

MTSAT Monthly Operations Report

November 2005

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.

1.3 System maintenance

There was no system maintenance that affects MTSAT-1R operation.

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	1680	1680	
Performed	1679	1677	
Performance in %	99.9	99.8	

Summary of canceled HiRID and HRIT image dissemination

Date	HiRID	HRIT	Reasons
November 6	N19	N19	Problem with JAMI (Japanese Advanced Meteorological Imager)
November 16		N09	Ground system trouble at MSC
November 28		N17W	Ground system trouble at MSC

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	2160	
Performed	2157	
Performance in %	99.9	

Summary of canceled LRIT image dissemination

Date	LRIT	Reasons
November 6	PS-N19	Problem with JAMI (Japanese <u>A</u> dvanced <u>M</u> eteorological <u>I</u> mager)
November 16	PS-N09	Ground system trouble at MSC
November 17	PS-N07	Ground system trouble at MSC

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 except the cancellation shown below.

Performance of WEFAX image dissemination

	WEFAX	Remarks
Scheduled	2640	
Performed	2640	
Performance in %	100.0	

Summary of canceled WEFAX image dissemination

Date	WEFAX	Reasons
	None	

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 except the cancellation shown below.

Performance of HRIT image dissemination via landline

	HRIT	Remarks
Scheduled	5760	
Performed	5760	
Performance in %	100.0	

Summary of canceled HRIT image 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 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
I10	3	0	0	0	0
I14	3	0	0	0	0
I15	7	499	0	499	0
I16	5	0	0	0	0
I18 (ASDAR)	7	409	53	0	356
I20	3	0	0	0	0
Total	64	908	53	499	356

- a) Number of DCPs registered to MTSAT-1R IDCS as of March 1, 2005.
- b) Edit processing error occurred due to the origin of the report being out of the area of responsibility for acquisition 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

The following table shows the interference on MTSAT-1R International Data Collection System (IDCS) channels.

Interference on MTSAT-1R IDCS channels (Nov. 2005)

Ch.	1	2	3	4	5	6	7	8	9	10	11
Nov.		W			W						

Ch.	12	13	14	15	16	17	18	19	20	21	22
Nov.											

Ch.	23	24	25	26	27	28	29	30	31	32	33
Nov.											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

East-West Station-Keeping maneuver of MTSAT-1R was performed at 0714 UTC on November 13.

4.3 Orbit elements of MTSAT-1R

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

Epoch 08:45:6.88 UTC December 18, 2005

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42165.1576
	Eccentricity (e)	-	0.00027458
	Inclination (I)	Degree	0.02192854
	Right ascension of ascending node (Ω)	Degree	246.062731
	Argument of perigee (ω)	Degree	29.298259
	Mean anomaly (M)	Degree	83.294107