

MTSAT Monthly Operations Report

January 2007

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	1731	1731	
Performed	1730	1730	
Performance in %	99.94	99.94	

Summary of canceled HiRID and HRIT image dissemination

Date	HiRID	HRIT	Reasons
January 12	F12	F12	Ground system trouble

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	2232	
Performed	2229	
Performance in %	99.87	

Summary of canceled LRIT image dissemination

Date	LRIT	Reasons
January 12	PS-F12, D1-F12, D3-F12	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	2728	
Performed	2718	
Performance in %	99.63	

Summary of canceled WEFAX image dissemination

Date	WEFAX	Reasons
January 12	H/J-12, A/B/C/D-12, K/L/M/N-12	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	5952	
Performed	5944	
Performance in %	99.87	

Summary of canceled HRIT image dissemination via landline

Date	HRIT	Reasons
January 12	F12	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 ^{a)}	Received messages	Format errors ^{b)}	Non WMO codes ^{c)}	Disseminated messages to the GTS
I06	14	0	0	0	0
I07	22	0	0	0	0
I12	3	0	0	0	0
I14	3	0	0	0	0
I15	7	0	0	0	0
I16	5	0	0	0	0
I18 (ASDAR)	7	272	29	0	243
I20	3	0	0	0	0
Total	64	272	29	0	243

- 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 January 2007.

Table 1 Interference on MTSAT IDCS Channels (Jan. 2007)

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

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

W: weak interference
H : harmful 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

East- west station-keeping maneuver of MTSAT-1R
 07:14 UTC January 11

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 February 14, 2007

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42164.445774
	Eccentricity (e)	-	0.000180710
	Inclination (I)	Degree	0.053440
	Right ascension of ascending node (Ω)	Degree	293.910189
	Argument of perigee (ω)	Degree	47.309019
	Mean anomaly (M)	Degree	63.048192