Meteorological Satellite Center
Japan Meteorological Agency

MTSAT Monthly Operations Report

April 2008

1. Special operation events

1.1 Eclipse operation

MTSAT-1R spring eclipse and sun avoidance operation were performed from April 1 through April 20.

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 April 2008.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1661	
Performed	1661	
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 2008.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2130	
Performed	2130	
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 2008.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11850	
Performed	11850	
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	72	72	0
I16	4	0	0	0
I18	0	0	0	0
I20	2	0	0	0
Total	11	72	72	0

a) IDCP numbers are those registered in MTSAT-DCS as of April 1, 2008.
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 2008.

Interference on MTSAT IDCS Channels (April, 2008)

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 April 3, 2008.
2) A north-south station-keeping maneuver of MTSAT-1R was carried out from 18:56 UTC on April 12, 2008.
3) An east-west station-keeping maneuver of MTSAT-1R was carried out from 09:14 UTC on April 14, 2008.
4) A north-south station-keeping maneuver of MTSAT-1R was carried out from 18:56 UTC on April 21, 2008.
5) An east-west station-keeping maneuver of MTSAT-1R was carried out from 21:14 UTC on April 24, 2008.

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 May 10, 2008

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42165.843946
	Eccentricity (e)	-	0.000246556
	Inclination (I)	Degrees	0.075020
	Right ascension of ascending node (Ω)	Degrees	189.312011
	Argument of perigee (ω)	Degrees	230.886130
	Mean anomaly (M)	Degrees	68.369689