



Téléphone: National (022) 730 81 11
International + 41 22 730 81 11
Télégrammes: METEOMOND GENÈVE
Télex: 41 41 99 OMM CH
Facsimilé: 41 22 734 23 26

SECRETARIAT
GENÈVE - Suisse

41, Giuseppe-Motta
Case postale N° 2300
CH - 1211 Genève 2

W/OIS

Annexes: 4

GENEVA, 31 July 1991

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

5. ARGOS

- 5.1 ARGOS monthly status report

6. ASDAR reporting 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-4651)
Directors of Meteorological Services of non-Member countries (MC-2449)
Presidents and Vice-Presidents of Regional Associations (P.RA-1272)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1390)
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
 - 2. Transmission schedules (Publication No. 9, Volume C, Chapter I)
 - 2.3 Changes in schedules/technical specifications
 - 6. Coastal radio stations (Publications No. 9, Volume D, Part B)
 - 6.1 New stations
 - 6.2 Deleted stations

Annex IV - Codes

- B. Manual on codes
 - 1. Global practices
 - 1.1 New codes
 - 1.2 Deleted codes
 - 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 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 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

15502	VIDIN	43°49'N	22°53'E	33	31		X X X X X X X X	H00-24 /
15661	ACHTOPOL	42°06'N	27°51'E	19	18		X X X X X X X X	H00-24 /
16410	PALERMO/ BOCCADIFALCO	38°06'N	13°18'E	117	107		X X X X X X X X	 /
16522	CAPO CACCIA	40°34'N	08°10'E	204	200		X X X X X X X X	H00-24 /
68038	SUA-PAN	20°28'S	25°59'E	904	903	850 hPa	. X X X X X X .		. P P . /
89757	AWS (ARGOS ID 1178)	73°50'S	55°40'E	-	2775		X X X X X X X X		. . . . . AUT/
89810	CASEY AIRSTRIP (AWS ARGOS ID 8042)	66°17'S	110°48'E	-	390		X X X X X X X X		. . . . . AUT/
93118	WAIHEKE ISLAND	36°47'S	175°01'E	40	-		X X X	 /
93404	PALMERSTON NORTH AWS	40°19'S	175°36'E	39	-		X X X X X X X X	 /
93909	SOUTH WEST CAPE AWS	47°16'S	167°27'E	-	101		X X X X X X X X		. . . . . AUT/

1.2 Deleted stations

04320	DANMARKSHAVN (Upper-air station)
15503	GRAMADA
42034	LEH
42055	JAMMU
42057	PATHANKOT
42073	ADAMPUR
42098	HALWARA
42104	AMBALA
42423	JORHAT
42620	SILCHAR KUMBHIRGRAM
42631	NALIYA
42802	KALAIKUNDA
43125	BIDAR
43130	HAKIMPET
43307	TAMBARAM
43323	SULUR
93607	GREYMOUTH
93749	ST BATHANS
98645	CEBU

1.3 Changes to existing stations

04320	DANMARKSHAVN	X X X X X X X X	RW	.	RW	.	/
15010	SATU MARE	X X X X X X X X	.	P	P	.	/
15080	ORADEA	X X X X X X X X	.	P	P	.	/
15090	IASI	X X X X X X X X	.	.	.	.	/
15230	DEVA	X X X X X X X X	.	.	.	.	/
15310	GALATI	X X X X X X X X	.	P	P	.	/
15360	SULINA	X X X X X X X X	.	P	P	.	/
15420	BUCURESTI/IMH	X X X X X X X X	RW	P	RW	P	/
15730	KURDJALI	X X X X X X X X	.	.	.	.	/
67012	FASCENE (NOSSI-BE)	X X X X X X . .	.	.	.	.	/
67022	ANDAPA	. X X X X X . .	.	.	.	.	/
67023	SAMBAVA	X X X X X X . .	.	.	.	.	/
67037	BESALAMPY	. X X X X X . .	.	.	.	.	/
67113	MAHANORO	X X X X X X X .	.	.	.	.	/
67152	RANOHIRA	. X X X X X . .	.	.	.	.	/
67157	FARAFANGANA	X X X X X X . .	.	.	.	.	/
67194	FAUX-CAP	. X X X X X . .	.	.	.	.	/
98135	BASCO	X X X X X X X X	.	.	.	.	/
98223	LAOAG	X X X X X X X X	RW	P	.	.	/
98328	BAGUIO	X X X X X X X X	.	.	.	.	/
98444	LEGASPI	X X X X X X X X	.	.	RW	.	/
98526	CORON	X X X X X X X X	.	.	.	.	/
98618	PUERTO PRINCESA	X X X X X X X X	P	.	.	.	/
98630	CUYO	X X X X X X X X	.	.	.	.	/
98646	MACTAN	X X X X X X X X	RW	.	.	.	/
98653	SURIGAO	X X X X X X X X	.	.	.	.	/
98753	DAVAO AIRPORT	X X X X X X X X	P	.	P	.	/
98836	ZAMBOANGA	X X X X X X X X	.	.	.	.	/

1.5 Temporary changes

Notification from Maldives that station 43599 GAN ISLAND is operational again.

Notification from Bulgaria that upper-air observations at station 15730 Kurdjali are being temporarily suspended until 31 December 1991.

4. Automatic marine stations**United States of America**

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

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 4-11 July 1991		Observed or technical parameters						
			1	2	3	4	5	6	7
32302	18°00'S	85°06'W	X	X	X	X	X	X	X
41001**	34°54'N	72°54'W	X	X	X	X	X	X	X
41002**	32°18'N	75°12'W	X	X	X	X	X	X	X
41006**	29°18'N	77°24'W	*	*	*	*	*	*	*
41008	30°42'N	81°06'W	X	X	X	X	X	X	X
41009	28°30'N	80°12'W	X	X	X	X	X	X	X
41010	28°54'N	78°30'W	X	X	X	X	X	X	X
42001**	25°54'N	89°42'W	*	*	*	*	*	*	*
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	*	*	*	*	*	*	*
42020	27°00'N	96°30'W	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
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	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°48'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

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

* Sensor/system failure

Moored Buoys (continued):

WMO buoy Identifier	Position 4-11 July 1991		Observed or technical parameters						
			1	2	3	4	5	6	7
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	*	*	*	*	*	*	*
46010**	46°12'N	124°12'W	*	*	*	*	*	*	*
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°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
46027**	41°48'N	124°24'W	X	X	X	X	X	X	X
46028	35°48'N	121°54'W	X	X	X	X	X	X	X
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
46045	33°48'N	118°24'W	X	X	X	X	X	X	X
51001**	23°24'N	162°18'W	X	X	X	X	X	X	X
51002**	17°12'N	157°48'W	X	X	X	X	*	X	X
51003**	19°12'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 10/11 July 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
14803	08844	34°S	030°E	.	X	X	.	X	.	.	.
14804	08845	28°S	055°E	.	X	X	.	X	.	.	.
16807	05133	53°S	016°E	.	X	X	.	X	.	.	.
17803	05571	38°S	094°E	X	*	X	.	*	.	.	X
17804	12300	36°S	093°E	.	*	X	.	X	.	.	.
17805	12304	26°S	071°E	.	*	X	.	X	.	.	.
17806	12306	40°S	009°E	.	X	X	.	X	.	.	.
17809	05125	43°S	020°W	.	X	X	.	X	.	.	.
17810	05126	41°S	012°E	.	X	X	.	X	.	.	.
17825	05129	45°S	019°E	.	X	X	.	X	.	.	.
33301	12310	56°S	028°W	.	X	X	.	.	.	.	.
33509	12307	43°S	028°W	.	X	X	.	X	.	.	.

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

* Sensor/system failure

Drifting Buoys (continued):

WMO buoy Identifier	Argos Identifier	Position 10-11 July 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
33510	12308	45°S	024°E	.	X	X	.	X	.	.	.
33826	12296	60°S	053°E	.	X	X	.	X	.	.	.
33827	12297	48°S	090°E	.	X	X	.	X	.	.	.
33828	12298	41°S	073°E	.	X	X	.	X	.	.	.
33830	12305	42°S	050°E	.	X	X	.	X	.	.	.
54829	06762	39°S	152°W	.	*	X	.	X	.	.	.
54830	06763	41°S	111°W	.	*	X	.	X	.	.	.
54831	06764	42°S	108°W	.	X	X	.	X	.	.	.
54832	06585	39°S	159°W	X	X	X	.	X	.	.	X
54833	06586	45°S	141°W	X	X	X	.	X	.	.	X
54835	06731	39°S	149°W	.	X	X	.	X	.	.	.
54836	05128	33°S	164°W	.	X	X	.	X	.	.	.
54837	05135	31°S	151°W	.	X	X	.	X	.	.	.
54838	08823	43°S	159°W	.	X	X	.	X	.	.	.
54839	12312	41°S	152°W	.	X	X	.	X	.	.	.
54840	05120	50°S	167°W	.	X	X	.	X	.	.	.
54842	05122	45°S	164°W	.	X	X	.	X	.	.	.
54843	05134	49°S	147°W	.	X	X	.	X	.	.	.
55803	05136	57°S	144°W	.	X	X	.	X	.	.	.
56832	09219	13°S	093°E	.	X	X	.	X	.	.	.
56834	09218	18°S	087°E	.	X	X	.	X	.	.	.

- Sensor/system failure

5. ARGOS service

5.1 ARGOS monthly status report

As at 4 July 1991 the Argos service was handling reports from 598 drifting buoys, 168 moored buoys, 11 balloons, 27 ships, 127 animal trackings, 376 fixed stations, 487 boats and 43 miscellaneous platforms. DRIBU reports from 47 drifting buoys and BATHY reports from 24 selected ships were transmitted to the RTH Paris and DRIBU reports from 238 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
	56502	02936
	56503	08035
	56504	08036
	56505	08037
	56506	04875
	56546	02951

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
Australia (continued)	56547	04870	
	56548	04871	
	56549	04872	
	9VBZ*	09195	
	9VUU*	09190	
	9VWM*	09187	
	S6FK*	09193	
	VJBQ*	09196	
	GYRW*	09197	
	GYSA*	09189	
	GYSE*	09199	
	Canada	21551	01314
		21552	01315
		21553	01316
44635		08666	
44755		03319	
46644		01198	
46645		01199	
46646		01310	
46649		01313	
46650		01424	
47559		04004	
France	13531	05832	
	44610	10102	
	62513	05829	
	62514	05831	
	62516	05833	
	62518	10104	
	62519	10114	
	64516	05796	
	A3BZ*	04709	
	C6HL*	04705	
	ELEH*	08746	
	FNCZ*	08744	
	FNGS*	04707	
	FNJT*	04722	
	FNOM*	04701	
	FNQB*	04726	
	FNZ0*	04717	
	FNZP*	04719	
	FNZQ*	04703	
	FPYO*	04729	
GQEK*	04708		
HPEW*	04720		
ZDBE*	04718		

- PTT's transmitting at irregular intervals

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Germany	71524	03315
	71545	09353
	71546	09354
Japan	46601	04780
	46602	04781
	46603	04782
Netherlands	44613	04179
New Zealand	55579	06435
	55582	07175
	55583	07179
	55584	07178
	55585	07177
	55586	07176
Norway	17001	01591
	17003	01758
	62694	03670
	63002	09407
	65591	06666
	74001	09405
South Africa**	17527	09087
	17528	08260
	17529	09088
	17535	14056
	17537	14057
	33021	09085
United Kingdom	62803	06299
	62804	06305
	62805	06285
	64043	06271
United States of America	13501	14340
	13502	14341
	13503	14343
	13504	14344

** 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)	13505	14345
	13506	14346
	14803	08844
	14804	08845
	16807	05133
	16808+	05127
	17803+	05571
	17804	12300
	17805	12304
	17806	12306
	17809	05125
	17810	05126
	17825	05129
	23503	14285
	25537	12805
	31502	09844
	32316+	06520
	32317+	06519
	32318+	06478
	32513	11917
	32514	10836
	32515	11898
	32516	11927
	32517	15093
	32518	15091
	32519	11905
	32520	11918
	32521	11928
	32522	10808
	32523	10809
	32524	11921
	32525	11192
	32526	11923
	32529+	11194
	32531	10812
	32532	11897
	32537	10839
	32540	11904
	32543	11015
	32544	11908
	32545	10849
	32546	11160
	32549	11163
	32550	11894
	32552	11195
	32554	10840
	32558	09276
	33301	12310

+ 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)	33509	12307
	33510	12308
	33825+	12301
	33826	12296
	33827	12297
	33828	12298
	33830	12305
	41502	11753
	41506	14294
	41521	14296
	43501	11919
	43502	11168
	43503+	11926
	43504	11198
	43508	11171
	43510	11628
	44501	09173
	44502	09174
	44507	04566
	44508	09171
	44509	09165
	44510	09176
	44511	09177
	44512	09178
	44520	09856
	44523	12772
	44530	12737
	44534	12771
	44535	12732
	44536	12730
	44537	12731
	44539	12733
	44541	12734
	44542	12735
	44543	12736
	44544	12766
	44545	12767
	46510	12672
	47601	12785
	48518	12800
	48519	12783
	48520	12801
	48554	12802
	48555	12806
	48557	12808
	51006+	06798
	51011+	06476
	51014+	06521

+ 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)	51510	11671	
	51511	06883	
	51512	15089	
	51513	11663	
		51514	11675
		51515	14432
		51516	09274
		51517	11676
		51518	15077
		51519	11646
		51520	11653
		51801	14433
		51802	11915
		51803	11912
		51804	14434
		51806	09279
		51807	15094
		51808	15085
		51809	14435
		51810	15087
		51811	11644
		51812	15079
		51813	11924
		51814	11682
		51816	11620
		51817	11655
		51819+	11645
		51820+	11687
		51821	11690
		51822	11870
		51823	15095
		51824	11685
		51825	11686
		51826	11578
		51827	11688
		51828	11695
		51829	11202
		51830	15088
		51831	11689
		51832	11691
	51833	11872	
	51835	09271	
	51836	09270	
	51837	15096	
	51839	11700	
	51840	15090	
	51841	15098	
	51842	11702	

+ 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)	51843	11703
	51844	09275
	51845+	09273
	51846	11692
	51847	11706
	51849	15097
	51853	11694
	51855	11705
	51856	15082
	51857	11667
	51858	11668
	51861	15099
	51862	11670
	51865	11623
	51868	11669
	51869	11674
	51870	11679
	51871	11693
	51872	11696
	51873	11699
	51874	11701
	51875	11704
	51876	11683
	51877	15073
	51878	15072
	51879	15074
	51880	15078
	51881	15080
	51882	15081
	51883	15083
	51884	15084
	51885	15086
	52001+	06799
	52002+	06795
	52003+	12522
	52004+	06515
	52006+	06795
	52051	09272
	52052	09278
	52301+	06514
	52813	10835
	52827	10823
	52866	11887
	52867	11893
	52868	11876
	52872	11890
	52877	11883
	53501	11255

+ 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)	53502	12498
	53809	11886
	54829	06762
	54830	06763
	54831	06764
	54832+	06585
	54833+	06586
	54834+	06583
	54835	06731
	54836	05128
	54837	05135
	54838	08823
	54839	12312
	54840	05120
	54841+	05121
	54842	05122
	54843	05134
	55802+	08843
	55803	05136
	56827+	09221
	56832	09219
	56834	09218
	62672	09859
	62673	12726
	64581	12804
	64587	14314
	64592	14283
	64593+	14295
	64594+	14313
	64595	14328

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

ATLAS buoys

<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
32316	06520
32317	06519
32318	06478
51006	06798
51009	06461
51011	06476
51014	06521
52001	06799
52002	06795
52003	12522
52004	06515
52006	06796
52301	06514

6. ASDAR reporting stations

The first four of the operational ASDAR units have been certified and are in operational service. The two airlines concerned are British Air and Continental (USA). For each airline, one DC-10 and one B-747 aircraft have been equipped with the ASDAR. The ASDAR reports are at present compiled within AIREP bulletins with data designators T₁T₂=UA and with location indicator CCCC=EESA, RJTD or KWBC (identifying the satellite ground station preparing the bulletins).

The ASDAR is an electronics package developed for a group of WMO Members to provide reports automatically from wide-bodied aircraft. The ASDAR processes information available from the aircraft avionics into meteorological observations. Special sensors are not installed on the aircraft. Each hour at a designated time, the ASDAR transmits its report containing the stored observations taken during the previous hour over the International Data Collection System (IDCS) to any of the Geostationary Meteorological Satellites in its range. Global coverage is available between roughly 85 degrees north and south.

Each observation contains the following information: stage of flight (ascending, descending or level), identifier, latitude and longitude, time, flight altitude, temperature, wind speed and direction, and turbulence. For the moment, the turbulence algorithm has not been activated and the turbulence is shown as either zero or "7", depending on the aircraft. The identifier for each ASDAR aircraft ends with the letter "Z".

Each bulletin on the GTS contains the observations taken by the aircraft during the previous 60 minutes. When the aircraft is at cruise altitude, that is any altitude above 20,000 feet, the bulletin will normally contain 7 or 8 reports taken at intervals of roughly 7 minutes. Special reports at cruise altitude will be included whenever a jet stream is encountered. On take-off and landing, the ASDAR is programmed to take observations based on changes in pressure level. Between the surface and the tenth level during ascent and below 700 hPa level during descent, an observation is made each 10 hPa. From above to 20,000 feet, the interval is 50 hPa.

Each ASDAR-equipped aircraft makes an average of 10 hourly reports per day. Including the reports on take-offs and landings, each aircraft will provide daily some 100 observations for the WWW. ASDAR is expected to be fitted to a B-747 of Saudia by the end of August 1991. As many as nine ASDAR equipments will have been fitted to aircrafts by the end of 1991.

Following Recommendations 6 and 14 of CBS-Ext.(90) endorsed by EC-XLIII, the code form FM42-ASDAR is renamed and amended to code form FM42-AMDAR - Aircraft report (Aircraft Meteorological Data Relay) and the AMDAR reports from ASDAR systems will be compiled into AMDAR bulletins with data designators T₁T₂=UD as from 1 November 1991.

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 III - Global Telecommunication System

Date: July 1991

C. Information on the operation of the GTS

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

2.3 Changes in schedules/technical specifications

- II-iii - Bangkok radio-facsimile broadcast effective 7 June 1991 read:
HSW61 17520 kHz 10 kW, HSW64 7395 kHz 3 kW
- Delete HSW69, HSW70 6765 10 kW
- New schedule

- II-iii - Beijing (Peking) radio-facsimile broadcast changes in transmission times effective 15 July 1991.

- VI-iii - Offenbach/Main - Mainflingen (DCF54) and (DCF37) radio-facsimile broadcasts changes effective 1 August 1991

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

6.1 New stations

Notification from Japan effective immediately that a new INMARSAT Coast Earth Station (CES) IBARAKI (CES code 03) accepts ships' weather reports from ships operating in the Western North Pacific area 100 degrees east to 160 degrees west and equator to 65 degrees north. Reports are routed to METEO TOKYO by automatic service code (41). Japan also accepts BATHY/TESAC reports via the CES IBARAKI.

6.2 Deleted stations

Notification from U.S.S.R. that as from 1 July 1991 INMARSAT Coast Earth Stations NAKHODKA and ODESSA will have to cease reception of ships' weather reports.

Annex IV - Codes

Date: July 1991

B. Manual on Codes

The implementation of the following new codes and code changes will take effect as of 1 November 1991.

1. Global practices

1.1 New codes

Rec. 16 (CBS-Ext.(90)) - PROPOSED FM 22-IX EXT. RADREP - RADIOLOGICAL DATA REPORT - (MONITORED ON A ROUTINE BASIS AND/OR IN CASE OF AN ACCIDENT) AND FM 57-IX EXT. RADOE - RADIOLOGICAL TRAJECTORY DOSE FORECAST - (DEFINED LOCATION AND EXPECTED TIME OF ARRIVAL)

1.2 Deleted codes

Rec. 10 (CBS-Ext. (90)) - PROPOSED CODE FM 18-IX EXT. - DRIFTER - REPORT OF A DRIFTING BUOY OBSERVATION TO REPLACE FM 14-VIII DRIBU

1.3 Changes to codes

Rec. 10 (CBS-Ext. (90)) - PROPOSED CODE FM 18-IX EXT. - DRIFTER - REPORT OF A DRIFTING BUOY OBSERVATION TO REPLACE FM 14-VIII DRIBU

Rec. 11 (CBS-Ext.(90)) - PROPOSED AMENDMENTS TO FM 35-IX TEMP. FM 36-IX TEMP SHIP FM 37-VIII TEMP DROP AND FM 38-IX TEMP MOBIL

Rec. 12 (CBS-Ext. (90)) - PROPOSED AMENDMENTS TO FM 47-V GRID. FM 49-VII GRAF

Rec. 13 (CBS-Ext.(90)) - PROPOSED MODIFICATIONS TO FM 12-IX SYNOP AND FM 13-IX SHIP AND MINOR MODIFICATIONS TO REGULATIONS OF FM 63-IX BATHY AND FM 64-IX TESAC

The President of CBS has approved in accordance with WMO Regulation 42 minor changes to new regulations adopted by Recommendation 13 (CBS-ext.(90)) needed to assure SYNOP coding/decoding integrity for use as from 1 November 1991 as follows:

- 1) In new regulation 12.4.7.4.3 and 12.4.7.4.4
 - Delete entries j (sub 5) = 7 and j (sub 5) = 8 and their specifications
 - Add a note: net short wave radiation and direct solar radiation coding procedures have not yet been finalized.
- 2) In new code table 2061 (b)
 - Under j (sub 5) change to: Indicator of type of solar or terrestrial radiation (code figures 0 - 6 used, 7 - 9 not used)

These changes are necessary to remove current inconsistency until a solution in identification of 7 group precipitation, 8 groups direct solar radiation and cloud data still under consideration is finalized by the sub-group on codes.

Rec. 14 (CBS-Ext.(90)) - PROPOSED RENAMING AND EXTENSION OF FM 42-ASDAR TO FM 42-AMDAR - AIRCRAFT REPORT (AIRCRAFT METEOROLOGICAL DATA RELAY) WITH A NEW SECTION 3

With regard to this Recommendation, the Executive Council decided that the following changes be made to the specifications for the aircraft identifier:

**I_A...I_A Aircraft identifier
(FM 42-IX Ext.)**

- (1) The aircraft identifier is an alphanumeric which includes either directly or indirectly the airline identifier and aircraft identifier, and in the case of an ASDAR report the ASDAR flight unit identification.**
- (2) In an AMDAR report from an ASDAR aircraft the aircraft identifier, by convention, ends with the letter Z. In the case of an AMDAR report from a non-ASDAR aircraft the letter Z is not appended.**

The following code changes are for implementation as from 6 November 1991:

Recommendation 22 (CBS-91) - Amendments to FM 92-VIII Ext. GRIB and FM 94-IX BUFR and related tables whose notification was included in WMO circular letter No. W/SY/DR (PR-4614) of 12 July 1991.

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

Date: July 1991

C. Information on the operation of Marine Meteorological Services

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

1.3 Changes in schedules/technical specifications

- Ai-II - Group A Bangkok meteorological radio effective 7 June 1991 new schedule.

- Ai-V - Group A, B Darwin changes effective 1 August 1991.
 - Group B, Melbourne changes effective 1 August 1991.
 - Group A, B Perth changes effective 1 August 1991.

- Aii-II - Bangkok radio-facsimile broadcast effective 7 June 1991 read:
 - HSW61 17520 kHz 10 kW, HSW64 7395 kHz 3 kW
 - Delete HSW69, HSW70 6765 kHz 10 kW
 - New schedule

- Aii-II - Beijing (Peking) radio-facsimile broadcast changes in transmission times effective 15 July 1991.

- Aii-VI - Offenbach/Main - Mainflingen (DCF54) and (DCF37) radio-facsimile broadcasts effective 1 August 1991 changes.
 - Offenbach/(Main)-Hamburg/Pinneberg (DDH3/DDK3/DDK6) radio-facsimile broadcast for shipping effective 1 August 1991: delete chart 97964 at 0810 UTC.