

MTSAT Monthly Operations Report

April 2015

1. Special operation events

1.1 Equinox operation

MTSAT-2 spring equinox operation was performed from 1 to 25 April.

1.2 Solar-interference operation

MTSAT-2 solar-interference operation is scheduled to take place from 3 to 20 April, 2015.

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 April 2015.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1648	
Performed	1648	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 April 2015.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2824	
Performed	2824	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 April 2015.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11840	
Performed	11840	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
I10	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 April 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 April 2015.

Interference on MTSAT IDCS Channels (April 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						H					
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) An east-west station-keeping maneuver of MTSAT-2 was carried out from 22:16 UTC on 4 April 2015.
- 2) A north-south station-keeping maneuver of MTSAT-2 was carried out from 19:02 UTC on 11 April 2015.
- 1) An east-west station-keeping maneuver of MTSAT-2 was carried out from 07:16 UTC on 19 April 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 8 May 2015 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42167.735988
	Eccentricity (e)	-	0.0004283040
	Inclination (I)	Degree	0.017395
	Right ascension of ascending node (Ω)	Degree	297.475158
	Argument of perigee (ω)	Degree	113.748886
	Mean anomaly (M)	Degree	318.317216