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W/OIS

GENEVA, 26 February 1993

Annexes: 4

Subject: Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) - February 1993

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
 - 4.1 Canada
 - 4.1.1 Moored Buoys
 - 4.1.2 Drifting Buoys

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4838)
Directors of Meteorological Services of non-Member countries (MC-2477)
Presidents and Vice-Presidents of Regional Associations (P.RA-1322)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1438)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

ANNEX I – Global Observing System (cont.)

- 4.2 United States of America
 - 4.2.1 Moored Buoys
 - 4.2.2 Drifting Buoys
- 4.3 France
 - 4.3.2 Drifting Buoys
- 5. ARGOS service
 - 5.1 ARGOS monthly status report
- 7. Feed-back from Members to the Secretariat on any changes in the observing network

ANNEX II – Global Data-processing System

- B. Information on the operational status of GDPS including changes to WMO Publication No. 9, Volume B
 - 2. RSMC output products
 - 2.3 Changes to products
 - 4. List of radiosonde stations for verification of NWP

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

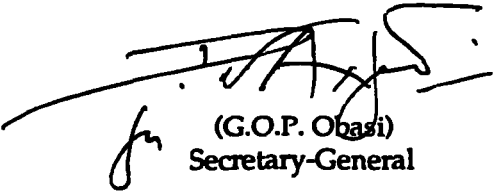
**ANNEX V – Marine Meteorological Services (MMS)
and related oceanographic activities**

- C. Information on the operation of Marine Meteorological Services
 - 1. Broadcasts for shipping and other marine activities (Publication No. 9, Volume D, Part A)
 - 1.3 Changes in schedules/technical specifications

The CBS Advisory Working Group recommended that a special table should be added to the monthly letter to report changes of the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations. You will note, therefore, that a new item, number 7, "Feed-back from Members to the Secretariat on any changes in the observing network" has been added to Annex I - Global Observing System.

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated. If you wish to receive additional copies of the monthly circular letter, please inform the Secretariat accordingly.

Yours faithfully,


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

ANNEX I - Global Observing System

Date: February 1993

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

1. Publication No. 9, Volume A - Stations

1.1 New stations

Index No.	Name	Latitude	Longitude	Elevation		Pressure	Surface observations								Obs. H		Upper-air				Re- marks
				HP	H/HA		Levl	00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
93375	NAPIER	39°30'S	176°55'E	-	1		X	.	X	X	X	.	X	X			.	.	.	.

1.2 Deleted stations

Index No.	Name
93317	HAWERA

1.3 Changes to existing stations

Index No.	Name	Surface observations								Obs. H		Upper-air				Re- marks
		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18		
06151	OMOEO	X	X	X	X	X	X	X	X			RW	RW	RW	W	AUT
11952	POPRAD/GANOVCE	.	.	.	.	.	.	.	.			.	.	.	.
91943	TAKAROA	X	.	X	.	X	.	X	X	H14-06		.	.	W	.	
91945	HEREHERETUE	X	.	X	.	.	.	X	X	H18-24		W	.	.	.	
91948	RIKITEA	X	.	X	.	X	.	X	X	H14-06		.	.	W	.	
91954	TUBUAI	X	.	X	.	X	.	X	X	H14-06		.	.	W	.	

1.5 Temporary changes

- **Notification from Australia**

Reverting to normal programme of observing hours due to end of summer time:

Australian summer time will cease in New South Wales, the Australian Capital Territory, Victoria and South Australia at 1500 UTC on 6 March 1993 and in Tasmania at 1500 UTC on 27 March 1993.

Surface and upper-air observations in the above areas will revert to the normal programme upon the local cessation of summer time.

Queensland, Western Australia and the Northern Territory did not implement Australian summer time, therefore no changes will be made to the time of surface observations.

- **Notification from Bulgaria**

That due to financial difficulties 06 UTC RADIOSONDE/RADIOWIND observations are replaced by PILOT balloon ascents at station 15614 SOFIA as from 1 February 1993.

1.5 Temporary changes (continued)

- **Notification from Denmark**

That additional RADIOSONDE/RADIOWIND observations will be made at 06 and 18 UTC at station 04320 DANMARKSHAVN from 1 to 24 March 1993. TEMP reports will be transmitted over the GTS under the same headings as for 00 and 12 UTC soundings. These additional soundings are carried out on behalf of the University of Hamburg in connection with the ARKTIS 1993 experiment.

- **Notification from Norway**

That 00 UTC soundings have been resumed at upper air station 01152 BODO.

- **Notification from Portugal**

That due to temporary budgetary constraints at stations 08522 FUNCHAL and 08579 LISBOA/GAGO COUTINHO only 12 UTC RADIOSONDE/RADIOWIND observations are being carried out.

4. Automatic marine stations

4.1 Canada

Data from moored and drifting buoys are collected via geostationary 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 Terminals in Edmonton and Toronto and distributed on the GTS using the FM 18-IX DRIFTER code.

Legend - Observed or technical parameters

Column	Parameters	Column	Parameters
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Air pressure	7	Wave spectra
4	Pressure tendency	8	Peak wind gust

4.1.1 Moored Buoys

- North-east Pacific Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 5 January 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
46004	07180	50°56'N	135°52'W	X	X	X	X	X	X	X	X	.
46145	08676	54°23'N	132°26'W	X	X	X	X	X	X	X	X	.
46181	07185	53°49'N	128°51'W	X	X	X	X	X	X	X	X	.
46183	07192	53°37'N	131°06'W	X	X	X	X	X	X	X	X	.
46184*	07182	53°56'N	138°48'W	X	X	X	X	X	X	X	X	.
46185	07187	52°25'N	129°48'W	X	X	X	X	X	X	X	X	.
46204	07195	51°23'N	128°45'W	X	X	X	X	X	X	X	X	.
46205	07196	54°10'N	134°20'W	X	X	X	X	X	X	X	X	.
46206	07193	48°50'N	126°00'W	X	X	X	X	X	X	X	X	.
46207	08677	50°52'N	129°55'W	X	X	X	X	X	X	X	X	.
46208	07194	52°30'N	132°42'W	X	X	X	X	X	X	X	X	.
46036*	05324	48°18'N	133°51'W	X	X	X	X	X	X	X	X	.
46131	08678	49°54'N	124°59'W	X	X	X	X	X	X	X	X	.

4. Automatic marine stations (continued)

4.1 Canada (continued)

4.1.1 Moored Buoys (continued)

• North-west Atlantic Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 1 January 1993		Observed or technical parameters									
		Latitude	Longitude	1	2	3	4	5	6	7	8		
44131+	03479	46°03'N	60°42'W										
44137	05579	41°12'N	61°08'W	X	X	X	X	X	X	X	X	.	.
44138	05577	44°14'N	53°38'W	X	X	X	X	X	X	X	X	.	.
44139	03448	44°19'N	57°21'W	X	X	X	X	X	X	X	X	.	.
44140*	05576			.	.	X	X	X	X	X	X	.	.
44141	03449	42°04'N	56°09'W	X	X	X	X	X	X	X	X	.	.
44142	05578	42°28'N	64°15'W	.	X	X	X	X	X	X	X	.	.

• Great Lakes:

WMO buoy Identifier	ARGOS Identifier	Position: 1 January 1993		Observed or technical parameters									
		Latitude	Longitude	1	2	3	4	5	6	7	8		
45135#	N/A	44°42'N	75°32'W	X	X	X	X	X	X	X	X	.	.
45137#	N/A	45°20'N	80°02'W	X	X	X	X	X	X	X	X	.	.
45132#	N/A	42°06'N	83°07'W	X	X	X	X	X	X	X	X	.	.
45139+	N/A												
45136+	03477												
45138+	08249												
45141+	N/A												

4.1.2 Drifting Buoys

• North-east Pacific Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 6 January 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
46631	12510	52°12'N	155°00'W	.	X	X	X	X	.	.	.	X
46633	12512	48°36'N	148°36'W	.	X	X	X	X	.	.	.	X
46640	12519	51°54'N	171°06'W	.	X	X	X	X	.	.	.	X
46642	12521	47°18'N	161°18'W	.	X	X	X	X	.	.	.	X
46681	07135	50°18'N	179°54'W	.	X	X	X	X	.	.	.	X
46682	07136	42°12'N	137°18'W	.	X	X	X	X	.	.	.	X
46684	07137	39°18'N	127°36'W	.	X	.	X	X	.	.	.	X
46687	07138	32°36'N	156°48'W	.	X	X	X	X	.	.	.	X
46704	07128	30°06'N	140°24'W	.	X	X	X	X	.	.	.	X
46706	07130	28°48'N	142°06'W	.	X	X	X	X	.	.	.	X
46708	07132	57°24'N	141°18'W	.	X	X	X	X	.	.	.	X
46655**	07142	49°36'N	130°06'W	.	X	X	X	X	.	.	.	X
46656	07143	52°30'N	130°42'W	.	X	X	X	X	.	.	.	X
46657	07145	43°18'N	145°06'W	.	X	X	X	X	.	.	.	X
46699	07146	58°18'N	138°18'W	.	X	X	X	X	.	.	.	X

• Arctic Icepack:

WMO buoy Identifier	ARGOS Identifier	Position: 20 January 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
47532	05313	82°24'N	102°12'W	.	X	X	.	.	.	.	.	.
48526	05314	75°12'N	138°00'W	.	X	X	.	.	.	.	.	.
48567	01837	75°12'N	153°54'W	.	.	X	.	.	.	.	.	.
48568	07100	74°12'N	148°12'W	.	.	X	.	.	.	.	.	.

- + Removed from service for winter
- Buoy adrift
- ** Failed - last report 14 December 1992
- # Relocated for winter

4. Automatic marine stations (continued)

4.2 United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the March 1993 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 DRIFTER code.

Legend - Observed or technical parameters

Column	Parameters	Column	Parameters
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Air pressure	7	Wave spectra
4	Pressure tendency	8	Peak wind gust

4.2.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 18-25 February 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
32302		18.0 S	85.1 W	X	X	X			X	X		
41001**		34.9 N	73.0 W	X	X	X			X	X	X	
41002**		32.3 N	75.2 W	X	X	X			X	X	X	
41004		32.5 N	79.1 W	X	X	X			X	*	*	
41006**		29.3 N	77.4 W	X	X	X			X	X	X	
41009		28.5 N	80.2 W	X	X	X			X	X	X	
41010		28.9 N	78.5 W	X	X	X			X	X	X	
41016		24.6 N	76.5 W	X	X	X			X	X	X	
42001**		25.9 N	89.7 W	X	X	X			X	X	X	
42002**		25.9 N	93.6 W	X	X	X			X	X	X	
42003**		25.9 N	85.9 W	X	X	X			X	X	X	
42007		30.1 N	88.8 W	X	X	X			X	.	.	
42019		27.9 N	95.0 W	X	X	X			X	X	X	
42020		27.0 N	96.5 W	X	X	X			X	X	X	
42025		24.9 N	80.4 W	.	.	.			X	X	X	
44004**		38.5 N	70.7 W	X	X	X			X	X	X	
44005**		42.6 N	68.6 W	X	X	X			X	X	X	
44007**		43.5 N	70.1 W	X	X	X			X	X	X	
44008**		40.5 N	69.4 W	.	*	*			*	*	*	
44011**		41.1 N	66.6 W	*	*	*			*	*	*	
44013**		42.4 N	70.8 W	X	X	X			X	X	X	
44014		36.6 N	74.8 W	X	X	X			X	X	X	
44025		40.3 N	73.2 W	X	X	X			X	X	X	
45001**		48.0 N	87.8 W	X	X	X			X	X	X	
45002**		45.3 N	86.4 W	X	X	X			X	X	X	
45003**		45.3 N	82.7 W	X	X	X			X	X	X	
45004**		47.5 N	86.5 W	X	X	X			X	X	X	
45005**		41.7 N	82.4 W	X	X	X			X	X	X	
45006**		47.3 N	89.9 W	X	X	X			X	X	X	
45007**		42.7 N	87.1 W	X	X	X			X	X	X	
45008**		44.3 N	82.4 W	X	X	X			X	X	X	
46001**		56.3 N	148.2 W	X	X	X			X	X	X	
46002**		42.5 N	130.3 W	X	X	X			X	X	X	
46003**		51.9 N	155.9 W	*	*	*			*	*	*	
46005**		46.1 N	131.0 W	X	X	X			X	X	X	
46006**		40.9 N	137.5 W	X	X	X			X	X	X	

* Sensor/system failure

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

4. Automatic marine stations (continued)

4.2 United States of America

4.2.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 18-25 February 1993		Observed or technical parameters									
		Latitude	Longitude	1	2	3	4	5	6	7	8		
46012		37.4 N	122.7 W	X	X	X		X	X	X			
46013		38.2 N	123.3 W	X	X	X		X	X	X			
46014		39.2 N	124.0 W	*	*	*		*	*	*			
46022		40.7 N	124.5 W	X	X	X		X	X	X			
46023		34.3 N	120.7 W	X	X	X		X	X	X			
46025		33.7 N	119.1 W	X	X	X		X	X	X			
46026**		37.7 N	122.7 W	X	X	X		X	X	X			
46027**		41.8 N	124.4 W	*	X	X		X	X	X			
46028		35.8 N	121.9 W	X	X	X		*	*	*			
46029**		46.2 N	124.2 W	X	X	X		X	X	X			
46030**		40.4 N	124.5 W	X	X	X		X	X	X			
46035		57.0 N	177.7 W	*	X	X		X	X	X			
46041		47.4 N	124.5 W	X	X	X		X	X	X			
46042		36.8 N	122.4 W	X	X	X		*	X	X			
46045		33.8 N	118.4 W	X	X	X		X	X	X			
46047		32.7 N	119.6 W	X	X	X		X	X	X			
46048		32.9 N	117.9 W	X	X	X		X	X	X			
46050		44.6 N	124.5 W	X	X	X		X	X	X			
46051		34.5 N	120.7 W	X	X	X		X	X	X			
51001**		23.4 N	162.3 W	X	X	X		X	X	X			
51002**		17.2 N	157.8 W	X	X	X		X	X	X			
51003**		19.3 N	160.8 W	X	X	X		X	X	X			
51004**		17.4 N	152.5 W	X	X	X		X	X	X			
51026		21.4 N	157.0 W	X	X	X		X	X	X			
52009		13.7 N	144.7 E	X	*	X		X	X	X			

4.2.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 22-24 February 1993		Observed or technical parameters									
		Latitude	Longitude	1	2	3	4	5	6	7	8		
16809	12314	40 °S	096 °E	X	X	*		X	X	X	X		
16810	12309	57 °S	130 °E	X	X	*		X	X	X	X		
17809	5125	33 °S	056 °E	X	X	X		X	X	X	X		
17814	1968	48 °S	139 °E	X	X	X		X	X	X	X		
17825	5129	35 °S	077 °E	X	X	X		X	X	X	X		
33510	12308	22 °S	099 °E	X	X	X		X	X	X	X		
33831	1967	36 °S	051 °E	X	X	X		*	X	X	X		
53823	5131	08 °S	114 °E	X	*	X		*	X	X	X		
54801	1973	32 °S	151 °W	X	X	X		X	X	X	X		
54802	1993	35 °S	142 °W	*	X	X		X	X	X	Y		
54803	1975	44 °S	149 °W	X	X	X		X	X	X	X		
54804	1970	44 °S	144 °W	X	X	X		X	X	X	X		
54805	1985	43 °S	154 °W	X	X	X		X	X	X	X		
54838	8823	40 °S	119 °W	X	X	X		X	X	X	X		
54843	5134	47 °S	088 °W	X	X	X		X	X	X	X		
54846	1969	43 °S	150 °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.

4. Automatic marine stations (continued)4.2 United States of America (continued)4.2.2 Moored Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 22-24 February 1993		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
56801	5130	20 °S	059 °E	X	X	X		X	X	X	X
56802	5119	08 °S	102 °E	X	X	X		X	X	X	X
56803	1994	20 °S	091 °E	X	X	X		X	X	X	X
56835	12291	30 °S	062 °E	X	X	X		X	X	X	X
56836	12293	23 °S	086 °E	X	X	X		X	X	X	X
56837	5116	06 °S	107 °E	X	*	X		•	X	X	X
56839	5124	19 °S	056 °E	X	X	X		X	X	X	X
56840	12292	55 °S	159 °E	X	*	X		X	X	X	X

4.3 France

Data from drifting buoys are collected by the ARGOS system. They are distributed on the GTS in DRIFTER code, either from CLS/ARGOS in Toulouse (heading SSVX01 LFPW), or from the Centre de Météorologie Marine in Brest (headings SSVX51 and SSVX55 LFPW).

Legend - Observed or technical parameters

<u>Column</u>	<u>Parameters</u>	<u>Column</u>	<u>Parameters</u>
1	Wind direction and speed	6	Wave period and height
2	Air temperature	7	Wave spectra
3	Air pressure	8	Peak wind gust
4	Pressure tendency	9	Subsurface temperatures
5	Sea-surface temperature		

4.3.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 21 February 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	9
52571	02684	1°23 'S	174°45 'E	.	.	.	.	X	.	.	.	*
52575	17618	2°22 'S	167°47 'E	.	.	.	.	X	.	.	.	X
52576	17623	7°53 'N	157°19 'E	.	.	.	.	X	.	.	.	X
52577	17624	7°51 'N	157°17 'E	.	.	.	.	X	.	.	.	X
52578	17625	1°23 'S	156°46 'E	.	.	.	.	X	.	.	.	X
52579	17629	1°30 'S	163°06 'E	.	.	.	.	X	.	.	.	X
52580	17619	6°29 'N	157°16 'E	.	.	.	.	X	.	.	.	X
52581	17620	1°57 'S	158°01 'E	.	.	.	.	•	.	.	.	•
52582	17627	2°28 'S	163°40 'E	.	.	.	.	X	.	.	.	X
52583	17621	2°23 'S	155°12 'E	.	.	.	.	X	.	.	.	X
52584	17626	2°54 'N	149°53 'E	.	.	.	.	X	.	.	.	X
52585	17628	3°49 'S	164°00 'E	.	.	.	.	X	.	.	.	X
52586	02683	2°15 'S	156°45 'E	.	.	.	.	X	.	.	.	X
52587	02688	3°46 'N	155°02 'E	.	.	.	.	X	.	.	.	X
52588	02690	4°08 'N	153°17 'E	.	.	.	.	X	.	.	.	X
52884	15500	1°38 'S	155°08 'E	X	.	X	.	X	.	.	.	X
52885	14414	3°30 'S	164°26 'E	X	.	X	.	X	.	.	.	X
52886	14415	3°19 'S	158°29 'E	X	.	X	.	*	.	.	.	*
52887	14416	3°44 'S	164°43 'E	X	.	X	.	X	.	.	.	•
52889	02678	9°50 'N	171°17 'W	.	.	.	.	X	.	.	.	X

* Sensor/system failure

4. Automatic marine stations (continued)4.3 *France*4.3.2 *Drifting Buoys*

WMO buoy Identifier	ARGOS Identifier	Position: 21 February 1993		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	9
52890	02679	11°17 'N	167°39 'W	.	.	.	.	X	.	.	.	X
52891	02676	1°20 'S	172°13 'E	.	.	.	.	X	.	.	.	X
52893	02680	3°49 'S	177°22 'E	.	.	.	.	X	.	.	.	X
62501	10115	33°00 'N	16°11 'W	.	.	.	*	*	.	.	.	.
62503	05834	43°59 'N	14°23 'W	.	.	X	X	X	.	.	.	X
62504	05825	39°51 'N	12°40 'W	.	.	X	X	X	.	.	.	.
62506	10119	28°00 'N	26°17 'W	.	.	.	.	.	.	.	.	.
62507	05794	45°02 'N	8°57 'W	.	.	X	X	X	.	.	.	.
62508	15499	30°45 'N	27°27 'W	X	.	X	.	X	.	.	.	X
62511	01354	45°35 'N	11°08 'W	.	.	X	.	X	.	.	.	.
62513	01356	46°23 'N	4°52 'W	.	.	X	.	X	.	.	.	.
62515	10109	46°34 'N	4°49 'W	*	.	*	.	*	.	.	.	.
62516	10107	47°47 'N	15°38 'W	.	.	X	X	X	.	.	.	.
62517	10108	48°21 'N	13°24 'W	.	.	X	X	X	.	.	.	.
62518	10113	45°53 'N	14°04 'W	X	.	X	X	X	.	.	.	.

* Sensor/system failure

5. ARGOS service5.1 *ARGOS monthly status report*

As at 1 February 1993 the ARGOS service was handling reports from 1027 drifting buoys, 264 moored buoys, 124 balloons, 25 ships, 159 animal trackings, 429 fixed stations, 78 boats and 72 miscellaneous platforms. DRIFTER reports from 98 drifting buoys and BATHY reports from 21 selected ships were transmitted to the RTH Paris and DRIFTER reports from 503 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:

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
Australia	52621	02937
	55512	00416
	55513	00421
	55515	00415
	55516	00417
	56504	08036
	56506	04875
	56507	04876
	56509	02938
	56510	02939
	GYRW*	09197
	GYSA*	09189
	S6FK*	09193
	VJBQ*	09192
VJDP*	09198	

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
Canada	21551	01333
	21553	01332
	46004	07180
	46184	07182
	46651	01318
	48529	11252
	48550	11251
	71091	05895
	France	22522	17619
	52885	14414
	62503	05834
	62504	05825
	62501	10115
	62507	05794
	62515	10109
	C6HL8	04716

* PTT's transmitting at irregular intervals

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier	Operating country	WMO Identifier/ Call sign	ARGOS Identifier	
France (continued)	C6IO5	04722	New Zealand	55580	06439	
	ELIL9	04719		55583	07179	
	ELIS8	04705		55585	07177	
	FHZI*	08743		55586	07176	
	FNCM*	04721		55587	08584	
	FNCZ*	08744		55588	08585	
	FNDK*	08748		55589	08586	
	FNGS*	04707				
	FNJT*	04724		Norway	17001	01591
	FNOM*	04701			25561	01556
	FNZO*	04717			26531	01791
	FPYO*	04729			26532	01790
	GQEK*	04708			44766	03675
	HPEW*	04703			63006	09400
ZDAZ6	04714	65591	06666			
		71003	09498			
		71004	09499			
		74002	09497			
Germany	48602	11241	Republic of Korea		22605	11011
	63662	09360			22606	11012
	63663	09372			22607	11013
	71042	03317				
	71524	03315		South Africa**	17520	03514
	71551	09357			17521	00953
	71552	09358			17541	03522
	71553	09359			17543	03519
	71554	09366			17544	03523
	71555	09367			17545	03524
	71556	09368			17546	03518
	71557	09369			17547	03521
					17548	03520
					17549	00945
		17550	00946			
		17551	00954			
		17552	00947			
		33021	09222			
		33022	03513			
Italy	63901	08335	United Kingdom	25562	01639	
	63903	15910		44762	01253	
	63904	15919		44764	01254	
	63905	15888		44765	01255	
	63908	15923		44767	04036	
	64629	15902		44768	06288	
	64630	15903		44770	06287	
	64631	15904		62601	08336	
	64634	15912				
	64635	15915				
	64901	08330				
	64903	08334				
	64905	08633				
	64907	08638				
64908	08639					
64913	14384					
64915	14386					
64916	14387					
Netherlands	65595	06669				

* 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

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United Kingdom (continued)	62602	03909
	62605	03907
	62606	03916
	62697	01261
United States of America	62805	06285
	64043	06270
	12502	15342
	12503	16340
	12504	06186
	12505	06095
	12917+	02072
	13003	06865
	13004	06869
	13005	06873
	13509	16353
	13902	14456
	13903	01763
	13904	14445
	13905	14447
	13906	05919
	13907	14461
	13909	08598
	13910	14464
	13911	14448
	13912	14439
	13913	14450
	13914	14452
	13915	14453
	13917	02072
	13919	14442
	13920	14443
	13922	02005
	13923	02006
	13924	14436
13925	14438	
13926	02070	
13927	02073	
14464+	14464	
15103+	15103	
16807	05133	
16809	12314	
16810	12309	
17809	05125	
17812	01981	
17814	01968	
17815	01965	
17825	05129	
21431	02875	
21432	14974	
21433	15588	
21434	15591	
21436	00509	
21437	00513	
21438+	01785	

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	21524	16331
	21525	16332
	21526	01535
	21528	01536
	21534+	16336
	21535	16337
	21572	01151
	21573	04648
	21574	16338
	21575	16339
	21577	06816
	21579	01377
	21901	15537
	21902	15536
	21904	14981
21905	00499	
21906	00501	
21907	00502	
21908	15572	
21909	16191	
21910	16192	
21911	16194	
21912	16213	
21913	16214	
21914	14972	
21915	15574	
21916	00515	
21917	16193	
21918	16210	
21919	16212	
21920	15583	
21921	15584	
21922	15586	
21923	14980	
21924	15585	
21925	02399	
21926	15587	
21927	16209	
21928	16257	
21929	01780	
21930	02396	
22902	00508	
22904	00531	
22905	00519	
22907	00521	
32512	11920	
32513	11917	
32514	11948	
32515	15648	
32516	11927	
32517	15093	
32518	15091	
32519	11952	
32520	15649	
32521	15651	
32522	15598	

* PTTs which were removed from GTS during the month

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	32524	15695
	32525	11953
	32526	15696
	32527	02398
	32529	15028
	32531	15011
	32533	15017
	32534	15018
	32535	15025
	32536	15026
	32537	03225
	32538	15602
	32539	02884
	32540	11904
	32541	15595
	32542	15596
	32543	03567
	32544	11908
	32545	15679
	32546	02885
	32547	15597
	32548	15599
	32549	11163
	32550	04200
	32551	15600
	32552	11195
	32553	15603
	32554	04201
	32555	15625
	32556	11934
	32557	15626
	32558	09276
	32559	15627
	32560	03252
	32901	03565
	32902	15045
	32903	15050
	32904	15128
	32905	15684
	32906	15685
	32907	04203
	32908	15687
	32909	04204
	32910	15540
	32911	15541
	32912	15542
	32913	15546
	32914	03568
	32915	15048
	32916	15545
	33510	12308
	33831	01967

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	34901	15123
	34902	15125
	41502	16307
	41503	16344
	41504	16345
	41505	16342
	41506	15344
	41520	15345
	41521	15347
	41522	01125
	41523	01128
	41524	15348
	41525	15349
	41901	12326
	41902	08594
	41903	08596
	41904	08599
	41906	12333
	41907	12329
	41908	12339
	41909	02007
	41910	12324
	41911	12325
	41912	02008
	41913	12330
	41914	12334
	41915	12328
	41916	12327
	41917	12337
	41918	12338
	41919	01861
	41920	01863
	41921	03045
	42026	00937
	42027	00930
	42028	00932
	42029	00934
	42030	00931
	42031	00936
	42032	00933
	42033	00935
	42501	02447
	42520	01378
	42522	15330
	43503	15656
	43504	11198
	43505	15657
	43508	15008
	44505+	09169
	44507+	09175
	44508	02579
	44514	04646

+ PTTs which were removed from GTS during the month

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	44515	01149
	44516	06823
	44517+	06824
	44567	01376
	44903	12323
	44905	12335
	44906	12332
	44907	01866
	44908	01867
	46508	01146
	46509	04649
	46510	16360
	46512	16363
	46513	16364
	46514	16365
	46515	16375
	46521	14318
	46532+	15615
	46533	15619
	46535	02009
	46536	15609
	46537	15612
	46538	15579
	46539	15622
	46540	15577
	46541	15643
	46545	15589
	46547	15070
	46548	15580
	46549	15076
	46550	01135
	46901	15655
	46902	15563
	46903	15566
	46904	15573
	46905	15581
	46906	15582
	46907	15578
	46908	02889
	46909	01766
	46911	17232
	46912	17233
	47601	12823
	48520	12801
	48555	12806
	48557	12808
	48558	12821
	48559	12822
	48560	12824
	48562	12826
	48564	12828
	48565	12829

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51025	12878
	51501	16366
	51502	16325
	51503	16326
	51504	16327
	51506	16367
	51507	16368
	51508	16369
	51509	16370
	51510	15042
	51511	03376
	51512	15089
	51514	02433
	51515	14432
	51516	11949
	51517	03377
	51518	15077
	51519	02437
	51520	03117
	51801	14433
	51802	02434
	51803	03049
	51804	14434
	51805	15106
	51806	03378
	51807	03379
	51808	02435
	51809	14435
	51810	11956
	51811	15653
	51812	15654
	51814	11946
	51815	03222
	51816	01762
	51817	15617
	51818	03467
	51819	01784
	51820	03468
	51821	11690
	51822	03570
	51823	03223
	51824	02436
	51825	03116
	51826	03119
	51827	03572
	51828	15015
	51829	01772
	51830	15088
	51831	02074
	51832	11955
	51834	11957
	51835	09271

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

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51836	09270
	51838	03170
	51839	03173
	51840	15090
	51841	11950
	51843	03375
	51844	11681
	51845	15107
	51846	11692
	51847	15027
	51848	15009
	51849	03466
	51850	15608
	51851	03569
	51856	15082
	51858	15611
	51861	15099
	51862	11670
	51865	15638
	51866	15644
	51867	15645
	51869	11674
	51870	11679
	51871	15646
	51872	11696
	51878	15072
	51880	15078
	51881	15080
	51883	15083
	51885	15086
	51901	15658
	51902	15671
	51903	15672
	51905	15674
	52506	15031
	52507	15037
	52508	15104
	52510	11939
	52511	16199
	52512	15023
	52513	15661
	52515	15041
	52517	15390
	52518	15114
	52522	01143
	52523	01144
	52524	01145
	52616	15021
	52801	15035
	52802	15552
	52803	15029
	52804	16202

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	52805	15012
	52807	09278
	52808	15666
	52809	15016
	52810	15701
	52811	16206
	52812	15126
	52813	15103
	52814	15659
	52815	15660
	52816	15550
	52817	15553
	52818	15670
	52826	15668
	52827	16200
	52828	15669
	52829	01208
	52830	16196
	52831	16204
	52832	15554
	52833	01215
	52834	16195
	52835	15548
	52836	15549
	52837	16198
	52838	15556
	52839	16203
	52840	03046
	52841	16205
	52842	16253
	52843	15558
	52844	15559
	52845	15561
	52846	15391
	52847	15392
	52848	15560
	52849	16211
	52850	16236
	52851	16238
	52852	16239
	52872	11890
	52928+	15692
	53801	00503
	53803	00517
	53823	05131
	54801+	01973
	54802	01993
	54803	01975
	54804	01970
	54805	01985
	54838	08823
	54843	05134

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

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier	Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	54844	05123	United States of America (continued)	62901	15569
	54846	01969		62902	15570
	54901	15049		62903	15571
	54902	15115		62904	01862
	54903	15118		62905	01864
	54904	15020		62906	08590
	54905	15024		62907	08591
	54906	15539		62908	01868
	54907	15044		62909	01869
	54908	15129		62910	01865
	54909	15120		64429	01860
	54910	15033		64584	02127
	54911	15036			
	54912	15101			
	54913	15112			
	54914	15119			
	54915	15678			
	54916	15630			
	54917	15631			
	54918	15632			
	54919	15634			
	54921	15675			
	54922	15682			
	54923	15683			
	54924	15693			
	54925	15694			
	54926	15676			
	54927	15538			
	54928	15692			
	54929	15681			
	54930	15690			
	54931	15543			
	54932	15547			
54933	15544				
54934	15680				
55601	01123				
55901	15557				
56801	05130				
56802	05119				
56835	12291				
56836	12293				
56837	05116				
56838	12294				
56839	05124				
56840	12292				
61534	06812				
61538	16374				
61539	16343				
62426	02078				
62427	02079				
62428	02401				
62429	02892				
62430	02002				
62673	01131				
62674	01132				
62675	01129				
			ATLAS BUOYS	32315	06461
				32316	11117
				32317	11118
				32318	12522
				32319	06371
				32320	11121
				32321	11120
				32322	11119
				43001	11116
				51006	04597
				51007	06369
				51009	00989
				51010	04591
				51014	04595
				51015	01114
				51017	00992
				51018	00991
				51019	00786
				51020	00988
				51021	04594
				51022	06370
				51301	06380
				51302	04593
				51303	06474
				51304	00789
				51305	00791
				51306	00793
				51307	06375
				51308	00990
				51309	00792
				51310	00790
				52001	15813
				52002	06476
				52003	15815
				52006	06519
				52007	00773
				52008	06472
				52010	06798
				52011	12524
				52012	12525

5.1 ARGOS monthly status report (continued)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
ATLAS	52301	00776
BUOYS	52302	00777
(continued)	52303	00772
	52304	00775

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
ATLAS	52305	00771
BUOYS	52307	00774
(continued)	52308	06521

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 (see Appendix, pages 1 and 2) 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 II - Global Data-processing System

Date: February 1993

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

2. RSMC output products

2.1 *Changes to products*

- **Notification from RSMC Offenbach**

The new catalogue of products available in GRID and GRIB code form is attached at the end of this Annex. Potential users are asked to communicate their requirements to RSMC Offenbach who will try to arrange for transmission of the required data within two months.

4. List of radiosonde stations for verification of NWP

- **Notification from RSMC ECMWF**

Updates to the lists of radiosonde stations to be used in the standardised verification of operational numerical weather prediction products. The complete lists with updates are as follows. The new lists should be implemented as soon as possible, preferably before the computation of the standard scores for April 1993.

Changes in respect of previous list		UPDATED LIST			
REMOVED	ADDED				
ASIA (25°N-65°N, 60°E-145°E)					
30692 (few/no reports)	30054	23552	32150	50557	54662
31300 (few/no reports)	30673	23884	35394	50774	54823
31909 (suspect stations - height)	31088	23921	35746	50953	54857
36870 (suspect stations - height)	31369	23933	35796	51076	55299
38613 (few/no reports)	38353	23955	36177	51431	55591
44212 (few/no reports)	38954	24507	38062	51463	56029
54135 (suspect stations - wind)	47122	24688	38341	51644	56080
54497 (suspect stations - wind)	51431	24817	38353	51709	56137
57083 (suspect stations - height)	55591	24908	38457	51777	56146
57516 (suspect stations - height)		24959	38687	51828	56294
57679 (suspect stations - height)		28275	38836	51848	56571
57993 (suspect stations - height)		28440	38954	52203	56691
58367 (few/no reports)		28698	47041	52267	56739
58666 (few/no reports)		29231	47122	52323	56778
		29282	- 47138	52418	57036
		29574	47158	52533	57127
		29612	47185	52681	57178
		29634	47401	52818	57447
		29698	47412	52836	57461
		30054	47580	52866	57494
		30230	47582	52889	57749
		30554	47590	53068	57816
		30673	47600	53463	57957
		30715	47646	53513	57972
		30758	47678	53614	58027
		30935	47681	53772	58150
		30965	47744	53845	58203
		31004	47778	53915	58238
		31088	47807	54102	58424
		31329	47827	54161	58457
		31369	47909	54218	58606
		31735	47936	54292	58633
		31873	47945	54342	58725
		31960	47971	54374	58847
		32061	50527	54511	58968

4. List of radiosonde stations for verification of NWP (continued)• *Notification from ECMWF (continued)*

Changes in respect of previous list		UPDATED LIST			
REMOVED	ADDED				
AUSTRALIA/NEW ZEALAND (55°S-10°S, 90°E-180°E)					
—	94175	91557	94294	94527	94776
		91592	94299	94578	94802
		91680	94302	94610	94821
		93012	94312	94637	94865
		93417	94326	94638	94910
		93844	94332	94646	94975
		93944	94380	94659	94995
		94120	94403	94672	94996
		94150	94461	94711	94998
		94175	94510	94750	96996
		94203			
EUROPE (25°N-70°N, 10°W-28°E)					
03170 (few/no reports)	02465	01152	03953	08579	15614
03774 (few/no reports)	03240	01241	06011	10035	16044
09184 (few/no reports)	03882	01384	06181	10184	16080
09393 (few/no reports)	10184	01415	06260	10338	16144
09486 (few/no reports)	10393	02185	06447	10384	16245
09548 (few/no reports)	10486	02365	06476	10393	16320
12330 (few/no reports)	10548	02465	06610	10410	16429
12982 (suspect stations - height)		02527	07110	10486	16560
13130 (few/no reports)		02591	07145	10548	16754
26258 (few/no reports)		02836	07180	10739	26038
		02935	07481	10868	26629
		02963	07510	11035	26850
		03005	07645	11520	33008
		03026	07761	11952	33631
		03240	08001	12120	60390
		03322	08023	12374	60715
		03496	08221	12425	62010
		03808	08301	12843	
		03882	08430	13275	
		03920	08495	15120	

4. List of radiosonde stations for verification of NWP (continued)

• Notification from ECMWF (continued)

Changes in respect of previous list		UPDATED LIST			
REMOVED	ADDED				
NORTH AMERICA (25°N-60°N, 145°W-50°W)					
71848 (few/no reports)	71603	70361	72208	72363	72583
72220 (few/no reports)	71845	70398	72210	72365	72597
72486 (suspect stations - height)	72214	71109	72213	72374	72606
	72357	71115	72214	72387	72637
		71119	72229	72393	72645
		71600	72233	72402	72654
		71603	72235	72403	72655
		71722	72240	72407	72662
		71801	72247	72425	72681
		71811	72250	72429	72694
		71815	72251	72435	72712
		71816	72260	72451	72734
		71823	72261	72456	72747
		71836	72265	72469	72764
		71845	72270	72476	72768
		71867	72274	72493	72775
		71896	72293	72518	72785
		71906	72304	72520	72797
		71907	72311	72528	74494
		71913	72317	72532	74794
		71934	72327	72553	76225
		71945	72340	72562	76394
		72201	72349	72572	78016
		72203	72357	72576	78073
TROPICS (20°S-20°N)					
08594 (suspect stations - height)	41114	41114	64910	84008	91925
41344 (few/no reports)	48601	48601	65578	84628	91938
59981 (suspect stations - height)	48615	48615	67083	85201	91943
63894 (few/no reports)	48657	48648	67237	91217	91944
64500 (few/no reports)	48855	48657	67964	91245	94035
67341 (outside area 20°S-20°N)	64700	48698	76679	91285	94120
78641 (few/no reports)	78397	48855	78397	91334	94150
80241 (few/no reports)	78583	61052	78526	91348	94175
82332 (suspect stations - height)	78866	61223	78583	91366	94203
91765 (suspect stations - height)	78897	61291	78762	91376	94294
91843 (outside area 20°S-20°N)	78954	61641	78806	91408	94299
91941 (few/no reports)	84008	61901	78866	91413	96315
96163 (suspect stations - height and wind)	91413	61902	78897	91492	96413
97560 (suspect stations - height)	91517	61967	78954	91517	96441
98327 (few/no reports)	94150	61976	78970	91557	96471
	94175	63450	78988	91610	96481
	94294	63741	80222	91643	96935
	96413	63985	82193	91680	96996
	96441	64700	82400	91801	
	96471				
	96481				

Note: 'few/no reports' refers to data reception at ECMWF; in some cases the stations have closed (e.g. 03774).

PRODUCTS AVAILABLE FROM RSMC OFFENBACHGlobal Model

Heading Format:	T ₁ T ₂ A ₁ A ₂ ii EDZW
Code (T1):	GRID (T1 = D)
Data times:	00 UTC, 12 UTC (Additional analysis: 06, 18 UTC)
Available about:	6.45 UTC, 18.45 UTC
Elements (T2) and Levels (ii)	<p>Sea level pressure: (T2 = P; ii = 98) 2 m temperature: (T2 = T; ii = 98) Sea surface temperature: (T2 = Z; ii = 98) Wind components (10 m): (T2 = U, V; ii = 98)</p> <p>Height (T2 = H), Temperature (T2 = T), Wind-components (T2 = U, V); (ii = 85,70,50,30,25,20,10,05)</p> <p>Relative Humidity: (T2 = R; ii = 85,70,50) Vertical Velocity: (T2 = O; ii = 70,50) Accumulated precipitation: (T2 = E; ii = 98)</p> <p>Additional: Vorticity advection (500 hPa): (T2 = M; ii = 50) Temperature advection (500/1000): (T2 = D; ii = 95) Potential equivalent-temp.: (T2 = Q; ii = 85) Stability index: (T2 = X; ii = 95)</p>
Latitude/longitude grid:	0° W - 90° W, 90° N - 30° N: (A1 = A) 90° W - 180° W, " : (A1 = B) 180° E - 90° E, " : (A1 = C) 90° E - 0° E, " : (A1 = D)
Resolution: 2.5° x 2.5°	0° W - 90° W, 30° N - 30° S : (A1 = E) 90° W - 180° W, " : (A1 = F) 180° E - 90° E, " : (A1 = G) 90° E - 0° E, " : (A1 = H)
Area (A1): 12 Areas (A - L)	0° W - 90° W, 90° S - 30° S : (A1 = I) 90° W - 180° W, " : (A1 = J) 180° E - 90° E, " : (A1 = K) 90° E - 0° E, " : (A1 = L)
Available times (A2):	All elements: T + 00 h - T + 48 h (Δt = 6 h): (A2: A, B, C, D, E, F, G, H, I) T + 60 h - T + 168 h (Δt = 12 h): (A2: J, K, L, M, N, O, P, Q, R, S)
Note:	T + 00 h = Analysis or initialised analysis ii = 98 Δ 10 m wind, 2 m temperature or sfc/msl values ii = 85, ... Δ 850 hPa, ...

PRODUCTS AVAILABLE FROM RSMC OFFENBACHGlobal Model

Heading format:	T₁ T₂ A₂ A₁ ii EDZW
Code (T₁):	GRIB (T₁ = H)
Data times:	00 UTC, 12 UTC (Additional analysis: 06, 18 UTC)
Available about:	6.45 UTC, 18.45 UTC
Elements (T₂) and Levels (ii)	<p>Sea level pressure (T₂ = P; ii = 98) 2 m temperature (T₂ = T; ii = 98) Sea surface temperature (T₂ = Z; ii = 98) Wind components (10 m) (T₂ = U, V; ii = 98)</p> <p>Height (T₂ = H), Temperature (T₂ = T), Wind-components (T₂ = U, V); (ii = 85,70,50,30,25,20,10,05)</p> <p>Relative Humidity: (T₂ = R; ii = 85,70,50) Vertical Velocity: (T₂ = O; ii = 70,50) Accumulated precipitation: (T₂ = E; ii = 98)</p> <p>Additional: Vorticity advection (500 hPa): (T₂ = M; ii = 50) Temperature advection(500/1000): (T₂ = D; ii = 95) Potential equivalent-temp.: (T₂ = Q; ii = 85) Stability index: (T₂ = X; ii = 95)</p>
Latitude/longitude grid:	<p>0 - 90 ° W: Northern Hemisphere (A₁ = A) 90-180 ° W: " " (A₁ = B) 180 - 90° E: " " (A₁ = C) 90 - 0° E: " " (A₁ = D)</p> <p>0 - 90° W: Southern Hemisphere (A₁ = I) 90 - 180° W: " " (A₁ = J) 180 - 90° E: " " (A₁ = K) 90 - 0° E: " " (A₁ = L)</p>
Resolution: 1.5° x 1.5°	
Area (A₁): 8 Areas	
Available times (A₂):	<p>All elements: T + 00 h - T + 48 h (Δt = 6 h); (A₂: A, B, C, D, E, F, G, H, I) T + 60 h - T + 168 h (Δt = 12 h) (A₂: J, K, L, M, N, O, P, Q, R, S)</p>
Note:	<p>T + 00 h = Analysis or initialised analysis ii = 98 ▲ 10 m wind, 2 m temperature or sfc/msl values ii = 85, ... ▲ 850 hPa, ...</p>

PRODUCTS AVAILABLE FROM RSMC OFFENBACHEuropean Model

Heading format:	T ₁ T ₂ A ₁ A ₂ ii EDZW																																																																						
Code (T₁)	GRID (T ₁ = D)																																																																						
Data times:	00 UTC, 12 UTC (Additional analysis: 06, 18 UTC)																																																																						
Available about:	5.40 UTC, 17.40 UTC																																																																						
Elements (T₂) and Levels (ii)	<p>Sea level pressure: (T₂ = P; ii = 98) 2 m temperature: (T₂ = T; ii = 98) Sea surface temperature: (T₂ = Z ; ii = 98) Wind components (10 m): (T₂ = U, V; ii = 98)</p> <p>Height (T₂ = H), Temperature (T₂ = T), Wind-components (T₂ = U, V); (ii = 85,70,50,30,25,20,10,05)</p> <p>Relative Humidity: (T₂ = R; ii = 85,70,50) Vertical Velocity: (T₂ = O; ii = 70,50) Accumulated precipitation: (T₂ = E; ii = 98)</p> <p>Additional: Potential equivalent-temp.: (T₂ = Q ; ii = 85) Stability index: (T₂ = X ; ii = 95) Maximum wind speed 10 m during previous 6h: (T₂ = W; ii = 98)</p>																																																																						
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PRODUCTS AVAILABLE FROM RSMC OFFENBACHEuropean Model

Heading format:	T ₁ T ₂ A ₁ A ₂ ii EDZW																																											
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ANNEX III - Global Telecommunication System

Date: February 1993

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

- ***Notification from Japan***

- II-ii TOKYO (JMG) RTT broadcast effective 5.11.92 new schedule
- II-iii TOKYO (JMH) radio-facsimile broadcast effective 1.10.92 new schedule.

- ***Notification from Germany***

- VI-iii OFFENBACH (MAIN)/MAINFLINGEN (DCF54) radio-facsimile broadcast effective 08.02.93 changes as follows:
 - Replace 'GMV' by 'EMV' in the content of charts No. 9, 12, 14, 53, 56 and 58
 - Delete 'Divergence Q 700 hPa resp.' in the content of charts No. 12 and 56.
 - Replace under 'Note 1' 'GMV' by 'EMV European model preliminary run (20 levels, 50 km)'

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

Date: February 1993

C. Information on the operation of Marine Meteorological Services

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

1.3 Changes in schedules/technical specifications

- **Notification from Japan**

Aij-II TOKYO (JMH) radio-facsimile broadcast effective 1.10.92 new schedule.

- **Notification from Germany**

Aij-VI OFFENBACH (MAIN)/MAINFLINGEN (DCF54) radio-facsimile broadcast effective 08.02.93 changes as follows:

- Replace 'GMV' by 'EMV' in the content of charts No. 9, 12, 14, 53, 56 and 58
- Delete 'Divergence Q 700 hPa resp.' in the content of charts No. 12 and 56.
- Replace under 'Note 1' 'GMV' by 'EMV European model preliminary run (20 levels, 50 km)'

Aij-VI OFFENBACH (MAIN)-HAMBURG/PINNEBERG (DDH3/DDK3/DDK6) radio-facsimile broadcast effective 08.02.93 changes as follows:

- Replace 'GMV' by 'EMV' in the content of chart PPME98 EDZW at 0520 and 1720 UTC.
- Replace under 'Note' 'GMV' by 'EMV European model preliminary run (20 levels, 50 km)'