

MTSAT Monthly Operations Report

February 2012

1. Special operation events

1.1 Eclipse operation

MTSAT-2 spring eclipse operation was performed from February 20 through February 29.

1.2 Solar-interference operation

There was no solar-interference operation of MTSAT-2.

2. Imagery dissemination

2.1 High Rate Information Transmission (HRIT) imagery via MTSAT-1R

HRIT dissemination via MTSAT-1R was performed according to the regular schedule. The following tables show the performance of HRIT dissemination and a summary of canceled HRIT dissemination during February 2012.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1618	
Performed	1618	Observed by MTSAT-2
Performance in %	100.00	

Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
	None	

2.2 Low Rate Information transmission (LRIT) imagery via MTSAT-1R

LRIT dissemination via MTSAT-1R was performed according to the regular schedule. The following tables show the performance of LRIT dissemination and a summary of canceled LRIT dissemination during February 2012.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2774	
Performed	2774	Observed by MTSAT-2
Performance in %	100.00	

Summary of canceled LRIT dissemination via MTSAT-1R

Date	LRIT	Reasons
	None	

2.3 HRIT imagery via landline

HRIT dissemination via landline was performed according to the regular schedule. The following tables show the performance of its dissemination and a summary of canceled HRIT dissemination during February 2012.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11560	
Performed	11530	Observed by MTSAT-2
Performance in %	99.74	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
February 13	F05,N05,N05W,F05	Failure of ground telecommunication system

3. Data Collection System

3.1 International Data Collection System (IDCS)

The following table shows the status of reception and dissemination of International Data Collection Platform (IDCP) messages that were received in MTSAT-1R's area of responsibility.

Reception and dissemination of IDCP messages

IDCP channels	Numbers of IDCPs ^{a)}	Received messages	Error messages ^{b)}	Messages disseminated to the GTS
I06	0	0	0	0
I07	0	0	0	0
I12	3	0	0	0
I14	0	0	0	0
I15	2	0	0	0
I16	4	0	0	0
I18	0	0	0	0
I20	2	0	0	0
Total	11	0	0	0

a) IDCP numbers are those registered in MTSAT-DCS as of February 1, 2012.

b) No message, or message unsuitable for WMO codes.

3.2 Interference on IDCP channels

The following table shows interference on MTSAT International Data Collection System (IDCS) channels that occurred during February 2012.

Interference on MTSAT IDCS Channels (February 2012)

Channel	1	2	3	4	5	6	7	8	9	10	11
Interference			H	H							
Channel	12	13	14	15	16	17	18	19	20	21	22
Interference	H	H				H		W		W	H
Channel	23	24	25	26	27	28	29	30	31	32	33
Interference									W		H

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

MTSAT-2 located at longitude 145 east was performing the observation operation, and MTSAT-1R located at longitude 140 east was operating telecommunication services such as data dissemination and DCP data relay.

4.2 Maneuver

- 1) A north-south station-keeping maneuver of MTSAT-2 was carried out from 22:02 UTC on February 1, 2012.
- 2) A north-south station-keeping maneuver of MTSAT-2 was carried out from 22:02 UTC on February 8, 2012.
- 3) An east-west station-keeping maneuver of MTSAT-2 was carried out from 08:16 UTC on February 15, 2012.
- 4) A north-south station-keeping maneuver of MTSAT-2 was carried out from 22:02 UTC on February 22, 2012.

4.3 Orbit elements of MTSAT-1R/2

The orbit elements of MTSAT-2 are shown in the following table.

Epoch 09:00:0.00 UTC on March 7, 2012 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42163.460100
	Eccentricity (e)	-	0.000260747
	Inclination (I)	Degree	0.041843
	Right ascension of ascending node (Ω)	Degree	207.882643
	Argument of perigee (ω)	Degree	151.308043
	Mean anomaly (M)	Degree	86.309787