

The following pages provide information for the satellites that have meteorological and climate monitoring data and products stored in the EUMETSAT Data Centre Archive. The term 'prime' is used to indicate the satellite disseminating the operational data set.

**Meteosat-1 (M-A):** Operational Period: 09/12/1977 - 25/11/1979

There is no data in the archive for this satellite as the format is unknown and this data was never transcribed into the Archive.

**Meteosat-2 (M-B):** Operational Period: 16/08/1981 - 11/08/1988

Prime Start: 16/08/1981 - Until: 11/08/1988 slot 14

**Meteosat-3 (M-P2):** Operational Period: 11/08/1988 - 25/01/1991

Prime Start: 11/08/1988 slot 17 - Until: 19/06/1989 slot 17

Prime Start: 24/01/1990 slot 19 - Until: 19/04/1990 slot 17

Prime Start: 30/10/1990 slot 27 - Until: 05/11/1990 slot 17

Prime Start: 11/12/1990 slot 19 - Until: 13/12/1990 slot 18

Prime Start: 22/01/1991 slot 18 - Until: 25/01/1991 slot 18

ADC -> Start: 01/08/1991 - End: 27/01/1993

XADC -> Start: 21/02/1993 - End: 31/05/1995

### ***MOP - Meteosat Operational Programme***

**Meteosat-4 (MOP1):** Operational Period: 19/06/1989 - 04/02/1994

Prime Start: 19/06/1989 slot 18 - Until: 24/01/1990 slot 17

Prime Start: 19/04/1990 slot 19 - Until: 30/10/1990 slot 25

Prime Start: 05/11/1990 slot 19 - Until: 11/12/1990 slot 17

Prime Start: 13/12/1990 slot 20 - Until: 22/01/1991 slot 17

Prime Start: 25/01/1991 slot 19 - Until: 02/05/1991 slot 16

Prime Start: 03/05/1991 slot 30 - Until: 26/11/1991 slot 16

Prime Start: 29/11/1991 slot 18 - Until: 11/02/1992 slot 17

Prime Start: 25/02/1992 slot 19 - Until: 08/09/1992 slot 18

Prime Start: 24/09/1992 slot 16 - Until: 04/05/1993 slot 16

Prime Start: 07/05/1992 slot 19 - Until: 03/11/1993 slot 18

Prime Start: 18/11/1993 slot 20 - Until: 04/02/1994 slot 17

**Meteosat-5 (MOP2):** Operational Period: 02/05/1991 - 16/04/2007

Prime Start: 02/05/1991 slot 18 - 03/05/1991 slot 29  
Prime Start: 26/11/1991 slot 19 - Until: 29/11/1991 slot 17  
Prime Start: 11/02/1992 slot 19 - Until: 25/02/1992 slot 17  
Prime Start: 08/09/1992 slot 19 - Until: 24/09/1992 slot 15  
Prime Start: 04/05/1993 slot 19 - Until: 07/05/1993 slot 17  
Prime Start: 03/11/1993 slot 21 - Until: 18/11/1993 slot 17  
Prime Start: 04/02/1994 slot 19 - Until: 21/10/1996 slot 18  
Prime Start: 25/10/1996 - Until: 13/02/1997

Rapid Scans -> Start: 21/04/1997 - End: 03/07/1997 (MAP Project)

The manoeuvre of Meteosat-5 to 63°E was performed from 12.11.1997 - 03.06.1998.  
IODC imaging began from 01/07/1998 - 16/04/2007.

**Meteosat-6 (MOP3):** Operational Period: 21/10/1996 – 11/04/2011

Prime Start: 21/10/1996 slot 19 - Until: 25/10/1996 slot 17  
Prime Start: 13/02/1997 slot 18 - Until: 03/06/1998 slot 16  
Prime Start: 18/01/1999 slot 17 - Until: 21/01/1999 slot 16  
Prime Start: 17/01/2000 slot 18 - Until: 20/01/2000 slot 22

Rapid Scans -> Start: 22/05/2000 - End: 08/01/2007

Last Image from Meteosat 6: Wed 13-Apr-11 from 06:30z to 07:00z, slot 14

***MTP - Meteosat Transition Programme*****Meteosat-7 (MTP1):** Operational Period: 03/06/1998 - TBD

Prime Start: 03/06/1998 slot 19 - Until: 18/01/1999 slot 16  
Prime Start: 21/01/1999 slot 17 - Until: 17/01/2000 slot 17  
Prime Start: 20/01/2000 slot 23 - Until: 19/07/2006 slot 17.

IODC -> Move: 19/07/2006 slot 18 - Completed on 06/10/2006 slot 17.  
IODC -> Start: 01/11/2006 slot 1 - End: TBD

## ***MSG – Meteosat Second Generation***

**Meteosat-8 (MSG1):** Operational Period: 19/01/2004 – TBD

Prime Start: 19/01/2004 10:42 until 23/09/2006 13:57 (MSG1 major fault caused shutdown)

Prime Start: 10/10/2006 09:00 until 11/04/2007 12:45

Rapid Scanning Start: 10/05/2007 10:00 until 29/05/2007 07:00 (validation mode)

Rapid Scanning Start: 31/05/2007 14:00 until 31/05/2007 00:00 (validation mode)

Rapid Scanning Start: 01/06/2007 00:15 until 31/08/2007 09:09 (MSG1 goes into Rapid Scanning mode to support [COPS project](#))

Prime Start: 03/12/2007 12:00 until 12/12/2007 09:00

To support radiance tests, MSG1 data sets were set to OPE but it was not Prime. This was stopped on 07/01/2008 13:00.

Rapid Scanning Start: 05/05/2008 09:45 until 13/05/2008 23:22

Prime Start: 13/05/2008 23:30 until 19/05/2008 10:15 (MSG2 went into Safe Mode)

Rapid Scanning Start: 07/07/2008 09:25 until 22/07/2008 06:15 (Trail RS MPEF products ingested with OPE disposition).

Rapid Scanning Start: 22/07/2008 06:30 until 10/03/2009 09:10 (RS MPEF products ingested with OPE disposition).

Antenna Maintenance 10/03/2009 09:10 until 13/03/2009 12:00

Rapid Scanning Start: 13/03/2009 12:00 until 17/04/2009 16:44 (Further MPEF products ingested with OPE disposition).

Prime Start: 17/04/2009 17:27 until 23/04/2009 08:57 (MSG2 Safe Mode (IN37))

Rapid Scanning Start: 23/04/2009 12:00 until 15/08/2009 08:47.

Prime Start: 15/08/2009 09:00 until 21/08/2009 07:57 (MSG2 Safe Mode (IN39))

Rapid Scanning Start: 21/08/2009 10:00 until 30/11/2009 17:15.

Support to Scan Mirror Angle Reflectivity Test, MSG1 data sets are set to COM from: 30/11/2009 16:15 until 03/12/2009 08:30

MSG1 data sets are set to OPE from: 03/12/2009 08:45 - 17/12/2009 08:45 (NOT PRIME).

Rapid Scanning Start: 17/12/2009 09:00 until 27/07/2010 09:09.

Full Earth Scan (for maintenance) Start: 27/07/2010 09:27 until 29/07/2010 07:57 (NOT PRIME),

Rapid Scanning Start: 29/07/2010 08:04 until 30/07/2010 01:04 (MSG1 went to SAFE mode).

Rapid Scanning Start: 02/08/2010 09:30 until TBD.  
Meteorological products resume OPE dissemination at 14:00 UTC.

MSG1 in RS mode moves from tcp transfers to ftp transfers on 20.04.2010 at 11:00 UTC (13:00 CET). Two slots were lost due to this transition.

MSG RSS interruption on the 04 May 2010 09:00 UTC till 06 May 2010 09:00 UTC. The Service will be suspended for scheduled full earth scanning and Ground Segment maintenance. Full earth images, if any, will not be disseminated.

Missing data sets from 22/09/2010 07:00 till 14:15 inclusive due to Antenna maintenance.

MSG RSS interruption on 16 November 2010 04:00 UTC - 14 December 2010 09:00 UTC  
Annual one month full earth scanning. During this time, VAL disposition is set for the data sets.

MSG RSS interruption on 08 March 09:00 UTC - 10 March 2011 08:00 UTC.

MSG WV Dynamic Range testing, MSG10 and MSG15 were archived with VAL disposition from 5 April 2011 at 12:15 UTC to 6 April 2011 at 12:15 UTC.

MSG returns to RSS on 6 April 2011 at 12:30 UTC.

MSG RSS interruption on 24<sup>th</sup> May 09:00 UTC - 26<sup>th</sup> May 2011 09:00 (SAFEPOSN 100).

Unplanned MSG1 interruption caused by going into safe mode; from 21/08/2011 05:44 till 22/08/2011 08:25 inclusive (imaging again but not operational data, no major impact as MSG1 was performing maintenance at time of failure). Full operations of the Meteosat-8 Rapid Scanning Service resumed on 23/08/2011 09:00 UTC with Meteorological Products service at 15:10 UTC.

**5 March to 9 April 2013:** Meteosat-8 (Prime) and Meteosat-9 provides a parallel RSS.

**9 April to 7 May 2013:** Meteosat-8 and Meteosat-9 (Prime) provides a parallel RSS.

**7 May 2013** Meteosat-8 stops RSS and becomes the backup satellite for Meteosat-9 and Meteosat-10. Meteosat-9 will continue to be the Prime RSS satellite.

**17 May 2013** Meteosat-8 supports the 1<sup>st</sup> 12 hour period of 2.5 minute scans – special permission needed to access the data (VAL).

**27 May 2013** Meteosat-8 takes over the RSS service for Meteosat-9 for 48 hours (monthly Rapid Scanning break).

**29 May 2013** Meteosat-9 becomes the prime again for the RSS service.

**17 June 2013** Meteosat-8 supports the 2<sup>nd</sup> 12 hour period of 2.5 minute scans – special permission needed to access the data (VAL).

**20 June 2013** Meteosat-8 Supports the 3<sup>rd</sup> 12 hour period of 2.5 minute scans – special permission needed to access the data (VAL).

**25 June 2013** Meteosat-8 take over the RSS service for Meteosat-9 for 48 hours (monthly Rapid Scanning break).

**27 June 2013** Meteosat-9 becomes the prime satellite for the RSS service, Meteosat-8 is backup.

**1 July 2013** Meteosat-8 takes over the 0° degree service for Meteosat10 (Decontamination).

**9 July 2013** Meteosat-10 becomes the prime satellite again for the 0° service, Meteosat-8 is backup.

**25 October 2013** Unscheduled Meteosat-9 to Meteosat-8 swap at around 06:15 UTC due to Meteosat-9 Safe Mode.

28 October 2013 Meteosat-8 back to standby at around 13:00 UTC.

## **Meteosat-9 (MSG2):** Operational Period: 18/07/2006 - TBD

Prime Start: 25/09/2006 06:57 until 10/10/2006 08:30.

Prime Start: 11/04/2007 13:00 until 03/12/2007 11:45 (Decontamination)

Prime Start: 12/12/2007 09:15 until 05/05/2008 07:57 (End of Spectral Radiance))

Prime Start: 05/05/2008 08:12 until 13/05/2008 21:00 (New Effective Radiance MSG2 Safe Mode on 13th).

Prime Start: 19/05/2008 10:27 until 17/04/2009 15:42 (MSG2 Safe Mode)

Prime Start: 23/04/2009 09:12 until 15/08/2009 05:13 (MSG2 Safe Mode)

Prime Start: 21/08/2009 08:12 until 21/01/2013 08:00

Due to a hardware problem in the Ground station, MSG1.0 data sets received on the 1st March, 2010 contain a 2nd March, 2010 time stamp. User shall note this as MSG1.0 data ordered over this period will contain incorrect timestamps.

MSG2 in FS mode move from tcp transfers to ftp transfers on 26.04.2010 at 12:00 UTC (14:00 CET).

The MSG10 data set is 96 bytes smaller as it no longer contains the tcp start and end packets.

Users of the MSG10 data set should be aware of this change in format and make the necessary adjustment in their software.

To support fully facility testing of the EUMETSAT ground segment, MSG3 simulated data exists in the Data Centre Archive from the 3<sup>rd</sup>, 10<sup>th</sup> and 17th Nov. 2010. This data should not be visible to users of operational data sets. The data was tagged with VAL disposition but future tests of simulated data sets will be tagged as TST.

On 16 March 2011 at about 19:30 UTC, a short interruption to the Meteosat-9 spacecraft commanding caused SEVIRI to attempt an on-board black-body calibration in the wrong instrument configuration. As a result, the on-board protections were triggered and, in turn, commanded SEVIRI to Stand-by with a part of the instrument electronics switched-off. After investigation recovery started and Meteosat-9 SEVIRI resumed imaging at 22:45 UTC.

As a side effect of the above anomaly and subsequent recovery, in the morning of 17 March 2011 at about 05:30 UTC Meteosat-9 SEVIRI was commanded to stand-by from ground following detection of an inconsistency in the operational parameters on board the instrument. This reaction avoided recurrence of the above more critical on-board reaction. Imaging was successfully resumed after 45 minutes of interruption.

**5 March to 9 April 2013:** Meteosat-8 (Prime) and Meteosat-9 provides a parallel RSS.

**9 April to 7 May 2013:** Meteosat-8 and Meteosat-9 (Prime) provides a parallel RSS.

**7 May 2013** Meteosat-8 stops RSS and becomes the backup satellite for Meteosat-9 and Meteosat-10. Meteosat-9 will continue to be the Prime RSS satellite.

**27 May 2013** Meteosat-8 take over the RSS service for Meteosat-9 for 48 hours (monthly Rapid Scanning break).

**29 May 2013** Meteosat-9 becomes the prime again for the RSS service.

**25 June 2013** Meteosat-8 take over the RSS service for Meteosat-9 for 48 hours (monthly Rapid Scanning break).

**27 June 2013** Meteosat-9 becomes the prime again for the RSS service.

**25 October 2013** Unscheduled Meteosat-9 to Meteosat-8 swap at around 06:15 UTC due to Meteosat-9 Safe Mode.

28 October 2013 Meteosat-9 back to prime for RSS service around 13:00 UTC.

**01 December 2013** Meteosat-09 went into safe mode at 18:02 due to CF commanding issues 5 hours of data not received.

**14 January 2014** Meteosat-9 takes over the Prime service at 09:15 UTC from Meteosat-10 (decontamination maintenance).

**21 January 2014** Meteosat-9 decontamination maintenance at 09:00 UTC.

**13 February 2014** Meteosat-9 resumes RSS service at 09:00 UTC.

**Meteosat-10 (MSG3):** Operational Period: 21/01/2013 - TBD

MSG3 was renamed Meteosat-10 and declared operational on 12/12/2012.

Parallel operational dissemination period with Meteosat-9 (still Prime 0°) start: 18/12/2012 10:00 until 21/01/2013 08:00.

**Prime Start (0° mission):** 21/01/2013 08:30 until TBD.

**1 July 2013** Meteosat-8 takes over the 0° service for Meteosat10 (decontamination).

**9 July 2013** Meteosat-10 becomes the prime satellite again for the 0° service, Meteosat-8 is backup.

**14 January 2014** Meteosat-9 takes over the Prime service at 09:15 UTC from Meteosat-10 (decontamination maintenance).

**21 January 2014** Meteosat-10 back to prime service at 09:00 UTC.

## ***MSG – Notable Events***

24/02/2011: **MSG RII** will be ingested into the Data Centre Archive from both MSG satellites and continue till the 24 March 2011 at which time RII at 0 degree will be stopped and replaced with RSS RII generated at 5 minute intervals. The new RSS RII provides a larger region at a higher frequency focusing on Europe (GII provide the information for any global data removed). Parallel dissemination of the product allows users to adjust their systems to support the new RSS RII.

**MSG3** was declared Operational on 12 Dec. 2012 and it was renamed to Meteosat10. Products were tagged as “OPE” (operational – available for all users to order) from the 18<sup>th</sup> Dec. 2012.

**The following manoeuvres were performed in 2013 to reposition the MSG satellites for their proposed missions:**

**MSG3** moved from -3.25°E to 0.75°W, note the rectification point for the MSG15 data set is 0° over the whole period of the manoeuvre. MSG3 took over the prime nominal (0°) satellite role from MSG2 on 21 Jan. 2013.

**MSG2** moved from 0.25°E to 9.75°E, note the rectification point for the MSG15 data set is 0° over the whole period of the manoeuvre. MSG2 took over the prime Rapid Scanning Service (RSS) from MSG1 on 9 Apr. 2013. RSS data sets are centred to the rectification point 9.5°E.

**MSG1** moved from 9.5°E to -3.5°W, note the rectification point for the MSG15 data set is 9.5°E over the whole period of the manoeuvre. MSG1 ceased RSS imaging on the 7 May 2013. It's mission is to backup MSG2 and MSG3 during periods of maintenance.



## ***EPS – EUMETSAT Polar System***

### **METOP-A (M02) Operational Period: 15/05/2007 – TBD.**

The following products were deemed to be *Operational* on the 01/03/2007 during the commission period.

- AMSU-A
- ASCAT
- AVHRR
- GOME-2
- HIRS
- MHS

The following product was deemed to be Operational on 17/12/2007.

- ADCS L0 15:40

The following product was deemed to be Operational on 23/01/2008.

- EPH (Ephemeris) 09:00

The following products were deemed to be Operational on 26/02/2008.

- AVHRR (from EARS, NOAA-18) 10:00
- AVHRR from EARS, NOAA-18 with be replaced by NOAA-19 on 07/07/2009 at 12:00 UTC.

The following product was deemed to be Operational on 11/03/2008.

- GOME-2 around 15:00 UTC (16:00 CET)

GOME-2 data prior to this time were archived as operational but in reality, these are pre-operational data sets.

These will be reprocessed and replaced in the U-MARF.

The following product was deemed to be Operational on 09/04/2008.

- ASCSZF1B at 06:11:59

The following product was deemed to be Operational on 23/06/2008.

- ATOSND02

**All products were put into OPE mode on 05/05/2008.**

The follow IASI products were deemed to be Operational on the shown dates:

- IASENG01 - 10-12-2007 11:20
- IASVER01 - 06-05-2008 08:35
- IASxxx1A - 29-05-2007 05:08
- IASxxx1B - 29-05-2007 05:08
- IASxxx1C - 29-05-2007 05:08
- IASSND02 - 22-11-2007 10:54<sup>i</sup>

The following product was deemed to be Operational on 25/01/2011.

- AVHAMV02 : EPS Polar Winds

The following products were deemed to be Operational on 22/02/2011 start scan time 11:11.

- IASIPCS : IASI Principle Component Score
- IASIPCR: IASI Principle Component Residuals

The following product was made available on 24/03/2011.

- IASI Sea Surface Temperature: IASI SST L2PCore (this contains SSTs, Single Sensor Error Statistics (SSES), quality levels, flags and collocation model surface winds.

### **Metop-A Instrument Outages**

#### **- EPS GRAS**

01-01-2008: No GRAS data from orbits 6226 and 6227 were unavailable for sensing times 00:05 to 01:23

## - IASI L1/L2

01-01-2008: No IASI data from orbit 6227 were unavailable for sensing time 00:14.

30-09-2009 to 03-10-2009: No products are generated due to upgrade to the on-board IASI instrument software.

The decontamination of IASI instrument took place from Monday 30/08/2010 at 08:19 UTC and to end on Friday 03/09/2010 around 10:00 UTC.

## **METOP-B (M01) Operational Period: 24/04/2013 12:00 UTC – TBD.**

The following products were deemed to be “*Operational*” on the 13/12/2012 from 09:23 UTC.

- AMSU-A L1B
- ASCAT L1B
- AVHRR L1B
- GRAS L1B
- HIRS L1B
- MHS L1B

The following products were deemed to be “*Operational*” on the 20/02/2013.

- IASI L1B
- IASI L1C

The following products were deemed to be “*Operational*” on the 12/03/2013.

- IASPCR1C
- IASPCS1C

**The Metop-B spacecraft was deemed Operational on the 24/04/2013 at 12:00 UTC.**

## ***Jason 2***

All Jason 2 products were put into OPE mode on 12/12/2008 at 13:45 UTC.

## ***NOAA 18***

ATOVS L2 product was put into OPE mode on 16/01/2009 at 10:30 UTC

### **NOAA-18 Instrument Outages**

#### **- NOAA-18 ATOVS**

01-01-2008: No NOAA-18 ATOVS data from orbit 13476 were unavailable for sensing times 03:47 to 03:50.

#### **- NOAA-18 AVHRR**

01-01-2008: No NOAA-18 AVHRR data from orbit 13476 to orbit 13478 were unavailable for sensing times 04:00 to 05:56.

## ***NOAA 19***

All products were put into OPE mode on 02/06/2009 at 10:00.

A parallel phase of operation with NOAA 18 is schedule until TBD.

Inaccuracies and/or missing information should be reported to the EUMETSAT user helpdesk via the Email address: [ops@eumetsat.int](mailto:ops@eumetsat.int).

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