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Annexes: 3

GENEVA, 31 August 1990

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) (July/August 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-4522)
Directors of Meteorological Services of non-Member countries (MC-2433)
Presidents and Vice-Presidents of Regional Associations (P.RA-1250)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1368)
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 service
 - 5.1 ARGOS monthly status report
6. Feed-back from Members to the Secretariat on any changes in the observing

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
 - 2.3 Changes to products

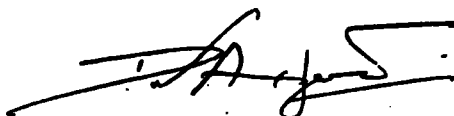
Annex III - Global Telecommunication System

- C. Information on the operation of the GTS
 6. Coastal radio stations (Publication No.9, Volume D, Part B)
 - 6.1 New stations
 8. Exchange of bulletins relating to the state of the Ozone Layer over Antarctica

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: July/August 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

42077	UNA	3128N	7616E	369	365	. X . . X /
43287	MADIKERI	1225N	7544E	1153	1150	850 HPA		 /
						. X . . X /
80440	BARINAS	0837N	7013W	204	203	X X X X X X X X	H09-24	 /
80442	CALABOZO	0856N	6725W	101	100	X X X X X X X X	H09-24	 /
80472	VALENCIA	1010N	6756W	431	430	X X X X X X X X	H09-24	 /
82565	IMPERATRIZ	0532S	4727W	131	131	. . . X X X X X	H08-22	 /
83359	BARRA DO GARCAS	1552S	5223W	350	350	. . . X X X X X	H09-23	 /
83708	GUARATINGUETA	2247S	4512W	537	537	. . . X X X X X	H09-21	 /
89755	WEST PRINCE CHARLES								
	(ARGOS ID 8561)	7110S	05907E	-	2590	X X X X X X X X			. . . .AUT/
89762	AWS								
	(ARGOS ID 1179)	6839S	06033E	-	1850	X X X X X X X X			. . . .AUT/
89772	DEEP LAKE								
	(ARGOS ID 1170)	6834S	07811E	-	-50	X X X X X X X X			. . . .AUT/
89803	AWS								
	(ARGOS ID 1173)	6830S	10211E	-	2118	X X X X X X X X			. . . .AUT/
89805	AWS								
	(ARGOS ID 1172)	7408S	10950E	-	3070	X X X X X X X X			. . . .AUT/
89811	LAW DOME SUMMIT								
	(ARGOS ID 1174)	6644S	11256E	-	1362	X X X X X X X X			. . . .AUT/
89812	AWS								
	(ARGOS ID 1175)	6824S	11213E	-	1603	X X X X X X X X			. . . .AUT/
89813	AWS								
	(ARGOS ID 1171)	7136S	11115E	-	2740	X X X X X X X X			. . . .AUT/
93057	WHANGAREI AERODROME								
	AWS	3546S	17422E	37	-	X X X X X X X X			. . . .AUT/
93167	RAGLAN	3748S	17451E	-	12	. X X X		 /
93191	WHAKATANE AWS	3755S	17655E	7	-	X X X X X X X X			. . . .AUT/

1.2 Deleted stations

43287 MERCARA

1.3 Changes to existing stations

41316	SALALAH	X	X	X	X	X	X	X	X	RW	.	RW	.	/
42044	QAZI GUND	X	X	X	X	X	.	.	.	.	.	.	.	/
42045	BANIHAL	X	X	X	X	X	.	.	.	.	.	.	.	/
42062	DHARMSALA	.	X	X	X	X	.	.	.	.	.	.	.	/
42619	SILCHAR	X	X	X	X	X	X	.	.	.	.	.	.	/
42763	HOSHANGABAD	.	X	X	X	X	.	.	.	.	.	.	.	/
42973	CHANDBALI	X	X	X	X	X	.	.	.	.	.	.	.	/
43257	AGUMBE	.	X	X	X	X	.	.	.	.	.	.	.	/
71722	MANIWAKI, QUEBEC	X	.	X	.	X	.	X	.	RW	.	RW	.	/
71808	BLANC SABLON, QUEBEC	X	.	X	.	X	.	X	.	.	.	.	.	/
71813	NATASHQUAN, QUEBEC	X	.	X	.	X	.	X	.	.	.	.	.	/

1.5 Temporary changes

Notification from Oman that effective 26 June 1990 and until further notice, station 41256 SEEB has suspended radiosonde/radiowind observations due to technical problems. Effective 1 July 1990 to 30 August 1990 station 41254 SAIQ will make surface observations at 03, 06, 09, 12, 15 UTC only.

Notification from Argentina that ozone soundings have been resumed at Centro Met. Antartico "Vicecomodoro Marambio" as from 21 July 1990 in accordance with the work programme agreed between Finland and Argentina.

Notification from Zambia that radiowind observations which were being made at 06 and 12 UTC at stations 67475 Kasama and 67633 Mongu have been suspended due to technical reasons.

4. Automatic marine stationsCanada

Data from moored and drifting buoys are collected via geostationery and polar orbiting satellites respectively. Meteorological reports from moored buoys using FM 13-IX SHIP code are distributed on the GTS from the Direct Readout Station located in Vancouver, B.C. Reports from drifting buoys are received at the Argos Local User Terminal in Edmonton and distributed on the GTS using the FM 14-VIII DRIBU code.

Drifting buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters								
		20 June	1990	1	2	3	4	5	6	7	8	
48536	07405	63°26'N	040°44'W	.	.	X	.	.	.	.	.	.
48544	07412	84°10'N	087°13'W	.	.	X	.	.	.	.	.	.

Drifting buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters								
		20 June	1990	1	2	3	4	5	6	7	8	
46687	07138	43°28'N	149°17'W	.	X	X	.	X	.	.	.	.
46693	07140	38°53'N	142°47'W	.	X	X	.	X	.	.	.	.
46694	07141	25°37'N	131°49'W	.	X	X	.	X	.	.	.	.
46695	07142	30°27'N	138°27'W	.	X	X	.	X	.	.	.	.
46697	07144	27°07'N	144°32'W	*	X	X	.	X	.	.	.	*
46699	07146	51°05'N	134°26'W	.	X	X	.	X	.	.	.	.
46704	07128	47°00'N	162°42'W	.	X	X	X	X	.	.	.	.
46705	07129	47°45'N	159°23'W	.	X	X	X	X	.	.	.	.
46706	07130	45°06'N	142°30'W	.	X	X	X	X	.	.	.	.
46707	07131	43°32'N	127°53'W	.	X	X	X	X	.	.	.	.

* Sensor/system failure.

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the August 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 July 1990		Observed or technical parameters						
			1	2	3	4	5	6	7
32302	18°00'S	085°06'W	*	*	*	*	*	*	*
41001**	34°54'N	073°00'W	X	X	X	X	X	X	X
41002**	32°18'N	075°12'W	X	*	X	X	*	X	X
41006**	29°18'N	077°24'W	X	X	X	X	X	X	X
41008	30°42'N	081°06'W	X	X	X	X	X	X	X
41009	28°30'N	080°12'W	X	X	X	X	X	X	X
41010	28°54'N	078°30'W	X	X	X	X	X	X	X
42001**	25°54'N	089°42'W	X	X	X	X	X	X	X
42002**	26°00'N	093°30'W	X	X	X	X	X	X	X
42003**	25°54'N	085°54'W	X	X	X	X	X	X	X
42007	30°06'N	088°48'W	X	X	X	X	X	.	.
42015	30°12'N	088°12'W	X	X	X	X	X	X	X
42016	30°12'N	088°06'W	X	X	X	X	X	X	X
42019	27°54'N	095°00'W	X	X	X	X	X	X	X
42020	27°00'N	096°30'W	X	X	X	X	X	X	X
44004**	38°30'N	070°36'W	X	X	X	X	X	X	X
44005**	42°42'N	068°36'W	X	X	X	X	X	X	X
44007**	43°30'N	070°06'W	X	X	X	X	X	X	X
44008**	40°30'N	069°30'W	X	X	X	X	X	X	X
44009**	38°30'N	074°36'W	*	X	X	X	X	X	X
44011**	41°06'N	066°36'W	X	X	X	X	X	X	X
44012**	38°48'N	074°36'W	X	X	X	X	X	X	X
44013**	42°24'N	070°48'W	X	X	X	X	X	X	X
45001**	48°00'N	087°42'W	X	X	X	X	X	X	X
45002**	45°18'N	086°24'W	X	X	X	X	X	X	X
45003**	45°18'N	082°42'W	X	X	X	X	X	*	*
45004**	47°30'N	086°30'W	X	X	X	X	X	X	X
45005**	41°42'N	082°24'W	X	X	X	X	X	X	X
45006**	47°18'N	089°54'W	X	X	X	X	X	X	X
45007**	42°42'N	087°06'W	X	X	X	X	X	X	X
45008**	44°18'N	082°24'W	X	X	X	X	X	X	X
46001**	56°18'N	148°18'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		Observed or technical parameters						
	9 July 1990		1	2	3	4	5	6	7
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	X	X	X	X	X	X	X
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	*	*	*	*	*	*	*
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
46026**	37°48'N	122°42'W	X	X	X	X	X	X	X
46027**	41°48'N	124°24'W	*	X	X	X	X	X	X
46028	35°48'N	121°54'W	X	X	X	X	X	X	X
46030	40°24'N	124°30'W	X	X	X	X	X	X	X
46035	57°00'N	177°42'W	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
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'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.

Drifting buoys:

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		9 July	1990	1	2	3	4	5	6	7	8
14803	08844	28°S	054°E	.	X	X	.	X	.	.	.
14804	08845	20°S	068°E	.	X	X	.	X	.	.	.
17803	05571	41°S	078°E	X	*	X	.	X	.	.	X
17804	12300	45°S	027°E	.	*	X	.	X	.	.	.
17805	12304	45°S	033°E	.	*	X	.	X	.	.	.
17820	08846	27°S	029°W	.	*	X	.	*	.	.	.
32814	07491	18°S	085°W	.	*	X	.	*	.	.	.
33823	08965	29°S	041°E	.	X	X	.	X	.	.	.
33824	08966	37°S	020°E	.	X	X	.	X	.	.	.
33825	12301	55°S	003°E	.	X	X	.	X	.	.	.
33826	12296	54°S	029°W	.	X	X	.	X	.	.	.
33827	12297	48°S	012°W	.	X	X	.	X	.	.	.
33828	12298	47°S	005°W	.	X	X	.	X	.	.	.
54829	06762	37°S	162°W	.	*	X	.	X	.	.	.
54830	06763	49°S	149°W	.	X	X	.	X	.	.	.
54831	06764	50°S	142°W	.	X	X	.	X	.	.	.
54832	06585	44°S	170°W	X	X	X	.	X	.	.	X
54833	06586	50°S	148°W	X	X	X	.	X	.	.	X
54834	06583	37°S	164°W	X	X	X	.	X	.	.	X
54835	06731	33°S	158°W	.	X	X	.	X	.	.	.
55802	08843	19°S	083°E	.	X	X	.	X	.	.	.
56825	08833	44°S	136°W	.	X	X	.	X	.	.	.
56829	09222	17°S	067°E	.	X	X	.	X	.	.	.
56830	12290	27°S	090°E	.	X	X	.	X	.	.	.

- Sensor/system failure.

5. ARGOS service5.1 ARGOS monthly status report

As at 1 August 1990, the Argos service was handling reports from 631 drifting buoys, 119 moored buoys, 3 balloons, 29 ships, 160 animal trackings, 413 fixed stations, 426 boats and 28 miscellaneous platforms. DRIBU reports from 63 drifting buoys, SHIP reports from 1 selected ship and BATHY reports from 19 selected ships were transmitted to the RTH Paris and DRIBU reports from 246 moored and 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 is given below.

DRIBU code:

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
Australia	55557	00417	
	55558	00416	
	55559	00418	
	56001.	04873	
	56541	02946	
	56542	02944	
	56544	02935	
	56546	02951	
	56547	04870	
	56548	04871	
	56549	04872	
	56550+	04874	
	Canada	47552	09787
	France	44607	05826
		44609	05799
62503		05790	
62512		05824	
62513		05829	
62514+		05831	
62515+		05832	
62517		05821	
62582		00232	
64516		05796	
64527		05822	
A3BZ*			
ARGO*			
C6HL*			
FNCZ*			
FNGS*			
FNJT*			
FNOM*			
FNQB*			
FNZO*			
FNZP*			
FNZQ*			
FPYO*			
GTIA*			

+ PTT's which were removed during the month

* PTT's transmitting at irregular intervals

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
France (continued)	HPEW*	
	JQNY*	
	S6FK*	
	SHIT*	
	VMAP*	
	ZCLS*	
Germany, Federal Republic of	71524	03315
	71528	08056
	71529	08057
	71530	08058
	71531	08059
	71532	08060
	71536	08064
	71537	08065
	71540	08068
	Japan	52060	08718
52064		08724
Netherlands	44615	03037
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
	63002	09407
	63512	01792
	71001	01757
	74001	09405
Portugal	62692	01078

• PTT's which were removed during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
South Africa**	16021	09490	
	17512	09096	
	17514	08263	
	17516	08267	
	17517	08268	
	17519	08265	
	17520	09097	
	44729	06305	
	62606	03916	
	62607	03917	
United Kingdom	62803	06299	
	64043	06271	
	64552	06306	
	United States of America	12501	11735
		12505+	12637
		12847	11191
		13501	12412
		13502	12413
		13503	12414
		13504	12415
13505		12417	
13506		12420	
13507		12421	
13508	12422		
13509	12416		
13510	12418		
13512	11714		
14803	08844		
14804	08845		
17803	05571		
17804	12300		
17805	12304		
17820	08846		
23504+	11280		
23505+	11281		
23506+	11279		
23507	11282		

+ 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>
United States of America (continued)	25536	12780
	25537	12789
	32513	10843
	32514	10836
	32518	11167
	32520	11577
	32522	10808
	32523	10809
	32524	10842
	32525	11192
	32526	11193
	32527	10818
	32528	10820
	32529	11194
	32530	11546
	32531	10812
	32536	11149
	32537	10839
	32538	11172
	32539	11875
	32541	11656
	32542	11153
	32545	10849
	32546	11160
	32547	11201
	32548	11891
	32549	11163
	32551	06889
	32553	10841
	32554	10840
	32556	11538
	32560	11572
	32814	07491
	33823	08965
	33824	08966
	33825	12301
	33826	12296
	33827	12297
	33828	12298
	41525	08960
	42501	11501
	42502	11502
	43502	11168
	43503	11874

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	43504	11198
	43505	11200
	43508	11171
	43509+	10847
	43510	11628
	43511	03078
	43801	06898
	43805	10817
	43810	11165
	44502	04570
	44503	09877
	44504	04561
	44505	09878
	44506	04542
	44510	04530
	44513	12407
	44514	12408
	44515	12409
	44516+	12410
	44517	12411
	44521	12730
	44522	12731
	44523	12732
	44524	12733
	44525	12734
	44526	12735
	44527	12736
	44528	12737
	44529	12738
	44530	12740
	44531	12741
	44532	12739
	44533	12742
	44534	12745
44535	12749	
44599	12405	
44600	12406	
47552	09787	
47601	12785	
48518	12782	

+ PTT's transmitting at irregular intervals.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	48519	12783
	48520	12784
	48536	07405
	48544	07412
	51510	06873
	51511	06883
	51512	06884
	51514	11568
	51516	11632
	51519	11646
	51520	11653
	51801	11197
	51802	11650
	51803	11652
	51804	11660
	51805	11622
	51806	11625
	51807	11641
	51808	11651
	51809	11199
	51811	11644
	51812	11657
	51813	11569
	51815	11571
	51816	11620
	51817	11655
	51818	11630
	51819	11645
	51820	11041
	51821	11647
	51822	11870
	51823	11648
	51826	11871
	51828	11136
	51829	11202
	51833	11872
	51834	11170
	51835	11638
	51836	11174
	51837	11642

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51838	11177
	51839	11185
	51840	11536
	51842	11540
	51844	11542
	51845	11548
	51847	11551
	51848	11557
	51849	11539
	51850	11544
	51851	11547
	51852	11549
	51854	11554
	51856	11559
	51857	11570
	51858	11580
	51859	11581
	51861	11558
	51863	11564
	51864	11566
	51865	11623
	52005	01350
	52512	10593
	52520	10590
	52802	10822
	52806	06880
	52807	10824
	52813	10835
	52827	10823
	52842	11186
	52852	11629
	52853	11624
	52854	11626
	52855	11631
	52857	11640
	52858	11649
	52859	11654
	52860	11659
	52861	11637
	52862	11560

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	52864	11565
	52865	11567
	52866	11887
	52867	11893
	52868	11876
	52869	11880
	52870	11884
	52871	11889
	52872	11890
	52873	11892
	52874	11878
	52875	11896
	52876	11881
	52877	11883
	52878	11885
	53805	11180
	53807	11877
	53808	11888
	53809	11886
	54829	06762
	54830	06763
	54831	06764
	54832	06585
	54833	06586
	54834	06583
	54835	06731
	55802	08843
	55829	06785
	56824	08841
	56825	08833
	56828	09220
	56829	09222
	56830	12290
	61526	11748
	61527	11749
	64533	12786
64539	12787	
64540	12788	
73651	03883	

<u>ATLAS buoys</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
	32315	06379
	32316	06520
	32317	06478
	32318	06795
	51006	06798
	51007	06796
	51008	06797
	51009	06514
	51010	06369
	51012	06515
	51013	06476
	52001	06380
	52002	06471
	52003	06375
	52004	06519
	52006	06472
	52301	06381
	52302	06460

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: July/August 1990

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

2. RSMC output products

2.3 Changes to products

RSMC Bracknell

A statistical correction will be introduced from 12 UTC 5 September 1990 to wind products originating from Bracknell and based on the global model, i.e. products with bulletin headers DWA_{1,2}A_{ii}EGRR, GWA_{1,2}A_{ii}EGRR, HUA_{1,2}A_{ii}EGRR and HVA_{1,2}A_{ii}EGRR. The corrections will be^{1,2} applied between^{1,2} 700 hPa and 100 hPa inclusive, and are designed to reduce bias in the wind speed. These products should therefore be superior to the present versions for most purposes, bulletins of uncorrected winds will still be available for recipients who may require them for specialized purposes. Would any centres who have a continued requirement for uncorrected wind data please inform the Assistant Director of Central Forecasting Division by 15 August.

Encoding of Polar Data in WMO FM47-V GRID

The coding of Bracknell products in FM-V GRID has hitherto not conformed strictly to the specification for polar data lines in publication WMO No. 306.

This will be rectified for products issued after 1200 UTC on 3 October 1990, and will affect those grid areas with catalogue numbers NNN = 201, 013, 016 (see Volume B of publication No. 9). The serial number of the first data line of areas 201 and 013 will become 99, and that of the last data line of area 016 will become 98.

Annex III - Global Telecommunication System

Date: July/August 1990

- C. Information on the operation of the GTS
- 6. Coastal radio stations (Publication No.9, Volume D, Part B)

6.1 New stations

Notification from Greece that as from 1 August 1990 the INMARSAT Coast Earth Station Thermopylae (CES Code 05) accepts ships' weather reports free of charge only from ships' operating within the Mediterranean Basin and the Black Sea area. Reports are routed by automatic service code (41) to the Hellenic National Meteorological Service (HNMS) which requests that transmission be strictly limited to the ship code format and should not exceed one minute duration.

- 8. Exchange of bulletins relating to the state of the Ozone Layer over Antarctica

In response to requests by CAS and the Executive Council, arrangements have been made to issue on an experimental basis approximately once every ten days a short bulletin on the state of the ozone layer over Antarctica, based on information from the WMO Global Atmosphere Watch - Global Ozone Observing System, during August-September-October 1990. These bulletins will be included in the METNO messages.

It is expected that this initiative will meet the numerous requests by Members for early information. It should be emphasized that the bulletin is based on provisional data provided by Members operating GAW-GO₃OS stations and actual final values will be available in due time through the WMO World Ozone Data Centre. Thus, the information in this bulletin, although primarily provided for use of your national service, can also be used in providing authoritative responses to public enquiries.

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