

GMS Monthly Operations Report

June 2001

1. Events of Special Operation

1.1 Eclipse Operation

No Eclipse Operation.

1.2 Solar-interference Operation

No Solar-interference Operation.

1.3 Typhoon Special Observation

No Typhoon Special Observation.

1.4 System Maintenance

System maintenance which affects GMS operation was not performed.

1.5 VISSR Expanded Frame Operation

VISSR Expanded Frame Operation was performed on 5,11,19 and 26 July 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	Remarks
Scheduled	840	
Performed	840	
Performance in %	100.0	

Summary of Cancelled Observations and 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	2516	
Performed	2514	
Performance in %	99.9	

Summary of Cancelled WEFAX Dissemination

Date	Cancelled	Reasons
12 June	H/I-07	Attitude maneuver

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 ^{a)}	Registered ^{b)}	Received messages	Format errors ^{b)}	Non WMO code ^{c)}	Disseminated messages to the GTS
SHIP including ASAP	I06	78	197	0	0	78
	I07	85	208	4	0	204
	I14	32	78	0	0	78
	I15	39	0	0	0	0
	I16	68	681	15	0	666
ASDAR	I18	22	735	88	0	647
Total		324	1899	107	0	1673

a) Number of IDCPs registered on GMS-5 IDCS as of 30 June 2001

b) 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.

c) Format error was caused by the radio telecommunication interference

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 (June 2001)

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

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

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

S: severe interference

W: week 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

Attitude maneuver was performed on 12 June.

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, 5 July 2001

	Element	Unit	Value
Orbit	Semi-major axis (a)	km	42167.43103
	Eccentricity (e)	-	0.00005146
	Inclination (I)	degree	0.93430
	Right ascension of ascending node (Ω)	degree	77.42405
	Argument of perigee (ω)	degree	48.66661
	Mean anomaly (M)	degree	297.19662
Attitude	Right ascension (α)	degree	173.88236
	Declination (δ)	degree	- 89.07411

5. Ground System Status

5.1 Ground System Status

The operation for the ground system was satisfactory.