

# MTSAT Monthly Operations Report

July 2006

## 1. Events of special operation

### 1.1 Eclipse Operation

There was no Eclipse Operation of MTSAT-1R.

### 1.2 Solar-interference Operation

There was no Solar-interference Operation of MTSAT-1R.

## 2. Image observations and dissemination

### 2.1 HiRID and HRIT image dissemination

The following tables show the performance of HiRID and HRIT image dissemination and the summary of its canceled dissemination. Data dissemination was performed according to the schedule except the cancellation shown below.

Performance of HiRID and HRIT image dissemination

	HiRID	HRIT	Remarks
Scheduled	1729	1729	
Performed	1729	1729	
Performance in %	100.0	100.0	

Summary of canceled HiRID and HRIT image dissemination

Date	HiRID	HRIT	Reasons
	None	None	

## 2.2 LRIT image dissemination

The following tables show the performance of LRIT image dissemination and the summary of its canceled dissemination. Data dissemination was performed according to the schedule except the cancellation shown below.

Performance of LRIT image dissemination

	LRIT	Remarks
Scheduled	2224	
Performed	2221	
Performance in %	99.9	

Summary of canceled LRIT image dissemination

Date	LRIT	Reasons
July 12	PS-F04, N04 D1-F04	Ground system trouble

## 2.3 WEFAX image dissemination

The following tables show the performance of WEFAX image dissemination and the summary of its canceled dissemination. Data dissemination was performed according to the schedule.

Performance of WEFAX image dissemination

	WEFAX	Remarks
Scheduled	2722	
Performed	2720	
Performance in %	99.9	

Summary of canceled WEFAX image dissemination

Date	WEFAX	Reasons
July 12	H/I-04	Ground system trouble

## 2.4 HRIT image dissemination via landline

The following tables show the performance of HRIT image dissemination via landline and the summary of its canceled dissemination. Data dissemination was performed according to the schedule.

Performance of HRIT image dissemination via landline

	HRIT	Remarks
Scheduled	5928	
Performed	5920	
Performance in %	99.9	

Summary of canceled HRIT image dissemination via landline

Date	HRIT	Reasons
July 12	F04	Ground system trouble

## 3. Data Collection System

### 3.1 International Data Collection System (IDCS)

The following table shows the status of reception and dissemination of messages.

Reception and dissemination of messages

IDCP channel	Number of IDCPs <sup>a)</sup>	Received messages	Format errors <sup>b)</sup>	Non WMO codes <sup>c)</sup>	Disseminated messages to the GTS
I06	14	0	0	0	0
I07	22	0	0	0	0
I10	3	0	0	0	0
I14	3	0	0	0	0
I15	7	735	0	735	0
I16	5	0	0	0	0
I18 (ASDAR)	7	281	26	0	255
I20	3	0	0	0	0
Total	64	1016	26	735	255

a) Number of DCPs registered to MTSAT-1R IDCS as of March 1, 2005.

b) DCS system did not process reports because the reporting DCPs were out of the responsible area of MTSAT-1R.

c) There was no message or the message was unsuited to the WMO codes. The DCP data processing software at MSC detected "DATA BUFFER EMPTY" or "NO MESSAGE."

### 3.2 Interference on IDCP channels

Table 1 shows the interference on MTSAT International Data Collection System (IDCS) channels experienced the period June 2006.

Table 1 Interference on MTSAT IDCS Channels (July 2006)

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

S: severe interference

W: weak interference

## 4. Satellite system status

### 4.1 Satellite status

MTSAT-1R was located at 140 degrees east and continued to provide its operational services.

### 4.2 Maneuver

North- south station-keeping maneuver of MTSAT-1R

14:56 UTC July 6

East- west station-keeping maneuver of MTSAT-1R

10:14 UTC July 9

North- south station-keeping maneuver of MTSAT-1R

12:56 UTC July 28

### 4.3 Orbit elements of MTSAT-1R

The orbit elements of MTSAT-1R are shown in the following table.

Epoch 03:00:0.00 UTC August 16, 2006

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42165.153920
	Eccentricity (e)	-	0.000144580
	Inclination (I)	Degree	0.054826
	Right ascension of ascending node ( $\Omega$ )	Degree	290.652534
	Argument of perigee ( $\omega$ )	Degree	212.556933
	Mean anomaly (M)	Degree	6.455195