—Prepared by JMA—Agenda Item: I/3.1—Discussed in WG I

Status of the GMS IDCS

This paper reports on the status of the IDCPs (ASDAR, SHIP including ASAP) registered on the GMS IDCS. CGMS members are invited to take note.

Status of the GMS IDCS

1.____Status of the IDCP Registration

As of 31 August 2003, the total number of IDCPs registered on the GMS-5 IDCS was 66_5 i.e. 57 for SHIP including ASAP, 9 for ASDAR IDCPs. The recent history of the number of registered IDCPs is shown in Fig.-1. The registrations for NOAA SHIPs for GOES/SEAS DCPs were unregistered in 2002. As cleanly seen from the figure, the Consequently, the number of the registered IDCPs for SHIP has markedly decreased in the year. abruptly and considerably after 2002. The reason is that many registrations of NOAA SHIPs for GOES/SEAS DCPs were withdrawn.

2. ———Interference to the IDCS Channels

The status of interferences to the IDCS channels has been monthly reported in the Monitoring Reports by the Meteorological Satellite Center (MSC). The statistics on the interferences detected Monitoring reports from July 2002 to August 2003 are summarized as in Table-1. During this period, severe interferences including temporary phenomena were observed detected in 12 out of 33 IDCS channels, i.e. Channel 1, 5, 6, 7, 8, 9, 10, 17, 29, 31, 32 and 33.

3._____Status of Reception and Dissemination of the IDCP Messages

IDCP messages generated stations are received and edited converted into WMO-format bulletins at Meteorological Satellite Center (MSC₂) and disseminated through the GTS. The status of reception and dissemination of IDCP messages are summarized in both Table-2.1 and Table-2.2. Since no small number of NOAA SHIPs werenumber of NOAA SHIPs was unregistered in September 2002, the statuses are shown separately, namely Table-2.1 and 2.2 shows the statistics for periods Table 2.1 has the data from July to September 2002, where statistics for NOAA SHIPs are included, and Table 2.2 has the data from October 2002 to August 2003 respectively. This division of the summary into two tables is because number of registered IDCPs changed dramatically due to the withdrawal of registrations of NOAA SHIP on September 2002, and the statistical bases are very different before and after then.

As can be seen from the tables, The rate of dissemination on ASDAR, channel (I18) is relatively low, since messages from out of GMS-5's responsible area for ASDAR acquisition are rejected, about ASDAR channel (I18). The major reason is that part of messages, received from the aircraft on the channel, are classified as "NOT disseminated", since the geographical location contained in the ASDAR message is out of responsible area of GMS-5 for ASDAR acquisition.

4. _____IDCS Status Report on the Internet Server

Fig. 2 shows how a The monitoring report about on the interference of IDCS channel and the status report for reception and dissemination of the IDCP massages are posted can be accessed on the Internet server of JMA, i.e. the information can be opened from the web page, as a part of the web page, "-"GMS Monthly Operation Report" on the Web site administered maintained by MSC. Likewise, a report of reception and dissemination for IDCP message can be opened. (Fig. 2). (URL:http://mscweb.kishou.go.jp/operation/opr report.htm).

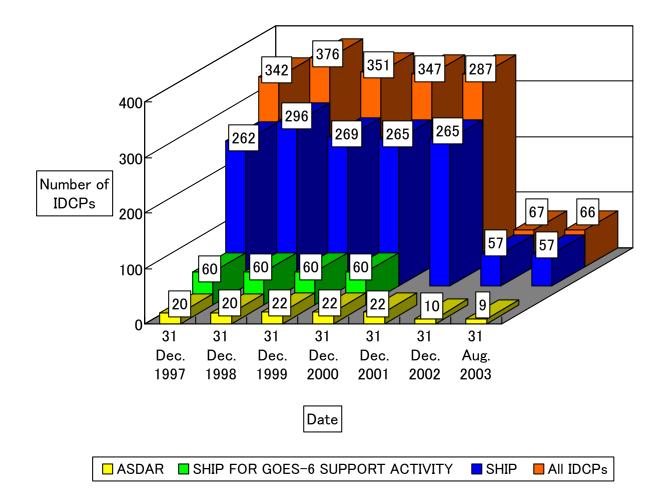


Fig.-1 History of IDCP Registration on GMS IDCS

Table-1 Monitoring Report Summary of GMS-5 IDCS Channels
(July 2002 - August 2003)

	2002					2003								
	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY.	JUN.	JUL.	AUG.
CH 1	W	W	W	S	S	S	S	S	S	S	S	W	S	W
CH 2									W					
CH 3			W											
CH 4								W						
CH 5			W	W	S		S	W	S	S	S	W	W	W
CH 6	W			W		S								
CH 7	S	S	S	S	W		W	W			W			
CH 8	S	W	S	S		W								
CH 9	S	S	S	S										
CH10	S	W	S	S										
CH11														
CH12	<u> </u>													
CH13														
CH14														
CH15	<u> </u>													
CH16		W												
CH17	S	S				W	S							
CH18	<u> </u>	W												
CH19	<u> </u>													
CH20	<u> </u>													
CH21														
CH22	<u> </u>													
CH23	<u> </u>													
CH24								W	W					
CH25	W	W	W	W	W	W							W	
CH26														
CH27														
CH28								W	W			W	W	
CH29	W	S	W	W	W	W	W							
CH30]												1	
CH31	W	S	S	S	S	S	S	S	S	W		W	W	W
CH32	W	S	S	S	W	W	W	W		W		W	W	W
СН33	S	S	S	S	S	S	S	S	S	S	S	S	S	S

S: severe interference

W: weak interference

Table-2.1 Reception and Dissemination of IDCP Messages (1) (July - Sep 2002)

IDCP channel	Number of IDCPs	Received Messages	Format errors *)	Disseminated Messages to the GTS	Rate of Dissemination (%)	
I06	78	330	9	321	97	
I07	86	814	3	811	99	
I10	3	0	0	0	-	
I12	20	0	0	0	-	
I14	26	607	0	607	100	
I15	40	263	0	263	100	
I16	5	0	0	0	-	
I18 (ASDAR)	10	1068	207	861	80	
I20	3	0	0	0	-	
Total	271	3082	219	2863	92	

Table-2.2 Reception and Dissemination of IDCP Messages (2) (Oct 2002 - Aug 2003)

IDCP channel	Number of IDCPs	Received Messages	Format errors *)	Disseminated Messages to The GTS	Rate of Dissemination (%)
I06	14	76	10	66	86
I07	22	1588	17	1571	98
I10	3	0	0	0	-
I14	3	825	10	815	98
I15	7	996	0	996	100
I16	5	0	0	0	-
I18 (ASDAR)	9	4305	855	3450	80
I20	3	0	0	0	-
Total	66	7790	892	6898	88

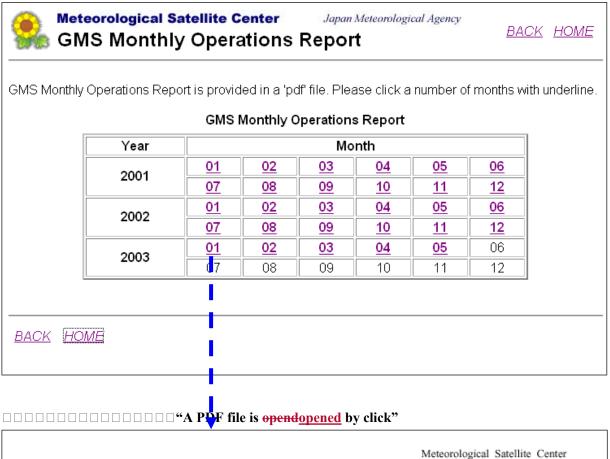
^{*)} NOTES: The details of "Format errors" are shown below.

(1) data Data error (e.g., "STOP e.g., "STOP BIT ERROR", "PARITY BIT ERROR", etc.) occurred due to the interference

on radio telecommunication, and the other reasons.

(2) Edit processing error occurred due to inadequate messages to the WMO code or the origin of the report being out of the area of responsibility for acquisition of GMS-5.

Lhttp://mscweb.kishou.go.jp/operation/opr report.htm-



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3.2 Interference on IDCP Channels

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

Interference on GMS IDCS Channels (January 2003)											
ch.	1	2	3	4	5	6	7	8	9	10	11
	S				S		W				
ch.	12	13	14	15	16	17	18	19	20	21	22
						W					
ch.	23	24	25	26	27	28	29	30	31	32	33
							W		S	W	S
S: se	S: severe interference										

S: severe interference W: weak interference

Fig.-2 GMS IDCS Status Report as seen on the Internet Server