Meteorological Satellite Center
Japan Meteorological Agency

MTSAT Monthly Operations Report

June 2010

1. Special operation events

1.1 Eclipse operation

There was no Eclipse Operation of MTSAT-1R during June 2010.

1.2 Solar-interference operation

There was no MTSAT-1R solar-interference operation during June 2010.

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 June 2010.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1670	
Performed	1670	
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 June 2010.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2143	
Performed	2143	
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 June 2010.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11970	
Performed	11970	
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 June 1, 2010.
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 June 2010.

Interference on MTSAT IDCS Channels (June 2010)

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 longitude 140 east and continues to provide operational services.

4.2 Maneuver

1) An east-west station-keeping maneuver of MTSAT-1R was carried out from 03:14 UTC on June 11, 2010.
2) A north-south station-keeping maneuver of MTSAT-1R was carried out from 13:56 UTC on June 21, 2010.

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 July 4, 2010

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42165.994732
	Eccentricity (e)	-	0.000247562
	Inclination (I)	Degree	0.068001
	Right ascension of ascending node (Ω)	Degree	214.745690
	Argument of perigee (ω)	Degree	256.838706
	Mean anomaly (M)	Degree	70.730330