

MTSAT Monthly Operations Report

September 2013

1. Special operation events

1.1 Eclipse operation

MTSAT-2 autumn eclipse operation was performed from September 1 through September 30.

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 September 2013.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1665	
Performed	1665	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 September 2013.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2853	
Performed	2853	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 September 2013.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11895	
Performed	11895	Observed by MTSAT-2
Performance in %	100.00	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
	None	

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 September 1, 2013.

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 September 2013.

Interference on MTSAT IDCS Channels (September 2013)

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											
Channel	23	24	25	26	27	28	29	30	31	32	33
Interference	H	H									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) An east-west station-keeping maneuver of MTSAT-2 was carried out from 19:16 UTC on September 4, 2013.
- 2) A north-south station-keeping maneuver of MTSAT-2 was carried out from 09:02 UTC on September 11, 2013.
- 3) An east-west station-keeping maneuver of MTSAT-2 was carried out from 19:16 UTC on September 18, 2013.
- 4) A north-south station-keeping maneuver of MTSAT-2 was carried out from 07:02 UTC on September 25, 2013.

4.3 Orbit elements of MTSAT-1R/2

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

Epoch 20:00:0.00 UTC on October 3, 2013 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42163.428800
	Eccentricity (e)	-	0.000315008
	Inclination (I)	Degree	0.054445
	Right ascension of ascending node (Ω)	Degree	245.499353
	Argument of perigee (ω)	Degree	313.866412
	Mean anomaly (M)	Degree	258.303548