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Annexes: 4

GENEVA, 31 December 1990

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) December 1990

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

**To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4588)
Directors of Meteorological Services of non-Member countries (MC-2440)
Presidents and Vice-Presidents of Regional Associations (P.RA-1265)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1382)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF**

2. WMO Catalogue of radiosondes in use by Members
4. Automatic marine stations
5. ARGOS
 - 5.1 ARGOS monthly status report
6. Feed-back from Members to the Secretariat on any changes in the observing network

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)
 - 1.1 New bulletins
 - 1.3 Changes to bulletins
2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
 - 2.2 Deleted transmissions/broadcasts

G. Miscellaneous information

Annex IV - Codes

B. Manual on Codes

2. Regional practices
 - 2.3 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)

1.2 Deleted broadcasts

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 6, "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: December 1990

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

1. Publication No. 9. Volume A - Stations

1.1 New stations

15662	PRIMORSKO	42°17'N	27°45'E	10	-	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	/
58362	SHANGHAI	31°24'N	121°28'E	4	8	X	X	X	X	X	X	X	X		RW	.	RW	.	/
93121	CAPE COLVILLE AWS	36°29'S	175°20'E	-	22	X	X	X	X	X	X	X	X		.	.	.	.	/
93811	MANAPOURI AERO AWS	45°32'S	167°38'E	-	209	X	X	X	X	X	X	X	X		.	.	.	.	/
93945	CAMPBELL ISLAND AWS	52°33'S	169°09'E	-	19	X	X	X	X	X	X	X	X		.	.	.	.	/
93987	CHATHAM ISLANDS AWS	43°57'S	176°34'W	-	48	X	X	X	X	X	X	X	X		.	.	.	.	/

1.2 Deleted stations

02048	MALMBERGET
02122	STENUDDEN
15544	SHUMEN
15661	ACHTOPOL
58367	SHANGHAI
64909	EKONA
64912	TIKO

1.3 Changes to existing stations

02535	SKOVDE FLYGPLATS	X	X	X	X	X	X	X	X	X		.	.	.	.	/
41170	DOHA INTERNATIONAL AIRPORT	X	X	X	X	X	X	X	X	X		P	.	P	.	/
41176	UMM SAID	.	X	X	X	.	.	.	.	.		.	.	.	.	/
64870	NGAOUNDERE	X	X	X	X	X	X	X	X	X		P	P	P	P	/
64880	BANYO	X	X	X	X	X	X	X	.	.		.	.	.	.	/
64882	MEIGANGA	X	X	X	X	X	X	X	.	.		.	.	.	.	/
64890	MAMFE	X	X	X	X	X	X	X	X	X		.	.	.	.	/
64893	KOUNDJA	X	X	X	X	X	X	X	.	.		P	P	P	P	/
64901	BETARE-OYA	X	X	X	X	X	X	X	.	.		.	.	.	.	/
64931	BATOURI	X	X	X	X	X	X	X	X	X		P	P	P	P	/
64960	ABONG-MBANG	X	X	X	X	X	X	X	X	X		.	.	.	.	/
64961	LOMIE	X	X	X	X	X	X	X	X	X		.	.	.	.	/
93805	PUYSEGUR POINT AWS	X	X	X	X	X	X	X	X	X		.	.	.	.	/
93944	CAMPBELL ISLAND	X	.	.	.	X	.	.	X	.	H22-13	RW	.	RW	.	/
96996	COCOS ISLAND AIRPORT	X	X	X	X	X	.	.	.	.	H22-13	RW	P	RW	.	/

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

WMO buoy Identifier	Position 20 November 1990	Observed or technical parameters							
		1	2	3	4	5	6	7	8
46184	53°56'N 138°48'W	X	X	X	X	X	X	X	X
46185	52°25'N 129°48'W	X	X	X	X	X	X	X	X
46204	51°14'N 128°27'W	X	X	X	X	X	X	X	X
46205	54°10'N 134°20'W	X	X	X	X	X	X	X	X
46206	48°50'N 126°00'W	X	X	X	X	X	X	X	X
46207	50°31'N 129°33'W	.	.	.	.	.	.	.	.
46208	52°18'N 132°25'W	X	X	X	X	X	X	X	X

Moored Buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position 20 November 1990	Observed or technical parameters							
			1	2	3	4	5	6	7	8
41012	01602	35°18'N 070°00'W	X	X	X	X	X	.	.	.
44016	01605	38°00'N 072°54'W	X	X	X	X	X	.	.	.
44017	01604	40°06'N 072°12'W	X	X	X	X	.	.	.	.
44018	01603	37°42'N 074°42'W	X	X	X	X	.	.	.	.
44137	05579	41°14'N 061°14'W	X	X	X	X	X	X	X	X
44138	03434	44°13'N 053°36'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
44142	05578	42°30'N 064°12'W	X	X	X	X	X	X	X	X
44174	09237	54°24'N 053°18'W	X	X	X	X	X	X	X	X

Moored Buoys (Great Lakes):

WMO buoy Identifier	Position 20 November 1990	Observed or technical parameters							
		1	2	3	4	5	6	7	8
45132	42°28'N 081°13'W	X	X	X	X	X	X	X	X
45135	43°51'N 078°20'W	X	X	X	X	X	X	X	X
45136	48°32'N 086°57'W	X	X	X	X	X	X	X	X
45137	45°33'N 081°01'W	X	X	X	X	X	X	X	X

Drifting Buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position 20 November 1990	Observed or technical parameters							
			1	2	3	4	5	6	7	8
46632	12511	43°54'N 145°18'W	.	X	X	.	X	.	.	.
46681	07135	48°30'N 167°48'W	.	X	X	.	X	.	.	.
46687	07138	39°24'N 140°00'W	.	X	X	.	X	.	.	.
46693	07140	34°21'N 142°54'W	.	X	X	.	X	.	.	.
46694	07141	26°18'N 147°36'W	.	X	X	.	X	.	.	.
46695	07142	31°12'N 150°06'W	.	X	X	.	X	.	.	.
46697	07144	26°12'N 151°54'W	.	X	X	.	X	.	.	.
46704	07128	47°36'N 154°54'W	.	X	X	X	X	.	.	.

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

WMO buoy Identifier	Argos Identifier	Position 20 November 1990	Observed or technical parameters								
			1	2	3	4	5	6	7	8	
46705	07129	48°24'N 149°24'W	.	X	X	X	X	X	.	.	.
46706	07130	42°30'N 137°00'W	.	X	X	X	X	X	.	.	.
46707	07131	29°12'N 129°54'W	.	X	X	X	X	X	.	.	.

Drifting Buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position 20 November 1990	Observed or technical parameters								
			1	2	3	4	5	6	7	8	
44663	09234	48°31'N 048°26'W	.	X	X	.	X	.	.	.	.
44664	09235	50°49'N 051°11'W	.	X	X	.	X	.	.	.	.
44666	09237	54°24'N 053°18'W	.	X	X	.	X	.	.	.	.
44667	09238	53°52'N 052°40'W	.	X	X	.	X	.	.	.	.

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the December 1990 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 20-27 December 1990		Observed or technical parameters							
			1	2	3	4	5	6	7	
32302	18°00'S	85°06'W	.	.	.	.	.	.	.	.
41001**	34°54'N	73°00'W	X	X	X	X	X	X	X	X
41002**	32°18'N	75°12'W	X	X	X	X	X	X	X	X
41006**	29°18'N	77°24'W	X	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 20-27 December 1990		Observed or technical parameters						
			1	2	3	4	5	6	7
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	X	.	.
42019	27°54'N	95°00'W	X	X	X	X	X	X	X
42020	27°00'N	96°30'W	X	X	X	X	X	X	X
44001	38°24'N	73°36'W	X	X	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	.	.	.	.	.	.	.
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
44015	37°06'N	73°36'W	.	X	X	X	X	X	X
45001**	48°00'N	87°42'W	X	X	X	X	X	X	X
45002**	45°18'N	86°24'W	.	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
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
46003**	51°54'N	155°54'W	X	X	X	X	X	X	X
46005**	46°06'N	131°00'W	.	.	.	.	.	.	.
46006**	40°48'N	137°42'W	X	X	X	X	X	X	X
46010**	46°12'N	124°12'W	X	X	X	X	X	X	X
46011	34°54'N	120°54'W	X	X	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	X	X	X	X	X	X	X
46022	40°48'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
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

** Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

. Sensor/system failure.

Moored Buoys (continued):

WMO buoy Identifier	Position 20-27 December 1990		Observed or technical parameters						
			1	2	3	4	5	6	7
46030	40°24'N	124°30'W	*	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	.	.	.	.	.	.	.
46041	47°24'N	124°30'W	.	.	.	.	.	.	.
46042	36°48'N	122°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	.	.	.	.	.	.	.
51003**	19°12'N	160°48'W	X	X	X	X	X	X	X
51004**	17°30'N	152°36'E	X	X	X	X	X	X	X
52009**	13°12'N	144°30'E	.	.	.	.	.	.	.

Drifting Buoys:

WMO buoy Identifier	Argos Identifier	Position 26/27 December 1990		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
14803	08844	21°S	051°E	.	X	X	.	X	.	.	.	.
14804	08845	26°S	052°E	.	X	X	.	X	.	.	.	.
17803	05571	40°S	090°E	X	.	X	.	X	.	.	.	X
17804	12300	42°S	067°E	.	.	X	.	X	.	.	.	.
17805	12304	38°S	074°E	.	.	X	.	X	.	.	.	.
17806	12306	42°S	009°W	.	X	X	.	X	.	.	.	.
32814	07491	18°S	085°W	.	X	X	.	X	.	.	.	.
33509	12307	44°S	040°W	.	X	X	.	X	.	.	.	.
33510	12308	50°S	024°W	.	X	X	.	X	.	.	.	.
33826	12296	57°S	015°E	.	X	X	.	X	.	.	.	.
33827	12297	48°S	026°E	.	X	X	.	X	.	.	.	.
33828	12298	46°S	034°E	.	X	X	.	X	.	.	.	.
33830	12305	46°S	000°W	.	X	X	.	X	.	.	.	.
54829	06762	37°S	159°W	.	.	X	.	X	.	.	.	.
54830	06763	48°S	125°W	.	.	X	.	X	.	.	.	.
54831	06764	49°S	124°W	.	X	X	.	.	.	.	.	.
54832	06585	42°S	163°W	X	X	X	.	X	.	.	.	X
54833	06586	46°S	144°W	X	X	X	.	X	.	.	.	X
54834	06583	37°S	158°W	X	X	X	.	X	.	.	.	X
54835	06731	34°S	157°W	.	X	X	.	X	.	.	.	.
55802	08843	24°S	050°E	.	X	X	.	X	.	.	.	.
56827	09221	58°S	128°E	.	.	X	.	.	.	.	.	.
56829	09222	21°S	040°E	.	X	X	.	X	.	.	.	.
56831	09217	09°S	114°E	.	X	X	.	X	.	.	.	.

** Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

* Sensor/system failure.

5. ARGOS service

5.1 ARGOS monthly status report

As at 3 December 1990, the Argos service was handling reports from 595 drifting buoys, 130 moored buoys, 4 balloons, 31 ships, 102 animal trackings, 399 fixed stations, 222 boats and 23 miscellaneous platforms. DRIBU reports from 66 drifting buoys, SHIP reports from 30 selected ships and BATHY reports from 24 selected ships were transmitted to the RTH Paris and DRIBU reports from 222 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>
Australia	55511	00418
	56001	04873
	56501	02934
	56502	02936
	56544	02935
	56546	02951
	56547	04870
	56548	04871
	56549	04872
	GYSA*	VMAP*
	GYSE*	S6FK*
	9VUU*	VJBQ*
	VJDP*	
	Canada	47558	09785
France	41031	00202
	41032	00204
	41034	00334
	41036	00221
	41037	00222
	41038	00241
	41039	00230
	41041	00235
	41042+	00236
	41043	00215
	41044	00304
	41045	00305
	41046	00307
	41048	00310
	41049	00312
	41053	00326
	41054	00328
	41055	00331
	41056	00332
41057	00233	

* PTT's transmitting at irregular intervals.

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
France (continued)	41058	00216	
	41059	00345	
	41060	00347	
	41061	00349	
	41062	00355	
	41063	00358	
	41064	00359	
	41065	00365	
	41066	00367	
	41067	00327	
	44609	05799	
	62503	05790	
	62513	05829	
	62516	05833	
	64516	05796	
	64527	05822	
	3EAJ*	3EBD*	
	A3BZ*	C6HL*	
	ELEH*	FNCZ*	
	FNGB*	FNJT*	
	FNOM*	FNPA*	
	FNQB*	FNZO*	
	FNZQ*	FPYO*	
FWQP*	GTIA*		
HPEW*			
Germany	71524	03315	
	71529	08057	
	71530	08058	
	71531	08059	
	71532	08060	
	71536+	08064	
	71537	08065	
	71540	08068	
	Iceland	44616	04183
		64565	04184
Japan	52060	08718	
	52064	08724	
Netherlands	44615	03037	
	64564	03036	

* PTT's transmitting at irregular intervals.

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
New Zealand	55579	06435
	55582	07175
	55583	07179
	55584	07178
	55585	07177
Norway	17001	01591
	17003	01758
	44624	03722
	44743	01298
	62524	01299
	63002	09407
	63004	09403
	63512	01792
	64504	03674
	65581	01299
	71001	01757
	74001	09405
	South Africa**	17512	09096
17513		09092
17514		08263
17517		08268
17520		09097
17522		09095
17523		09086
17524		09099
17525		09098
17527		09087
17528		08260
17529		09088
United Kingdom		44617	07695
	44728	04039
	44730	06298
	62606+	03916
	62608	03919
	62803	06299

** 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.

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America	12847	11191
	13515	12446
	14803	08844
	14804	08845
	17803	05571
	17804	12300
	17805	12304
	17806	12306
	25536	12780
	25537	12789
	31502	09844
	32512	11914
	32513	11910
	32514	10836
	32515	11898
	32516	11911
	32519	11905
	32520	11577
	32521	11909
	32522	10808
	32523	10809
	32525	11192
	32526	11193
	32528	10820
	32529	11194
	32530	11546
	32531	10812
	32532	11897
	32534	11196
	32535	11907
	32537	10839
	32538	11172
	32539	11875
	32540	11904
	32541	11656
	32544	11908
	32545	10849
	32546	11160
	32547	11201
	32549	11163
	32550	11894
	32552	11195
	32553	10841
	32554	10840
	32559	11900
	32560	11572
	32814	07491
	33509	12307

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
United States of America (continued)	33510	12308	
	33824+	08966	
	33826	12296	
	33827	12297	
		33828	12298
		33830	12305
		41012	01602
		41014	01606
		41510	09845
		41511	09846
		41512	09857
		41513	09853
		43502	11168
		43503	11874
		43504	11198
		43508	11171
		43509+	10847
		43510	11628
		43801	06898
		44016	01605
		44017	01604
		44018	01603
		44020	01609
		44021	01608
		44022	01607
		44502	04570
		44504	04561
		44505	09878
		44506	04542
		44510	04530
		44518	09841
		44519	09851
		44520	09856
		44521	12753
		44522	12754
		44523	12772
		44524	12750
		44528	12768
		44529	12746
		44532	12743
		44535	12749
		44536	12744
		44537	12747
	44538	12762	
	44539	12751	
	44540	12752	
	44541	12763	
	44550	12671	

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	44551	12453
	47601	12785
	48518	12782
	48519	12783
	51502	12642
	51510	11671
	51511	06883
	51512	06884
	51513	11663
	51514	15077
	51515	11678
	51516	11632
	51517	11676
	51518	15077
	51519	11646
	51520	11653
	51801	11197
	51802	11650
	51804	11660
	51805	11622
	51806	11625
	51808+	11651
	51809	11199
	51810	15087
	51811	11644
	51812	11657
	51813	11569
	51814	11682
	51815	11571
	51816	11620
	51817	11655
	51818	11630
	51819	11645
	51820	11687
	51821	11690
	51822	11870
	51823	11648
	51824	11685
	51825	11686
	51826	11871
	51827	11688
	51828	11695
	51829	11202
	51830	15088
	51831	11689
	51832	11691
	51833	11872
	51834	11170

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51835	11638
	51836	11698
	51837	11642
	51839	11700
	51840	11536
	51841	15098
	51842	11702
	51843	11703
	51844	11542
	51845	11548
	51846	11692
	51847	11706
	51850	11662
	51851	11547
	51853	11694
	51855	11705
	51856	11559
	51857	11667
	51858	11668
	51859	11581
	51862	11670
	51863	11564
	52802	10822
	52806	06880
	52807	10824
	52813	10835
	52827	10823
	52852	11629
	52853	11624
	52854	11626
	52855	11631
	52857	11640
	52858	11649
	52861	11637
	52862	11560
	52865	11567
	52866	11867
	52867	11893
	52868	11876
	52872	11890
52873	11892	
52875	11896	
52876	11881	
52877	11883	

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	52878	11885
	53807	11877
	53809	11886
	54829	06762
	54830	06763
	54831	06764
	54832	06585
	54833	06586
	54834	06583
	54835	06731
	55802	08843
	56827	09221
	56829	09222
	56831	09217
	62671	09847
	62672	09859
	62673	12474
	64533	12786
	64539	12787
	64577	04126
	64578	04834
	64579	11720
	64580	12444
	64581	12486
	64582	12447
	64583	12456
	64584	12458
	64585	12473
	64586	12471
65505	04632	

ATLAS buoys

This report does not list the ATLAS buoys. The new software previously announced for the end of this year is not yet operational.

Note

Members operating Argos Local Users Terminals (LUTs) are invited to submit to the Secretariat by telex, the list of platforms entering reports into the GTS through their LUTs, effective on or around the 20th of each month.

6. 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 TTAA:ii 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 (IIiii) 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 (IIiii) 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 III - Global Telecommunication System

Date: December 1990

C. Information on the operation of the GTS

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

1.1 New bulletins

Notification from Argentina that as from 15 December 1990 the RSMC Buenos Aires will transmit 700 hPa, 500 hPa and 250 hPa analysis and prognosis charts in grid code form in meteorological bulletins with the following abbreviated headings:

**GHXA70 SABM
GHXA50 SABM
GHXA25 SABM
GHXE70 SABM
GHXE50 SABM
GHXE25 SABM**

1.3 Changes to bulletins

Notification from USSR that as from 1200 UTC on 1 February 1991 the SYNOP data will be transmitted on the GTS broadcasts from station 30683 EROFEJ PAVLOVIC instead of station 30597 URUSA.

2. Transmission schedules (Publication No. 9, Volume C, Chapter II)

2.2 Deleted transmissions/broadcasts

VI-ii Potsdam RTT broadcast effective 31 December 1990.
VI-ii Tirana RTT broadcast

G. Miscellaneous information

Notification from WMO Secretariat that the new WMO telex number is 41 41 99 A OMM CH.

Notification from Japan that as from 1700 UTC on 31 December 1990 new telephone and telefax numbers for Japan Meteorological Agency will be:

**Telephone: +81 3 3211 4966
Telefax: +81 3 3211 2032**

Notification from USSR that the State Committee for Hydrometeorology now has a telefax outlet to the international automatic exchange:

**Telefax: +70 95 253 94 84
Telex: 411117 RUMS SU**

Annex IV - Codes

Date: December 1990

B. Manual on Codes

2. Regional practices

2.3 Changes to codes

The following pages to the 1987 edition of WMO Publication No. 306, Manual on Codes - Volume II, Region VI are to be changed as follows:

Page II-6-E-2

FM 12-VIII Ext. SYNOP

DENMARK

6RRR_iR When reported this group is included in Section 1, but from selected stations it may be included both in Section 1 and Section 3 or, either in Section 1 or in Section 3.

7wwW₁W₂ ww is coded 10 when horizontal visibility due to mist is 1-9 km (inclusive).

ww is coded 30, 31, 32, 33, 34 or 35 only when horizontal visibility is less than 1 km.

ww is coded 38 or 39 only when horizontal visibility is less than 10 km.

3Es_nT_gT_g This group is reported at 0600 UTC.

4E'sss When reported, this group is included in 0600 UTC reports.

8N_sCh_sh_s This (these) group(s) is (are) included.

Page II-6-E-8

FM 15-VIII Ext. METAR

DENMARK

w'w' The following additional code figures are used to identify significant present weather:

Code	Decode
20resg	Recent snow grains
23repe	Recent ice pellets
24refzdz	Recent freezing drizzle
26rerasn	Recent showers of rain and snow
76ic	Diamond dust (ice crystals)
93sn	Snow
93rasn	Rain and snow
94xxsn	Heavy snow
94xxrasn	heavy rain and snow

Annex IV, p.2

CAVOK The code word **CAVOK** is not used in reports from military aerodromes nor from aerodromes in Greenland.

Page II-6-E-10

FM 16-VIII Ext. SPECI

DENMARK

w'w' See FM 15-VIII Ext. METAR.

CAVOK See FM 15-VIII Ext. METAR.

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

Date: December 1990

C. Information on the operation of Marine Meteorological Services

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

1.2 Deleted broadcasts

A_j-VI Group B Potsdam RTT broadcast effective 31 December 1990.