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Annexes: 4

GENEVA, 30 November 1990

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

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4568)
Directors of Meteorological Services of non-Member countries (MC-2438)
Presidents and Vice-Presidents of Regional Associations (P.RA-1263)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1381)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

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 II - Global Data-processing System

- A. GDPS regulatory or guidance material

Annex III - Global Telecommunication System

- C. Information on the operation of the GTS
 2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
 - 2.3 Changes in schedules/technical specifications
 6. Coastal radio stations (Publication No. 9, Volume D, Part B)
 - 6.1 New stations
 8. Bulletins relating to the state of the Ozone Layer over Antarctica
- E. Status report on WWW implementation

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

- C. Information on the operation of Marine Meteorological Services
 2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C)

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,

A handwritten signature in black ink, appearing to read 'G.O.P. Obasi', written over a horizontal line.

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

Annex I - Global Observing System

Date: November 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

03011	NORTH RONA	5907N	0549W	-	98	X	X	X	X	X	X	X	X	X	H00-24	. . . .	AUT/
07075	CHARLEVILLE	4947N	0438E	150	149	X	X	X	X	X	X	X	X	X	H00-24	. . . .	/
07540	MONTAUBAN	4402N	0123E	108	107	X	X	X	X	X	X	X	X	X	H00-24	. . . .	/
78458	PUERTO PLATA	1945N	7034W	5	-	.	.	.	.	X	X	X	X	X	H11-21	. . . .	/
78479	PUNTA CANA	1834N	6822W	12	20	.	.	.	.	X	X	X	.	.	H12-20,H23	. . . .	/
93188	PONGAKAWA	3749S	17628E	75	-	.	.	.	.	.	.	X	X	.	. . . .	/
93196	HICKS BAY AWS	3733S	17818E	50	-	X	X	X	X	X	X	X	X	X	/	
93286	MOTU AWS	3817S	17731E	-	485	X	X	X	X	X	X	X	X	X	. . . .	AUT/	
93393	MAHIA AWS	3907S	17757E	120	-	X	X	X	X	X	X	X	X	X	/	
93410	LEVIN AWS	4039S	17516E	46	-	X	X	X	X	X	X	X	X	X	/	

1.2 Deleted stations

03020	ST. KILDA
03090	WINDY HEAD
03093	FRASERBURGH
03147	GLENLEE
03493	CROMER LIGHTHOUSE
06023	GORM
06116	ST. JYNDEVAD
78457	PUERTO PLATA
78478	CABO ENGANO

1.3 Changes to existing stations

03038	FORT WILLIAM	.	.	.	X	.	X	.	.	.	.	.	.	.	. . . .	/
03118	CORSEWALL POINT	X	X	X	X	.	.	.	.	X	.	.	.	.	. . . .	/
03215	ASPATRIA	.	.	X	X	X	X	X	X	X	.	.	.	.	H08-12	. . . .	/
															H15-18	. . . .	/
03712	TIVINGTON	X	X	X	X	X	X	X	X	X	.	.	.	.	H06-18	. . . .	/
07024	CHERBOURG	X	X	X	X	X	X	X	X	X	.	.	.	.	H03-24	. . . .	/
07061	SAINT-QUENTIN	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07070	REIMS	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07125	DINARD	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07139	ALENCON	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07140	CHATEAUDUN	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07179	TOUL/ROSIERES	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07197	COLMAR	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07205	LANN BIHOUE	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07222	NANTES	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07247	ROMORANTIN	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07257	AVORD	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/
07265	AUXERRE	X	X	X	X	X	X	X	X	X	.	.	.	.	H00-24	. . . .	/

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

WMO buoy Identifier	Position 9 October 1990	Observed or technical parameters							
		1	2	3	4	5	6	7	8
46206	48°50'N 126°00'W	X	X	X	X	X	X	X	X
46207	50°31'N 129°33'W	X	X	X	X	X	X	X	X
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 12 October 1990	Observed or technical parameters							
			1	2	3	4	5	6	7	8
41012	01602	36°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	03449	41°12'N 061°08'W	.	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°22'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	05579	42°07'N 056°07'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

Moored Buoys (Great Lakes):

WMO buoy Identifier	Position 18 October 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 21 October 1990	Observed or technical parameters							
			1	2	3	4	5	6	7	8
46632	12511	44°26'N 146°61'W	*	X	X	.	X	.	.	*
46681	07135	48°83'N 168°00'W	.	X	X	.	X	.	.	.
46687	07138	39°74'N 142°03'W	.	X	X	.	X	.	.	.
46693	07140	34°16'N 144°25'W	.	X	X	.	X	.	.	.
46694	07141	26°12'N 145°32'W	.	X	X	.	X	.	.	.
46695	07142	30°19'N 150°21'W	.	X	X	.	X	.	.	.
46697	07144	28°01'N 151°21'W	*	X	X	.	X	.	.	*
46704	07128	47°59'N 155°21'W	.	X	X	X	X	.	.	.

* Sensor/system failure

Drifting Buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position 21 October 1990		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
46705	07129	48°33'N	149°10'W	.	X	X	X	X	.	.	.	.
46706	07130	42°00'N	137°96'W	.	X	X	X	X	.	.	.	.
46707	07131	30°32'N	129°00'W	.	X	X	X	X	.	.	.	.

Drifting Buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position 21 October 1990		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
48544	07412	84°10'N	082°87'W	.	.	X

Drifting Buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position 21 October 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	.	.	.	.

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the November 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

Column	Observed or technical parameters
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 9 October 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
41002**	32°18'N	75°12'W	X	X	X	X	X	*	*
41006**	29°18'N	77°24'W	X	X	X	X	X	X	X
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
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	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
44015	37°06'N	73°36'W	X	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

• Sensor system failure.

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

Moored Buoys(continued):

WMO buoy Identifier	Position 5 November 1990		Observed or technical parameters						
			1	2	3	4	5	6	7
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
46030	40°24'N	124°30'W	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	X
46046	46°18'N	124°12'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	X
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	*	X	X	X	X	X	X

Drifting Buoys:

WMO buoy Identifier	Argos Identifier	Position 5 November 1990		Observed or technical parameters									
				1	2	3	4	5	6	7	8		
14803	08844	22°S	052°E	.	X	X	.	X	.	.	.	.	.
14804	08845	25°S	053°E	.	X	X	.	X	.	.	.	.	.
17803	05571	41°S	090°E	X	*	X	.	X	.	.	.	X	.
17804	12300	40°S	050°E	.	*	X	.	X	.	.	.	.	.
17805	12304	41°S	066°E	.	*	X	.	X	.	.	.	.	.
17806	12306	41°S	015°W	.	X	X	.	X	.	.	.	.	.
32814	07491	18°S	085°W	.	X	X	.	X	.	.	.	.	.
33824	08966	41°S	034°E	.	X	X	.	X	.	.	.	.	.
33826	12296	56°S	005°E	.	X	X	.	X	.	.	.	.	.
33827	12297	50°S	016°E	.	X	X	.	X	.	.	.	.	.
33828	12298	46°S	025°E	.	X	X	.	X	.	.	.	.	.
33830	12305	45°S	016°W	.	X	X	.	X	.	.	.	.	.
54829	06762	35°S	157°W	.	*	X	.	X	.	.	.	.	.
54830	06763	51°S	134°W	.	X	X	.	X	.	.	.	.	.
54831	06764	50°S	131°W	.	X	X	.	X	.	.	.	.	.
54832	06585	43°S	166°W	X	X	X	.	X	.	.	.	X	.

* Sensor /system failure

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

Drifting Buoys (continued):

WMO buoy Identifier	Argos Identifier	Position 5 November 1990		Observed or technical parameters							
				1	2	3	4	5	6	7	8
54833	06586	47°S	143°W	X	X	X	.	X	.	.	X
54834	06583	36°S	159°W	X	X	X	.	X	.	.	X
54835	06731	33°S	157°W	.	X	X	.	X	.	.	.
55802	08843	18°S	055°E	.	X	X	.	X	.	.	.
56829	09222	27°S	046°E	.	X	X	.	X	.	.	.
56831	09217	10°S	113°E	.	X	X	.	X	.	.	.

5. ARGOS service

5.1 ARGOS monthly status report

As at 2 November 1990, the Argos service was handling reports from 617 drifting buoys, 138 moored buoys, 2 balloons, 33 ships, 96 animal trackings, 408 fixed stations, 361 boats and 33 miscellaneous platforms. DRIBU reports from 68 drifting buoys, SHIP reports from 25 selected ships and BATHY reports from 20 selected ships were transmitted to the RTH Paris and DRIBU reports from 226 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	56001	04873	
	56501	02934	
	56544	02935	
	56546	02951	
	56547	04870	
	56548	04871	
	56549	04872	
	S6FK*		
	VMAP*		
	ZCSL*		
	France	44609	05799
		62503	05790
		62513	05829
62515+		05832	
62516		05833	
62551+		00200	
62552+		00201	
62553+		00205	
62554+		00213	
62555+		00219	
62557+		00232	
62558+		00237	

* PTT's transmitting at irregular intervals.

+ PTT's which were removed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
France (continued)	62559+	00239	
	62561+	00242	
	62563+	00323	
	62565+	00329	
	62566+	00333	
	62567+	00340	
	62568+	00341	
	62569+	00344	
	62570+	00346	
	62571+	00348	
	62572+	00351	
	62573+	00362	
	62575+	00323	
	62576+	00325	
	62579+	00352	
	62580+	00356	
	62582+	00363	
	62583+	00364	
	64516	05796	
	64527	05822	
	A3BZ*		
	C6HL*		
	ELEH*		
	FNCZ*		
	FNGB*		
	FNJT*		
	FNOM*		
	FNZO*		
	FNZP*		
	FNZQ*		
	FPYG*		
	FWQP*		
	GQEK*		
	GTIA*		
	HPEW*		
	VJBQ*		
	VJDP*		
	Germany	71524	03315
		71529	08057
		71530	08058
71531		08059	

* PTT's transmitting at irregular intervals.

+ PTT's which were removed during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
Germany (continued)	71532	08060	
	71536	08064	
	71537	08065	
	71540	08068	
Iceland	44616	04183	
Japan	52060	08718	
	52064	08724	
Netherlands	44615	03037	
	64564	03036	
New Zealand	55578+	06437	
	55579	06435	
	55580+	06439	
	55582	07175	
	55583	07179	
	55584	07178	
	55585	07177	
	55586+	07176	
	Norway	17001	01591
		17003	01758
44624		03722	
44743		01298	
62524		01299	
63002		09407	
63004		09403	
63512		01792	
64504		03674	
71001		01757	
74001		09405	
Portugal		62692	01078
		62693	01079

+ PTT's which were removed during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
South Africa**	17512	09096	
	17513	09092	
	17514	08263	
	17517	08268	
	17520	09097	
	17522	09095	
	17523	09086	
	17524	09099	
	17525	09098	
	17526	09089	
	17527	09087	
	17528	08260	
	17529	09088	
	17530	09093	
	17531	08262	
	United Kingdom	44728	04039
		44729+	06305
44730		06298	
62606		03916	
62803		06299	
United States of America	12847	11191	
	13515	12446	
	14803	08844	
	14804	08845	
	17804	12300	
	17805	12304	
	17806	12306	
	23508+	12475	
	23509	12476	
	23510+	12485	
	25536	12780	
	25537	12789	
	31502	09844	
	32512	11914	
	32514	10836	
	32515	11898	
	32518	11167	
32519	11905		
32520	11577		
32521	11909		

** 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 during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	32522	10808
	32523	10809
	32524	10842
	32525	11192
	32526	11193
	32527+	12485
	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
	33823	08965
	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	

+ PTT's which were removed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	43504	11198
	43508	11171
	43509	10847
	43510	11628
	43511	03078
	43801	06898
	43805	10817
	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	12755
	44524	12756
	44528	12737
	44529	12746
	44530	12740
	44532	12739
	44534	12745
	44535	12749
	44536	12744
	44537	12747
	44538	12748
	44539	12751
	44540	12752
	47601	12785
	48518	12782
	48519	12783
	51502	12642
	51511	06883
	51512	06884
	51513	11663
	51515	11678

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51516	11632
	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
	51822	11870
	51823	11648
	51824	11685
	51825	11686
	51826	11871
	51827	11688
	51829	11202
	51830	15088
	51831	11689
	51832	11691
	51833	11872
	51834	11170
	51835	11638
	51837	11642
	51838+	11177
	51840	11536
	51841	15098
	51844	11542
	51845	11548
	51846	11692
	51849	11539
	51851	11547
	51853	11694

+ PTT's which were removed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51855	11705
	51856	11559
	51859	11581
	51860+	11673
	51861	11558
	51863	11564
	51865	11623
	52005	01350
	52502	11761
	52512	10593
	52521	11736
	52523	11290
	52525	11729
	52526	11730
	52527	11731
	52802	10822
	52806	06880
	52807	10824
	52813	10835
	52827	10823
	52852	11629
	52853	11624
	52854	11626
	52855	11631
	52857	11640
	52858	11649
	52860	11659
	52861	11637
	52862	11560
	52865	11567
	52866	11887
	52867	11893
	52868	11876
	52871	11889
	52872	11890
	52873	11892
	52875	11896
	52876	11881
	52877	11883
	52878	11885
	53807	11877
	53809	11886
	54829	06762
54830	06763	

+ PTT's which were removed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	54831	06764
	54832+	06585
	54833+	06586
	54835	06731
	52802	08843
	56829	09222
	56830	12290
	56831	09217
	62671	09847
	62672	09859
	64533	12786
	64539	12787
	64543+	04126
	64544+	04834
	64545+	11720
	64546+	12444
	64547+	12486
	64548+	12447
	64549+	12456
	64551+	12458
	64577	04126
	64578	04834
	64579	11720
	64580	12444
	64581	12486
	64582	12447
	64583	12456
	64584	12458
	65505	04632
	65506	12455

+ PTT's which were removed during the month.

ATLAS buoys

Due to a change in the electronics (message format) of the ATLAS buoys, it was not possible to disseminate the data of the following buoys over the GTS:

<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
51011	06516
51013	06476
51006	06798
51007	06796

ATLAS buoys (continued):

<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
51008	06797
51009	06514
51012	06515
52001	06799
52003	12522
52004	12523
52006	12525

Whereas the data of the following ones (old-style electronics) have been distributed (some on an irregular basis):

<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
51010	06319
32315	06379
52302	06460
52002	06471
31317	06478
32318	06795
32316	06520
52301	06381

The new GTS software able to handle all the ATLAS buoys should be operational by the end of the year.

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 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 (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 II - Global Data-processing System

Date: November 1990

A. GDPS regulatory or guidance material

Generation and Exchange of Status Messages (see also Annex III)

In its first session (5-9 March 1990, Geneva) the CBS Working Group on Data Management continued to develop the Distributed Data Bases Concept. In the frame work of this concept the working group decided to initiate the generation and exchange of status information of NWP centres on a trial basis. It should also be investigated which data representation form should best be used for this information exchange. Although a "plain-language-message" form was seen necessary for non- or less automated centres, it is quite ill-suited for computer processing and could create problems with language barriers. In this respect the use of BUFR or BTAB might be a promising approach.

The working group agreed to concentrate, for the purpose of a practical demonstration, on status messages containing information about delays or non-availability of products from NWP centres. There are a variety of circumstances which might trigger status messages, e.g.:

- (a) A delay in the NWP production process caused by a serious data deficiency or a system failure in the data processing component;
- (b) An emergency such as failure of environmental control, fire, flood etc.;
- (c) A planned outage.

Again, for the purpose of a practical demonstration, the working group considered it best to focus on one aspect, namely (a), delays to the NWP process, and to include (b) and (c) to the extent possible. It was also decided that the delay be at least one hour in order to trigger a status message.

It is not feasible to issue a message in respect of each and every product in a set from a particular NWP run. Experience suggests that one product in the set should be selected as representative of the whole, or alternatively a statement concerning the delay of a model that produces the product. It would then be up to recipients to infer the delay to other products in the same set. The transmissions out of sequence of delayed products across the GTS may also add further delays at intermediate nodes; the originating NWP centre can only indicate the delay at the source. The expected length of the delay should also be contained in the status message.

The abbreviated bulletin heading NPXX10 CCCC YYGGgg should be used, with YYGGgg giving date/time of the origin of the message. For a BTAB message this will be followed by the BTAB identifier.

Example of a BTAB message:

```
NPXX10 EGRR 100115
BTAB A020
TYEA TM T T A AI I CCCC TD T1 T2 XT TIPD2
1990 12 XXXXXX EGRR 10 02 15 04 // 150
7777
```

Meaning:

The product XXXXXX, normally disseminated by EGRR on the 10th of December at 0215 UTC, will be delayed by 2 hours and 30 minutes.

Where:

A020 reference to FM 94-BUFR table A
TYEA defines the year;
TM defines the month;
TTAAII defines a representative product;
CCCC defines the 4-letter indicator of the originating centre;
TD defines days) of the schedules
T1 defines hours) time of the
T2 defines minutes) dissemination;
XT defines time significance (derived from BUFR table B and associated code table 08 021 with 04 being selected to indicate an estimated delay in time);
TIPD2 defines estimated displacement in time in minutes (selected for this example);
TIPDD defining displacement in time in days;
TIPD1 defining displacement in time in hours;

Example of a plain-language message:

NPXX10 CCCC YYGGgg

The [name of centre] is experiencing problems in the production of the [name of model] model. The problem is believed to be [.....].

The [name of the model], which is normally scheduled to run at [time] UTC, is now delayed until [time] UTC.

Annex III - Global Telecommunication System

Date: November 1990

C. Information on the operation of the GTS

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

2.3 Changes in schedules/technical specifications

III-iii Buenos Aires radio-facsimile broadcast effective 22 October 1990 changes.

6. Coastal radio stations (Publication No. 9, Volume D, Part B)

6.1 New stations

INMARSAT Coast Earth Stations in Australia

Notification from Australia that the Indian Ocean satellite Coast Earth Station (CES) is now operational at Perth, Western Australia and accepts ships' weather reports free of charge to ships from the area in the Indian and Pacific Ocean south of the equator between longitudes 60° E and 140°E.

Since both the Indian Ocean and Pacific Ocean CESs are now operational at Perth the Australian Weather Bureau will accept ships' weather reports from all Indian and Pacific Ocean areas south of the Equator between 60° E and 120° W.

Reports are routed by automatic service code (41). BATHY/TESAC reports are also accepted.

8. Bulletins relating to the state of the Ozone Layer over Antarctica

Following the request of WMO Members, short bulletins prepared by the Secretariat containing information on the state of the ozone layer over Antarctica in plain language were included, as available, into the METNO messages during August-November 1990.

Bulletins numbered 1,2 and 3 were issued on 30 August, 12 and 20 September; numbers 4 and 5 were issued on 4 and 18 October and numbers 6 and 7 were issued on 8 and 22 November 1990 respectively.

The Bulletins on the state of the ozone layer over Antarctica issued by WMO were based on ozone data provided by the WMO global ozone observing system stations in the antarctic operated by Argentina in cooperation with Finland (Marambio), Japan (Syowa), New Zealand (arrival heights) and the USA (South Pole) and the NASA Total Ozone Mapping Spectrophotometer (TOMS). If quoted due credit should be given accordingly.

The above-mentioned four stations and TOMS indicated that in the 1990 spring season the ozone depletion was one of the strongest, i.e. very close to the record low of 1987 and 1988. The ozone declined unusually fast during the first half of September reaching extremely low values of less than 180 M ATM CM. The total ozone amount during the first half of October in the centre of the vortex fell as low as 130 M ATM CM and in the layer between 16 and 19 km the ozone was completely eliminated for over a week. During the last decade of October and beginning of November the total ozone amount in the centre of the vortex slightly increased to 160-175 M ATM CM and the overall surface covered by the vortex decreased, thus leaving most of the coastal area of Antarctica with close to normal ozone amount. The ozone hole event for this season completely terminated late in November 1990.

The collaboration of Members indicated in the bulletin who have provided the information is greatly appreciated.

D. Monitoring of the operation of the WWW

RAVI specific monitoring on the exchange of TEMP bulletins on the GTS

A RAVI specific monitoring on the exchange of TEMO bulletins on the GTS will be carried out from 1 to 5 March 1991. RAVI Member countries were invited to participate in this specific monitoring by WMO letter W/EU/T.9 (EUR-548) dated 17 August 1990. Participating countries are requested to send their monitoring results on magnetic tape (with a copy of any correspondence on this matter to the WMO Secretariat) to the following address:

Mr. J.K. Gibson
ECMWF
Shinfield Park
Reading
Berkshire RG2 9AX
England

E. Status Report on WWW implementation

Exchange of Status Messages (see also Annex II)

Some GDPS centres have agreed to issue status messages relating to delays to their numerical weather prediction process on a trial basis, starting on 1 December 1990. The abbreviated headings are as follows:

Originating centre:	Abbreviated heading:
RSMC Bracknell	NPXX10 EGRR YYGGgg
WMC Moscow	NPXX10 RUMS YYGGgg
WMC Washington	NPXX10 KWBC YYGGgg
RTH Prague	NPXX10 OKPR YYGGgg
NMC Hong Kong	NPXX10 VHHH YYGGgg
RSMC ECMWF	NPXX10 ECMF YYGGgg

RTH Nairobi will retransmit the status messages received.

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

Date: November 1990

C. Information on the operation of Marine Meteorological Services

2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C1)

Changes (page: D-C1-VI-3):

Denmark - Danemark (11.X.1990)

(1)	(2)	(3)
Copenhagen	John Røssel Danish Meteorological Institute Observations Department Lyngbyvej 100 DK 2100 Copenhagen Ø	31292100

Changes (page: D-C1-VI-10/11):

Station at Galway is now closed.

Station at Cork Airport no longer issues forecasts

Ireland - Ireland (15.X.1990)

(1)	(2)	(3)
Cork	Meteorological Office, Cork Airport, Cork	(021)965974
(4)	Forecasts available from PMO on request. / Sur demande, prévisions disponibles auprès de l'AMP.	
(6)	For forecasts and other weather information contact CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tel. (01)424655, Telex 25239, 33128. / Pour les prévisions et autres renseignements météorologiques contacter CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tél. (01)424655, Téléx 25239, 33128.	
(1)	(2)	(3)
Dublin	Meteorological Service, Glasnevin Hill, Dublin 9	(01)424411
(4)	Warnings and forecasts for coastal waters supplied daily to Port Authority for distribution. Local and route forecasts supplied to shipping organizations by arrangement. / Avis et prévisions pour les eaux côtières fournis quotidiennement aux Autorités portuaires aux fins de distribution. Prévisions locales et de routes maritimes fournies aux organismes maritimes suivant entente préalable.	
(5)	Routine forecasts for local coastal waters supplied to yachting organizations during sailing season. / Prévisions régulières pour les eaux côtières locales fournies aux organisations de yachting pendant la saison de la navigation à voile.	

- (6) For warnings, forecasts and other weather information contact CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tel. (01)424655, Telex 91444, 33128, DOCFAX (01) 375780. /
Pour les prévisions, les avis et autres renseignements météorologiques contacter CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tél. (01)424655, Téléx 91444, 33128, DOCFAX (01) 375780.

(1)

Rosslare

(2)

Meteorological office, Rosslare Harbour,
Co. Wexford

(3)

(053)33113

- (4) Forecasts available from PMO on request.
Prévisions disponibles auprès de l'AMP sur demande.

- (6) For forecasts and other weather information contact CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tel. (01)424655, Telex 25239, 33128. /
Pour les prévisions et autres renseignements météorologiques contacter CAFO, Meteorological Service, Glasnevin Hill, Dublin 9, Tél. (01)424655, Téléx 25239, 33128.