

MTSAT Monthly Operations Report

January 2015

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 January 2015.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1733	
Performed	1732	Observed by MTSAT-2
Performance in %	99.94	

Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
1 January	N08	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 January 2015.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2971	
Performed	2971	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 January 2015.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	12380	
Performed	12380	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 1 January 2015.

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 January 2015.

Interference on MTSAT IDCS Channels (January 2015)

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 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 01:02 UTC on 5 January 2015.
- 2) A north-south station-keeping maneuver of MTSAT-2 was carried out from 01:02 UTC on 12 January 2015.
- 1) An east-west station-keeping maneuver of MTSAT-2 was carried out from 21:16 UTC on 19 January 2015.

4.3 Orbit elements of MTSAT-2

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

Epoch 00:00:0.00 UTC on 7 February 2015 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42165.680700
	Eccentricity (e)	-	0.0004172250
	Inclination (I)	Degree	0.018310
	Right ascension of ascending node (Ω)	Degree	111.976662
	Argument of perigee (ω)	Degree	216.225036
	Mean anomaly (M)	Degree	313.612599