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Discussed in WG I

STATUS OF THE GMS IDCS

This document describes the status of the IDCPs (ASDAR, SHIP including ASAP) registered on the GMS IDCS.

Any comments of CGMS Members are welcomed.

STATUS OF THE GMS IDCS

1 STATUS OF THE IDCS REGISTRATION

As of 30 June 2002, the total number of IDCPs registered on the GMS-5 IDCS was 271, i.e. 261 for SHIP including ASAP, 10 for ASDAR IDCPs. The recent history of the number of registered DCP is shown in Fig.-1. The number of registered IDCP for GMS-5 decreased last year due to mainly the termination of GOES-6 DCP support.

2 INTERFERENCE TO THE IDCS CHANNELS

The interference in the IDCS channels of GMS-5 has been monitored and the monitoring report has been regularly sent to the CGMS Secretariat. The monitoring reports July 2001 to June 2002 are summarized in Table-1. In this period, severe interferences including temporary phenomena were found in 14 of 33 IDCS channels, i.e. Channel 1, 6, 7, 8, 9, 10, 11, 17, 25, 28, 29, 31,32 and 33. There has been no remarkable change on the telecommunication conditions of IDCS since the previous CGMS meeting.

3 DISSEMINATION OF THE IDCP MESSAGES

The IDCP messages are received at Meteorological Satellite Center (MSC) and disseminated through the GTS. The reception and dissemination from July 2001 to June 2002 are summarized in Table-2. Some discrepancies between the number of received and sent messages are found in Table-2. Part of the received messages weren't put into GTS due to its insufficient form. The reasons are mainly as follows:

(1) The messages contained maintenance messages e.g. "DATA BUFFER EMPTY", "NO MESSAGE" or house keeping data, which didn't follow the WMO code.
(2) The messages have errors caused through radio telecommunication.
(3) Codes or call signs from some IDCP SHIPs were different from the registered ones.

4 CONSIDERATION FOR THE EXPANSION OF IDCS CHANNELS

The Japan Meteorological Agency has been exploring the methods to increase the number of the IDCS channels referring the documents written by CGMS members. Through the explanation, we have concluded that to narrow the bandwidth of each channel from 3KHz to 1.5KHz is most adequate for all satellite operators.
Details are shown in Fig.-2. Therefore, we are studying the possibility of the introduction of this method as a part of the upgrade of our computer system which processes the DCP data.

5 OTHER INFORMATION (HIGH RATE REGION DCP)

In the JMA's meteorological observing vessels and the Marcus Island, the data transmission rate of RDCPs were upgraded from 100 bps to 300 bps(4.0kHz bandwidth per channel). This upgrade will allow the in time transmission of the recent gradually increasing volume of observational data. Those DCPs operation were started in September 2002.

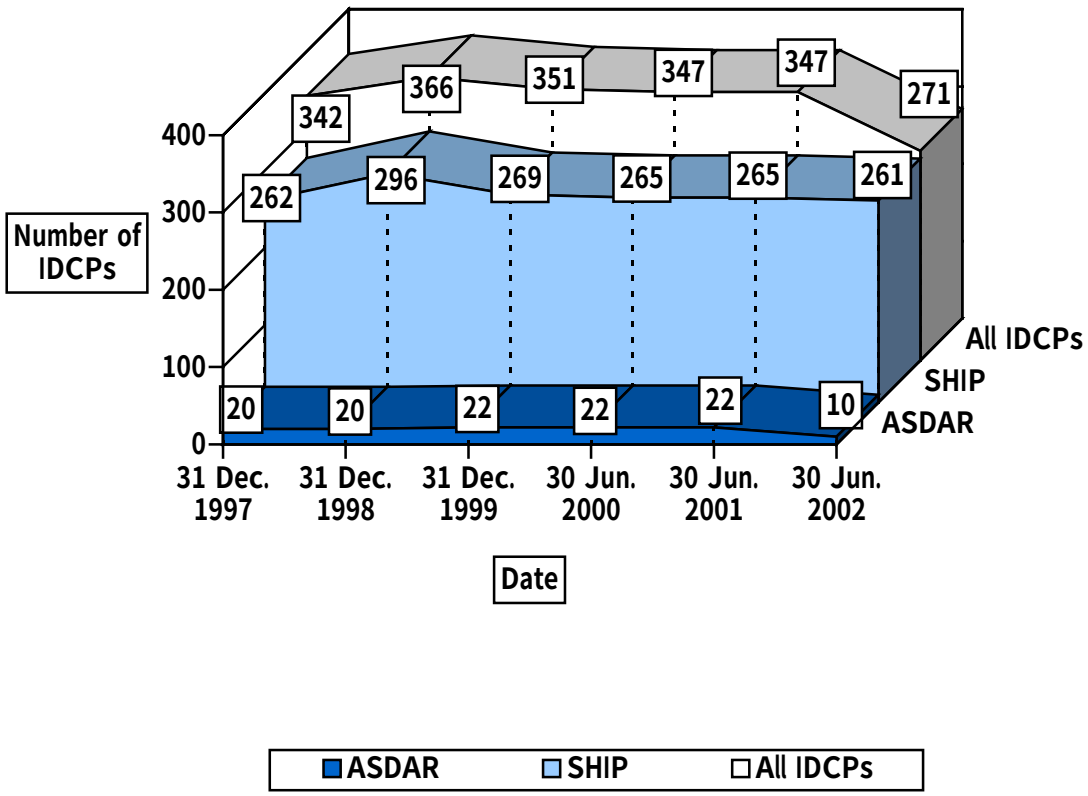

Fig.-1 History of IDCP Registration on GMS IDCS

Table-1 Monitoring Report of GMS-5 IDCS Channels

(July 2001 - June 2002)

	2001						2002					
	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY.	JUN.
CH 1	W	W	W	W	W	W	W	W	W	S	W	S
CH 2				W	W		W	W				
CH 3				W			W	W				
CH 4												
CH 5	W	W	W	W	W	W	W	W	W	W		W
CH 6	S	S	S	S	S	S	W	W	W	W	S	S
CH 7	S	S	S	S	S	S	S	S	S	S	S	S
CH 8	S	S	S	S	S	S	S	S	S	S	S	S
CH 9	S	S	S	S	S	S	S	S	S	S	S	S
CH10	S	S	S	S	S	S	S	S	S	S	S	S
CH11	S	W	S	S	W	W						
CH12												
CH13												
CH14												
CH15								W	W			
CH16	W	W	W		W	W	W		W	W	W	
CH17	W	W	S	S	S	S	S	S	S	S	S	S
CH18	W	W	W		W	W			W	W	W	
CH19												
CH20												
CH21												
CH22					W							
CH23				W								
CH24												
CH25	W	W	W					S	W	W	S	W
CH26												
CH27												
CH28												S
CH29						W		S	S	S	S	S
CH30												
CH31								S	S	S	S	W
CH32	S	S	W	W	S	S	S	S	S	S	S	S
CH33	S	S	S	S	S	S	S	S	S	S	S	S

S: severe interference

W: weak interference

Table-2 Reception and Dissemination of Messages

(July 2001 - June 2002)

IDCP channel	Number of IDCPs	Received messages	Format errors [a)]	Non WMO code [b)]	Disseminated messages to the GTS
I06	78	1747	14	0	1733
I07	86	2638	76	44	2466
I10	3	0	0	0	0
I12	20	0	0	0	0
I14	26	537	0	0	537
I15	40	571	7	74	490
I16	5	0	0	0	0
I18 (ASDAR)	10	6131	983	0	5148
I20	3	0	0	0	0
Total	271	11624	1080	118	10374

a) Format error was caused by the radio telecommunication interference or inadequate WMO codes or call signs.

b) The number of messages which do not follow WMO codes, e.g., " DATA BUFFER EMPTY "or "NO MESSAGE" or house keeping data.

Fig.-2 Proposal for the expansion of IDCS channels