

MTSAT Monthly Operations Report

May 2014

1. Special operation events

1.1 Equinox operation

There was no equinox operation of MTSAT-2.

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 May 2014.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1733	
Performed	1733	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 May 2014.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2973	
Performed	2973	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 May 2014.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	12385	
Performed	12295	Observed by MTSAT-2
Performance in %	99.30	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
23 May	N03,F04,N04,F05,N05, N05W,F06,S06,S06W, F07,N07,F08,N08	Due to the failure of relevant ground processing system at the Meteorological Satellite Center.

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 1 May, 2014.

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 May 2014.

Interference on MTSAT IDCS Channels (May 2014)

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					
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 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 16:02 UTC on 7 May, 2014.
- 2) An east-west station-keeping maneuver of MTSAT-2 was carried out from 20:16 UTC on 14 May, 2014.
- 3) A north-south station-keeping maneuver of MTSAT-2 was carried out from 16:02 UTC on 21 May, 2014.
- 4) An east-west station-keeping maneuver of MTSAT-2 was carried out from 19:16 UTC on 28 May, 2014.

4.3 Orbit elements of MTSAT-1R/2

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

Epoch 00:00:0.00 UTC on 5 June, 2014 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42165.090900
	Eccentricity (e)	-	0.000400607
	Inclination (I)	Degree	0.014498
	Right ascension of ascending node (Ω)	Degree	323.892258
	Argument of perigee (ω)	Degree	94.894462
	Mean anomaly (M)	Degree	339.579538