

MTSAT Monthly Operations Report

April 2007

1. Events of special operation

1.1 Eclipse Operation

Spring Eclipse and Sun Avoidance Operation of MTSAT-1R was performed from April 1 till April 22.

1.2 Solar-interference Operation

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

2. Image observations and disseminations

2.1 HiRID and HRIT image disseminations

The following tables show the performance of HiRID and HRIT image disseminations and the summary of their canceled disseminations. The disseminations were performed according to the schedule except the cancellation as described below.

Performance of HiRID and HRIT image disseminations

	HiRID	HRIT	Remarks
Scheduled	1658	1658	
Performed	1654	1658	
Performance in %	99.77	100.00	

Summary of canceled HiRID and HRIT image disseminations

Date	HiRID	HRIT	Reasons
April 9	N23,N23W	None	Ground system trouble
April 10	F00,S00	None	Ground system trouble

2.2 LRIT image disseminations

The following tables show the performance of LRIT image disseminations and the summary of their canceled disseminations. The disseminations were performed by the schedule except the cancellation as described below.

Performance of LRIT image disseminations

	LRIT	Remarks
Scheduled	2160	
Performed	2160	
Performance in %	100.00	

Summary of canceled LRIT image disseminations

Date	LRIT	Reasons
	None	

2.3 WEFAX image disseminations

The following tables show the performance of WEFAX image disseminations and the summary of their canceled disseminations. The disseminations were performed according to the schedule.

Performance of WEFAX image disseminations

	WEFAX	Remarks
Scheduled	2640	
Performed	2640	
Performance in %	100.00	

Summary of canceled WEFAX image disseminations

Date	WEFAX	Reasons
	None	

2.4 HRIT image disseminations via landline

The following tables show the performance of HRIT image disseminations via landline and the summary of their canceled disseminations. The disseminations were performed according to the schedule.

Performance of HRIT image disseminations via landline

	HRIT	Remarks
Scheduled	10890	
Performed	10890	
Performance in %	100.00	

Summary of canceled HRIT image disseminations via landline

Date	HRIT	Reasons
	None	

3. Data Collection System

3.1 International Data Collection System (IDCS)

The following table shows the status of receptions and disseminations of International Data Collection Platform (IDCP) messages that were received in the responsibility area of MTSAT-1R.

Receptions and disseminations of IDCS messages

IDCP channels	Numbers of IDCPs ^{a)}	Received messages	Error messages ^{b)}	Disseminated messages to the GTS
I06	14	0	0	0
I07	22	0	0	0
I12	3	0	0	0
I14	3	0	0	0
I15	7	716	716	0
I16	5	0	0	0
I18	0	0	0	0
I20	3	0	0	0
Total	57	716	716	0

a) The numbers of IDCP are registered in MTSAT-DCS as of April 1, 2007.

b) The message which was unsuitable to WMO codes, or which had no data is counted as "Error messages".

3.2 Interference on IDCP channels

The following table shows the interferences on MTSAT International Data Collection System (IDCS) channels which were occurred during April 2007.

Interference on MTSAT IDCS Channels (April 2007)

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											H

W: weak interference

H: harmful interference

4. Satellite system status

4.1 Satellite status

MTSAT-1R is located at 140 east longitude sky and continues to provide its operational services.

4.2 Maneuver

North- south station-keeping maneuver of MTSAT-1R was carried out from 18:56 UTC on April 17, 2007.

East-west station-keeping maneuver of MTSAT-1R was carried out from 09:14 UTC on April 21, 2007.

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 13, 2007

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42164.115404
	Eccentricity (e)	-	0.000202455
	Inclination (I)	Degree	0.078352
	Right ascension of ascending node (Ω)	Degree	245.463471
	Argument of perigee (ω)	Degree	140.140688
	Mean anomaly (M)	Degree	105.339143