

GMS Monthly Operations Report

July 2003

1. Events of Special Operation

1.1 Eclipse Operation

No Eclipse Operation.

1.2 Solar-interference Operation

No Solar-interference Operation.

1.3 System Maintenance

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

2. Image Observations and Dissemination

2.1 S-VISSR type data disseminations

S-VISSR type data Disseminations were satisfactory as scheduled except for the cancelled observations during this month. The following table shows performance and summary of S-VISSR type data disseminations.

Performance of S-VISSR type data disseminations

	S-VISSR type data Disseminations	Remarks
Scheduled	744	
Performed	736	
Performance in %	98.9	

Summary of anomaly S-VISSR type data disseminations

Date	Obs. Time	Remarks
1 July	G10	Lacked a data of Southern Hemisphere
18 July	G00	Lacked a data of Southern Hemisphere
19 July	G12	Lacked a data from lat. 5N to lat. 5S

Summary of cancelled S-VISSR type data disseminations

Date	Obs. Time	Reasons
8 July	G16	Missing GVAR data
11 July	G19	Missing GVAR data
11 July	G20-G23	Image data processing error at MSC
12 July	G00	
19 July	G02	Lacked a data from lat. 5N to lat. 5S Trouble of data processing system at MSC

2.2 WEFAX Dissemination

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

Performance of WEFAX Disseminations

GMS-5	Disseminated	Remarks
Scheduled	2604	
Performed	2582	
Performance in %	99.2	

Summary of anomaly WEFAX disseminations

Date	Product	Remarks
18 July	A/B-12 M/N-12	Lacked a data at south of equator
19 July	A/B/C/D-12 K/L/M/N-12	Lacked a data about equator

Summary of Cancelled WEFAX Dissemination

Date	Product	Reasons
8 July	H/J-16	Missing GVAR data
11 July	H/J-19	Missing GVAR data
11 July	A/B/C/D-21	Image data processing error at MSC
12 July	A/B/C/D-00 K/L/M/N-00	
18 July	C/D-00 M/N-00	Scan count error of GVAR data
19 July	H/I-02	Missing GVAR data

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	126	0	0	126
I10	3	0	0	0	0
I14	3	0	0	0	0
I15	7	111	0	0	111
I16	5	0	0	0	0
I18 (ASDAR)	9	154	31	0	123
I20	3	0	0	0	0
Total	66	391	31	0	360

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

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 (Jul 2003)

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

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

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

Attitude control maneuver and spin rate control maneuver was performed on 7 July. East-west maneuver was performed on 28 July.

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, 14 August 2003

	Element	Unit	Value
Orbit	Semi-major axis (a)	Km	42163.89308
	Eccentricity (e)	-	0.00007269
	Inclination (I)	Degree	2.21936
	Right ascension of ascending node (Ω)	Degree	83.64301
	Argument of perigee (ω)	Degree	12.57083
	Mean anomaly (M)	Degree	5.99023
Attitude	Right ascension (α)	Degree	170.64086
	Declination (δ)	Degree	-87.86769

5. Ground System Status

The operation for the ground system was satisfactory.