# MTSAT Monthly Operations Report September 2014

# 1. Special operation events

- 1.1 Equinox operation MTSAT-2 autumn equinox operation was performed from 1 to 30 September.
- 1.2 Solar-interference operation There was no solar-interference operation of MTSAT-2.

# 2. Imagery dissemination

2.1 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 September 2014.

	HRIT	Remarks
Scheduled	1665	
Performed	1665	Observed by MTSAT-2
Performance in %	100.00	

#### Performance of HRIT dissemination via MTSAT-1R

#### Summary of canceled HRIT dissemination via MTSAT-1R

Date	HRIT	Reasons
	None	

2.2 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 September 2014.

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LRIT		Remarks				
Scheduled	2853					
Performed	2853	Observed by MTSAT-2				
Performance in %	100.00					

## Performance of LRIT dissemination via MTSAT-1R

## Summary of canceled LRIT dissemination via MTSAT-1R

Date	LRIT	Reasons
	None	

# 2.3 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 September 2014.

# Performance of HRIT dissemination via landline

	HRIT	Remarks
Scheduled	11895	
Performed	11895	Observed by MTSAT-2
Performance in %	100.00	

## Summary of canceled HRIT 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 International Data Collection Platform (IDCP) messages that were received in MTSAT-1R's area of responsibility.

IDCP channels	Numbers of IDCPs <sup>a)</sup>	Received messages	Error messages <sup>b)</sup>	Massages 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 1 September, 2014.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 September 2014.

1	merrer						eptenn	201	т)		
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	W					W					
Channel	23	24	25	26	27	28	29	30	31	32	33
Interference											Н

Interference on MTSAT IDCS Channels (September 2014)

Note - W: weak interference / H: harmful interference

# 4. Satellite system status

4.1 Satellite status

MTSAT-2 located at longitude 145 east was performing the observation operation, and MTSAT-1R located at longitude 140 east was operating telecommunication services such as data dissemination and DCP data relay.

# 4.2 Maneuver

- 1) A north-south station-keeping maneuver of MTSAT-2 was carried out from 09:02 UTC on 3 September, 2014.
- 2) An east-west station-keeping maneuver of MTSAT-2 was carried out from 19:16 UTC on 10 September, 2014.
- 3) A north-south station-keeping maneuver of MTSAT-2 was carried out from 08:02 UTC on 17 September, 2014.
- 4) An east-west station-keeping maneuver of MTSAT-2 was carried out from 19:16 UTC on 27 September, 2014.

# 4.3 Orbit elements of MTSAT-1R/2

The orbit elements of MTSAT-2 are shown in the following table.

	Element	Unit	Value			
	Semi-major axis (a)	km	42164.858200			
	Eccentricity (e)	-	0.000307122			
Orbit	Inclination (I)	Degree	0.058374			
	Right ascension of ascending node $(\Omega)$	Degree	240.770810			
	Argument of perigee (ω)	Degree	304.463755			
	Mean anomaly (M)	Degree	330.401733			

Epoch 00:00:0.00 UTC on 2 October, 2014 - MTSAT-2