Meteorological Satellite Center
Japan Meteorological Agency

MTSAT Monthly Operations Report

March 2011

1. Special operation events

1.1 Eclipse operation

MTSAT-2 spring eclipse operation was performed from March 1 through March 31.

1.2 Solar-interference operation

Solar-interference operation of MTSAT-2 was performed from March 2 through March 11.

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 March 2011.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1728	
Performed	1728	
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 March 2011.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2954	
Performed	2954	
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 March 2011.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	12325	
Performed	12325	
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	683	683	0
I16	4	0	0	0
I18	0	0	0	0
I20	2	0	0	0
Total	11	683	683	0

a) IDCP numbers are those registered in MTSAT-DCS as of March 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 March 2011.

Interference on MTSAT IDCS Channels (March 2011)

Channel	1	2	3	4	5	6	7	8	9	10	11
Interference		W			W				W		
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

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) An east-west station-keeping maneuver of MTSAT-2 was carried out from 09:16 UTC on March 2, 2011.
2) A north-south station-keeping maneuver of MTSAT-2 was carried out from 21:02 UTC on March 9, 2011.
3) An east-west station-keeping maneuver of MTSAT-2 was carried out from 09:16 UTC on March 23, 2011.

4.3 Orbit elements of MTSAT-1R/2

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

Epoch 20:30:0.00 UTC on April 6, 2011 – MTSAT-2

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42165.214400
	Eccentricity (e)	-	0.000265063
	Inclination (I)	Degree	0.024942
	Right ascension of ascending node (Ω)	Degree	217.004549
	Argument of perigee (ω)	Degree	155.123540
	Mean anomaly (M)	Degree	275.229645