Meteorological Satellite Center
Japan Meteorological Agency

MTSAT Monthly Operations Report

March 2009

1. Special operation events

1.1 Eclipse operation

MTSAT-1R spring eclipse and sun avoidance operation were performed from March 1 through March 31.

1.2 Solar-interference operation

MTSAT-1R solar-interference operation was performed from March 3 through March 9.

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 2009.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1734	
Performed	1734	
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 2009.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2230	
Performed	2230	
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 2009.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	12385	
Performed	12385	
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	741	741	0
I16	4	0	0	0
I18	0	0	0	0
I20	2	0	0	0
Total	11	741	741	0

a) IDCP numbers are those registered in MTSAT-DCS as of March 1, 2009.
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 2009.

Interference on MTSAT IDCS Channels (March, 2009)

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

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

MTSAT-1R is located at 140 east longitude and continues to provide operational services.

4.2 Maneuver

1) An east-west station-keeping maneuver of MTSAT-1R was carried out from 08:14 UTC on March 16, 2009.
2) An east-west station-keeping maneuver of MTSAT-1R was carried out from 07:14 UTC on March 31, 2009.

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 April 8, 2009

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42163.904110
	Eccentricity (e)	-	0.000271337
	Inclination (I)	Degrees	0.084529
	Right ascension of ascending node (Ω)	Degrees	154.486795
	Argument of perigee (ω)	Degrees	225.665555
	Mean anomaly (M)	Degrees	76.689571