

MTSAT Monthly Operations Report

March 2008

1. Special operation events

1.1 Eclipse operation

MTSAT-1R spring eclipse and sun avoidance operation were performed from March 1 through March 31.

1.2 Solar-interference operation

MTSAT-1R solar-interference operation was performed from March 2 through March 9.

2. Imagery dissemination

2.1 High Resolution Imager Data (HiRID) imagery via MTSAT-1R

HiRID dissemination via MTSAT-1R was performed according to the regular schedule. The following tables show the performance of HiRID dissemination and a summary of canceled HiRID dissemination during March 2008.

Performance of HiRID dissemination via MTSAT-1R

	HiRID	Remarks
Scheduled	623	
Performed	622	
Performance in %	99.84	

Summary of canceled HiRID dissemination via MTSAT-1R

Date	HiRID	Reasons
March 6	N03	Ground system trouble

Attention; HiRID dissemination was terminated at 0230UTC on March 12, 2008.

2.2 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 March 2008.

Performance of HRIT dissemination via MTSAT-1R

	HRIT	Remarks
Scheduled	1733	
Performed	1732	
Performance in %	99.94	

Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
March 6	N03	Ground system trouble

2.3 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 March 2008.

Performance of LRIT dissemination via MTSAT-1R

	LRIT	Remarks
Scheduled	2228	
Performed	2227	
Performance in %	99.96	

Summary of canceled LRIT dissemination via MTSAT-1R

Date	LRIT	Reasons
March 6	PS-N03	Ground system trouble

2.4 Weather Facsimile (WEFAX) imagery via MTSAT-1R

WEFAX dissemination via MTSAT-1R was performed according to the regular schedule. The following tables show the performance of WEFAX dissemination and a summary of canceled WEFAX dissemination during March 2008.

Performance of WEFAX dissemination via MTSAT-1R

	WEFAX	Remarks
Scheduled	982	
Performed	982	
Performance in %	100.00	

Summary of canceled WEFAX dissemination via MTSAT-1R

Date	WEFAX	Reasons
	None	

Attention; WEFAX dissemination was terminated at 0230UTC on March 12, 2008.

2.5 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 March 2008.

Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11746	
Performed	11741	
Performance in %	99.96	

Summary of canceled HRIT dissemination via landline

Date	HRIT	Reasons
March 6	N03	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 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)}	Messages 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 March 1, 2008.

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 March 2008.

Interference on MTSAT IDCS Channels (March, 2008)

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 140 east longitude and continues to provide operational services.

4.2 Maneuver

- 1) An east-west station-keeping maneuver of MTSAT-1R was carried out from 07:14 UTC on March 6, 2008.
- 2) An east-west station-keeping maneuver of MTSAT-1R was carried out from 08:14 UTC on March 21, 2008.

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 April 6, 2008

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42163.693429
	Eccentricity (e)	-	0.000217556
	Inclination (I)	Degrees	0.116809
	Right ascension of ascending node (Ω)	Degrees	140.785185
	Argument of perigee (ω)	Degrees	221.581458
	Mean anomaly (M)	Degrees	92.693348