MTSAT Monthly Operations Report

November 2013

1. Special operation events

1.1 Eclipse operation
There was no Eclipse Operation of MTSAT-1R.

1.2 Solar-interference operation
There was no Solar-interference Operation of MTSAT-1R.

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 November 2013.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1679	
Performed	1679	Observed by MTSAT-1R
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 November 2013.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2880	
Performed	2880	Observed by MTSAT-1R
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 November 2013.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11995	
Performed	11995	Observed by MTSAT-1R
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]	Massages 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 November 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 November 2013.

Interference on MTSAT IDCS Channels (November 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-1R located at longitude 140 east was performing the observation operation instead of MTSAT-2 because of the ground system maintenance from November 1 through November 30. In addition, MTSAT-1R was operating telecommunication services such as data dissemination and DCP data relay. MTSAT-2 was on standby at longitude 145 east in this period.

4.2 Maneuver

1) A north-south station-keeping maneuver of MTSAT-1R was carried out from 03:56 UTC on November 2, 2013.
2) An east-west station-keeping maneuver of MTSAT-1R was carried out from 04:14 UTC on November 13, 2013.
3) An east-west station-keeping maneuver of MTSAT-1R was carried out from 10:14 UTC on November 25, 2013.

4.3 Orbit elements of MTSAT-1R

The orbit elements of MTSAT-1R are shown in the following table.

Epoch 08:00:0.00 UTC on December 2, 2013 – MTSAT-1R

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42164.014767
	Eccentricity (e)	-	0.000193585
	Inclination (I)	Degree	0.016913
	Right ascension of ascending node (Ω)	Degree	39.933105
	Argument of perigee (ω)	Degree	257.745723
	Mean anomaly (M)	Degree	33.618025