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GENEVA, 31 October 1991

Annexes: 5

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) October 1991

Action required : To be noted and brought to the attention of appropriate operational units

Dear Sir/Madam,

As you are aware, all the information on changes to the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) is being assembled and distributed by the Secretariat on a monthly basis to facilitate updating and follow-up action.

In this connection, please find attached the annexes providing the latest operational information on WWW and MMS. Those items and sub-items for which information is provided are listed below:

Annex I - Global Observing System

C. Information on operational status of elements of the surface-based sub-system

1. Publication No. 9, Volume A - Stations
  - 1.1 New stations
  - 1.2 Deleted stations
  - 1.3 Changes to existing stations
4. Automatic marine stations
5. ARGOS service
  - 5.1 ARGOS monthly status report
7. Feed-back from Members to the Secretariat on any changes in the observing network

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4684)  
Directors of Meteorological Services of non-Member countries (MC-2455)  
Presidents and Vice-Presidents of Regional Associations (P.RA-1279)  
Presidents and Vice-Presidents of Technical Commissions (P.TC-1397)  
Chairmen of CBS Working Groups  
Secretary-General of ICAO  
Director-General of IATA  
Secretary of IOC  
Director-General of ASECNA  
Director of ECMWF

**Annex II - Global Data-processing System**

- B. Information on operational status of GDPS including changes to WMO Publication No. 9 - Volume B
  - 2. RSMC output products

**Annex III - Global Telecommunication System**

- C. Information on the operation of the GTS
  - 1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)
    - 1.3 Changes to bulletins
    - 1.5 Bulletins for oceanographic data

**Annex IV - Codes**

- B. Manual on codes
  - 1. Global practices
    - 1.3 Changes to codes

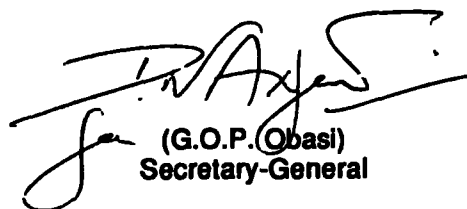
**Annex V - Marine Meteorological Services (MMS) and related oceanographic activities**

- C. Information on the operation of Marine Meteorological Services
  - 1. Broadcasts for shipping and other marine activities (Publication No. 9, Volume D, Part A)
    - 1.3 Changes in schedules/technical specifications
  - 2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C<sub>1</sub>)

The CBS Advisory Working Group recommended that a special table should be added to the monthly letter to report changes of the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations. You will note, therefore, that a new item, number 7, "Feed-back from Members to the Secretariat on any changes in the observing network" has been added to Annex I - Global Observing System.

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated. If you wish to receive additional copies of the monthly circular letter, please inform the Secretariat accordingly.

Yours faithfully,



(G.O.P. Obasi)  
Secretary-General

# Annex I - Global Observing System

Date: October 1991

## C. Information on operational status of elements of the surface-based sub-system

### 1. Publication No. 9, Volume A - Stations

#### 1.1 New stations

71844	BIG TROUT LAKE READAC, ONT.	53°48'N	89°53'W	224	222	x . x . x . x .	. . . . .
89024	UNIV. WI. ID 8932	77°31' S	23°44'W	-	1545	x x x x x x x x	. . . . . AUT
89261	UNIV. WI. ID 8930	64°10' S	61°32'W	-	17	x x x x x x x x	. . . . . AUT
89643	UNIV. WI. ID 8934	66°49' S	141°23'E	-	39	x x x x x x x x	. . . . . AUT
89660	UNIV. WI. ID 8980	66°17' S	162°20'E	-	30	x x x x x x x x	. . . . . AUT
93460	WAIONE	40°27'S	176°18'E	-	50	. . x . . . x x	. . . . .
93515	WESTPORT AERO AWS	41°44' S	171°34'E	-	18	x x x x x x x x	. . . . . AUT

#### 1.2 Deleted stations

10455 SCHIERKE  
71846 LANSLOWNE HOUSE, ONT.

#### 1.3 Changes to existing stations

71823	LA GRANDE IV, QUE.	x . x . x . x .	H00-03, 09-23	RW . RW .	AUT
71856	GIMLI, MAN.	x . x . x . x .	H00-01, 07-23	. . . .	AUT
71861	BROADVIEW, SASK.	x . x . x . x .	H00-24	. . . .	
71866	SASKATOON, SASK.	x . x . x . x .	H00-24	. . RW .	

Notification from the Deutscher Wetterdienst that as from 1 November 1991 all synoptic stations in Germany will use block number 10. However, for those stations previously using block 09, parallel operations will be maintained under block 10 and block 09 until 31 March 1992 (see also Annex III).



Moored Buoys (Great Lakes):

WMO buoy Identifier	Argos Identifier	Position 3 October 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
45132	N/A	42°28'N	081°13'W	X	X	X	X	X	X	X	X	.
45135	N/A	43°48'N	076°53'W	X	X	X	X	X	X	X	X	.
45136	3477D	48°32'N	086°57'W	X	X	X	X	X	X	X	X	.
45137	N/A	45°33'N	081°01'W	X	X	X	X	X	X	X	X	.
45138	08249	49°32'N	065°43'W	X	X	X	X	X	X	X	X	.
45139	N/A	43°16'N	079°33'W	X	X	X	X	X	X	X	X	.

Drifting Buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position 3 October 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
46632	12511	43°37'N	133°08'W	.	X	X	X	X	.	.	X	
46681	07135	55°17'N	143°11'W	.	X	X	X	X	.	.	X	
46682	07136	44°54'N	160°51'W	.	X	X	X	X	.	.	X	
46684	07137	43°06'N	152°31'W	.	X	X	X	X	.	.	X	
46687	07138	30°12'N	146°42'W	.	X	X	X	X	.	.	X	
46692	07139	43°53'N	148°02'W	.	.	X	X	X	.	.	X	
46693	07140	35°08'N	145°33'W	.	X	X	X	X	.	.	X	
46704	07128	37°01'N	132°46'W	.	X	X	X	X	.	.	X	
46705	07129	50°58'N	133°39'W	.	X	X	X	X	.	.	X	
46706	07130	34°13'N	134°56'W	.	X	X	X	X	.	.	X	
46709	07133	50°02'N	170°08'W	.	X	X	X	X	.	.	X	

Drifting Buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position 19 September 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
48523	01107	73°12'N	139°36'W	.	X	X	X	.	X	.	.	

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the October 1991 Data Platform Status Report of the Data Buoy Centre of the National Oceanic and Atmospheric Administration (NOAA). Data from moored buoys and platforms are collected by geostationary meteorological satellites and reports are distributed on the GTS in SHIP code. Data from drifting buoys are collected by the Argos system and distributed on the GTS in DRIBU code.

Legend

<u>Column</u>	<u>Observed or technical parameters</u>
1	Wind direction and speed
2	Air temperature
3	Pressure
4	Pressure tendency
5	Sea-surface temperature
6	Wave period and height
7	Wave spectra
8	Drogued

**Moored Buoys:**

WMO buoy Identifier	Position		Observed or technical parameters						
	10-17 October 1991		1	2	3	4	5	6	7
32302	18°00'S	85°06'W	X	X	X	X	X	X	X
41001**	34°54'N	72°54'W	X	X	X	X	X	X	X
41002**	32°18'N	75°12'W	X	X	X	X	X	X	X
41006**	29°18'N	77°24'W	*	*	*	*	*	*	*
41008	30°42'N	81°06'W	X	X	X	X	X	X	X
41009	28°30'N	80°12'W	X	X	X	X	X	X	X
41010	28°54'N	78°30'W	X	X	X	X	X	X	X
41017	35°24'N	75°06'W	X	X	X	X	X	X	X
42001**	25°54'N	89°42'W	X	X	X	X	X	X	X
42002**	25°54'N	93°36'W	X	X	X	X	X	X	X
42003**	25°54'N	85°54'W	X	X	X	X	X	X	X
42007	30°06'N	88°48'W	X	X	*	X	X	.	.
42019	27°54'N	95°00'W	X	X	X	X	X	X	X
42020	27°00'N	96°30'W	*	*	*	*	*	*	*
42025	24°54'N	80°24'W	.	X	.	X	X	X	X
44004**	38°30'N	70°36'W	X	X	X	X	X	X	X
44005**	42°42'N	68°36'W	X	X	X	X	X	X	X
44007**	43°30'N	70°06'W	X	X	X	X	X	X	X
44008**	40°30'N	69°24'W	X	X	X	X	X	X	X
44009**	38°24'N	74°42'W	X	X	X	X	X	X	X
44011**	41°06'N	66°36'W	X	X	X	X	X	X	X
44012**	38°48'N	74°36'W	X	X	X	X	X	X	X
44013**	42°24'N	70°48'W	X	X	X	X	X	X	X
44014	36°36'N	74°48'W	X	X	X	X	X	X	X
44025	40°18'N	73°12'W	X	X	X	X	X	X	X
44026	36°00'N	73°30'W	X	X	X	X	X	X	X
45001**	48°00'N	87°48'W	*	X	X	X	X	X	X
45002**	45°18'N	86°24'W	*	X	X	X	X	*	*
45003**	45°18'N	82°42'W	X	X	X	X	X	X	X
45004**	47°30'N	86°30'W	*	X	X	X	X	X	X
45005**	41°42'N	82°24'W	*	*	*	*	*	*	*
45006**	47°18'N	89°54'W	X	X	X	X	X	X	X
45007**	42°42'N	87°06'W	X	X	X	X	X	X	X
45008**	44°18'N	82°24'W	X	X	X	X	X	X	X
46001**	56°18'N	148°18'W	X	X	X	X	X	X	X
46002**	42°30'N	130°24'W	X	X	X	X	X	X	X
46003**	51°54'N	155°54'W	X	X	X	X	X	X	X
46005**	46°06'N	131°00'W	X	X	X	X	X	X	X
46006**	40°48'N	137°42'W	*	*	*	*	*	*	*
46011	34°54'N	120°54'W	X	X	X	X	X	*	*
46012	37°24'N	122°42'W	X	X	X	X	X	X	X
46013	38°12'N	123°18'W	X	X	X	X	X	X	X
46014	39°12'N	124°00'W	*	*	*	*	*	*	*
46022	40°42'N	124°30'W	X	X	X	X	X	X	X

\*\* Primarily for National Weather Service (NWS) support; however, all stations report data to NWS  
\* Sensor/system failure

**Moored Buoys (continued):**

WMO buoy Identifier	Position		Observed or technical parameters						
	10-17 October 1991		1	2	3	4	5	6	7
46023	34°18'N	120°42'W	X	X	X	X	X	X	X
46025	33°42'N	119°06'W	X	X	X	X	X	X	X
46026**	37°42'N	122°42'W	X	X	X	X	X	X	X
46027**	41°48'N	124°24'W	X	X	X	X	X	X	X
46028	35°48'N	121°54'W	X	X	X	X	X	X	X
46029	46°12'N	124°12'W	X	X	X	X	X	X	X
46030	40°24'N	124°30'W	*	*	*	*	*	*	*
46035	57°00'N	177°42'W	X	X	X	X	X	X	X
46040	44°48'N	124°18'W	X	X	X	X	X	X	X
46041	47°24'N	124°30'W	X	X	X	X	X	X	X
46042	36°48'N	122°24'W	X	X	X	X	*	X	X
46045	33°48'N	118°24'W	X	X	X	X	X	X	X
51001**	23°24'N	162°18'W	X	X	X	X	X	X	X
51002**	17°12'N	157°48'W	X	X	X	X	*	X	X
51003**	19°18'N	160°48'W	X	X	X	X	X	X	X
51004**	17°24'N	152°30'W	X	X	X	X	X	X	X

**Drifting Buoys:**

WMO buoy Identifier	WMO buoy Identifier	Position		Observed or technical parameters							
		10-17 October 1991		1	2	3	4	5	6	7	8
14804	08845	28°S	045°E	.	X	X	.	X	.	.	.
16807	05133	51°S	050°E	.	X	X	.	X	.	.	.
16809	12314	45°S	027°W	.	X	X	.	X	.	.	.
16810	12309	52°S	028°W	.	X	X	.	X	.	.	.
17803	05571	34°S	107°E	X	*	X	.	*	.	.	X
17804	12300	32°S	103°E	.	*	X	.	X	.	.	.
17805	12304	21°S	080°E	.	*	X	.	X	.	.	.
17809	05125	41°S	052°E	.	X	X	.	X	.	.	.
17811	05569	42°S	004°W	.	X	X	.	X	.	.	.
17825	05129	44°S	038°E	.	X	X	.	X	.	.	.
33301	12310	56°S	028°W	.	*	X	.	.	.	.	.
33509	12307	43°S	004°W	.	X	X	.	X	.	.	.
33510	12308	44°S	042°E	.	X	X	.	X	.	.	.
33826	12296	57°S	067°E	.	X	X	.	X	.	.	.
33827	12297	47°S	120°E	.	X	X	.	X	.	.	.
33828	12298	38°S	092°E	.	X	X	.	X	.	.	.
33830	12305	38°S	075°E	.	X	X	.	X	.	.	.
54829	06762	36°S	146°W	.	*	X	.	X	.	.	.
54830	06763	40°S	104°W	.	*	X	.	X	.	.	.
54833	06586	44°S	137°W	X	X	X	.	X	.	.	X

\*\* Primarily for National Weather Service (NWS) support; however, all stations report data to NWS  
\* Sensor/system failure

Drifting Buoys (continued):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		14-16 October 1991		1	2	3	4	5	6	7	8
54835	06731	37°S	142°W	.	X	X	.	X	.	.	.
54836	05128	34°S	159°W	.	X	X	.	X	.	.	.
54837	05135	30°S	151°W	.	X	X	.	X	.	.	.
54838	08823	43°S	154°W	.	X	X	.	X	.	.	.
54839	12312	40°S	146°W	.	X	X	.	X	.	.	.
54840	05120	51°S	154°W	.	X	X	.	X	.	.	.
54842	05122	49°S	159°W	.	X	X	.	X	.	.	.
54843	05134	48°S	137°W	.	X	X	.	X	.	.	.
54844	05123	52°S	151°W	.	X	X	.	X	.	.	.
55803	05136	56°S	120°W	.	X	X	.	X	.	.	.
56832	09219	11°S	070°E	.	X	X	.	X	.	.	.
56834	09218	14°S	062°E	.	X	X	.	X	.	.	.
56835	12291	31°S	088°E	.	X	X	.	X	.	.	.
56836	12293	29°S	103°E	.	X	X	.	X	.	.	.
56837	05116	16°S	104°E	.	X	X	.	X	.	.	.
56838	12294	20°S	092°E	.	X	X	.	X	.	.	.

5. ARGOS service5.1 ARGOS monthly status report

As at 4 November 1991 the Argos service was handling reports from 726 drifting buoys, 190 moored buoys, 1 balloon, 28 ships, 126 animal trackings, 408 fixed stations, 354 boats and 39 miscellaneous platforms. DRIBU reports from 66 drifting buoys and BATHY reports from 25 selected ships were transmitted to the RTH Paris and DRIBU reports from 319 drifting buoys were transmitted to the WMC Washington for insertion into the GTS. The list of platforms reporting through Argos and distributed over the GTS follows:

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Australia	55511	00418	Australia (continued)	S6FK *	09193
	55512	00416		VJBQ *	09196
	56001	04873		VJDI *	09188
	56501	02934		VJDP *	09198
	56502	02936	Canada	21551	01314
	56503	08035		21552	01315
	56504	08036		46644	01198
	56505	08037		46645	01199
	56506	04875		46646	01310
	56547	04870		46649	01313
	56548	04871		46650	01424
	56549	04872		47551	09786
	9VBZ *	09195		47552	09784
	9VUU *	09190		47559	04004
9VWM *	09191				
GYSE *	09199				

\* PTT's transmitting at irregular intervals



<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	
France	13531	05832	Netherlands	44761	06669	
	44760+	06668		64111	08521	
	62504	05825		64112	08522	
	62513	05829		64113	08523	
	62514	05831		64114	08524	
	62520	10103		New Zealand	55580	06439
	63002+	09407			55582	07175
	64516	05796			55583	07179
	74001+	09406			55584	07178
	C6HL *	04705			55585	07177
	DIDA *	08742	55586	07176		
	ELEH *	08746	Norway	17001	01591	
	FNCZ *	08744		17003	01758	
	FNED *	08748		62694	03670	
	FNGS *	04707		63004	09403	
	FNJT *	04722		65591	06666	
	FNOM *	04701	65592	03039		
	FNPA *	04706	South Africa**	17521	14058	
	FNQB *	04726		17522	14063	
	FNZO *	04717		17523	14065	
	FNZQ *	04703		17525	14064	
	FPYO *	04729		17526	14067	
	GQEK *	04708		17527	14060	
	HPEW *	04720		17530	14062	
	ZDAZ *	04714		17531	14069	
	ZDBE *	04718		17532	14059	
	Germany	48601		11240	17536	14066
48602		11241	United Kingdom	62805	06285	
48603		11242		64043	06271	
48604		11243		United States of America	12502	14577
48605		11244			13003	01649
48606		11245			13004	01654
48607		11246	13007		01643	
71524		03315	13901		14455	
71545		09353	13902	14456		
71546		09354	13903	14457		
71547		09355	13904	14458		
71549		09361	Iceland	13905	14459	
Japan		64608		04185	13906	14460
		46601		04780	13907	14461
		46602	04781	13908	14462	
46603	04782					

+ PTT's which were removed from GTS during the month

\* PTT's transmitting at irregular intervals

\*\* The Government of the Republic of South Africa has been suspended by Resolution 38 (Cg-VII) from exercising its rights and enjoying its privileges as a Member of WMO.

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	13909	14463	United States of America (continued)	32536	15026
	14311+	14311		32537	10839
	14464	14464		32538	15602
	14804	08845		32540	11904
	16807	05133	32541	15595	
	16809	12314	32542	15596	
	16810	12309	32543	11015	
	17803+	05571	32544	11908	
	17804	12300	32545	10849	
	17805	12304	32546	11160	
	17809	05125	32547	15597	
	17811	05569	32548	15599	
	17825	05129	32549	11163	
	21523	14590	32551	15600	
	21525	14591	32552	11195	
	21527	14592	32553	15603	
	21529	14599	32554	15601	
	21531	14603	32555	15625	
	21535	14312	32556	11934	
	22511	12493	32557	15626	
	22512	12497	32558	09276	
	22513	14334	32559	15627	
	25537	12805	33301	12310	
	31502	09844	33509	12307	
	32317+	15808	33510	12308	
	32318+	06478	33826	12296	
	32439	15604	33827	12297	
	32512	11920	33828	12298	
	32513	11917	33830	12305	
	32514+	10836	34901	15123	
	32515	11898	34902	15125	
	32516	11927	41503	14578	
	32517	15093	41504	14579	
	32518	15091	41505	14580	
	32519	11905	43501	11919	
	32522	15598	43502	11168	
	32523	10809	43504	11198	
	32524	11921	43508	11171	
	32525	11192	44513	04645	
	32528	11930	44514	04646	
	32529	15028	44552	15130	
	32531	15011	44553	11363	
	32532	11897	44555	11365	
	32533	15017	44556+	11359	
	32534	15018	44559	15138	
	32535	15025	44560	15142	

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	46531	15618	United States of America (continued)	51808	11912
	46532	15615		51809	14435
	46533	15619		51810	15594
	46534	15624		51811	11644
	46535	15607		51812	15079
	46536	15609		51813	11924
	46537	15612		51814	11682
	46538	15613		51816	15616
	46539	15622		51817	15617
	46540	15605		51818	15110
	46541	15643		51819	15116
	46542	15639		51820	15122
	46543	15642		51821	11690
	46544	15637		51822	11870
	46545	15640		51823	15095
	46546	15641		51824	11685
	48518	12800		51825	15620
	48520	12801		51826	11578
	48554	12802		51827	11688
	48555	12806		51828	15015
	48557	12808		51829	11202
	51006+	06798		51830	15088
	51011+	06476		51831	11689
	51014+	06521		51832	11691
	51025	12878		51833	11872
	51501	14581		51834	15124
	51502	14582		51835	09271
	51504	14576		51836	09270
	51506	14583		51837	15621
	51510	11671		51839	11700
	51511	15117		51840	15090
	51512	15089		51841	15623
	51513	11663		51842	11702
	51514	11675		51843	11703
	51515	14432		51844	09275
	51516	09274		51845	15107
	51517	11676		51846	11692
	51518	15077		51847	15027
	51519	15100		51849	15097
	51520	15592		51850	15608
	51801	14433		51853	15610
	51802	11915		51855	11705
	51803	15593		51856	15082
	51804	14434		51857	11667
	51806	15635		51858	15611
	51807	15094		51859	15606

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51861	15099	United States of America (continued)	52802	15047
	51862	11670		52803	15029
	51863	15636		52804	15051
	51865	15638		52805	15012
	51866	15644		52806	15085
	51867	15645		52807	09278
	51868	11669		52808	15014
	51869	11674		52809	15016
	51870	11679		52810	15039
	51872	11696		52811	15111
	51873	11699		52812	15126
	51874	11701		52866	11887
	51875	11704		52867	11893
	51876	11683		52868	11876
	51877	15073		52872	11890
	51878	15072		52877	11883
	51879	15074		53502	14333
	51880	15078		53505	14339
	51881	15080		53506	14586
	51882	15081		53507	14587
	51883	15083		53802	14965
	51884	15084		53803	14966
	51885	15086		53804	14979
	52001+	12526		53805	14985
	52002+	06795		53806	14991
	52003+	12524		53809	11886
	52004+	06515		54829	06762
	52006+	06796		54830	06763
	52302+	12525		54833+	06586
	52506	15031		54835	06731
	52507	15037		54836	05128
	52508	15104		54837	05135
	52509	15109		54838	08823
	52510	15127		54839	12312
	52511	15019		54840	05120
	52512	15023		54842	05122
	52513	15034		54843	05134
	52514	15040		54844	05123
	52515	15043		54845	12311
	52517	15108		54901	15049
	52518	15114		54902	15115
	52520	15121		54903	15118
	52521	14584		54904	15020
	52523	12439		54905	15024
	52616	15021		54906	15032
	52801	15035		54907	15044

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	
United States of America (continued)	54908	15129	Atlas Buoys (continued)	43001	06473	
	54909	15120		51006	06798	
	54910	15033		51007	06371	
	54911	15036		51008	06370	
	54912	15101		51009	06461	
	54913	15112		51010	06375	
	54914	15119		51011	06476	
	54915	15628		51014	06521	
	54916	15630		51019	06475	
	54917	15631		51020	06518	
	55803	05136		51022	12523	
	56832	09219		51023	06517	
	56834	09218		52001	12526	
	56835	12291		52002	06795	
	56836	12293		52003	12524	
	56837	05116		52004	06515	
	56838	12294		52006	06796	
	61521	14336		52007	06797	
	61522	14342		52008	06477	
	61525	14349		52011	06472	
	64581	12804		52012	06471	
	64595	14317		52302	12525	
	Atlas Buoys	32315		06380		
		32316		06799		
		32317		15808		
		32318		06478		

#### **7. Feed-back from Members to the Secretariat on any changes in the observing network**

*In view of the difficulties experienced at present in identifying non-implemented observing stations or implemented stations which are closed or suspended for a certain period, or stations making observations but not reaching their NMCs, the ninth session of the CBS Advisory Working Group recommended that a special table be added to the WWW monthly operational letter to serve as feed-back from Members to the Secretariat on any changes of the present state of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations.*

The special table, accompanied by explanatory notes overleaf, is attached as an appendix to this annex. Members are urged to fill in this appendix, as and when appropriate, and to return it to the Secretariat before the 1st of each month to enable changes to be included in the next monthly letter.

**Feed-back from Members to the Secretariat on any changes in the observing network**  
(explanatory notes overleaf)

Global Exchange/Regional Exchange (delete as appropriate)

Country: \_\_\_\_\_

Station index number	Bulletin identification		Implementation of observing programme							Alternate observing station	Remarks
	TTAAii	CCCC	00	03	06	09	12	15	18		

1. SYNOP

2. TEMP

3. PILOT

**Explanatory notes for**  
**Feed-back**  
**from Members to the Secretariat**  
**on any changes in the observing network**

1. **Separate tables should be prepared for global exchange and regional exchange respectively. These tables should contain information concerning any changes of the present state of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations given in Attachment I-4 of the Manual on the GTS, Volume I for global exchange and, as applicable, Attachments AF-I, AI-1, SA-1, NA-1, PS-1 and EU-1 of the Manual on the GTS, Volume II for regional exchange.**
  
2. **For entries in these tables, the following should be taken into account:**
  - (a) **In the column "Station index number", the index number (Iliii) of each station should be entered in case of any changes in the observing programmes of the stations;**
  
  - (b) **In the column "Bulletin identification", the TTAaii CCCC of the abbreviated heading of the meteorological bulletins which contains reports from the station should be inserted;**
  
  - (c) **In the column "Implementation of observing programme", "X" for implementation and "-" for non-implementation should be inserted as appropriate. In order to easily identify changes in the programme, this should be marked in red;**
  
  - (d) **In the column "Alternate observing station", the index number (Ilii) of an alternate observing station should be inserted in case another station is available with a view to filling gaps which are caused by suspension of observing programmes of the original station;**
  
  - (e) **The required information concerning the observing programme of the alternate station should be inserted in the next horizontal line of the original station;**
  
  - (f) **In the column "Remarks", reasons of temporary suspension of observing programmes and an expected date of resumption of the programmes should be given as far as possible. Non-standard collection and/or distribution times should also be included.**
  
3. **These tables should be sent to the Secretariat before the 1st of the month for inclusion of the changes in the monthly operational letter, as appropriate.**

# Annex II - Global Data-processing System

Date: October 1991

## B. Information on operational status of GDPS including changes to WMO Publication No. 9 - Volume B

### 2. RSMC output products

#### RSMC ECMWF

A higher resolution analysis and forecasting system at T213 31 levels was put into operation on 12 UTC 17 September 1991. The effective resolution in the free atmosphere is now around 100 km at half wavelength; in the vertical, the additional levels compared to the previous 19 level version are mainly in the mid and upper troposphere.

In addition to the change of resolution, the new model includes the following aspects:

- the gaussian grid used for the computation of the physics is now a quasi-regular gaussian grid, i.e. the number of grid points along a latitude circle decreases towards the poles in order that the spacing of the points be approximately the same on the whole globe. The grid spacing in the gaussian grid is approximately 60 km;
- several changes are made to the dynamics of the model, including use of a semi-Lagrangian advection scheme and modified horizontal diffusion;
- a new version of the cloud scheme is used, mainly to allow the stratiform clouds to form in any number of layers instead of the three layers in the previous version.

The generating process identification number of the GRIB coded products has been changed to 40.



# Annex III - Global Telecommunication System

Date: October 1991

## C. Information on the operation of the GTS

### 1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)

#### 1.3 Changes to bulletins

- (i) Notification from the National Weather Service of Papua New Guinea and the Australian Bureau of Meteorology that the upper-air observations carried out at 94014 Madang are now being disseminated globally on the GTS as follows:

Part A - Under the heading of USNG01 AMMC  
Part B - Under the heading of UKNG01 AMMC  
Part C - Under the heading of ULNG01 AMMC  
Part D - Under the heading of UENG01 AMMC

- (ii) Notification from the Deutscher Wetterdienst that as from 1 November 1991 all synoptic stations in Germany will use block number 10. Reports from all stations will be disseminated under block number 10 with the geographical designator A<sub>1</sub>A<sub>2</sub>=DL in the abbreviated headings of bulletins and wind speed for all stations will be indicated in knots. In addition, as an interim measure until 31 March 1992, reports from synoptic stations previously using block number 09 will also be disseminated under block number 09 with the geographical designator A<sub>1</sub>A<sub>2</sub>=DD in the abbreviated headings of bulletins, but the wind speed will be indicated in knots.

#### 1.5 Bulletins for oceanographic data

Following is the list of bulletins containing oceanographic data (T<sub>1</sub>T<sub>2</sub>=SO) and included in the Catalogue of meteorological bulletins:

SOAG01 SABM	SOVD01 CWHF	SOVD05 KWBC	SOVF01 BIRK
SOBZ01 SBBR	SOVD01 CWPF	SOVD06 KWBC	SOVF01 EGRR
SOCO01 SKBO	SOVD01 EGRR	SOVD07 KWBC	SOVF01 ESWI
SOSN01 ESWI	SOVD01 KWBC	SOVD08 KWBC	SOVF01 LFPW
SOVA01 EGRR	SOVD01 TFFF	SOVD09 KWBC	SOVF02 BIRK
SOVA02 EGRR	SOVD01 TFFR	SOVD10 RUHB	SOVF02 EGRR
SOVA10 RUMS	SOVD01 TNCC	SOVD10 RUMS	SOVF02 ESWI
SOVB01 EGRR	SOVD02 BIRK	SOVD11 KWBC	SOVF10 RUMS
SOVB02 EGRR	SOVD02 CWOV	SOVD12 KWBC	SOVJ01 EGRR
SOVB10 RUHB	SOVD02 EGRR	SOVD13 KWBC	SOVJ02 EGRR
SOVB10 RUMS	SOVD02 KWBC	SOVE01 AMMC	SOVJ10 RUML
SOVC01 EGRR	SOVD02 TFFF	SOVE01 EGRR	SOVX01 DEMS
SOVC02 EGRR	SOVD02 TFFR	SOVE01 NTAA	SOVX01 EDZW
SOVC10 RUHB	SOVD02 TNCC	SOVE02 AMMC	SOVX01 RJTD
SOVC10 RUMS	SOVD03 KWBC	SOVE02 EGRR	SOVX02 DEMS
SOVD01 BIRK	SOVD04 KWBC	SOVE10 RUHB	SOVX02 RJTD
			SOVX10 RUHB
			SOVX10 RUMS

Members are invited to check the list and to inform the Secretariat of any changes to be incorporated in the catalogue.

# Annex IV - Codes

Date: October 1991

## B. Manual on Codes

### 1. Global practices

#### 1.3 Changes to codes

Notification from the ECMWF that with effect from 12 UTC on 6 November 1991, dissemination from ECMWF of GTS products in FM 92 GRIB will use the edition 1 of GRIB (i.e. FM 92-IX EXT) instead of edition 0 (i.e. FM 92-VIII EXT). This change is in conformity with the approval by the President of WMO of recommendation 22 of CBS-EXT (90).

Notification from the WMO Secretariat of the following updating of the information contained in:

a) the WWW Monthly Letter of 30 August 1991, Annex IV:

(i) Changes to codes

Reference is made to IWTC-II document for character letter indicators for ocean basins. That information, which was not available at the time, is as follows:

W	North-west Pacific Ocean
E	North-east Pacific Ocean to 140°E
C	North-east Pacific Ocean 140°E to 180°E
L	North Atlantic Ocean
A	North Arabian Sea
B	Bay of Bengal
S	South Indian Ocean
P	South Pacific Ocean
U	Australia
O	South China Sea
T	East China Sea

(ii) New Code Tables

Change first table to read: 0 08 005

b) the WWW Monthly Letter of 30 September 1991, Annex IV (English version only):

Global practices

Delete the proposal to update supplement No. 3 (VIII.1991) on Octet No. 25, as this proposal has been withdrawn.

Notification from the WMO Secretariat that as a delay in implementation of standard global code practice, until further notice, changes to the following codes to be introduced on 1 November 1991 will not be implemented by listed countries:

FM 35-IX EXT TEMP	:	Australia, Sweden and United Kingdom
FM 12-IX EXT SYNOP	}	France (all SYNOP code changes), Sweden and United Kingdom (Group 3P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> P <sub>0</sub> for low level stations)
FM 13-IX EXT SHIP	}	

# Annex V - Marine Meteorological Services (MMS) and related oceanographic activities

Date: October 1991

## C. Information on the operation of Marine Meteorological Services

### 1. Broadcasts for shipping and other marine activities (Publication No. 9, Volume D, Part A)

#### 1.3 Changes in schedules/technical specifications

**Ai-I - Group A Martin de Vivies: effective 27.09.1991:**  
 Replace 510 kHz by 472 kHz.  
 Add 400 W and 1 kW.  
 Area covered comprised between 60°E and 90°E and between 30°S and 50°S.

**Ai-II - Groups A, B, D Hong Kong: effective 01.07.1991, read:**

VPS 2	0000-2400	435	kHz	A1A	2 kW
VPS 8	1000-2100	4 232.5	kHz	"	3.5 kW
VRN 35	0000-2400	8 619	kHz	"	3.5 kW
VRN 60	0000-1500	13 031	kHz	"	3.5 kW
VRN 80	0000-1300+ 2100-2400	17 192	kHz	"	3.5 kW

VPS 2	0118+0718	435	kHz	A1A	2 kW
VRN 35		8 619	kHz	"	3.5 kW
VRN 60		13 031	kHz	"	3.5 kW
VRN 80		17 192	kHz	"	3.5 kW

VPS 2	1318	435	kHz	A1A	2 kW
VPS 8		4 232.5	kHz	"	3.5 kW
VRN 60		13 031	kHz	"	3.5 kW

**Ai-VI - Group A Saint-Lys Radio RTT broadcast (F1B): effective 25.09.1991:**

- At 0900, 1800 UTC:  
 replace 8 708.5 and 13 074.5 kHz by 6 320.5, 8 420 and 12 582.5 kHz.
- At 0700, 1700 UTC:  
 replace 4 352 kHz by 6 320.5, 8 420 and 12 582.5 kHz.

### 2. Marine meteorological services available for main ports (Publication No.9, Volume D, Part C<sub>1</sub>)

Australia - Australie (22.V.1991)

Changes (pages: D-C<sub>1</sub>-V-3/4)

- | (1)  | (2)   | (3)     |
|--|---|---------|
| Fremantle,<br>Western Australia  | Victoria Quay, (near Harbourmaster's Office)<br>Fremantle | 3358444 |
| (4) Forecasts and warnings on request. /<br>Prévisions et avis sur demande.  |   |         |
| (5) Advice and information, instrument checks, log-books etc. /<br>Conseils et renseignements, vérification des instruments, livres de bord etc. |   |         |
| (6) Regional Director, Bureau of Meteorology, 127 Wellington Street, Perth, W.A. Tel. 4259299  |   |         |

(1)	(2)	(3)
Melbourne, Victoria	14 Victoria Dock, Melbourne	6291810
(4) <b>Forecasts and warnings on request. / Prévisions et avis sur demande.</b>		
(5) <b>Advice and information, instrument checks, log-books etc. / Conseils et renseignements, vérification des instruments, livres de bord etc.</b>		
(6) <b>Regional Director, Bureau of Meteorology, 150 Lonsdale Street, Melbourne. Vic. Tel. 6694900</b>		