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GENEVA, 29 November 1991

Annexes: 4

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) November 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
- 1.5 Temporary changes

4. Automatic marine stations

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-4689)
Directors of Meteorological Services of non-Member countries (MC-2456)
Presidents and Vice-Presidents of Regional Associations (P.RA-1282)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1399)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

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

Annex IV - Codes

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

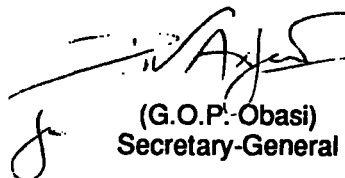
Annex V - Marine Meteorological Services (MMS) and related oceanographic activities

- 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

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: November 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

02141	TJAKAAPE	66°19 'N	19°13 'E	582	-	. . X X X X . .	. . . .	AUT
11034	WIEN/CITY	48°12 'N	16°22 'E	-	171	X X X X X X X X	. . . .	AUT
11075	LANGENLOIS	48°28 'N	15°42 'E	-	210	X X X X X X X X	. . . .	AUT
11081	BADEN	48°01 'N	16°14 'E	249	249	X X X X X X X X	. . . .	AUT
11082	GUMPOLDSKIRCHEN	48°02 'N	16°17 'E	-	218	. . . . . . . .	. . . .	AUT
11255	KOETSCHACH/ MAUTHEN	46°41 'N	13°00 'E	706	709	X X X X X X X X	. . . .	AUT
11260	MALLNITZ II	46°59 'N	13°11 'E	1202	1200	X X X X X X X X	. . . .	AUT
11261	OBERVELLACH	46°56 'N	13°13 'E	822	820	X X X X X X X X	. . . .	AUT
11270	DELLACH IM DRAUTAL	46°45 'N	13°05 'E	630	627	X X X X X X X X	. . . .	AUT
11275	ABRIACH	46°44 'N	13°51 'E	-	896	X X X X X X X X	. . . .	AUT
11280	MURAU	47°07 'N	14°11 'E	813	813	X X X X X X X X	. . . .	AUT
11290	GRAZ / UNIVERSITAET	47°07 'N	15°27 'E	377	366	. . . . . . . .	. . . .	AUT
11292	LASSNITZHOEHE	47°05 'N	15°35 'E	526	524	X X X X X X X X	. . . .	AUT
11308	WARTH	47°15 'N	10°11 'E	-	1475	X X X X X X X X	. . . .	AUT
11310	ISCHGL / IDALPE	46°59 'N	10°19 'E	2320	2323	X X X X X X X X	. . . .	AUT
11320	INNSBRUCK / UNIVERSITAET	47°16 'N	11°23 'E	579	577	. . . . . . . .	. . . .	AUT
11348	MARIAPFARR	47°09 'N	13°45 'E	-	1153	. . X X X X X .	. . . .	AUT
11351	RAMSAU / DACHSTEIN	47°25 'N	13°38 'E	1207	1203	. . X X X X X .	. . . .	AUT
11380	REICHENAU / RAX	47°42 'N	15°51 'E	485	486	X X X X X X X X	. . . .	AUT
11382	PUCHBERG	47°47 'N	15°55 'E	586	584	X X X X X X X X	. . . .	AUT

1.1 New stations (continued)

11383	SEMMERING (PASSHOEHE)	47°38' N	15°50' E	993 1000	X X X X X X X X	. . . . .	AUT
11387	SEIBERSDORF	47°59' N	16°30' E	186 185	. . . . .	. . . . .	AUT
40376	TAYMA	27°36' N	38°36' E	- 860	X X X X X X X X	. . . . .	AUT
40380	AL-KHAFJI	28°24' N	48°30' E	- 8	X X X X X X X X	. . . . .	AUT
40419	DAMMAM	26°24' N	50°06' E	- 10	X X X X X X X X	. . . . .	AUT
40421	HUFUF	25°18' N	49°42' E	- 151	X X X X X X X X	. . . . .	AUT
40432	UQLAT AS SUQUR	25°48' N	42°00' E	- 783	X X X X X X X X	. . . . .	AUT
40440	YANBU	24°00' N	38°12' E	- 11	X X X X X X X X	. . . . .	AUT
40445	AL-KHARJ	24°12' N	47°18' E	- 439	X X X X X X X X	. . . . .	AUT
40450	AL-KHUSARIA	23°42' N	44°36' E	- 1080	X X X X X X X X	. . . . .	AUT
41010	LAYLA	22°18' N	46°42' E	- 543	X X X X X X X X	. . . . .	AUT
41020	JEDDAH / I.E.	21°24' N	39°12' E	- 10	X X X X X X X X	. . . . .	AUT
41035	AL-HADA	21°18' N	40°18' E	- 2089	. . . . .	. . . . .	AUT
41080	AL-QUNFUDAH	19°06' N	41°12' E	- 0	X X X X X X X X	. . . . .	AUT
41141	GIZAN	16°54' N	42°30' E	- 6	X X X X X X X X	. . . . .	AUT
71260	SAULT STE MARIE, ONT.	46°29' N	84°30' W	192 187	X . X . X . X .	. . . . .
93309	NEW PLYMOUTH AERO	39°00' S	174°10' E	- 10	X X X X X X X X	. . . . .	AUT
93350	MANGAWEKA, ARAROA	39°48' S	175°40' E	- 640	X . X . . . X X	. . . . .
93891	DUNEDIN AERODROME AWS	45°55' S	170°11' E	2 -	X X X X X X X X	. . . . .	AUT

1.2 Deleted stations

06044 LAESO RENDE
06164 HESSELO
71748 ATIKOKAN, ONT.
71900 HOPEDALE

71904 QUAQTAQ, QUE.

1.3 Changes to existing stations

02104	HEMAVAN	X X X X X X X X	.	.	.	.
02143	PALJAMYREN	. . . . . . . .	.	.	.	.
04260	FREDERIKSHAAB	X X . X X X X X	.	.	.	.
06089	SAEDENSTRAND	X X X . . X X X	.	.	.	.
07002	BOULOGNE	. . X X X X X X	.	.	.	.
07017	CAMBRAI	X X X X X X X X	.	.	.	.
07031	DEAUVILLE	X X X X X X X X	.	.	.	.
07038	EVREUX	X X X X X X X X	.	.	.	.
07039	VALOGNES	X X X X X X X X	.	.	.	.
07040	DIEPPE	. X X X X X X .	.	.	.	.
07090	METZ / FRESCATY	X X X X X X X X	.	.	.	.
07106	LANDIVISIAU	X X X X X X X X	.	.	.	.
07109	LANVEOC POULMIC	X X X X X X X X	.	.	.	.
07148	BRETIGNY	X X X X X X X X	.	.	.	.
07181	NANCY / OCHEY	X X X X X X X X	.	.	.	.
07412	COGNAC	X X X X X X X X	.	P	.	.
07600	SOCOA	. X X X X X X X	.	.	.	.
07603	DAX	X X X X X X X X	.	.	.	.
07631	TOULOUSE / FRANCAZAL	X X X X X X X X	.	.	.	.
07648	SALON	X X X X X X X X	.	.	.	.
07675	LE LUC	X X X X X X X X	.	.	.	.
07680	ST-RAPHAEL	X X X X X X X X	.	.	.	.
07765	SOLENZARA	X X X X X X X X	.	.	.	.
08141	VALLADOLID	X . X X X X X X	.	.	.	.
08160	ZARAGOZA / AEROPUERTO *	X X X X X X X X	RW	.	RW	.
11012	KREMSMUNSTER	X X X X X X X X	.	.	.	.
11021	LITSCHAU	X X X X X X X X	.	.	.	.
11101	BREGENZ	X X X X X X X X	.	.	.	.
11112	LANDECK	. . X X X X X .	.	.	.	.
11140	LOFER	. . X X X X X .	.	.	.	.
11141	BISCHOFSHOFEN	X X X X X X X X	.	.	.	.
11144	ZELL AM SEE	X X X X X X X X	.	.	.	.
11146	SONNBLICK	X X X X X X X X	.	.	.	.
11149	OBERTAUERN	. X X X X X X .	.	.	.	.
11152	MATTSEE	X X X X X X X X	.	.	.	.
11154	GMUNDEN	X X X X X X X X	.	.	.	.
11174	ST. MICHAEL / LEOBEN	X X X X X X X X	.	.	.	.
11185	MOENICKKIRCHEN	X X X X X X X X	.	.	.	.
11204	LIENZ	X X X X X X X X	.	.	.	.
11340	SCHMITTENHOEHE	X X X X X X X X	.	.	.	.

*Zaragoza / Aeropuerto: As from 2 January 1992

Moored Buoys (North-east Pacific Ocean) (continued):

WMO buoy Identifier	Argos Identifier	Position 6 November 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
46204	07195	51°23'N	128°45'W	X	X	X	X	X	X	X	X	.
46205	07196	54°10'N	134°20'W	X	X	X	X	X	X	X	X	.
46206	07193	48°50'N	126°00'W	X	X	X	X	X	X	X	X	.
46207	08677	50°52'N	129°55'W	X	X	X	X	X	X	X	X	.
46208	07194	52°30'N	132°42'W	X	X	X	X	X	X	X	X	.

Moored Buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position 6 November 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
44131	03479	45°54'N	051°00'W	X	X	X	X	X	X	X	X	.
44137	05579	41°12'N	061°08'W	X	X	X	X	X	X	X	X	.
44138	05577	44°14'N	053°38'W	X	X	X	X	X	X	X	X	.
44139	03448	44°19'N	057°21'W	X	X	X	X	X	X	X	X	.
44140	05576	42°44'N	050°36'W	X	X	X	X	X	X	X	X	.
44141	03449	42°04'N	056°09'W	X	X	X	X	X	X	X	X	.
44143	03434	45°54'N	049°59'W	X	X	X	X	X	X	X	X	.

Moored Buoys (Great Lakes):

WMO buoy Identifier	Argos Identifier	Position 6 November 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 6 November 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
46632	12511	43°24'N	131°42'W	.	X	X	X	X	.	.	X	.
46681	07135	56°17'N	141°12'W	.	X	X	X	X	.	.	X	.
46682	07136	44°54'N	159°00'W	.	X	X	X	X	.	.	X	.
46684	07137	43°36'N	151°30'W	.	X	X	X	X	.	.	X	.
46687	07138	32°24'N	149°30'W	.	X	X	X	X	.	.	X	.
46692	07139	45°48'N	145°42'W	.	.	X	X	X	.	.	X	.
46693	07140	36°48'N	146°06'W	.	X	X	X	X	.	.	X	.
46704	07128	36°54'N	135°00'W	.	X	X	X	X	.	.	X	.
46705	07129	51°00'N	133°12'W	.	X	X	X	X	.	.	X	.
46706	07130	33°06'N	136°42'W	.	X	X	X	X	.	.	X	.
46709	07133	50°48'N	170°12'W	.	X	X	X	X	.	.	X	.

Drifting Buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position 6 November 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8

NIL

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the November 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>	<u>Column</u>	<u>Observed or technical parameters</u>
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Pressure	7	Wave spectra
4	Pressure tendency	8	Drogued

Moored Buoys:

<u>WMO buoy Identifier</u>	<u>Position</u>		<u>Observed or technical parameters</u>						
	<u>7-14 November 1991</u>		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
32302	18°00'S	85°06'W	X	X	X	X	X	X	X
41001**	34°54'N	73°00'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
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
45001**	48°00'N	87°48'W	X	X	X	X	X	X	X
45002**	45°18'N	86°24'W	X	X	X	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	X	X	X	X	X	X	X
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

** 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						
	7-14 November 1991		1	2	3	4	5	6	7
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	*	*	*	*	*	*	*
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
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
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
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	*	*	*	*	*	*	*
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	ARGOS Identifier	Position		Observed or technical parameters							
		6-14 November 1991		1	2	3	4	5	6	7	8
14804	08845	31°S	038°E	.	X	X	.	X	.	.	.
16807	05133	51°S	060°E	.	X	X	.	X	.	.	.
16809	12314	46°S	018°W	.	X	X	.	X	.	.	.
16810	12309	52°S	020°W	.	X	X	.	X	.	.	.
17804	12300	29°S	105°E	.	*	X	.	X	.	.	.
17805	12304	23°S	080°E	.	*	X	.	X	.	.	.
17809	05125	40°S	056°E	.	X	X	.	X	.	.	.
17811	05569	42°S	002°W	X	X	X	.	X	.	.	.
17825	05129	44°S	042°E	.	X	X	.	X	.	.	.
33301	12310	56°S	028°W	.	X	X	.	.	.	.	.
33509	12307	43°S	001°W	.	X	X	.	X	.	.	.
33510	12308	44°S	051°E	.	X	X	.	X	.	.	.
33826	12296	56°S	077°E	.	X	X	.	X	.	.	.
33827	12297	48°S	127°E	.	X	X	.	X	.	.	.
33828	12298	36°S	097°E	.	X	X	.	X	.	.	.
33830	12305	38°S	078°E	.	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 6-14 November 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
54829	06762	35°S	146°W	.	*	X	.	X	.	.	.
54830	06763	40°S	103°W	.	*	X	.	X	.	.	.
54833	06586	44°S	137°W	X	X	X	.	X	.	.	X
54835	06731	38°S	142°W	.	X	X	.	X	.	.	.
54836	05128	33°S	157°W	.	X	X	.	X	.	.	.
54837	05135	27°S	150°W	.	X	X	.	X	.	.	.
54838	08823	44°S	152°W	.	X	X	.	X	.	.	.
54839	12312	40°S	145°W	.	X	X	.	X	.	.	.
54840	05120	50°S	149°W	.	X	X	.	X	.	.	.
54842	05122	49°S	157°W	.	X	X	.	X	.	.	.
54843	05134	48°S	135°W	.	X	X	.	X	.	.	.
54844	05123	52°S	140°W	.	X	X	.	X	.	.	.
55803	05136	54°S	112°W	.	X	X	.	X	.	.	.
56832	09219	11°S	064°E	.	X	X	.	X	.	.	.
56834	09218	14°S	052°E	.	X	X	.	X	.	.	.
56835	12291	29°S	088°E	.	X	X	.	X	.	.	.
56836	12293	27°S	102°E	.	X	X	.	X	.	.	.
56837	05116	14°S	106°E	.	*	X	.	X	.	.	.
56838	12294	18°S	090°E	.	X	X	.	X	.	.	.

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 TTAAii CCCC	Implementation of observing programme							Alternate observing station	Remarks
		00	03	06	09	12	15	18	21	

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 IV - Codes

Date: November 1991

B. Manual on Codes

1. Global practices

1.3 Changes to codes

The President of CBS has approved the allocation of "reserved for allocation of radiosonde" entries in code tables 0 02 011 and 3685, for use with immediate effect for the following radiosonde types:

- In Volume I – Part B – Binary Codes

Code Table 0 02 011

Code figure	
46	AIR IS – 4A – 403

- In Volume I – Part A – Alphanumeric Codes

Code Table 3685

Code figure	
45	RS MSS
46	AIR IS – 4A – 403

Notification from the United States of America that implementation of changes to **Code FM 35-IX TEMP**, which came into force on 1 November 1991, will be delayed until 1 February 1992. Countries participating in the co-operative hurricane upper-air programme and receiving software support from the United States will experience a similar delay.

Notification from Spain that the implementation of changes to **Code FM 35-IX TEMP**, which came into force on 1 November 1991, will be delayed until February 1992.

Notification from Canada concerning amendments to **WMO Codes FM 35-IX TEMP** and **FM 36-IX TEMP SHIP** which came into force on 1 November 1991, to the effect that in general Canada does not report the following groups:

Part A	Section 2	925 hPa Standard Isobaric Surface
Part B	Section 1	Code a ₄ of YYGGa ₄ This is always encoded as '/'
Part B	Section 7	31313 s _r r _a r _a s _a s _a 8GGgg 9s _n T _w T _w T _w

As equipment changes are phased in, Canadian stations will begin to report these groups.

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

Date: November 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

Notification from Germany that effective 4 December 1991 at approximately 0630 UTC, the Offenbach (Main)/Pinneberg (DDH47/DDH9) Morse radio broadcast (A1A) for shipping will cease. At the same time a programme specially designed for shipping will be broadcast on mode RTTY (F1B, 50 bauds) on the same frequencies.