

MTSAT Monthly Operations Report

October 2011

1. Special operation events

1.1 Eclipse operation

MTSAT-2 autumn eclipse operation was performed from October 1 through October 29.

1.2 Solar-interference operation

MTSAT-2 solar-interference operation was performed from October 4 through October 13.

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 October 2011.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1727	
Performed	1726	Observed by MTSAT-2
Performance in %	99.94	

Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
October 18	F02	Failure of MTSAT-2 ground system

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 October 2011.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2967	
Performed	2967	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 October 2011.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	12355	
Performed	12345	Observed by MTSAT-2
Performance in %	99.92	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
October 18	F02	Failure of MTSAT-2 ground 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 October 1, 2011.

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 October 2011.

Interference on MTSAT IDCS Channels (October 2011)

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

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

MTSAT-2 located at longitude 145 east is performing the observation operation, and MTSAT-1R located at longitude 140 east is 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 07:02 UTC on October 5, 2011.
- 2) An east-west station-keeping maneuver of MTSAT-2 was carried out from 09:16 UTC on October 12, 2011.
- 3) A north-south station-keeping maneuver of MTSAT-2 was carried out from 04:02 UTC on October 26, 2011.

4.3 Orbit elements of MTSAT-1R/2

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

Epoch 15:00:0.00 UTC on November 2, 2011 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42164.204800
	Eccentricity (e)	-	0.000126894
	Inclination (I)	Degree	0.031699
	Right ascension of ascending node (Ω)	Degree	328.499553
	Argument of perigee (ω)	Degree	227.845175
	Mean anomaly (M)	Degree	215.180004