

GMS Monthly Operations Report

January 2005

1. Events of Special Operation

1.1 Eclipse Operation

There was no Eclipse Operation of GMS-5.

1.2 Solar-interference Operation

There was no Solar-interference Operation of GMS-5.

1.3 System Maintenance

System maintenance that affects GMS operation was not performed.

3. Image Observations and Dissemination

3.1 S-VISSR type data disseminations

S-VISSR type data disseminations were performed according to the schedule.

The following table shows the performance and summary of the S-VISSR type data disseminations.

Performance of S-VISSR type data disseminations

	S-VISSR type data Disseminations	Remarks
Scheduled	744	
Performed	744	
Performance in %	100	

Summary of anomaly S-VISSR type data disseminations

Date	Product	Remarks
January 3	07UTC	Some parts of full disk images were lost.

Summary of canceled S-VISSR type data disseminations

Date	Product	Reasons
None		

3.2 WEFAX Dissemination

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

Performance of WEFAX Disseminations

	WEFAX Disseminations	Remarks
Scheduled	2604	
Performed	2603	
Performance in %	99.9	

Summary of anomaly WEFAX disseminations

Date	Product	Remarks
January 3	03UTC	Some parts of full disk images were lost.

Summary of Cancelled WEFAX Dissemination

Date	Product	Reasons
January 11	06UTC (H-06)	Ground system trouble in JMA

4. Data Collection System

4.1 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 code ^{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	0	0	0	0
I16	5	0	0	0	0
I18 (ASDAR)	8	397	54	0	343
I20	3	0	0	0	0
Total	65	397	54	0	343

a) Number of DCPs registered to GMS-5 IDCS as of May 1, 2003.

b) Format error was caused by the radio telecommunication interference.

c) The messages were none or unsuited to the WMO codes.

The DCP data processing software at MSC detected "DATA BUFFER EMPTY" or "NO MESSAGE".

4.2 Interference on IDCP Channels

The following table shows the interference on GMS International Data Collection System(IDCS) channels.

Interference on GMS IDCS Channels

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

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

Ch.	23	24	25	26	27	28	29	30	31	32	33
Jan.			W								S

S: severe interference

W: weak interference

5. Satellite System Status

5.1 Satellite Status

GMS-5 was located at longitude 140 degrees east and continued to provide its operational services.

5.2 Maneuver

Maneuver was not performed this month.

5.3 Orbit and Attitude Elements of GMS-5

The orbit and attitude elements of GMS-5 are shown in the following table.

Epoch 00:00:00 UTC, June 7, 2005

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42168.16573
	Eccentricity (e)	-	0.00000471
	Inclination (I)	Degree	3.83918
	Right ascension of ascending node (Ω)	Degree	78.24664
	Argument of perigee (ω)	Degree	342.55168
	Mean anomaly (M)	Degree	314.54197
Attitude	Right ascension (α)	Degree	169.17116
	Declination (δ)	Degree	-86.15511

6. Ground System Status

Ground system operations were performed successfully.