAF Precipitation rate at ground by MW conical scanners (PR-OBS-1) and Precipitation rate at ground by MW cross-track scanners (PR-OBS-2) | EO:EUM:DAT:DMSP:PROBS1 EO:EUM:DAT:MULT:PROBS2 | New release of PR-OBS-1 and PR-OBS-2 |
| 18/07/2013 | ATOVS Sounding Products - Metop | EO:EUM:DAT:METOP:ATOVSL2 | Start of EUMETCast distribution of ATOVS L2 products from Metop-B |
| 17/07/2013 | IASI L2 products from Metop-A and B: IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature - Metop IASI Cloud Parameters - Metop | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2TRG | Start of distribution on EUMETCast Africa of IASI L2 products from Metop-A and B |

| Date | Product | Collection Reference | Update |
|------------|--|--|--|
| | IASI Ozone - Metop IASI Trace Gases – Metop IASI Surface Emissivity - Metop | EO:EUM:DAT:METOP:IASIL2EMS | |
| 15/07/2013 | O3M SAF products from Metop-B: NRT Absorbing Aerosol Index (NAR) Near Real Time Ozone Profiles (NOP) Near Real Time Total Column (NTO) | EO:EUM:DAT:METOP:NAR EO:EUM:DAT:METOP:NOP EO:EUM:DAT:METOP:NTO | Start of EUMETCast distribution of O3M SAF products from Metop-B |
| 04/07/2013 | OSI SAF Full Resolution Sea Surface Temperature metagranules NetCDF format updated to GHRSSST Data Specification (GDS) V2. As a main result, the compression mode is internal instead of external. The modification is based on the GDSV2 document available on the GHRSSST web site. | EO:EUM:DAT:METOP:MGR-SST | NetCDF format updated to GHRSSST Data Specification (GDS) V2. As a main result, the compression mode is internal instead of external. The modification is based on the GDSV2 document available on the GHRSSST web site. Change of filenames from S-OSI_-FRA_-MTOP-MGRSST_FIELD-201305211228Z.nc.bz2 to S-OSI_-FRA_-MTOP-MGRSST_FIELD-201305211228Z.nc |
| 20/06/2013 | Cloud Mask - MFG - Indian Ocean | EO:EUM:DAT:MFG:CLM-IODC | Start of Cloud Mask distribution on EUMETCast |
| 18/06/2013 | Total Ozone - MSG - 0 degree | EO:EUM:DAT:MSG:TOZ | Update of meteorological product generation software, providing a correction to the Total Ozone product from the 0 deg service: The erroneous high spatial variability observed over cloudy areas is reduced. The algorithm change also results in a higher number of rejected retrievals, mainly over high-level clouds. The format of the product is not affected. |
| 18/06/2013 | IASI L2 products from Metop-B: IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature – Metop IASI Cloud Parameters – Metop IASI Ozone – Metop IASI Trace Gases – Metop IASI Surface Emissivity - Metop | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2TRG EO:EUM:DAT:METOP:IASIL2EMS | IASI Level 2 products from Metop-B on EUMETCast |
| 13/06/2013 | GOME-2 L1 data from Metop-A | EO:EUM:DAT:METOP:GOMEL1 | Update with new instrument calibration key-data to prepare for the tandem operation phase of both instruments on Metop-A and Metop-B |
| 11/06/2013 | Polar Winds - Metop | EO:EUM:DAT:METOP:AVHRAMV | AVHRR Polar Winds from Metop-B on EUMETCast |
| 11/06/2013 | O3M SAF NRT Absorbing Aerosol Index | EO:EUM:DAT:METOP:NAR | Start of O3M SAF NRT Absorbing Aerosol Index (NAR) distribution on EUMETCast |
| 04/06/2013 | Divergence Product - MSG - 0 degree | EO:EUM:DAT:MSG:DIV | Change in dissemination time: the product is disseminated five minutes earlier. |
| 28/05/2013 | ASCAT GDS L1 Sigma0 at 25 km Swath Grid | EO:EUM:DAT:METOP:ASCSZO1B | New ASCAT Level 1 product updates |

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|------------|--|--|---|
| | ASCAT GDS L1 Sigma0 at 12.5 km Swath Grid ASCAT GDS L1 Sigma0 at Full Sensor Resolution | EO:EUM:DAT:METOP:ASCSZR1B EO:EUM:DAT:METOP:ASCSZF1B | Product update: <ul style="list-style-type: none"> Native product format changes Change in the swath grid re-sampling logic |
| 22/05/2013 | Rapid Scan Active Fire Monitoring (CAP) - MSG | EO:EUM:DAT:MSG:RSS-FIRC | Rapid Scan Active Fire Monitoring Product available on EUMETCast Start of distribution on EUMETCast of the Rapid Scan Active Fire Monitoring Product generated from Meteosat-9. |
| 15/05/2013 | Meteosat-10 image data | | Enhancement of the interchannel co-registration |
| 15/05/2013 | EARS-ATMS and EARS-CrIS | EO:EUM:DAT:SUOMI-NPP:EARS-RATMS EO:EUM:DAT:SUOMI-NPP:EARS-CRIS | 'Start of EARS-ATMS and EARS-CrIS service distribution on EUMETCast |
| 14/05/2013 | Cloud Analysis from Meteosat First Generation | EO:EUM:DAT:MFG:CLA-IODC | Start of distribution on EUMETCast of the Cloud Analysis product from MFG |
| 07/05/2013 | GOME-2 L1 data from Metop-B | EO:EUM:DAT:METOP:GOMEL1 | Upgrade from pre-operational to operational status Update with new instrument calibration key-data to prepare for the tandem operation phase of both instruments on Metop-A and Metop-B. |
| 24/04/2013 | EARS-NWC AVHRR Cloud Mask AVHRR Cloud Type AVHRR Cloud Top Temperature & Height | EO:EUM:DAT:MULT:EARS-RCMA EO:EUM:DAT:MULT:EARS-RCTY EO:EUM:DAT:MULT:EARS-RCTTH | Start of new EARS-NWC service on EUMETCast |
| 24/04/2013 | Metop-B | | Metop-B becomes operational. The enhanced data timeliness previously available for Metop-A, through the Antarctic Data Acquisition (ADA), is now transferred to Metop-B. Change of product filenames. |
| 18/04/2013 | H-SAF SM-DAS-2 (Profile Index in the roots region by scatterometer data assimilation) | EO:EUM:DAT:MODEL:SM-DAS-2 | Start of SM-DAS-2 product distribution on EUMETCast |
| 16/04/2013 | Atmospheric Motion Vector (AMV) | EO:EUM:DAT:MSG:AMV | Change in the computation of the height assignment of the AMV product. The inversion correction for low-level AMVs is re-introduced in the AMV algorithm. Only low-level winds are impacted. They now appear slightly lower in the atmosphere. The product format remains unchanged. |
| 09/04/2013 | Meteosat Rapid Scanning Service (RSS) | | Replacement of Meteosat-8 by Meteosat-9 for RSS |
| 26/03/2013 | PR-OBS-4 and PR-OBS-5 | EO:EUM:DAT:MULT:PROBS4 | |

| Date | Product | Collection Reference | Update |
|------------|--|---|--|
| 07/03/2013 | OSI-SAF Southern Hemisphere Low Resolution Sea Ice Drift | EO:EUM:DAT:MULT:PROBS5 EO:EUM:DAT:MULT:GBL-LR-SID | Start of distribution on EUMETCast |
| 28/02/2013 | Meteorological products from Meteosat First Generation – Clear Sky Radiances Clear Sky Water Vapour Winds | EO:EUM:DAT:MFG:VWV-IODC EO:EUM:DAT:MFG:ELW-IODC EO:EUM:DAT:MFG:CSR-IODC | Start of meteorological MFG product distribution on EUMETCast |
| 20/02/2013 | IASI GDS Level 1C from Metop-B | EO:EUM:DAT:METOP:IASIL1C-RED | Start of distribution on EUMETCast (All) Start of distribution on GTS-RMDCN |
| 13/02/2013 | GOME-2 GDS Level 1B from Metop-B | EO:EUM:DAT:METOP:GOMEL1 | Start of GOME-2 GDS Level 1B product distribution from Metop-B on EUMETCast |
| 21/01/2013 | Meteosat 0 degree services | | Replacement of Meteosat-9 by Meteosat-10 as prime satellite for the 0 degree services. |
| 08/01/2013 | OSI-SAF OSCAT Winds at 50 km Swath Grid | EO:EUM:DAT:OCEANSAT:OSCAT50 | Start of distribution of OSI-SAF OSCAT Wind Product on EUMETCast |

Product updates (2012)

| Date | Product | Collection Reference | Update |
|------------|---|---|--|
| 18/12/2012 | ASCAT Level 2 soil moisture products from Metop-B | EO:EUM:DAT:METOP:SOMO12 EO:EUM:DAT:METOP:SOMO25 | Start of distribution on EUMETCast and on GTS-RMDCN |
| 18/12/2012 | Meteosat-10 (MSG-3) image data and meteorological products | | Start of dissemination on EUMETCast-Europe, in parallel to Meteosat-9. |
| 17/12/2012 | O3M SAF Near Real Time Total Column Product | EO:EUM:DAT:METOP:NTO | Product update |
| 11/12/2012 | AMSU-A, HIRS and MHS GDS Level 1B from Metop-B | EO:EUM:DAT:METOP:AMSUL1 EO:EUM:DAT:MULT:HIRSL1 EO:EUM:DAT:MULT:MHSL1 | Start of distribution on GTS-RMDCN |
| 11/12/2012 | AVHRR, AMSU-A, HIRS and MHS GDS Level 1B from Metop-B | EO:EUM:DAT:METOP:AVHRR1 EO:EUM:DAT:METOP:AMSUL1 EO:EUM:DAT:MULT:HIRSL1 EO:EUM:DAT:MULT:MHSL1 | Start of distribution on EUMETCast |
| 04/12/2012 | ASCAT GDS Level 1B from Metop-B | EO:EUM:DAT:METOP:ASCSZR1B EO:EUM:DAT:METOP:ASCSZO1B | Start of distribution on EUMETCast and on GTS-RMDCN |
| 15/11/2012 | GRAS GDS Level 1B from Metop-B | EO:EUM:DAT:METOP:GRASL1 | Start of distribution on EUMETCast and on GTS-RMDCN |
| 15/11/2012 | EARS-IASI | EO:EUM:DAT:METOP:EARS-IASI | Start of distribution on the GTS |
| 22/10/2012 | EARS-IASI | EO:EUM:DAT:METOP:EARS-IASI | Changes: |

| Date | Product | Collection Reference | Update |
|------------|--|---|--|
| | | | <ul style="list-style-type: none"> • Update of AAPP to v7.3 • Update of BUFR MASTER Table version from 14 to 16 • Update of sub-centre value in the BUFR product • Update of OPS-LRS to V6-0+p12 • BUFR message date and time changed to be according to observation time instead of file creation time. • Number of BUFR message per scan set to 5 to decrease the size of each message. This is to be compatible with GTS/RMDCN distribution, where the message size limit is set to 50kB. |
| 22/10/2012 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Update of AAPP to v7.3 |
| 08/10/2012 | O3M-SAF GOME-2 | | Product Data and Format Upgrade |
| 02/10/2012 | OSI-SAF ASCAT Coastal Winds at 12.5 km Swath Grid | EO:EUM:DAT:METOP:OSI-104 | Start of distribution on the GTS |
| 18/09/2012 | EARS-ASCAT | EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 | Upgrade of the Level-2 processor at KNMI |
| 05/09/2012 | Volcanic Ash Detection Product in netCDF (VOLE) | EO:EUM:DAT:MSG:VOLE | Inclusion on EUMETCast |
| 05/09/2012 | Atmospheric Motion Vector (AMV) | EO:EUM:DAT:MSG:AMV | Algorithm update using the Cross-Correlation Contribution (CCC) Method |
| 05/09/2012 | Active Fire Monitoring in CAP format | EO:EUM:DAT:MSG:FIRC | Change to OID identifiers |
| 05/09/2012 | Volcanic Ash Detection Product in CAP format | EO:EUM:DAT:MSG:VOL | Changes to the product: <ul style="list-style-type: none"> • Indication of area affected by a polygon and inclusion of the ash mass loading as parameter • Change to OID identifiers |
| 21/08/2012 | H-SAF Precipitation rate at ground by MW conical scanners / Precipitation rate at ground by MW cross-track scanners / Snow detection (snow mask) by VIS/IR radiometry | EO:EUM:DAT:DMSP:PROBS1 EO:EUM:DAT:MULT:PROBS2 EO:EUM:DAT:MSG:SNOBS1 | Inclusion on EUMETCast |

| Date | Product | Collection Reference | Update |
|-------------|--|---|---|
| 31/07/2012 | NPP CrIS and ATMS Sensor Data Records | EO:EUM:DAT:SUOMI_NPP:ATMSSDR EO:EUM:DAT:SUOMI_NPP:CRISDR | Inclusion on EUMETCast and on the GTS |
| 31/07/2012 | Jason-2 NRT products | EO:EUM:DAT:JASON:OGDR-BUFR EO:EUM:DAT:JASON:OGDR-SSHA | Jason-2 processor update to OGDR-D standard |
| 18/07/2012 | Jason-2 OGDR-BUFR products | EO:EUM:DAT:JASON:OGDR-BUFR | Update of the OGDR-BUFR encoding to user version 16 of the WMO BUFR tables See the WMO BUFR tables on the WMO website |
| 10/05/2012 | LSA-SAF EPS based products (DSLIF and LST) | EO:EUM:DAT:METOP:DSLIF EO:EUM:DAT:METOP:LST-AVHRR | Removal from EUMETCast |
| 26/04/2012 | EARS-IASI | EO:EUM:DAT:METOP:EARS-IASI | Inclusion on EUMETCast |
| 24/04/2012 | OSI-SAF Full Resolution Sea Surface Temperature Metagranules | EO:EUM:DAT:METOP:MGR-SST | Inclusion on EUMETCast |
| 15/03/2012 | LSA-SAF Fire Risk Map (FRM) and Fire Detection and Monitoring (FDeM) products | EO:EUM:DAT:MSG:FRM EO:EUM:DAT:MSG:FDEM | Inclusion on EUMETCast |
| 01/03/2012 | OSI SAF MAP and LML products | EO:EUM:DAT:MULT:LMLSST EO:EUM:DAT:MULT:LMLDLI EO:EUM:DAT:MULT:LMLSSI EO:EUM:DAT:MULT:OSSTMAP EO:EUM:DAT:MULT:MAPDLI EO:EUM:DAT:MULT:MAPSSI | Removal from EUMETCast |
| 28/02/2012 | IASI L2 products | | Release of IASI L2 processor version 5.3. <ul style="list-style-type: none"> • Introduction of a chi square method for retrieval of cloud properties to complement the existing CO2-slicing method. This leads to an increase of the yield of cloud parameters from about 48% to 70%. • Update of the SSES values for the IASI SST L2PCore product. |
| 08/02/2012 | EPS products | | File naming change of BUFR-formatted EPS global products disseminated on EUMETCast to the WMO file format |
| 08/02/2012 | MSG products | | Changes to the Meteosat Second Generation Meteorological Product generation |
| 24/01/2012 | GOME-2 | EO:EUM:DAT:METOP:GOMEL1 | Upgrade of GOME-2 level 0 to 1B processor to version 5.3 |
| 16/01/2012 | Atlantic High Latitude products | EO:EUM:DAT:MULT:AHL-SST EO:EUM:DAT:MULT:AHL-DLI | Inclusion on EUMETCast |

| Date | Product | Collection Reference | Update |
|------|---------|-------------------------|--------|
| | | EO:EUM:DAT:MULT:AHL-SSI | |

Product updates (2011)

| Date | Product | Collection Reference | Update |
|------------|--|---|--|
| 13/12/2011 | AVHRR Polar Winds | EO:EUM:DAT:METOP:AVHRAMV | Upgrade to AVHRR Polar Winds Processor |
| 07/12/2011 | DCP Data | EO:EUM:DAT:MSG:DCP | Consolidation of the way EUMETSAT disseminates Meteosat DCP data |
| 23/11/2011 | EARS ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | AAPP processing thresholds for NOAA-19 AMSU-A channel 8 revised to avoid missing channel data in EARS ATOVS products. |
| 15/11/2011 | EPS Data | | Compression of Level 1 EPS data in Native/PFS format prior to their dissemination on EUMETCast. |
| 02/11/2011 | ASCAT Coastal Winds | EO:EUM:DAT:METOP:OSI-104 | Inclusion of ASCAT Coastal Winds from OSI SAF on EUMETCast |
| 19/10/2011 | IASI Level 2 | EO:EUM:DAT:METOP:192 | Upgrade to IASI Level 2 Processor |
| 06/10/2011 | Geostationary OSI SAF Products | EO:EUM:DAT:METEOSAT:OSIHSST EO:EUM:DAT:GOES:OSIHSST EO:EUM:DAT:METEOSAT:OSIHDLI EO:EUM:DAT:GOES:OSIHSSI EUM:DAT:GOES:OSIHDLI EO:EUM:DAT:METEOSAT:OSIHSSI | Inclusion on EUMETCast |
| 21/09/2011 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | AAPP Metop AMSU Processing Thresholds for EARS ATOVS products revised to avoid missing channel data |
| 06/09/2011 | GOME-2 Level 1b | EO:EUM:DOC:METOP:191 | Upgrade of GOME-2 Level 1b processor to version 5.2.0 to improve the radiometric calibration of polarisation measurement device data |
| 24/08/2011 | GRAS Level 1b | EO:EUM:DAT:METOP:GRASL1 | Inclusion of the azimuth angle of the occultation plane measured in degrees clockwise against North |
| 23/08/2011 | EARS ASCAT | EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT25 | Addition of HRPT data into EARS ASCAT |
| 23/08/2011 | Normalised Difference Vegetation Index (NDVI) | EO:EUM:DAT:MSG:NDVI | Extension of the product availability to EUMETCast users in Americas |
| 18/08/2011 | ASCAT | EO:EUM:DAT:METOP:ASCSZO1B EO:EUM:DAT:METOP:ASCSZR1B EO:EUM:DAT:METOP:SOMO12 | Upgrades of the ASCAT processors: 1. An improved backscatter calibration is applied |

| Date | Product | Collection Reference | Update |
|------------|--|--|--|
| | | EO:EUM:DAT:METOP:SOMO25 | to the ASCAT Level 1 products. 2. An improved parameter database is introduced in the ASCAT Level 2 soil moisture processing. |
| 09/08/2011 | IASI GDS Level 1C - reduced spectral samples - Metop | EO:EUM:DAT:METOP:IASIL1C-RED | IASI Reduced Spectral Samples (366 channels) available on EUMETCast |
| 07/07/2011 | Clear-Sky Reflectance Map - MSG - 0 degree | EO:EUM:DAT:MSG:CRM | Increase of Clear-Sky Reflectance Map products in EUMETSAT'S Data Centre. |
| 23/06/2011 | Hydrology SAF Products | EO:EUM:DAT:MSG:PROBS3 EO:EUM:DAT:MULT:PRASS1 EO:EUM:DAT:METOP:SMOBS2 | Inclusion on EUMETCast |
| 16/06/2011 | EARS ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Inclusion of provision of Metop-A products from NOAA stations in Miami, Monterey and Ewa Beach |
| 15/06/2011 | Cloud Top Height - MSG - 0 degree | EO:EUM:DAT:MSG:CTH | Increase of dissemination frequency from hourly to every 15 minutes |
| 10/06/2011 | Metop-A Product Delivery | | Faster Metop-A Global Data Delivery using McMurdo Station in Antarctica |
| 13/04/2011 | EARS-ASCAT | EO:EUM:DAT:METOP:EARS-ASCAT25 | Extension of EARS ASCAT availability to EUMETCast users in Africa |
| 06/04/2011 | IASI | | Increase of the number of IASI channels on the GTS from 300 to 366 |
| 30/03/2011 | EARS ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Phased removal of NOAA-17 from Regional Data Services EARS ATOVS |
| 24/03/2011 | Active Fire Monitoring (ASCII) - MSG - 0 degree / RSS | EO:EUM:DAT:MSG:FIR-ASCII EO:EUM:DAT:MSG:RSS-FIR-ASCII | Product superseded |
| 24/03/2011 | Active Fire Monitoring (CAP) - MSG - 0 degree / RSS | EO:EUM:DAT:MSG:FIRC EO:EUM:DAT:MSG:RSS-FIRC | Inclusion on EUMETCast ('Demonstration' status) |
| 24/03/2011 | Total Ozone - MSG - 0 degree | EO:EUM:DAT:MSG:TOZ | Change of resolution from a 16x16 pixel to a 3x3 pixel averaged product. |
| 24/03/2011 | Volcanic Ash Detection (CAP) - MSG - 0 degree | EO:EUM:DAT:MSG:VOL | Product released (demonstration) |
| 24/03/2011 | RSS Regional Instability Index - MSG - 9.5 degrees East | EO:EUM:DAT:MSG:RII | Product generation and dissemination increased to every 5-minutes |
| 24/03/2011 | Regional Instability Index - MSG - 0 degree | EO:EUM:DAT:MSG:RIIE | Product discontinued |
| 24/03/2011 | RSS Global Instability Index (GII) | EO:EUM:DAT:MSG:RSS-GII | Product discontinued |
| 24/03/2011 | IASI L2PCore Sea Surface Temperature (GHR SST) - Metop | EO:EUM:DAT:METOP:IAS SST02 | Product released (demonstration) |
| 15/03/2011 | IASI Level 1C Principal Component (PC) Scores products | EO:EUM:DAT:METOP:IASPCS01 | Inclusion on the GTS-RMDCN |

| Date | Product | Collection Reference | Update |
|------------|--|--|---|
| 28/02/2011 | ASCAT OSI SAF Wind | EO:EUM:DAT:METOP:ASCAT12 EO:EUM:DAT:METOP:ASCAT25 | Discontinuation of ASCAT OSI SAF wind-only BUFR product on EUMETCast. Product superseded by ASCAT Level 2 multi-parameter BUFR Product |
| 23/02/2011 | AVHRR Polar Winds | EO:EUM:DAT:METOP:AVHRAMV | Improvement to stop intermittent outages and improve quality of winds crossing the 180/-180 deg longitude boundary |
| 22/02/2011 | IASI Level 1C Principal Component Scores and Residuals | EO:EUM:DAT:METOP:IASPCS01 EO:EUM:DAT:METOP:IASPCR01 | IASI PC Scores and Residuals reach operational status |
| 17/02/2011 | Regional Instability Index (RII) | EO:EUM:DAT:MSG:RIIE | Increase of the coverage of the pixel resolution to include Europe |
| 17/02/2011 | Global Instability Index (GII) | EO:EUM:DAT:MSG:GII | Change in resolution from a 15x15 pixel product to a 3x3 pixel averaged product |
| 17/02/2011 | Normalised Difference Vegetation Index - MSG - 0 degree | EO:EUM:DAT:MSG:NDVI | Product Released in conjunction with a hardware system upgrade (status: pre-operational) |
| 17/02/2011 | Aerosol Properties over Sea - MSG - 0 degree | EO:EUM:DAT:MSG:AES | Product Released in conjunction with a hardware system upgrade (status: demonstration) |
| 09/02/2011 | IASI L1C | EO:EUM:DAT:METOP:IASIL1C-ALL | BUFR encoded IASI L1c product update: The BUFR encoded IASI L1c product has been updated such that, in the rare event that there is no geolocation information available for a pixel, this pixel will be excluded from the product. In the current implementation, the pixel is retained, but with the geolocation information encoded as "missing" |
| 09/02/2011 | GRAS GDS Level 1B - Metop | EO:EUM:DAT:METOP:GRASL1 | Removal of High Resolution GRAS BUFR product from EUMETCast |
| 25/01/2011 | Metop AVHRR Polar Winds | EO:EUM:DAT:METOP:AVHRAMV | Start of operational dissemination on EUMETCast and GTS-RMDCN |
| 18/01/2011 | Low-Rate SEVIRI data | EO:EUM:DAT:MSG:LRSEVIRI | Removal of Low-Rate SEVIRI data from EUMETCast (the data will remain available via FTP and direct dissemination) |
| 18/01/2011 | Metop-A Direct Readout Service | | Extension to service |
| 12/01/2011 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Update of AAPP to version 6.14 for all EARS stations ATOVS and AVHRR Pre-processing Package (AAPP) |
| 11/01/2011 | ASCAT Level 2 multi-parameter BUFR product | EO:EUM:DAT:METOP:OAS012 EO:EUM:DAT:METOP:OAS025 | Release of the global ASCAT Level 2 multi-parameter BUFR product, containing all three backscatter, wind and soil moisture parameters, in support of Numerical Weather Prediction applications |
| 05/01/2011 | GOME-2 | EO:EUM:DAT:METOP:GOMEL1 | Update of GOME-2 level 0 to 1B processor to version |

| Date | Product | Collection Reference | Update |
|------|---------|----------------------|---|
| | | | 5.0, implying an update of the product format to version 12.0 |

Product updates (2010)

| Date | Product | Collection Reference | Update | |
|------------|--|--|--|-----------------|
| 08/12/2010 | IASI Principal Component Scores (PCS) | EO:EUM:DAT:METOP:IASPCS01 | Change of IASI PCS BUFR filename: '.lc' replaced with '.l1' | |
| 30/11/2010 | IASI Surface Emissivity products | EO:EUM:DAT:METOP:IASIL2EMS | Inclusion on EUMETCast | |
| 15/11/2010 | High Latitude Sea Ice - DMSP | EO:EUM:DAT:DMSP:HLSI | Removal from EUMETCast. Superseded by the North Hemisphere products that form, together with the South Hemisphere products, the Global Sea Ice coverage. | OSI SAF Website |
| 29/09/2010 | IASI Principal Component Scores | EO:EUM:DAT:METOP:IASPCS01 | Inclusion on EUMETCast | |
| 14/09/2010 | EARS-AVHRR | EO:EUM:DAT:MULT:EARS-AVHRR | Removal of NOAA-17 data from the EARS-AVHRR service | |
| 14/09/2010 | IASI Level 2 | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:NOP EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2TRG | Upgrade of IASI Level 2 processor - Overall improvement of TWT (Atmospheric Temperature Water Vapour), CLP (Cloud Parameters) products and operational quality for Ozone products and CO in the TRG (Trace Gases) product. | |
| 09/09/2010 | GOME-2 | EO:EUM:DAT:METOP:GOMEL1 | Upgrade of GOME-2 level 1 data processor - Improvement of the accuracy of the along-track geo-location reference data in the GOME-2 level 1 products. | |
| 11/08/2010 | METOP AVHRR Polar Winds | EO:EUM:DAT:METOP:AVHRAMV | Inclusion on EUMETCast | |
| 27/07/2010 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Addition of the Muscat Station to the EARS-ATOVS Service | |
| 20/07/2010 | GRAS Level 1b | EO:EUM:DAT:METOP:GRASL1 | Upgrade of auxiliary data service for GRAS processing (GRAS GSN), resulting in an improvement of the quality and availability of the GRAS precise orbits | |

| Date | Product | Collection Reference | Update | |
|------------|--|--|---|---|
| | | | included in the GRAS Level 1b products. | |
| 07/07/2010 | ASCAT Level 2 Soil Moisture BUFR products | EO:EUM:DAT:METOP:ASCSZR1B EO:EUM:DAT:METOP:ASCSZO1B EO:EUM:DAT:METOP:SOM012 EO:EUM:DAT:METOP:SOM025 | Correction of software identification fields in the ASCAT Level 2 Soil Moisture BUFR products | |
| 23/06/2010 | EARS-AVHRR | EO:EUM:DAT:MULT:EARS-AVHRR | Addition of FDES data to the EARS-AVHRR service | |
| 08/06/2010 | Cloud Top Height | EO:EUM:DAT:MSG:CTH | Increase in the EUMETCast dissemination frequency from 3-hourly to 1-hourly (change on EUMETCast Europe and EUMETCast Africa) | |
| 18/05/2010 | IASI Level 1C | EO:EUM:DAT:METOP:IASIL1C | Change of format and contents | |
| 12/05/2010 | NAR SST: North Atlantic and Regional Sea Surface Temperature | EO:EUM:DAT:MULT:OSSTNAR EO:EUM:DAT:MULT:NOAA-OSSTNAR | Changes in the coding of NAR SST products in GRIB 2 format | OSI SAF website |
| 29/04/2010 | NOP: NRT Ozone Profile OOP: Off-line Ozone Profile ARS (AAI): Absorbing Aerosol Indicator | EO:EUM:DAT:METOP:NOP EO:EUM:DAT:METOP:ARSAAI EO:EUM:DAT:METOP:OOP | Upgrade of the O3M SAF PGE software at KNMI | O3M SAF website - documents O3M SAF website - products |
| 29/04/2010 | Fire Radiative Power - GRID product | EO:EUM:DAT:MSG:FRPGRID | Inclusion on EUMETCast | LSA SAF website |
| 14/04/2010 | EARS-AVHRR | EO:EUM:DAT:MULT:EARS-AVHRR | Addition of Moscow data to EARS-AVHRR | |
| 14/04/2010 | Jason-2 OGDR-BUFR products | EO:EUM:DAT:JASON:OGDR-BUFR | Change of formats and filenames | |
| 08/04/2010 | Low Resolution Sea Ice Drift (North Hemisphere) | EO:EUM:DAT:MULT:GBL-LR-SID | Inclusion on EUMETCast | See OSI SAF website |
| 18/03/2010 | ASCAT L2 Surface Soil Moisture (SOMO) | EO:EUM:DAT:METOP:SOM012 EO:EUM:DAT:METOP:SOM025 | Extension of the product availability to EUMETCast users in Africa | |
| 18/03/2010 | ATOVS L2 Sounding Product | EO:EUM:DAT:METOP:ATOVSL2 EO:EUM:DAT:NOAA:ATOVSL2 | Extension of the product availability to EUMETCast users in Africa and America | |
| 16/03/2010 | EARS-AVHRR | EO:EUM:DAT:MULT:EARS-AVHRR | Addition of Metop-A AHRPT data to EARS-AVHRR | |
| 15/03/2010 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Update of AAPP to v6.12 for all EARS stations | |
| 09/03/2010 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | BUFR bulletin size increase for all EARS-ATOVS L1c products | |
| 09/03/2010 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Addition of the METOP-A data from the Fast Dump Extract System (FDES) to the | |

| Date | Product | Collection Reference | Update | |
|------------|---|--|--|---------------------|
| 08/03/2010 | OTO: Off-line Total Column NTO: Near Real Time Total Column | EO:EUM:DAT:METOP:OTO EO:EUM:DAT:METOP:NTO | EARS-ATOVS service Upgrade of the 03M SAF processing system, resulting in enhancements of the indicated products | |
| 03/03/2010 | IASI Atmospheric Temperature Water Vapour and Surface Skin Temperature IASI Cloud Parameters IASI Ozone IASI Trace Gases | EO:EUM:DAT:METOP:IASIL2TWT EO:EUM:DAT:METOP:IASIL2OZO EO:EUM:DAT:METOP:IASIL2CLP EO:EUM:DAT:METOP:IASIL2TRG | Inclusion of all Fields of View (FOVs) in IASI Level 2 near-real-time disseminated products, resulting in doubling the size of the indicated products on the EUMETCast and GTS dissemination | |
| 02/03/2010 | NOP: NRT Ozone Profile OOP: Off-line Ozone Profile ARS (AAI): Absorbing Aerosol Indicator | EO:EUM:DAT:METOP:NOP EO:EUM:DAT:METOP:ARSAAI EO:EUM:DAT:METOP:OOP | Upgrade of Processor to version 1.22 | See OSI SAF website |
| 11/02/2010 | EARS-ATOVS | EO:EUM:DAT:MULT:EARS-ATOVS | Addition of the Moscow station to the EARS-ATOVS service | |
| 02/02/2010 | All OSI-SAF products | | Availability of all OSI-SAF products disseminated on EUMETCast to users in Africa and the Americas | See OSI SAF website |
| 12/01/2010 | EARS-ASCAT and ERS-2 wind products | EO:EUM:DAT:METOP:EARS-ASCAT EO:EUM:DAT:METOP:EARS-ASCAT-25 EO:EUM:DAT:ERS2:EARSERS-SCAT | Encoding in BUFR Edition 4 format | |

Product updates (1995 - 2009)

| Date | Update |
|--------------------|---|
| 7 Sep 2009 | Description: Implementation of BUFR Edition 4 encoding for MSG meteorological products and the Metop/NOAA Global Data Service. Impact: Change to BUFR Edition 4 parameter in the header. The products themselves remain unchanged. |
| 30 Jul 2009 | Description: Introduction of new algorithm (RTTOV) and update of Global Instability Index (GII) product algorithm for Meteosat-8 and Meteosat-9: 1. Radiative Transfer Model (RTTOV) introduced to replace SYNSATRAD model. 2. Introduction of monthly Surface Emissivity files. 3. GII product: Introduction of Layer Precipitable Water as three additional parameters to be disseminated. The parameter encoding for the disseminated BUFR product is planned for next software release. 4. GII product: New RTTOV MSG coefficients implemented (GENLIN v2 replaced by KCART v1.11). Impact: |

| Date | Update |
|---------------------------|--|
| | <ol style="list-style-type: none"> 1. Introduction of RTTOV has dramatically improved fire detection rate (FIR product) by about a factor of three. 2. Improved cloud detection accuracy (fewer 'false' clouds), especially towards limb of processing area, and fewer pixels left unclassified. 3. Determination of which of three atmospheric layers contributes most to total precipitable water content. 4. Slight differences in index values. |
| <p>4 Mar 2009</p> | <p>Description: Introduction of new entries in the BUFR Code and Flag tables for the All Sky Radiances (ASR) product.</p> <p>Impact: The encoding/decoding of the ASR product requires new entries in the BUFR Code and Flag Tables and Table D. In the Code and Flag Tables, new flags for low, medium and high cloud are added for the descriptor 0-08-003 (Vertical significance, satellite observations). In Table D, three new common sequences are defined, namely 3-10-028, 3-04-036 and 3-04-037.</p> |
| <p>16 Oct 2008</p> | <p>Description: Update of algorithm for active fire monitoring product for Meteosat-8 and Meteosat-9.</p> <p>Impact: The new version of the algorithm is based on predicted top of atmosphere radiances, by using ECMWF forecasts and pixel-based emissivity maps as inputs for radiative transfer calculation. The new algorithm significantly improves the detection of fires, whilst reducing the number of false alarms.</p> |
| | <p>Description: Replacement of quality flag in disseminated All Sky Radiances (ASR) product by standard deviation, considered to be more useful to users.</p> <p>Impact: No change in product structure. The quality flag is still part of the products but the values are set to 'missing' (for the time being) to keep the number of BUFR bulletins inside the product file under the allowed limit. Initially, the standard deviation values were set to missing instead.</p> |
| <p>22 Jul 2008</p> | <p>Description: The MSG RII product declared fully operational.</p> <p>Impact: The Regional Instability Index (RII) product is derived using the same algorithm as the GII product, but on pixel resolution and a regional coverage of 400 by 400 pixels. The product is available every 15 minutes and u.f.n. covers central Europe. For details, please go to the Product Navigator, or the MSG MPEF Algorithm Specification Document, available from our web site.</p> |
| <p>26 Jun 2008</p> | <p>Description: The MSG ASR product was declared fully operational</p> <p>Impact: The All Sky Radiances (ASR) product contains information on mean brightness temperatures for both clear and cloudy regions, thereby extending the information already available in the Clear Sky Radiance (CSR) product, which is also included in the ASR. The ASR is available every 15 minutes. For details, please go to the Product Navigator, or the MSG MPEF Algorithm Specification Document, available from our web site.</p> |
| <p>5 May 2008</p> | <p>Description: Introduction of new MSG L1.5 radiance definition.</p> <p>Impact: In the Active Fire Monitoring (FIR) product more probable and possible fires are detected with the new definition.</p> <p>Description: Update of the Meteosat-8 VIS Calibration Coefficients</p> <p>Impact:</p> |

| Date | Update |
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| | Updated calibration coefficient in the Meteosat-8 Image header. |
| 9 Apr 2008 | <p>Description: An improvement in the cloud detection in the sunglint area was introduced operationally</p> <p>Impact: The cloud detection in the sunglint area has been improved. Currently the cloud detection uses the Meteosat channels in the visible region of the spectrum, and a pixel will be classified as unidentified when all cloud tests using the visible channels fail. The cloud detection algorithm has been modified in such a way that, when all tests using the visible channels fail, the algorithm shall use only those tests using the Meteosat channels in the infrared region of the spectrum. Therefore the impact is a reduction in the number of unclassified pixels in the sunglint region.</p> |
| 6 Mar 2008 | <p>Description: Regional Instability Index (RII) Product processing area move</p> <p>Impact: EUMETSAT plans to move the processing area for the Regional Instability Index (RII) Product from Africa back to Europe at 14:00 UTC.</p> |
| 21 Dec 2007 | <p>Description: Update of the Clear Sky Reflectance Map (CRM) product</p> <p>Impact: In order to avoid unrealistically large reflectance in the most southern part of the Atlantic Ocean, the CRM product has been updated.</p> |
| 20 Dec 2007 | <p>Description: New parameter fields in the Multi-Sensor Precipitation Estimate (MPE) product</p> <p>Impact: Two quality parameter fields have been added to the MPE product.</p> |
| 7 Nov 2007 | <p>Description: Change of Region for the Regional Instability Index (RII) Product</p> <p>Impact: The area where the demonstrational RII product is determined has moved from Europe to South Africa till the end of January 2008.</p> |
| 30 Aug 2007 | <p>Description: Clear Sky Reflectance Map (CRM) generated daily</p> <p>Impact: The Clear Sky Reflectance Map (CRM) product generation will be increased from twice per week to daily. The daily product will be generated at midday.</p> |
| 28 Aug 2007 | <p>Description: Update of the internal scenes analysis algorithm</p> <p>Impact: The internal scenes analysis algorithm will be updated to improve cloud detection especially over sea areas. The greatest impact will be noticed in the detection of clouds below 700 hPa, of clouds during twilight periods and of clouds over coastal regions. The change will mainly impact the Cloud Mask (CLM) and the Cloud Analysis (CLA) products with a small impact on the Clear Sky Radiance (CSR) and the Atmospheric Motion Vector (AMV) products.</p> |
| 19 Apr 2007 | <p>Description: Active Fire Monitoring in ASCII format (FIRA) and Divergence (DIV) introduced as operational products</p> |
| 11 Apr 2007 | <p>Description: 13:00 UTC: Meteosat-9 became the prime satellite for the 0 degrees services.</p> <p>Impact:</p> |

| Date | Update |
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| | <p>The GTS headers bulletin headers previously used for the Meteosat-8 meteorological products (e.g. IUVA01), contain Meteosat-9 meteorological products from 11 April 2007 onwards. The GTS bulletin headers previously used for the Meteosat-9 meteorological products (e.g. IWVA01) contain Meteosat-8 meteorological products from 11 April 2007 onwards.</p> |
| <p>22 Mar 2007</p> | <p>Description: 13:00 UTC: Increase of the Earth-disc coverage area Impact: The Earth-disc coverage area for Meteosat-8 and Meteosat-9 meteorological product processing was increased to an area that extends approximately from 65S to 65N along the Greenwich meridian and from 65W to 65E along the equator. Description: 10:00 UTC: Update of the Meteosat-8 and Meteosat-9 Atmospheric Motion Vector Product. The following changes were introduced:</p> <ul style="list-style-type: none"> • Dynamic Clustering with low-level scenes merging instead of layering. • Selection of scene with coldest EBBT. • AMV located at point of maximum local SD instead of max difference. • Enhancement of CO2 method in temperature inversion areas. • STC and IR/WV heights used for a narrow selection of AMVs (all channels). • Cloud Base Height assignment (CBH) corrects now downwards only. • Inversion Height Correction (IHC) corrects now downwards only. • Inversion Height Correction disabled for 6.2 and 7.3 AMVs. • Modified Final AMV averaging. <p>Impact: A general increase in AMV pressure, small for high levels, bigger for low levels. An increased number of High-QI AMVs for high levels (all channels) and at low levels (IR 10.8, VIS 0.8 and HRV), together with a reduced numbers of outliers at medium levels.</p> |
| <p>6 Feb 2007</p> | <p>Description: Start of dissemination via EUMETCast of Active Fire Monitoring and Multi-sensor Precipitation Estimate in GRIB2 format (FIRG and MPEG).</p> |
| | <p>Description: GII changes Impact: Within the GII product the biases of the equivalent black body brightness temperatures (EBBT's) with respect to the ECMWF analysis, are added to the observed EBBT's. These bias corrections have been modified in the update of the GII product. For the users, however, the impact on the GII product is minor.</p> <p>Description: TOZ changes Impact:</p> |

| Date | Update |
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| | <p>Within the TOZ product two updates have been implemented. First of all new Malkmus Band Model Coefficients have been implemented, which reflect a more recent spectroscopical database for the internal radiation model within the TOZ algorithm. In addition two technical improvements have been made. These changes have the impact to decrease the bias between the TOZ product and the ECMWF analysed total ozone field, where this bias reduction is especially significant in areas of low ozone observations.</p> |
| <p>4 Sep 2006</p> | <p>Description: AMV changes Impact: Removal of AMV's from the VIS Channels in low illumination conditions</p> <hr/> <p>Description: AMV changes Impact: Improvements to some of the additional heights disseminated in the product. Note that the operational height assignment is not affected.</p> <hr/> <p>Description: AMV changes Impact: Introduction of the Recursive Filter Function (RFF). There is no impact on the operational data. The change only adds additional quality control information and a RFF adjusted height in the 10th height assignment field for each vector.</p> |
| <p>30 Aug 2006</p> | <p>Description: TH Product Encoding Change Impact: Encoding of the TH product modified so that relative humidities of 0 % or 100 % are encoded as missing data.</p> |
| <p>21 Jul 2006</p> | <p>Description: MPE Product Dissemination Changes Impact: Start of dissemination of the Meteosat-8 MPE product via the Internet, and at the same time termination of the Meteosat-7 MPE product dissemination via the Internet.</p> |
| <p>11 May 2006</p> | <p>Description: FIRE Product Changes Impact: The thresholds for detecting FIRE and Potential FIRE have been modified. The impact is a reduction in the false alarm rates in coastal areas, near rivers and near cloud edges.</p> |
| <p>19 Apr 2006</p> | <p>Description: Update VIS Calibration Meteosat-9 Impact: Updated Visible Channel calibration coefficients for Meteosat-9</p> |
| <p>17 Feb 2006</p> | <p>Description: GII Product Changes Impact: The Automatic Quality Control for the GII product has been modified. It is determined using the following relation: Quality Indicator (%) = 100</p> |

| Date | Update |
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| | % - Cloud Cover (%) within the relevant segment area. |
| 7 Feb 2006 | Description: Change in input data for radiative transfer model Impact: The radiative transfer model now uses the Ozone forecasts from ECMWF. |
| 1 Dec 2005 | Description: GII BUFR Encoding Change Impact: The maximum buoyancy parameter in the GII BUFR product has been activated. Description: AMV Changes Impact: For the CO2 height assignment method the IR 12.0 μ m Channel shall be used instead of the IR 10.8 μ m Channel. In addition the IR/WV EBBT height assignment method has been modified to take the atmospheric absorption above clouds into account. The most noticeable differences are introduced for the AMV's from the WV channels. |
| 27 Oct 2005 | Description: Addition of fire detection product Impact: Addition of fire detection product and its GRIB2 encoding using NCEP GRIB encoder. The product is for the time being disseminated via the Web and via FTP. Description: GII correction Impact: An improvement has been made in the derivation of the GII product, which results in an increase in the total number of observations within each product. |
| 6 Oct 2005 | Description: AMV changes Impact: 1. Reduce the overall quality of those winds that have speeds lower than a critical value (nominal value is 2.5 m/s). The quality is reduced by the following factor: speed threshold / actual speed. This QI reduction of slow winds has been adopted from MTP MPEF, where it has proven successful in filtering out very weak winds. These winds are in many cases not tracking any physical feature such as clouds, but tracking pixels moving due to image rectification errors. The impact is very small.2. Applying cloud base height re-assignment . The height is re-assigned for low level AMVs which are not using the inversion height assignment. The impact is small.3. Include up to 10 configurable height assignment method results to be BUFR encoded. The Final Height is not impacted, but the user can in principle select for use or monitoring any of these 10 heights. For cloud targets 9 height assignment methods are written out in the following order: IR or WV EBBT, Semi-Transparency Correction (6.2/10.8), Semi-Transparency Correction (7.3/10.8), IR/WV Ratioing (6.2/10.8) , IR/WV Ratioing (7.3/10.8), CO2 Absorption (10.8/13.4) Representative, CO2 Absorption (10.8/13.4) Sampled (Arithmetic Mean), CO2 Absorption (12.0/13.4) Representative, CO2 Absorption (12.0/13.4) Sampled (Arithmetic Mean). The 10th slot is empty. For clear-sky targets 5 height assignment methods are written out in the following order: WV EBBT, Cumulative Contribution Function (10% level), Cumulative Contribution Function (50% level), Cumulative Contribution Function (90% level), Maximum Contribution Function. The last 5 slots are empty. |

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| 2 Aug 2005 | Description: Introduction on EUMETCast of Clear Sky Reflectance Map (CRM) Impact: - |
| 20 Jul 2005 | Description: CTH change Impact: The CTH product contains a valid height for pixels in a narrow strip beyond the southern and eastern horizon |
| 11 Jul 2005 | Description: GII change Impact: Activation of the following three GII parameters: KI_Index, KO_Index, LI_Index |
| 21 Jun 2005 | Description: The Cloud Analysis Image (CLAI) and the Cloud Top Height (CTH) products changed from their current format to GRIB2 Impact: Format changes to CLAI and CTH |
| 28 Apr 2005 | Description: <ol style="list-style-type: none"> 1. The old clustering method of the pixel-based scenes analysis was based on atmospheric layers predetermined by set-up parameters. This could cause artificial separation of clusters when pixels were close to a separation layer, or artificial clustering of different groups of pixels if they were in the same predefined layer. This method is now replaced by a dynamic approach using a one-dimensional histogram analysis that uses the scene type information from the cloud analysis. 2. Use of actual spacecraft position instead of nominal sub-satellite point. 3. Don't create an AMV from a blank image. 4: Speed up Euclidian distance calculation. 4. Only use the third component of the temporal AQC if it contributes to the final product vector and height. Impact: AMV changes. |
| 31 Mar 2005 | Description: Update of VIS calibration Impact: Updated Visible channel calibration coefficients |
| 22 Mar 2005 | Description: Introduction of HRV VIS winds Impact: Introduction of HRV atmospheric motion vectors in the AMV BUFR Product |
| 4 Mar 2005 | Description: Correction of CTH navigation data Impact: Navigation of CTH data has been corrected. |
| 1 Feb 2005 | Description: |

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| | <p>10:00 UTC: Increased the EUMETCast dissemination frequency of the Atmospheric Motion Vectors (AMV) product from 3 hourly to hourly.</p> <p>Impact: -</p> |
| <p>31 Jan 2005</p> | <p>Description: Correction of the time stamp in all MSG BUFR coded meteorological products.</p> <p>Impact: An error in the observation time in Section 4 of the AMV BUFR product and in Section 1 of all other BUFR products was corrected. The AMV observation time was changed from xx:45 to xx:30.</p> |
| <p>1 Dec 2004</p> | <p>Description: Changes to AMV height assignment</p> <p>Impact: The methodology for AMV height assignment has been re-engineered.</p> <hr/> <p>Description: Changes to AMV Automatic Quality Control</p> <p>Impact: The methodology for AMV AQC has been modified to use the following tests: 1. Temporal Vector Test, applied to the two last components only. (Double Weight) 2. Spatial Vector Test, applied to the surrounding vectors in the Final AMV Product. (Double Weight) 3. Image Correlation Test, applied a factor to low-level AMVs only. Since the Temporal and Spatial Vector tests are applied with double weight, the impact of the Forecast test is now 20%. Users are encouraged to use the Final QI without forecast influence. A detailed description of the MSG AMV AQC will follow later.</p> <hr/> <p>Description: Changes to AMV BUFR encoding.</p> <p>Impact: All pressure values reported in the AMV BUFR are now in Pa instead of hPa. Observation time in AMV BUFR set from 45 minutes past the hour to 30 minutes past the hour, reflecting the true observation time better.</p> <hr/> <p>Description: Changes to Cloud Analysis Product.</p> <p>Impact: Inversion Height Assignment is now applied directly to the CLA product. This has a minor impact on the CLA product itself, but will improve the separation of cloudy/clear AMVs. The principles of the method are described in EUM/MTP/TEN/0152 Inversion Height Correction for MSG CLA the cloud top is assigned to the coldest level in the inversion plus 30% of the inversion depth.</p> <hr/> <p>Description: Changes to Scenes Analysis.</p> <p>Impact: The maximum angular distance to the sunglint is enlarged according to the cosine of the sun zenith angle. The sunglint then becomes larger for high sun zenith angles and remains unchanged for small sun zenith angles.</p> <hr/> <p>Description: Pa to hPa change.</p> <p>Impact:</p> |

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| | <p>All pressure values reported in the AMV BUFR are now in Pa instead of hPa</p> <p>Description: Changes in Height assignment methodology</p> <p>Impact: Add sequential height assignment methodology; Fine tuning of height assignment scene analysis and contrast threshold parameters; AQC parameters changed so for WV channels only temporal vector and spatial test contributes to Overall Reliability (excluding forecast), and for VIS and IR channels, as for WV, but in addition the Image Correlation test is included for low-level (below 500 hPa) winds); Use Opaque scenes for the semi-transparency correction methods; For the old height assignment methodology, with opaque scenes only use the EBBT scheme if all other height assignment methods fail; Filter out VIS winds above 700 hPa in the BUFR product; Euclidean Distance now used as matching technique for WV clear-sky targets.</p> <p>Description: CLA height assignment</p> <p>Impact: Inversion height assignment for CLA implemented.</p> <p>Description: Observation time change in AMV BUFR</p> <p>Impact: Observation time in AMV BUFR set from 45 minutes past the hour to 30 minutes past the hour, reflecting the true observation time better.</p> <p>Description: Improvement in segmented CLA cloud amounts</p> <p>Impact: Calculation of cloud amounts in segmented CLA (BUFR) improved: 1: use the actual number of pixels in segments that lie on the edge of the disc and not the total in the segment. 2: The selection of segments whose centre is inside the area of interest has been based on the same test used in the scenes analysis.</p> |
| 7 Oct 2004 | <p>Description: TOE installed</p> <p>Impact: TOE activated instead of TOZ.</p> |
| 23 Aug 2004 | <p>Description: Changes to Scenes Classification, data from visual images are now used for cloud detection.</p> <p>Impact: More image pixels are now classified as cloud during daytime. The sunglint area is increased to avoid misclassification over sea in early morning / late evening.</p> <p>Description: Changes to Radiation Table generation.</p> <p>Impact: The vertical resolution of the RTM tables has been reduced above 100 hPa, and increased below 700 hPa. This is expected to improve height assignment for low-level winds, especially in inversion regions.</p> <p>Description:</p> |

| Date | Update |
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| | <p>New Distribution of RTM Forecast Levels.</p> <p>Impact: 1: New Distribution of RTM Forecast Levels. 2: VIS Tests enabled except in dawn/dusk areas and for high reflection angles BDRF uses now the nearest table value instead of the lower BDRF index value 3: The CLA data was not correctly written to the CLA Intermediate Product file. After processing image line number N, it is line number N minus 1 that is written to file (and to the memory buffer). This is all right, provided that the marginal image lines are handled properly. This was not the case. The bug has been fixed</p> <p>Description: Bug fix in the internal Cloud Analysis</p> <p>Impact: Correction of another one-pixel position error in the internal cloud analysis.</p> |
| 21 Jul 2004 | <p>Description: Release 14.0</p> <p>Impact: Scenes classification in AMV is now only based on cloud top height and phase (not SCE type)</p> |
| 20 Jul 2004 | <p>Description: Changes to Scenes Data and to the AMV product.</p> <p>Impact: The parameter settings during day/night-time were changed, impacting cloud detection. The spatial coherence test in Scenes Data is now enabled with the effect that more clouds are detected. The scene selection in AMV is now <u>not</u> using cloud type as selection criterion, thereby increasing the number of pixels per scene.</p> |
| 2 Jun 2004 | <p>Description: Bug fixes in the Cloud Analysis and Forecast Decoding Algorithm.</p> <p>Impact: Correction of a one-pixel position error in the internal cloud analysis. Correction in the decoding of the ECMWF forecast, temperature representing a layer instead of single level.</p> |
| 14 Apr 2004 | <p>Description: Several bug fixes in the AMV product.</p> <p>Impact: Use of actual surface pressure as received from ECMWF resulting in a small improvement in the height assignment of low-level AMVs. Corrections in IR/WV Ratioing height assignment method and corrections in the use of WV radiances by the WV AMV. From now on no winds are assigned a height of 102.5 hPa and there was also a general redistribution of WV AMVs from high to medium level.</p> |
| 6 Apr 2004 | <p>Description: The Clear Sky Reflector Map was modified.</p> <p>Impact: Dusk/dawn angles modified from 90/80 to 80/72 degrees respectively.</p> |
| 18 Mar 2004 | <p>Description: Reduction of the Global Instability Index (GII) product</p> <p>Impact: All parameters except total precipitable water content were removed. The quality of the data was too low.</p> |

| Date | Update |
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| 25 Feb 2004 | Description: Cloud Mask Product (CLM) Satellite ID changed from 71 to 55 Impact: Renaming from MSG-1 to Meteosat-8 |
| | Description: CTH fog indicator removed. Impact: The fog indicator did not provide usable information on presence of fog - all low clouds were classified as fog. |
| 24 Feb 2004 | Description: AMV spatial height test Impact: Initialisation of spatial height test fixed, and new parameter added for spatial height test and image correlation test |
| 10 Feb 2004 | Description: Updated Visible Calibration Coefficient Impact: |
| 29 Jan 2004 | Description: Formal start of MSG operations Impact: The spacecraft was renamed from MSG-1 to Meteosat-8 |

Changes to the MFG MPEF system (1995 - 2009)

| Date | Update |
|------------------------|---|
| 19 Feb 2009 | Description: Updates to the Meteosat-7 MPE product Impact: The following updates to the Multi-Sensor Precipitation Estimate (MPE) product for Meteosat-7 will be done: - New version of the MPE product added to Section 1 of the GRIB bulletin, increasing the size of this section (from 21 to 22 bytes) - Quality information added to the MPE GRIB product, using the same method for determination and dissemination as for the Meteosat-9 MPE product. |
| 1 Jan 2008 | Description: Changes to EUMETSAT CGMS Wind Report Impact: As of 1 January 2008 the EUMETSAT CGMS Wind Report for Meteosat-7 (IODC Service) is changed. From this date the same collocation algorithm is used for Meteosat-7 as already used for Meteosat-8/9 since the start of MSG operations. The old Meteosat-7 algorithm was adapted to the Cloud Motion Wind SATOB product, this product contained only a subset of the present AMV BUFR |

| Date | Update |
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| | product, and is not distributed any more. The impact of the change is that the amount of collocations increases, the impact on estimated Bias and RMS error is minor. |
| 13 Feb 2007 | Description: Termination of Meteosat-5 Meteorological Products generation Impact: On 13 February 2007 from 10:00 UTC onwards the generation of Meteorological Products for the Indian Ocean Data Coverage (IODC) service from Meteosat-5 (located at 63°E) images was terminated. From 12:00 UTC this service was taken over by Meteosat-7 (located at 57.5°E). |
| 1 Dec 2003, 12:00 | Description: Improved Calibration For Meteosat-7 Impact: The front optics model of the black body calibration for Meteosat-7 was modified to reduce the bias between the vicarious calibration (calibration against radiosonde observations and sea surface temperatures). This change also impacts the Meteosat-5 calibration as this is performed using a cross calibration between Meteosat-7 and Meteosat-5. |
| 1 Jul 2003, 12:00 | Description: More data included in AMV BUFR products Impact: Speed and direction of the AMV components used for calculating the final AMV are now also being written into the BUFR file. |
| 3 Jun 2003, 12:00 | Description: New Scenes and Cloud Analysis Impact: The new algorithm classifies every pixel and improves the cloud detection and classification. |
| 19 Feb 2003, 12:00 | Description: Meteosat-5 real SSP used Impact: The processing was changed to use the real position of the spacecraft when generating radiation tables. |
| 2 Dec, 2002, 12:00 | Description: Dissemination of low-resolution VIS and WV winds discontinued. Impact: Users are encouraged to use the HRV and HWW AMV products instead . |
| 28 Nov, 2002, 12:00 | Description: Enhancement of AMV Automatic Quality Control Impact: Under certain circumstances it is apparent that the performance of the AMV Processing and/or Automatic Quality Control is sub-optimal. In order to alleviate this problem a modification to the AMV Quality Indicator is applied to affected winds from 28 Nov 2002. |
| 1 Jul 2002, 12:00 | Description: All AMV products now on nominal observation time. Impact: The generation and dissemination times of MPEF AMV Products are moved one hour to fall in line with the main synoptic observation time. |
| 1 Jul 2002, | Description: |

| Date | Update |
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| 12:00 | <p>Increased frequency of HRV AMVs.</p> <p>Impact: Generation and dissemination of the HRV product was changed to 90-minute intervals.</p> |
| 1 May 2002, 12:00 | <p>Description: MPEF products from the Rapid Scan Service are available.</p> <p>Impact: MPEF Wind Products and Clear Sky Radiances are now available on the GTS.</p> |
| 28 Feb 2002, 12:00 | <p>Description: The dissemination of HRV in simplified BUFR template was discontinued.</p> <p>Impact: The HRV in full BUFR template is available.</p> |
| 15 Jan 2002, 12:00 | <p>Description: New version of Clear Sky Radiances.</p> <p>Impact: The new CSR is a high-resolution product (80 km grid) using radiances for both IR and WV channels. It also contains cloud coverage, statistical and quality information. The QC section (in BUFR) includes descriptor 008033 (method of calculating percentage confidence).</p> |
| 12 Nov 2001, 12:00 | <p>Description: New cross calibration values for Meteosat-5.</p> <p>Impact: After an update of the correction function, new values are available in the Satellite Cross-Calibration document.</p> |
| 5 Jun 2001, 12:00 | <p>Description: New quality control added for all BUFR winds.</p> <p>Impact: A second set of AQC scores is added to every wind, the new score is independent of the forecast consistency.</p> |
| 15 Aug 2000, 12:00 | <p>Description: Test bulletin headers for HRV full BUFR template made available on the web site.</p> <p>Impact: Allow users parallel testing of full BUFR template.</p> |
| 1 Aug 2000, 12:00 | <p>Description: Sum-of-Squares Distance correlation method for WV winds.</p> <p>Impact: Increased number of winds, with improved quality in terms of normalised vector RMS error against radiosondes.</p> |
| | <p>Description: Information in Clear Sky Water Vapour Winds document. Additional height assignment</p> <p>Impact: Four levels of the cumulative contribution function (based on the ECMWF forecast data) are inserted in the BUFR template.</p> |
| | <p>Description: Wind location changed to "centre of mass" position for all wind products.</p> <p>Impact:</p> |

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| | More representative spatial distribution of the vectors, since the vector is located at the position of the tracer actually used, instead of in the middle of the processing segment. |
| 29 May 2000, 12:00 | Description: Improved calibration mechanism for Meteosat-7. Impact: Much more stable WV calibration. |
| 16 Mar 2000, 12:00 | Description: High Resolution WV winds (HWW) as operational product. Impact: - |
| 1 Jul 1999, 15:00 | Description: Change of the Spatial Consistency Test within the AQC Scheme. Impact: Increased number of AQC-accepted winds. |
| | Description: Modification of the Low Level CMW Height Reassignment. Impact: Slight lowering of height assignment outside trade-wind inversion areas. |
| 27 Jan 1999, 18:00 | Description: Introduction of Inversion Height assignment Correction (IHC) scheme. Impact: Substantial lowering of height assignment in trade-wind inversion areas. |
| 13 Oct 1998, 12:00 | Description: Start of parallel distribution of HRV in "old" simplified BUFR template. (See entry 8 Sep 1998) Impact: Allow users more time for parallel testing of WMO Standard BUFR template. |
| 8 Sep 1998, 12:00 | Description: Introduction of ELW and WVW as new operational products. Impact: - |
| | Description: Change of distribution format for HRV to new WMO Standard BUFR template. Impact: - |
| 7 Sep 1998, 12:00 | Description: All manual quality control of MPEF products discontinued. Impact: |

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| | - |
| 1 Jul 1998, 12:00 | <p>Description: Start of INDOEX mission.</p> <p>Impact: Parallel distribution of all operational products from Meteosat-7 at 0°E and from Meteosat-5 at 63°E</p> |
| 3 Jun 1998, 12:00 | <p>Description: Mission swap from Meteosat-6 to Meteosat-7.</p> |
| 20 May 1998, 12:00 | <p>Description: Adjustment of AQC parameters for HRV product.</p> <p>Impact: Reduction of the number of gross errors due to missing semi-transparency correction.</p> |
| 12 Dec 1997, 12:00 | <p>Description: Adjustment of parameters within the AQC scheme for Cloud Motion Winds.</p> <p>Impact: Better relationship between quality indicator and RMS error.</p> |
| | <p>Description: Introduction of Inter-Channel Vertical Homogeneity (IVH) Test within the AQC scheme for Cloud Motion Winds. The test checks for consistency between WV winds and low-level IR/VIS winds, and uses this as an indication of failed semi-transparency correction.</p> <p>Impact: Automatic removal of winds with failed semi-transparency correction. No impact on SATOB product, as these winds were previously manually removed.</p> |
| | <p>Description: Implementation of CBS-XI decisions on SATOB encoding.</p> <p>Impact: Consistent encoding of SATOB and BUFR bulletins.</p> |
| 2 May 1997, 18:00 | <p>Description: CSR product distributed hourly.</p> <p>Impact:</p> |
| 10 Apr 1997, 18:00 | <p>Description: Correction of WV counts calculation in segment processing.</p> <p>Impact: Slight overall changes in the WV counts used by several product extraction algorithms, and somewhat more significant changes to the semi-transparency correction applied to thin-cirrus clusters.</p> |
| | <p>Description: Correction of height assignment of WV part of Cloud Motion Wind Product</p> <p>Impact: A slight overall lowering of the pressure of the WV winds, and a more substantial lowering of the pressure in the case of applied semi-transparency correction. The improved height assignment for WV winds also increases the number of AQC-accepted WV winds</p> |

| Date | Update |
|------------------------------|---|
| 6 Jan 1997, 12:00 | Description: MPEF product extraction area increased from 55° to 60° around sub-satellite point Impact: Increase of 10-15% in the size of produced and disseminated products, depending on meteorological conditions. |
| 10 Nov 1996 | Description: High Resolution Visible winds (HRV) and Clear Sky Radiances (CSR) introduced as operational products Impact: - |
| 2 Sep 1996, 12:00 | Description: Clusters for which semi-transparency fails are individually excluded from further processing, meaning that a wind can still be generated from the segment using the other clusters. Impact: Very significant increase (approx. 100%) in the low-level wind products (both IR & VIS) |
| | Description: Minor changes to quality control parameters Impact: Small overall changes |
| 30 Apr 1996 | Description: Removing the quality penalty for high-level WV winds. (See entry 24 Nov 1995) Impact: Very significant increase (approx. 400%) in the number of high-level WV winds. Smaller decrease (approx. 25%) in the number of high-level IR winds. |
| | Description: Changing the overall quality threshold from 0.75 to 0.7 within the CMW AQC scheme. Impact: Small increase in the number of winds produced |
| 10 Jan 1996 | Description: Bug fixing in forecast data handling, part 3. Impact: Significant impact on overall product quality. |
| 8 Jan 1996 | Description: Bug fixing in forecast data handling, part 2. Impact: Significant impact on overall product quality. |
| 21 Dec 1995 | Description: Introduction of cloud-base height re-assignment for low-level IR winds. Impact: More realistic height assignment for low-level IR winds, especially in trade-winds area. |
| 8 Dec 1995 | Description: |

| Date | Update |
|------------------------|--|
| | Bug fixing in forecast data handling, part 1 Impact: Significant impact on overall product quality |
| 28 Nov 1995 | Description: Small decrease in CMW quality threshold Impact: Small increase in number of winds |
| 24 Nov 1995 | Description: Introduction of WV winds quality penalty. This was necessary to ensure the overall quality of the final product Impact: Very significant decrease in the number of WV winds in CMW product Description: Suppression of WV winds below 400 hPa Impact: Elimination of medium-level WV winds |
| 15 Nov 1995 | Description: Meteosat operations were moved from ESA to EUMETSAT. Impact: Start of MPEF operations |