MTSAT Monthly Operations Report February 2011

1. Special operation events

1.1 Eclipse operation

MTSAT-2 spring eclipse operation was performed from February 15 through February 28.

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 February 2011.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1565	
Performed	1564	
Performance in %	99.94	

Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
February 14	N13	Low receiving level on antenna by heavy snow fall

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 February 2011.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2683	
Performed	2682	
Performance in %	99.96	

Summary of canceled LRIT dissemination via MTSAT-1R

Date	LRIT	Reasons
February 14	N13	Low receiving level on antenna by heavy snow fall

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 February 2011.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11180	
Performed	11170	
Performance in %	99.91	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
February 14	F13(South hemisphere), N13	Low receiving level on antenna by heavy snow fall

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	672	672	0
I16	4	0	0	0
I18	0	0	0	0
I20	2	0	0	0
Total	11	672	672	0

- a) IDCP numbers are those registered in MTSAT-DCS as of February 1, 2011.
- 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 February 2011.

Interference on MTSAT IDCS Channels (February 2011)

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											Н

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

MTSAT-2 located at longitude 145 east is performing the observation operation, and MTSAT-1R located at longitude 140 east is 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 22:02 UTC on February 2, 2011.
- 2) An east-west station-keeping maneuver of MTSAT-2 was carried out from 02:16 UTC on February 9, 2011.
- 3) A north-south station-keeping maneuver of MTSAT-2 was carried out from 22:02 UTC on February 16, 2011.

4.3 Orbit elements of MTSAT-1R/2

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

Epoch 10:00:0.00 UTC on March 2, 2011 – MTSAT-2

	Epoch 10.00.0.00 CTC on March 2, 2011 MID/H 2				
	Element	Unit	Value		
	Semi-major axis (a)	Km	42164.484800		
	Eccentricity (e)	-	0.000212234		
Orbit	Inclination (I)	Degree	0.039282		
Orbit	Right ascension of ascending node (Ω)	Degree	142.776409		
	Argument of perigee (ω)	Degree	216.435395		
	Mean anomaly (M)	Degree	95.605802		