

GMS Monthly Operations Report

March 2003

1. Events of Special Operation

1.1 Eclipse Operation

Special Eclipse Operation began from 21 February and will be finished on 7 April.

1.2 Solar-interference Operation

Solar-interference Operation was performed from 26 February to 4 March.

1.3 Typhoon Special Observation

No Typhoon Special Observation.

1.4 System Maintenance

System maintenance, which affects GMS operation, was not performed this month.

1.5 VISSR Expanded Frame Operation

VISSR Expanded Frame Operation was performed on 4, 11, 18 and 25 March in order to prevent the lubricant buildup of VISSR. This operation has no influence on the GMS operation schedule.

2. Image Observations and Dissemination

2.1 Image Observations and Stretched VISSR (S-VISSR) Dissemination

VISSR image observations and S-VISSR dissemination were satisfactory as scheduled except for the cancelled observations during this month. The following table shows performance and summary of image observation and S-VISSR dissemination.

Performance of Image Observations and S-VISSR Dissemination

GMS-5	Observations	S-VISSR Dissemination	Remarks
Scheduled	802	802	
Performed	802	802	
Performance in %	100	100	

Summary of Cancelled Observations

Date	Cancelled	Reasons
	None	

Summary of Cancelled S-VISSR Dissemination

Date	Cancelled	Reasons
	None	

2.2 WEFAX Dissemination

WEFAX dissemination was satisfactory except for the cancelled observations during this month. The following table shows performance and summary of WEFAX dissemination.

WEFAX Dissemination Performance

GMS-5	Disseminated	Remarks
Scheduled	2348	
Performed	2348	
Performance in %	100	

Summary of Cancelled WEFAX Dissemination

Date	Cancelled	Reasons
	None	

3. Data Collection System

3.1 International Data Collection System (IDCS)

The following table shows the IDCP messages are received at MSC and disseminated through the GTS.

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	82	1	0	81
I10	3	0	0	0	0
I14	3	125	3	0	122
I15	7	172	0	0	172
I16	5	0	0	0	0
I18 (ASDAR)	10	662	106	0	556
I20	3	0	0	0	0
Total	67	1041	110	0	931

a) Number of DCPs registered on GMS-5 IDCS as of 30 November 2002.

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

c) The messages were none or unsuited to the WMO codes and "DATA BUFFER EMPTY" or "NO MESSAGE was detected by the DCP data processing software at MSC

3.2 Interference on IDCP Channels

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

Interference on GMS IDCS Channels (March 2003)

ch.	1	2	3	4	5	6	7	8	9	10	11
Mar.	S	W			S						

ch.	12	13	14	15	16	17	18	19	20	21	22
Mar.											

ch.	23	24	25	26	27	28	29	30	31	32	33
Mar.		W				W			S		S

S: severe interference

W: weak interference

4. Satellite System Status

4.1 Satellite Status

GMS-5 was located at 140 degree East and continued to provide its operational services.

4.2 Maneuver

Maneuver was not performed this month.

4.3 Orbit and Attitude Elements of GMS-5

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

Epoch 00:00:00 UTC, 9 April 2003

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42162.41884
	Eccentricity (e)	-	0.00011252
	Inclination (I)	Degree	1.87496
	Right ascension of ascending node (Ω)	Degree	83.82116
	Argument of perigee (ω)	Degree	250.67842
	Mean anomaly (M)	Degree	2.04057
Attitude	Right ascension (α)	Degree	177.24823
	Declination (δ)	Degree	-88.04535

5. Ground System Status

The operation for the ground system was satisfactory.