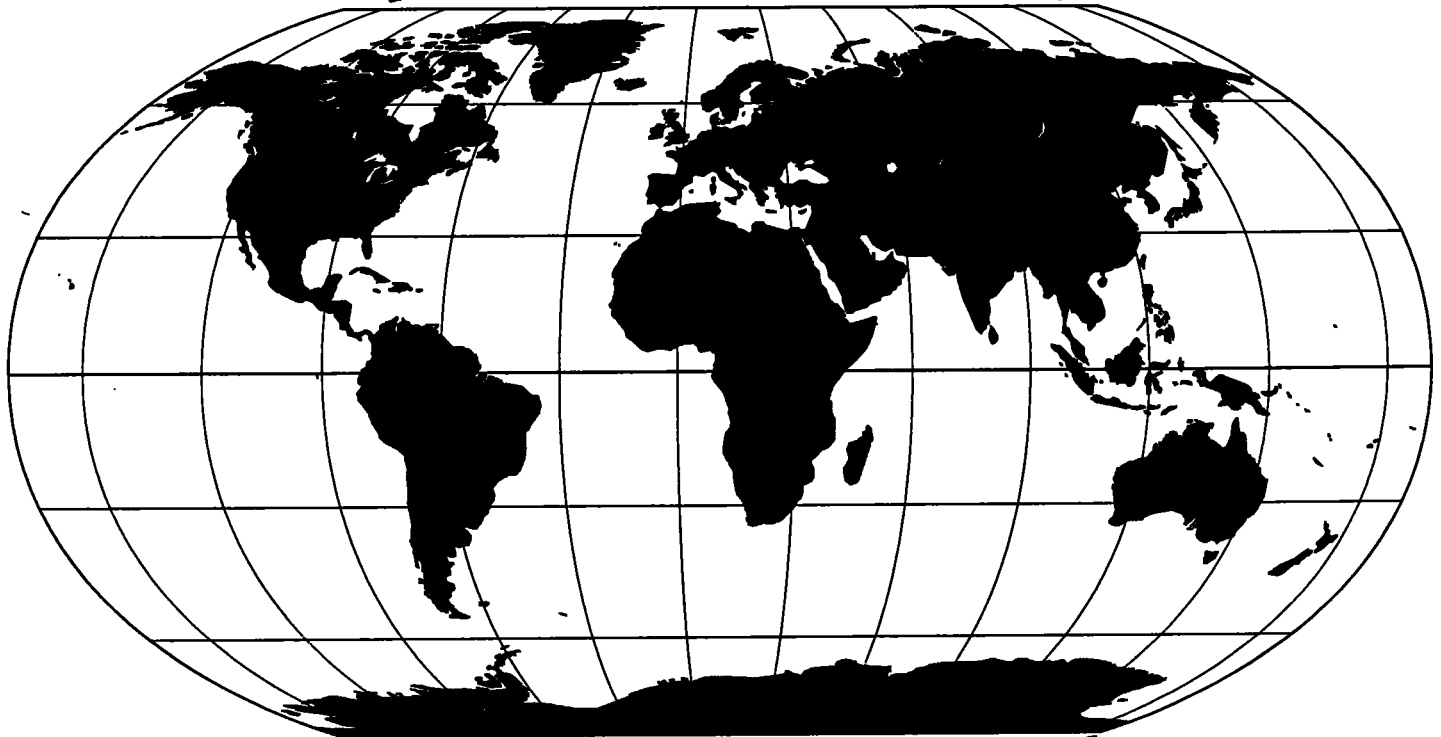


OPERATIONAL *newsletter*

Volume 1994 — No. 6

WORLD WEATHER WATCH



MARINE METEOROLOGICAL SERVICES



World Meteorological Organization
GENEVA

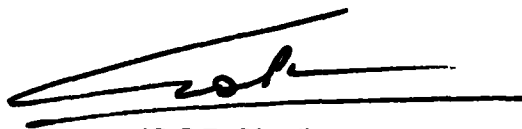
The WMO Secretariat would like to express its appreciation to all those who have contributed material to the "Operational Newsletter". ■

Foreword

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 we have created the "OPERATIONAL NEWSLETTER" to provide you with the latest operational information on WWW and MMS.

A special table is included in the "OPERATIONAL NEWSLETTER" in Annex I - *Global Observing System* to assist Members in reporting changes in the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations.

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated.



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

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ORDER FORM

Annex I

GLOBAL OBSERVING SYSTEM

A. GOS REGULATORY OR GUIDANCE MATERIAL

3. Guidance material on instruments and observing methods

3.1 WMO Catalogue of radiosondes and upper-air wind systems in use by Members

See pages 15-19 attached at the end of Annex I.

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 Level	Surface observations								Obs. H Obs. S	Upper-air				Re- marks
				HP	H/HA		00	03	06	09	12	15	18	21		00	06	12	18	
Region V - Papua New Guinea																				
94010	Goroka	06° 04 'S	145° 23 'E	-	1587		.	.	.	.	.	.	.	.	H20-08	.	.	.	.
94013	Orobiga	05° 47 'S	140° 20 'E	-	1480		.	.	.	.	.	.	.	.		.	.	.	.
94017	Ambunti	04° 13 'S	142° 49 'E	-	10		23	02	05	08	.	.	.	20		.	.	.	.
94023	Bulolo	07° 12 'S	146° 39 'E	-	583		23	02	05	08	.	.	.	20		.	.	.	.
94026	Saramandi	04° 05 'S	144° 05 'E	-	40		.	.	.	.	.	.	.	.		.	.	.	.
94040	Bipi	02° 01 'S	146° 59 'E	-	4		23	02	05	08	11	.	.	20		.	.	.	.
94042	Lemakot	03° 01 'S	151° 49 'E	-	6		23	02	05	08	.	.	.	20		.	.	.	.
94047	Nadzab M.O.	05° 34 'S	146° 33 'E	-	47		23	02	05	08	11	.	17	20	H17-12	P	P	.	.	
94057	Safia	09° 35 'S	148° 38 'E	-	45		23	02	05	.	.	.	.	20		.	.	.	.
94068	Agaun	09° 56 'S	149° 23 'E	-	1005		23	02	05	08	.	.	.	20		.	.	.	.
94069	Kurada	10° 03 'S	151° 00 'E	-	3		23	02	05	08	.	.	.	20		.	.	.	.
94070	Sideia	10° 37 'S	150° 40 'E	-	3		23	02	05	08	11	.	.	20		.	.	.	.
94071	Uvol	06° 10 'S	150° 57 'E	-	3		23	02	05	08	.	.	.	20		.	.	.	.
94075	Dami	05° 29 'S	150° 24 'E	-	5		.	.	.	.	.	.	.	.		.	.	.	.
94083	Namatanai	03° 40 'S	152° 27 'E	-	42		23	02	05	08	.	.	.	20		.	.	.	.
94092	Mimowa	11° 18 'S	153° 16 'E	-	3		23	02	05	08	11	.	.	20		.	.	.	.
Region VI - Azerbaijan*																				
37579	Alibai	41° 40 'N	46° 48 'E	1539	1540		X	X	X	X	X	X	X	X		.	.	.	.
37636	Jeyranchel	41° 18 'N	45° 28 'E	404	403		X	X	X	X	X	X	X	X		.	.	.	.
37639	Agstapha Aerodrome	41° 08 'N	45° 25 'E	333	331		X	X	X	X	X	X	X	X	H0330 -1530	.	.	.	.
37668	Oguz	41° 04 'N	47° 28 'E	581	582		X	X	X	X	X	X	X	X		.	.	.	.
37670	Nabran	41° 47 'N	48° 42 'E	-15	-16		X	X	X	X	X	X	X	X		.	.	.	.

* According to request of The State Hydrometeorological Committee, Azerbaijan Republic

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

1. Publication No. 9, Volume A - Stations /1.1 New stations(continued)

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H Obs. S	Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21		00	06	12	18	
Region VI - Azerbaijan (continued)																				
37673	Khachmaz Aerodrome	41°25 'N	48° 53 'E	27	27		X	X	X	X	X	X	X	X	H0330 -1530	.	.	.	.
37674	Giriz	41°13 'N	48° 14 'E	2071	2070		X	X	X	X	X	X	X	X		.	.	.	.
37675	Guba	41°22 'N	48° 31 'E	552	550		X	X	X	X	X	X	X	X		.	.	.	.
37676	Khinalig	41°06 'N	48° 10 'E	2427	2426		X	X	X	X	X	X	X	X		.	.	.	.
37677	Khaltan	41°00 'N	48° 42 'E	1107	1104		X	X	X	X	X	X	X	X		.	.	.	.
37734	Shamkir	40°50 'N	46° 02 'E	410	404		X	X	X	X	X	X	X	X		.	.	.	.
37736	Gyanja Airport	40°44 'N	46° 19 'E	326	325		.	.	X	X	X	X	.	.	H0330 -1530	.	.	.	.
37740	Gabala	40°59 'N	47° 52 'E	682	679		X	X	X	X	X	X	X	X		.	.	.	.
37744	Mingachevir	40°46 'N	47° 02 'E	94	93		X	X	X	X	X	X	X	X		.	.	.	.
37749	Gyoychay	40°39 'N	47° 45 'E	95	94		X	X	X	X	X	X	X	X		.	.	.	.
37750	Ismailly	40°47 'N	48° 08 'E	550	549		X	X	X	X	X	X	X	X		.	.	.	.
37753	Altiagach	40°52 'N	48° 56 'E	1082	1099		X	X	X	X	X	X	X	X		.	.	.	.
37756	Maraza	40°32 'N	48° 56 'E	755	755		X	X	X	X	X	X	X	X		.	.	.	.
37759	Shamakhy	40°38 'N	48° 38 'E	749	710		X	X	X	X	X	X	X	X		.	.	.	.
37769	Sumgait	40°36 'N	49° 38 'E	-19	-20		X	X	X	X	X	X	X	X		.	.	.	.
37816	Dashkasan	40°30 'N	46° 05 'E	1658	1655		X	X	X	X	X	X	X	X		.	.	.	.
37825	Gyoy-Gyol	40°25 'N	46° 20 'E	1582	1562		X	X	X	X	X	X	X	X		.	.	.	.
37831	Tartar	40°21 'N	47° 01 'E	164	163		X	X	X	X	X	X	X	X		.	.	.	.
37832	Barda	40°22 'N	47° 08 'E	69	67		X	X	X	X	X	X	X	X		.	.	.	.
37835	Zardab	40°12 'N	47° 13 'E	-5	-4		X	X	X	X	X	X	X	X		.	.	.	.
37844	Kurdamir	40°20 'N	48° 10 'E	4	2		X	X	X	X	X	X	X	X		.	.	.	.
37849	Gazimammad Aerodrome	40°01 'N	48° 55 'E	-5	-7		X	X	X	X	X	X	X	X	H0330 -1530	.	.	.	.
37850	Baku	40°21 'N	49° 50 'E	5	-		X	X	X	X	X	X	X	X		.	.	.	.
37851	Baku (Dendropark)	40°25 'N	49° 47 'E	61	60		X	X	X	X	X	X	X	X		.	.	.	.
37852	Shubany	40°22 'N	49° 46 'E	224	237		X	X	X	X	X	X	X	X		.	.	.	.
37853	Baku/Zabrat Airport	40°29 'N	49° 58 'E	6	5		.	.	X	X	X	X	.	.	H0330 -1530	.	.	.	.
37860	Mashtaga	40°32 'N	50° 00 'E	28	27		X	X	X	X	X	X	X	X		RW	.	RW	.	
37861	Neft Dashlary	40°14 'N	50° 52 'E	-15	-17		X	X	X	X	X	X	X	X		.	.	.	.
37864	Baku/Bine Airport	40°27 'N	50° 04 'E	-1	-6		X	X	X	X	X	X	X	X	S00-24	P	P	P	P	
37866	Pirallahi	40°28 'N	50° 19 'E	-24	-26		X	X	X	X	X	X	X	X		.	.	.	.
37869	Chilov Island	40°20 'N	50° 37 'E	-17	-17		X	X	X	X	X	X	X	X		.	.	.	.
37877	Sharur	39°34 'N	45° 00 'E	817	817		X	X	X	X	X	X	X	X		.	.	.	.
37883	Istisu	39°56 'N	45° 58 'E	2257	2294		X	X	X	X	X	X	X	X		.	.	.	.
37896	Khojaly Airport	39°54 'N	46° 47 'E	611	610		.	.	X	X	X	X	.	.	H0330 -1530	.	.	.	.
37898	Lachin	39°39 'N	46° 32 'E	1099	1094		X	X	X	X	X	X	X	X		.	.	.	.

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

1. Publication No. 9, Volume A - Stations /1.1 New stations(continued)

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H Obs. S	Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21		00	06	12	18	
Region VI - Azerbaijan (continued)																				
37901	Khojavand	39°47 'N	47°06 'E	399	414		X	X	X	X	X	X	X	X		
37912	Jafarkhan	39°56 'N	48°32 'E	-15	-16		X	X	X	X	X	X	X	X	.	.	.	.
37913	Salyan	39°35 'N	48°58 'E	-21	-22		X	X	X	X	X	X	X	X	.	.	.	.
37914	Imishly	39°52 'N	48°03 'E	-1	-3		X	X	X	X	X	X	X	X	P	.	P	.		
37923	Alat	39°58 'N	49°24 'E	-16	-18		X	X	X	X	X	X	X	X	.	.	.	.
37925	Neftchala	39°24 'N	49°15 'E	-24	-25		X	X	X	X	X	X	X	X	.	.	.	.
37936	Nakhchivan	39°12 'N	45°25 'E	885	885		X	X	X	X	X	X	X	X	P	.	P	.		
37941	Shahbuz	39°24 'N	45°34 'E	1206	1205		X	X	X	X	X	X	X	X	.	.	.	.
37946	Paragachay	39°07 'N	45°57 'E	-	2218		X	X	X	X	X	X	X	X	.	.	.	.
37952	Kalvaz	38°40 'N	48°23 'E	1832	1830		X	X	X	X	X	X	X	X	.	.	.	.
37957	Ordubad	38°55 'N	46°01 'E	788	785		X	X	X	X	X	X	X	X	.	.	.	.
37968	Minjivan	39°00 'N	46°40 'E	315	312		X	X	X	X	X	X	X	X	.	.	.	.
37972	Bilasuvar	39°28 'N	48°33 'E	4	2		X	X	X	X	X	X	X	X	.	.	.	.
37978	Gyoytapa	39°67 'N	38°36 'E	4	2		X	X	X	X	X	X	X	X	.	.	.	.
37981	Yardimly	38°54 'N	48°15 'E	730	729		X	X	X	X	X	X	X	X	.	.	.	.

1.2 Deleted stations

Region	Index No.	Name
V - New Zealand	93121	Cape Colville AWS
	93377	Havelock North EDR
V - Papua New Guinea	94008	Morehead
	94020	Menyamya
	94024	Wau
	94025	Malala
	94027	Lae M.O.
	94030	Tari
	94034	Garaina
	94050	Gizarum (Umboi)
	94056	Popondetta (Girua)
	94058	Tufi
	94059	Amazon Bay
	94066	Kupiano
	94067	Dogura
	94072	Hoskins
	94079	Losuia
94086	Kalamadu	
VI - Sweden	02023	Tornehamn

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

1. Publication No. 9, Volume A - Stations (continued)

1.3 Changes to existing stations

Index No.	Name	Surface observations								Obs.H Obs.S	Upper-air				Re- marks
		00	03	06	09	12	15	18	21		00	06	12	18	
Region II - Tajikistan⁺															
38599	Khudjand														
38609	Isfara														
38713	Ura-Tyube														
38836	Dushanbe														
38933	Kurgan-Tyube														
38937	Shaartuz														
38943	Kulyab														
38944	Parkhar														
38947	Pyandj														
38954	Khorog														
Region V - Papua New Guinea															
94001	Kiunga	23	02	05	08	.	.	.	20	H20-08	.	.	.	.
94003	Daru	23	02	05	08	.	.	.	20	H19-08	.	.	.	.
94004	Wewak	23	02	05	08	11	.	.	20	H19-11	.	.	.	.
94005	Mt. Hagen	.	.	.	.	.	.	.	.	H20-08	.	.	.	.
94006	Koinambe	23	02	05	08	.	.	.	20		.	.	.	.
94011	Kundiawa	23	02	05	08	.	.	.	20		.	.	.	.
94012	Kerema	23	02	05	08	.	.	.	20		.	.	.	.
94016	Aiyura	23	02	05	08	.	.	.	20		.	.	.	.
94021	Mendi	23	02	05	08	.	.	.	20		.	.	.	.
94022	Vanimo I.P.S.	23	02	05	.	.	.	.	.		.	.	.	.
94031	Lake Kutubu	23	02	05	08	.	.	.	20		.	.	.	.
94035	Port Moresby M.O.	23	02	05	08	11	14	17	20	H00-24	RW	W	W	W	
94044	Momote M.O.	23	02	05	08	11	.	17	20	H17-12	RW	P	P	P	
94076	Kavieng M.O.	23	02	05	08	11	.	.	20	H19-12	P	P	.	.	
94077	Gurney M.O.	23	02	05	08	.	.	.	20	H20-08	.	.	.	.
94082	Nuguria	23	02	05	08	.	.	.	20		.	.	.	.
94084	Feni	23	02	05	08	.	.	.	20		.	.	.	.
94085	Rabaul M.O.	23	02	05	08	11	.	.	20	H19-12	.	.	.	.
94087	Misima M.O.	23	02	05	08	.	.	.	20	H19-08	P	P	.	.	
94088	Lihir Is.	23	02	05	08	.	.	.	20		.	.	.	.
94090	Jinjo	23	02	05	08	11	.	.	20		.	.	.	.
Region VI - Azerbaijan[*]															
37575	Zakatala														
37661	Shaki														

⁺ According to request of the Main Administration on Hydrometeorology of the Republic of Tajikistan^{*} According to request of The State Hydrometeorological Committee, Azerbaijan Republic

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

1. Publication No. 9, Volume A - Stations / 1.3 Changes to existing stations(continued)

Index No.	Name	Surface observations								Obs. H Obs. S	Upper-air				Re- marks
		00	03	06	09	12	15	18	21		00	06	12	18	
Region VI - Azerbaijan (continued)															
37729	Gadabay														
37735	Gyanja	X	X	X	X	X	X	X	X		P		P		
37747	Evlakh Airport	X	X	X	X	X	X	X	X		P		P		
37895	Khankandy														
37899	Shusha														
37905	Beylagan Aerodrome														
37907	Fizuly														
37947	Julfa														
37985	Lankaran														

1.5 Temporary changes

•Notification from Tajikistan

That stations: 38937 Shaartuz, 38943 Kulyab and 38947 Pyandj are temporarily stopping broadcasts because of the absence of means of communication, but are carrying out observations.

Upper-air stations 38836 Dushanbe and 38954 Khorog will be making only one daily sounding at 0000 UTC for lack of radiosondes and envelopes, and station Khorog will be stopping sounding in mid-July 1994 for the same reason

4. Automatic Marine Stations

KEY - OBSERVED OR TECHNICAL PARAMETERS			
<u>Column</u>	<u>Parameters</u>	<u>Column</u>	<u>Parameters</u>
1	Wind direction and speed	9	Subsurface temperatures
2	Air temperature	10	Relative humidity
3	Air pressure	11	Visibility
4	Pressure tendency		
5	Sea-surface temperature	-	Parameter not observed
6	Wave period and height	X	Buoy observes this parameter
7	Wave spectra	.	Data under evaluation,
8	Peak wind gust		not reported

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

1. Publication No. 9, Volume A - Stations (continued)

4.3 United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the June 1994 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.

4.3.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 9-16 June 1994		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
32302		18.0S	85.1W	X	X	X	-	X	X	X	-	-	-	-
41001*		34.7N	72.7W	X	X	X	-	X	X	X	-	-	-	-
41002*		32.3N	75.2W	X	X	X	-	X	X	X	-	-	-	-
41004		32.5N	79.1W	X	X	X	-	X	X	X	-	-	-	-
41006*		29.3N	77.3W	X	X	X	-	X	X	X	-	-	-	-
41009		28.5N	80.2W	X	X	X	-	X	X	X	-	-	-	-
41010		28.9N	78.5W	X	X	X	-	X	X	X	-	-	-	-
41016		24.6N	76.5W	X	X	X	-	X	X	X	-	-	-	-
42001*		25.9N	89.7W	X	X	X	-	X	X	X	-	-	-	-
42002*		25.9N	93.6W	X	X	X	-	X	X	X	-	-	-	-
42003*		25.9N	85.9W	+	+	X	-	X	X	X	-	-	-	-
42007		30.1N	88.8W	X	X	X	-	X	.	.	-	-	-	-
42019		27.9N	95.0W	X	X	X	-	X	X	X	-	-	-	-
42020		27.0N	96.5W	X	X	X	-	X	X	X	-	-	-	-
42025		24.9N	80.4W	.	X	.	-	X	X	X	-	-	-	-
42035		29.2N	94.4W	X	X	X	-	X	X	X	-	-	-	-
42036		28.5N	84.5W	X	X	X	-	X	X	X	-	-	-	-
42037		24.5N	81.4W	X	X	X	-	X	X	X	-	-	-	-
44004*		38.5N	70.7W	X	X	X	-	X	X	X	-	-	-	-
44005*		42.9N	68.9W	X	X	X	-	X	X	X	-	-	-	-
44007		43.5N	70.1W	X	X	X	-	X	X	X	-	-	-	-
44008		40.5N	69.4W	X	X	X	-	X	X	X	-	-	-	-
44009		38.5N	74.7W	X	X	X	-	X	+	+	-	-	-	-
44011*		41.1N	66.6W	X	X	X	-	X	X	X	-	-	-	-
44013		42.4N	70.7W	X	X	X	-	X	X	X	-	-	-	-
44014		36.6N	74.8W	X	X	X	-	+	X	X	-	-	-	-
44025		40.3N	73.2W	X	X	X	-	X	X	X	-	-	-	-
45001*		48.0N	87.8W	X	X	X	-	X	X	X	-	-	-	-
45002*		45.3N	86.4W	X	X	X	-	X	X	X	-	-	-	-
45003*		45.3N	82.8W	X	X	X	-	X	X	X	-	-	-	-
45004*		47.5N	86.5W	X	X	X	-	X	X	X	-	-	-	-
45005*		41.7N	82.4W	X	X	X	-	X	X	X	-	-	-	-
45006*		47.3N	89.9W	X	X	X	-	X	X	X	-	-	-	-
45007*		42.7N	87.1W	X	X	X	-	X	X	X	-	-	-	-

* Base funded station of National Weather Service (NWS); however, all stations report data to NWS

+ Sensor/system failure

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

4. Automatic Marine Stations / 4.3 United States of America / 4.3.1 Moored Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 9-16 June 1994		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
45008*		44.3N	82.4W	X	X	X	-	X	X	X	-	-	-	-
46001*		56.3N	148.2W	X	X	X	-	X	X	X	-	-	-	-
46002*		42.5N	130.3W	X	X	X	-	X	X	X	-	-	-	-
46003*		51.9N	155.9W	X	X	X	-	X	X	X	-	-	-	-
46005*		46.1N	131.0W	X	X	X	-	X	X	X	-	-	-	-
46006*		40.9N	137.5W	X	X	X	-	X	X	X	-	-	-	-
46012		37.4N	122.7W	X	X	X	-	+	X	X	-	-	-	-
46013*		38.2N	123.3W	X	X	X	-	X	X	X	-	-	-	-
46014*		39.2N	124.0W	X	X	X	-	X	X	X	-	-	-	-
46022		40.8N	124.5W	X	X	X	-	X	X	X	-	-	-	-
46023		34.2N	120.7W	X	X	X	-	X	X	X	-	-	-	-
46025		33.7N	119.1W	X	X	X	-	X	X	X	-	-	-	-
46026		37.7N	122.8W	X	X	X	-	X	X	X	-	-	-	-
46027		41.9N	124.4W	X	X	X	-	X	X	X	-	-	-	-
46028*		35.8N	121.9W	X	X	X	-	X	X	X	-	-	-	-
46029		46.2N	124.2W	X	X	X	-	X	X	X	-	-	-	-
46030		40.4N	124.5W	X	X	X	-	X	X	X	-	-	-	-
46035		57.0N	177.7W	X	X	X	-	X	+	+	-	-	-	-
46041		47.4N	124.5W	X	X	X	-	X	X	X	-	-	-	-
46042		36.8N	122.4W	X	X	+	-	X	X	X	-	-	-	-
46045		33.8N	118.4W	X	X	X	-	X	X	X	-	-	-	-
46050		44.6N	124.5W	X	X	X	-	X	X	X	-	-	-	-
46051		34.5N	120.7W	X	X	X	-	X	+	+	-	-	-	-
46053		34.2N	119.8W	X	X	X	-	X	X	X	-	-	-	-
46054		34.3N	120.4W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.4N	162.3W	X	X	X	-	X	X	X	-	-	-	-
51002		17.2N	157.8W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.1N	160.8W	X	X	X	-	X	X	X	-	-	-	-
51004*		17.4N	152.5W	X	X	X	-	X	X	X	-	-	-	-
51026		21.4N	157.0W	X	X	X	-	X	+	+	-	-	-	-
52009		13.7N	144.7E	+	+	+	-	+	+	+	-	-	-	-

Total base funded buoys:	=	28
Total other buoys:	=	37
TOTAL moored buoys:		65

+ Sensor/system failure

* Base funded station of National Weather Service (NWS); however, all stations report data to NWS

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

4. Automatic Marine Stations / 4.3 United States of America (continued)

4.3.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 14-16 June 1994		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16811	17180	01°S	001°E	.	X	X	-	X	.	.	.	-	-	-
17818	17175	01°S	000°E	.	X	X	-	+	.	.	.	-	-	-
17819	17174	01°S	000°E	.	X	X	-	X	.	.	.	-	-	-
17820	17173	01°S	000°E	.	+	X	-	X	.	.	.	-	-	-
17821	17176	01°S	000°E	.	+	X	-	X	.	.	.	-	-	-
17822	17184	01°S	001°E	.	X	X	-	X	.	.	.	-	-	-
32811	17170	01°S	005°E	.	+	X	-	X	.	.	.	-	-	-
32812	17171	00°S	004°E	.	X	X	-	X	.	.	.	-	-	-
32813	17172	01°S	005°E	.	+	X	-	X	.	.	.	-	-	-
32814	17161	01°S	005°E	.	+	X	-	X	.	.	.	-	-	-
33833	1974	31°S	003°W	.	X	X	-	X	.	.	.	-	-	-
33834	1979	01°S	000°E	.	X	X	-	X	.	.	.	-	-	-
33838	17163	01°S	006°E	.	+	X	-	X	.	.	.	-	-	-
33839	17164	01°S	006°E	.	+	X	-	X	.	.	.	-	-	-
33840	17165	01°S	000°E	.	+	X	-	X	.	.	.	-	-	-
33841	17166	01°S	006°E	.	+	X	-	X	.	.	.	-	-	-
33842	17167	01°S	001°E	.	+	X	-	X	.	.	.	-	-	-
53823	5131	00°S	002°E	.	+	X	-	+	.	.	.	-	-	-
54844	17168	01°S	004°E	.	+	X	-	X	.	.	.	-	-	-
56801	5130	01°S	001°E	.	X	X	-	X	.	.	.	-	-	-
56804	1977	43°S	121°E	.	X	X	-	X	.	.	.	-	-	-
56805	1990	01°S	003°E	.	X	X	-	X	.	.	.	-	-	-
56806	1984	00°S	002°E	.	X	X	-	X	.	.	.	-	-	-
56807	20716	00°S	002°E	.	X	X		X	.	.	.			
56808	20720	00°S	002°E	.	X	X		X	.	.	.			
74801	1982	01°S	001°E	.	X	X		X	.	.	.			

322 drifting buoys have been deployed in support of TOGA; 26 are operational

+ Sensor failure

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

4. Automatic Marine Stations (continued)

4.6 United Kingdom of Great Britain and Northern Ireland

List of moored and drifting data buoys operated by the:

Operational Instrumentation Branch,
Meteorological Office,
Beaufort Park,
Easthampstead,
WOKINGHAM
Berkshire RG11 3DN,
United Kingdom.

4.6.1 Moored Buoys (including light vessels, islands and fixed platforms)

WMO buoy Identifier	ARGOS Identifier	Position: 17 June 1994		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
03007*		60°35'N	01°16'W	X	X	-	-	-	-	-	X	-	X	-
03010*		59°05'N	04°24'W	X	X	X	X	-	-	-	X	-	X	-
03011*		59°10'N	05°50'W	X	X	X	X	-	-	-	X	-	X	-
03014*		60°07'N	02°04'W	X	X	X	X	-	-	-	X	-	X	-
03695*		51°40'N	01°06'E	X	X	X	X	-	-	-	X	-	X	-
62029		48°43'N	12°25'W	X	X	X	X	X	X	-	X	-	X	-
62081		51°00'N	13°20'W	X	X	X	X	X	-	-	X	-	X	-
62101		50°37'N	02°44'W	X	X	X	X	-	X	-	X	-	X	-
62103**		49°55'N	02°53'W	X	X	X	X	X	X	-	X	-	X	X
62105		55°59'N	14°11'W	X	X	X	X	X	X	-	X	-	X	-
62106		57°00'N	10°00'W	X	X	X	X	X	X	-	X	-	X	-
62108		53°12'N	15°07'W	X	X	X	X	X	X	-	X	-	X	-
62112*		58°42'N	01°17'E	X	X	X	X	-	-	-	X	-	X	-
62118*		57°45'N	00°55'E	X	X	X	X	-	-	-	X	-	X	-
62124*		54°35'N	01°26'E	X	X	X	X	-	-	-	X	-	X	-
62126*		58°51'N	03°35'W	X	X	X	X	-	-	-	X	-	X	-
62129*		53°03'N	02°14'E	X	X	X	X	-	-	X	X	-	X	-
62301		52°10'N	05°05'W	X	X	X	X	X	-	-	X	-	X	-
62302		54°08'N	03°37'W	X	X	X	X	X	-	-	X	-	X	-
62304**		51°00'N	01°47'E	X	X	X	X	X	X		X	-	X	X
62305		50°25'N	00°00'W	X	X	X	X	X	X	-	X	-	X	X
63103*		61°14'N	01°09'E	X	X	X	X	-	-	-	X	-	X	-
63111*		59°33'N	01°32'E	X	X	X	X	-	-	X	X	-	X	-

* Fixed platforms or islands

** Automatic light vessels

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

4. Automatic Marine Stations / 4.3 United Kingdom of Great Britain and Northern Ireland (continued)

4.6.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 17 June 1994		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
25013	4065+	82.4N	06.6E	-	X	X	-	-	-	-	-	-	-	-
44728	2952	64.4N	07.4E	-	X	X	-	X	-	-	-	-	-	-
44743	1370	31.9N	36.9W	-	-	X	-	-	-	-	-	-	-	-
44767	6297	57.2N	34.0W	-	X	X	-	X	-	-	-	-	-	-
44768	6295	53.3N	30.7W	-	X	X	-	X	-	-	-	-	-	-
44769	6291	55.0N	29.6W	-	X	X	-	X	-	-	-	-	-	-
44771	6290	56.2N	17.2W	-	X	X	-	X	-	-	-	-	-	-
44772	2960	61.7N	10.3W	-	X	X	-	X	-	-	-	-	-	-
44778	1259	62.1N	16.5W	-	X	X	-	X	-	-	-	-	-	-
62524	4625	31.3N	17.4W	-	X	X	-	X	-	-	-	-	-	-
62695	2956	31.5N	17.9W	-	X	X	-	X	-	-	-	-	-	-
62696	6288	61.2N	14.8W	-	X	X	-	X	-	-	-	-	-	-
—	6289	52.4N	39.6W	-	X	X	-	X	-	-	-	-	-	-
—	1639	88.0N	27.5W	-	X	X	-	-	-	-	-	-	-	-

5. ARGOS service

5.1 ARGOS monthly status report

Date of statistics computation : 1 June 1994

•Reports handled by ARGOS Service (list of monthly collected ARGOS platforms sorted by type of platform)

Drifting Buoys	:	1036
Boats (<20 knots)	:	—
Marine Stations	:	2
Moored Buoys	:	309
Terrestrial Animals	:	104
Marine Animals	:	76
Balloons	:	5
Birds	:	37
Fixed Stations	:	419
TOTAL	:	1988

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

•Reports for insertion into the GTS (list of monthly collected GTS platforms on every GTS site sorted by type of platform)

Transmission to RTH Paris:

Boat (less than 20 knots) :	—
Drifting Buoys :	106
Fixed Stations :	9
Marine Stations :	3
Moored Buoys :	1
Synoptic PTT :	—

Transmission to NWS Washington:

Drifting Buoys :	473
Fixed Stations :	5
High Speed :	—
Moored Buoys :	72

•GTS coding statistics of platforms reporting through ARGOS and distributed over the GTS

BATHY =	374
DRIFTER =	144470
SYNOP =	4404
TOTAL:	149248

8. Feed-back from Members to the Secretariat on any changes in the observing network

In view of the difficulties experienced 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. A special table accompanied by explanatory notes (see Appendix I) is attached, 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.

Members are urged to fill in the special table as and when appropriate, and to return it to the Secretariat **before the 20th of each month** to enable changes to be included in the next "OPERATIONAL NEWSLETTER".

FEED-BACK FROM MEMBERS TO THE SECRETARIAT ON ANY CHANGES IN THE OBSERVING NETWORK

Explanatory Notes

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, particularly for stations included in the Regional Basic Synoptic Networks (RBSN).
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 20th of the month for inclusion in the "OPERATIONAL NEWSLETTER", as appropriate.

WMO CATALOGUE OF RADIOSONDES AND UPPER-AIR WIND SYSTEMS IN USE BY MEMBERS — Updates

WMO Index Number	Name of Station	Technical authority over station	DEGREES		Height metres	PROGRAM		SONDE			RADIATION		Ground equipment used	WINDFINDING	
			Latitude -- S	Longitude -- W		TEMP Program	PILOT Program	regular type used	alternative type used	frequency MHz	correction Y=Yes/N=No	correction type		system used	equipment used

Region: II Country: Kazakhstan Date: 05/94

28952	Kustanai	Kazakhstan	52.22	63.62	171	0012		MRZ		1782	Y		AVK		AVK
35108	Ural'sk	Kazakhstan	52.15	51.53	42	0012		MRZ		1782	Y		AVK		AVK
35229	Aktjubinsk	Kazakhstan	50.27	57.22	219	0012		MRZ		1782	Y		AVK		AVK
35394	Karaganda	Kazakhstan	49.80	71.13	553	0012		MRZ		1782	Y		AVK		AVK
35700	Atyray	Kazakhstan	47.10	51.80	-23	0012		MRZ		1782	Y		AVK		AVK
35746	Aral'sk	Kazakhstan	46.28	61.52	70	0012		MRZ		1782	Y		AVK		AVK
35796	Balhash	Kazakhstan	46.90	75.00	416	0012		MRZ		1782	Y		AVK		AVK
36177	Semipalatinsk	Kazakhstan	50.42	80.30	196	0012	0618	MARS		1782	Y		METEORIT-1		METEORIT-1
36870	Almaty	Kazakhstan	43.35	77.00	663	0012		MRZ		1782	Y		AVK		AVK
38062	Kzyl-Orda	Kazakhstan	49.82	65.50	128	0012		MRZ		1782	Y		AVK		AVK
38341	Dzambul	Kazakhstan	42.85	71.38	652	0012		MRZ		1782	Y		AVK		AVK

Region: VI Country: Azerbaijan Date: 05/94

37985	Lankaran	Azerbaijan	38.44	48.50	-13	0012		MARS		1782	Y		METEORIT-2	SECONDARY RADAR	METEORIT-2
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Region: II Country: Kyrgystan Date: 05/94

38353	Bishkek	Kyrgystan	42.80	74.50	756	0012		MRZ		1782	Y		AVK	SECONDARY RADAR	AVK
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Region: II Country: Japan Date: 05/94

47401	Wakkanai	Japan	45.42	141.68	11	0012	0618	MEIR91		1680	Y		THEOD.	RADIO THEO DOLITE	MEISEI
47412	Sapporo	Japan	43.05	141.33	19	0012	0618	MEIR91		1680	Y		THEOD.	RADIO THEO DOLITE	MEISEI
47420	Nemuro	Japan	43.33	145.58	39	0012	0618	MEIR91		1680	Y		THEOD.	RADIO THEO DOLITE	MEISEI
47778	Shionomisaki	Japan	33.45	135.77	69	0012	0618	MEIR91		1680	Y		THEOD.	RADIO THEO DOLITE	MEISEI
47827	Kagoshima	Japan	31.55	130.55	31	0012	0618	MEIR91		1680	Y		THEOD.	RADIO THEO DOLITE	MEISEI

WMO CATALOGUE OF RADIOSONDES AND UPPER-AIR WIND SYSTEMS IN USE BY MEMBERS — Updates

WMO Index Number	Name of Station	Technical authority over station	DEGREES		Height metres	PROGRAM		SONDE			RADIATION		Ground equipment used	WINDFINDING	
			Latitude - = S	Longitude - = W		TEMP Program	PILOT Program	regular type used	alternative type used	frequency MHz	correction Y=Yes/N=No	correction type		system used	equipment used
47936	Naha	Japan	26.20	127.68	27	0012	0618	MEIR91		1680	Y		THEOD.	RADIOTHEO DOLITE	MEISEI
47945	Minamidaitojima	Japan	25.83	131.23	15	0012	0618	MEIR80		1680	Y		THEOD.	RADIOTHEO DOLITE	MEISEI
47971	Chichijima	Japan	27.08	142.18	8	0012		MEIR91		1680	Y		THEOD.	RADIOTHEO DOLITE	MEISEI
47981	Iwojima	Japan	24.78	141.32	116	00		MEIR80		1680			THEOD.	RADIOTHEO DOLITE	MEISEI
47991	Minamitorishima	Japan	24.30	153.97	9	0012		MEIR91		1680	Y		THEOD.	RADIOTHEO DOLITE	MEISEI

Region: I Country: South Africa Date: 05/94

68174	Pietersburg	South Africa	-23.87	29.45	1228	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68263	Pretoria (Irene)	South Africa	-25.92	28.22	1523	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68424	Upington	South Africa	-28.40	21.27	839	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68442	Bloemfontein	South Africa	-29.10	26.30	1354	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68461	Bethlehem	South Africa	-28.25	28.33	1686	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68512	Springbok	South Africa	-29.67	17.88	1006	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68538	De Aar	South Africa	-30.65	24.02	1287	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68588	Durban	South Africa	-29.97	30.95	14	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68816	Cape Town	South Africa	-33.97	18.60	42	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68842	Port Elizabeth	South Africa	-33.98	25.60	61	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68906	Gough Island	South Africa	-40.35	-9.88	54	0012		VRS80N		1680			PP11	OMEGA	NAVAID
68994	Marion Island	South Africa	-46.88	37.87	22	0012		VRS80N		1680			PP11	OMEGA	NAVAID

Region: IV Country: Colombia Date: 05/94

80001	San Andrés-Isla	USA NWS	12.58	-81.72	1	12		VIZ		1680	N		GMD-1	RADIOTHEO DOLITE	GMD-1
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Region: III Country: Colombia Date: 05/94

80222	Bogotá/Eldorado	Colombia	4.70	-74.13	2548	0012		AIR	VIZ	1680	N		AIR	RADIOTHEO DOLITE	AIR
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WMO CATALOGUE OF RADIOSONDES AND UPPER-AIR WIND SYSTEMS IN USE BY MEMBERS — Updates

WMO Index Number	Name of Station	Technical authority over station	DEGREES		Height metres	PROGRAM		SONDE			RADIATION		Ground equipment used	WINDFINDING	
			Latitude - = S	Longitude - = W		TEMP Program	PILOT Program	regular type used	alternative type used	frequency MHz	correction Y=Yes/N=No	correction type		system used	equipment used

Region: V Country: Papua New Guinea Date: 05/94

94014	Madang M.O.	Papua New Guinea	-5.13	145.48	4	00		VRS80N		403	Y	V86	DIGICORA	OMEGA	DIGICORA
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Region: O Country: Japan Date: 05/94

JBOA	Keifu Maru	Japan	0.00	0.00	0	0012		MEIR91		1680	Y		THEOD	RADIO THEO DOLITE	MEISEI
JCCX	Chofu Maru	Japan	0.00	0.00	0	0012		VRS80N		403	Y	V86	DIGICORA	OMEGA	DIGICORA
JDWX	Kofu Maru	Japan	0.00	0.00	0	0012		VRS80N		403	Y	V86	DIGICORA	OMEGA	DIGICORA
JIVB	Seifu Maru	Japan	0.00	0.00	0	0012		VRS80N		403	Y	V86	DIGICORA	OMEGA	DIGICORA

Feed-Back from Members to the Secretariat on any changes in the

**WMO CATALOGUE OF RADIOSONDES
AND
UPPER-AIR WIND SYSTEMS IN USE BY MEMBERS**

Country: _____

Date: _____

WMO Index Number	Name of Station	Technical authority over station	DEGREES		Height metres	PROGRAM		SONDE			RADIATION		Ground equipment used	WINDFINDING	
			Latitude -- S	Longitude -- W		TEMP Program	PILOT Program	regular type used	alternative type used	frequency MHz	correction Y=Yes/N=No	correction type		system used	equipment used

Annex III
GLOBAL TELECOMMUNICATION
SYSTEM

A. GTS REGULATORY OR GUIDANCE MATERIAL

1. Telecommunication Procedures

GTS Operational Procedures

(implementation and using addressed messages on the GTS)

Background

An evolutionary change of the GTS in support of new requirements has become necessary. Extensive growth in GDPS operational centres as well as in volume and variety of data to be transmitted have brought about a need for a basic structural change in the functional characteristics of the entire WWW. The ability to request GTS messages which are already available within the WWW system and also the capability to request the generation of new data messages in support of operational meteorology to be used on an ad-hoc bases is required. It has resulted in increasing requirements for a reliable and fast transmission of messages (e.g. service messages, special data messages, request-reply messages, etc.) from an originating centre to a single addressee centre. The former procedures for addressed messages were not suited for providing an efficient point-to-point transmission service and significant improvements were needed. The CBS and Executive Council have approved the new procedure developed by the CBS Working Group on Telecommunications, which is documented in WMO-No. 784, Commission for Basic Systems, Abridged Final Report of the Tenth Session, Geneva, 2-13 November 1992, paragraphs 6.3.18 to 6.3.20 and Recommendation 6.

The relevant text of the Manual on the GTS which is in force since 3 November 1993 is provided here for reference:

- | | |
|----------|--|
| 2.4 | Addressed messages |
| 2.4.1. | Categories of addressed messages |
| 2.4.1.1. | Service messages
Priority: 1
Messages concerning the operation of the system, e.g. breakdown, resumption after breakdown, etc. |
| 2.4.1.2. | Request for GTS messages
Priority: 2
Messages used for a request for bulletins normally available on the GTS, including request for repetition. |
| 2.4.1.3. | Administrative messages
Priority: 4
Messages used for communicating between one administration and another. In exceptional circumstances a very urgent administrative message could be transmitted as a service message. |

A. GTS regulatory or guidance material *(continued)*

1. Telecommunication Procedures *(continued)*

2.4.1.4. Data messages

Priority: 2

Messages consisting of meteorological data. These messages may be either replies to requests for GTS messages in the case when the reply is in the form of an addressed message, or replies to requests to databases, or data in accordance with a special agreement.

2.4.1.5. Request-to-database

Priority: 2

Messages used for a request for data addressed to a database.

2.4.2. Abbreviated headings for addressed messages

The specifications of the abbreviated headings of addressed messages are the following:

$T_1T_2A_1A_2ii C_aC_aC_aC_a YYGGgg$ (BBB)

$T_1T_2 = BM$, designator for addressed messages in alphanumeric form;

$T_1T_2 = BI$, designator for addressed messages in binary form;

$A_1A_2 = AA$, administrative message

BB, service message

RR, request for GTS messages

RQ, request-to-database

DA, data message

$ii = 01$

$C_aC_aC_aC_a =$ location indicator of the addressed centre

$YYGGgg =$ time of insertion on the GTS.

2.4.3. Text of addressed messages

The first line of the text of an addressed message shall contain the international location indicator of the centre originating the message. The actual content of the addressed message shall start at the second line of the text.

Purpose of use

The new WMO addressed message is designed to allow any national centre (NMC, RTH or WMC) to send a message to any other centre. This is to be accomplished without the need for message processing or manual handling by any intervening relay centre. This permits non adjacent centres to exchange information as if they were directly connected to each other.

Scope of use

The WMO addressed message is for the transmission of administrative, service, request for data messages, replies to requests and special point-to-point transmission on the GTS. It complements routine distribution. It does **not** replace the general notice messages. WMO addressed messages are addressed to a specific GTS centre for its handling only, action by intermediate centres is not required nor desired.

A. GTS regulatory or guidance material (continued)

1. Telecommunication Procedures (continued)
Abbreviated heading design (New)

The alphanumeric fields in the abbreviated heading of the addressed message are defined in a unique way. The addressed message abbreviated heading structure conforms to standard format; however, the specifications of the various fields have been changed, as compared to the normal meteorological messages. The definition of the character fields (groups) are provided here to help in explanation. The complete information related to an addressed message consists of two lines of information, both of which are to be processed by automated means. Only the first line, the abbreviated heading, is used for routing purposes; the second line, which contains the source of the addressed message, is used in the generation of the response, when required. The abbreviated heading structure, as defined above, is further explained in the following:

T₁T₂A₁A₂ii C_aC_aC_aC_a YYGGgg
CCCC

T₁T₂ defined as: BM designator for addressed message in alphanumeric form
 or BI designator for addressed message in binary form

A₁A₂ defines the type of addressed message

where, AA administrative message (to be passed to a person for information or action)
 BB service message (to be passed to a person for action)
 RR request for a GTS message specified by abbreviated heading or transmission sequence number (if by heading this addressed message can be to non adjacent centres, if by transmission sequence number it must be to adjacent centres)
 RQ request-to-database for data (not available as a current GTS message and will most likely require processing by a GDPS function to generate the data [product] in response)
 DA the returned data response to the RR or RQ addressed message or a special data transmission

ii = always 01 (no exceptions allowed)

C_aC_aC_aC_a = location indicator of the *addressed* centre on the GTS to whom the message is addressed (DIFFERENT meaning for this field of the usual abbreviated heading)

YYGGgg = time of insertion on the GTS

CCCC = the international location indicator of the centre originating the message

NOTE: The abbreviated heading structure where T₁T₂ = BM or BI completely replaces and supersedes the former T₁ = A for Administrative messages, T₁ = B for Service messages, T₁T₂ = RR for request-for-repetition messages and T₁T₂ = MM for data messages.

A. GTS regulatory or guidance material *(continued)*

1. Telecommunication Procedures *(continued)*

Implementation in switching directories of RTHs on the GTS

It is anticipated that the addressed message can be automatically switched through intermediate centres without any message processing. Therefore, the abbreviated headings of all possible addressees (different $C_s C_a C_d C_o$) requiring to be switched through an RTH should already be included in the switching directory of each RTH, otherwise the automatic relay process cannot be properly implemented. This is one of the reasons for not allowing the *ii* group to be a variable. This restriction of *ii* = 01 reduces the number of possible headings that will be defined in any switching directory. Careful analyses must be made at each centre to determine which headings are most likely to be received, hence, requiring definition in the switching directory.

Routing concepts

To help in the establishment of addressed message routing in the switching directories of the various centres of the GTS, it is recommended that the message flow on the MTN generally be in an clockwise direction using the diagram in Attachment I-2 in the Manual on the GTS WMO-386 on page A.I-2/1. Using this diagram as flow control, Offenbach (EDZW) sends an addressed message to Cairo (HECA) via Prague (OKPR) and Moscow (RUMS). A message from Toulouse (LFPW) for Beijing (BABJ) goes to Offenbach (EDZW). An addressed message from Tokyo (RJTD) to Bracknell (EGRR) goes via Washington (KWBC). Careful study must be done to help establish possible relay possibilities for a centre.

The exception to clockwise flow is when the addressed message is for an adjacent centre. Routing arrangements may also be agreed upon multi-laterally among centres concerned, in particular when a shorter path is preferred (i.e. involving a single intermediate centre instead of several).

The CBS Working Group on Telecommunications, in particular its Study Group on Operational Matters (WG-TEL/SG-OM, Chairman: Mr. J.Fenix, USA), will regularly review and consolidate routing arrangements for addressed messages

Using this approach of flow control to establish routing and also considering WMO Regional responsibility for data to be held for 24-hours, the following centres would have these addressed message headings included in their respective switching directories for the RR option of the addressed message, as example:

TOKYO (RJTD)	MELBOURNE (AMMC)	JAKARTA (WIIX)	NOUMEA (NWWB)
BMRR01 AMMC	BMRR01 WSSS	BMRR01 WSSS	BMRR01 NTAA
BMRR01 DEMS	BMRR01 WIIX	BMRR01 AMMC	BMRR01 AMMC
	BMRR01 NZKL		
	BMRR01 NWBB		
	BMRR01 NTAA		
	BMRR01 RJTD		
	BMRR01 DEMS		
	BMRR01 KWBC		

a partial list for illustration purposes

A. GTS regulatory or guidance material (continued)

1. Telecommunication Procedures (continued)

Theoretically, every centre should include a heading for every CCCC defined by WMO; however, normal expected practice, common sense and experience will reduce the number of defined headings needed to just those centres most likely to be addressed if it is for a request/reply. All centres should have the administrative and service message headings in their directories, as it would be expected that the WMCs and RTHs on the MTN would need to route all possibilities. This means that Washington would be expected to define BMAA01 MYNN (addressed to Bahamas) in their switching directory for relay of messages. Washington would not, however, be expected to define BMRR01 NWBB (addressed to Noumea) in their switching directory, as it is not likely that the heading would ever be received for relay by WMC Washington, as WMC Melbourne would be the most likely centre to have data from Noumea. In the above example Melbourne would have a very extensive list of headings for the RR option (not shown).

Text of addressed message
A₁A₂ = AA Administrative message

The content of this type of message is a simple character free flowing text, intended for human readability. These message types should be sent to a display or printer. These are text messages about general operational and administrative discussions and co-ordination.

A₁A₂ = BB Service message

The content of this type of message is a simple character free flowing text, intended for human readability. These message types should be sent to a display or printer. These are text messages about operational status and/or problem resolution matters.

A₁A₂ = RR Request for GTS messages

(Note: The following procedures were developed by the WG-TEL at its thirteenth Session, February 1994, and are submitted to the CBS Extraordinary Session 1994 for endorsement)

The structure of the text for this type of message is in a specific format. The intent is for automatic computer processing.

There are two types of request for GTS messages. The "request for GTS messages" type message is for the acquisition of data contained in GTS bulletins and the bulletins are assumed to already exist.

TYPE 1: Request for (a) bulletin(s) - can be sent to any centre on the GTS, likely to an RTH

```
BMRR01 CsCsCsCs YYGGgg
CCCC
AHD T1T2A1A2ii CCCC YYGGgg =
AHD T1T2A1A2ii CCCC YYGGgg RRx =
etc. ...
```

Limit restriction: no more than eight headings in a request, and the response will be a separate data message for each heading requested.

A. GTS regulatory or guidance material (continued)

1. Telecommunication Procedures (continued)

TYPE 2: Request for Repetition of GTS messages specified by transmission sequence number- to be sent between adjacent centres only.

BMRR01 C_aC_aC_aC_a YYGGgg
 CCCC
 SQN nnn = [one bulletin]

or

BMRR01 C_aC_aC_aC_a YYGGgg
 CCCC
 SQN nnn - nnn = [a sequence of bulletins]

or

BMRR01 C_aC_aC_aC_a YYGGgg
 CCCC
 SQN nnn/nnn/nnn = [a selected number of bulletins]

A₁A₂ = RQ Request-to-Database message

The format for this type of message will be in a specific format. The intent is for automatic computer processing. There is one type of request message to a data base (for GDPS use).

BMRQ01 C_aC_aC_aC_a YYGGgg
 CCCC
 (message request format to be determined)

A₁A₂ = DA data message

This is the returned data message type, which can also be used for special data transmission. The purpose of the "envelope" heading is to ensure that the requested data is appropriately routed back to the requesting centre, in particular if it contains a bulletin with a WMO abbreviated heading which shall not be used in the routing back to the requesting centre.

BMDA01 C_aC_aC_aC_a YYGGgg
 CCCC
 [requested bulletin]
 or [requested data]
 or [special data transmission]

The complete requested message is contained in the text of the response (including the WMO abbreviated heading) to permit the requesting centre to handle it as a response. It is enveloped in a data message type of addressed message to ensure that the response is correctly routed to the requesting centre. An addressed data message shall contain a single GTS bulletin. An example of request and reply:

Request:

BMRR01 AMMC 031330
 KWBC
 AHD SMNC01 NWBB 031200=

Response:

BMDA01 KWBC 031335
 AMMC
 SMNC01 NWBB 031200
 AAXX 03124
 91577 NIL =
 91592 32565 10812 10228 20182 40178 81800
 333 10257 56200 59001 81830=

A. GTS regulatory or guidance material (continued)**1. Telecommunication Procedures (continued)****Other types of response****Message not available** (the use of a key character group - the NIL response)

BMDA01 C_aC_aC_aC_a YYGGgg
CCCC
NIL T₁T₂A₁A₂ii CCCC YYGGgg =

Message heading not recognized (the use of a key character group - the ERR response)

BMDA01 C_aC_aC_aC_a YYGGgg
CCCC
ERR T₁T₂A₁A₂ CCCC YYGGgg (ii missing, as example)

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