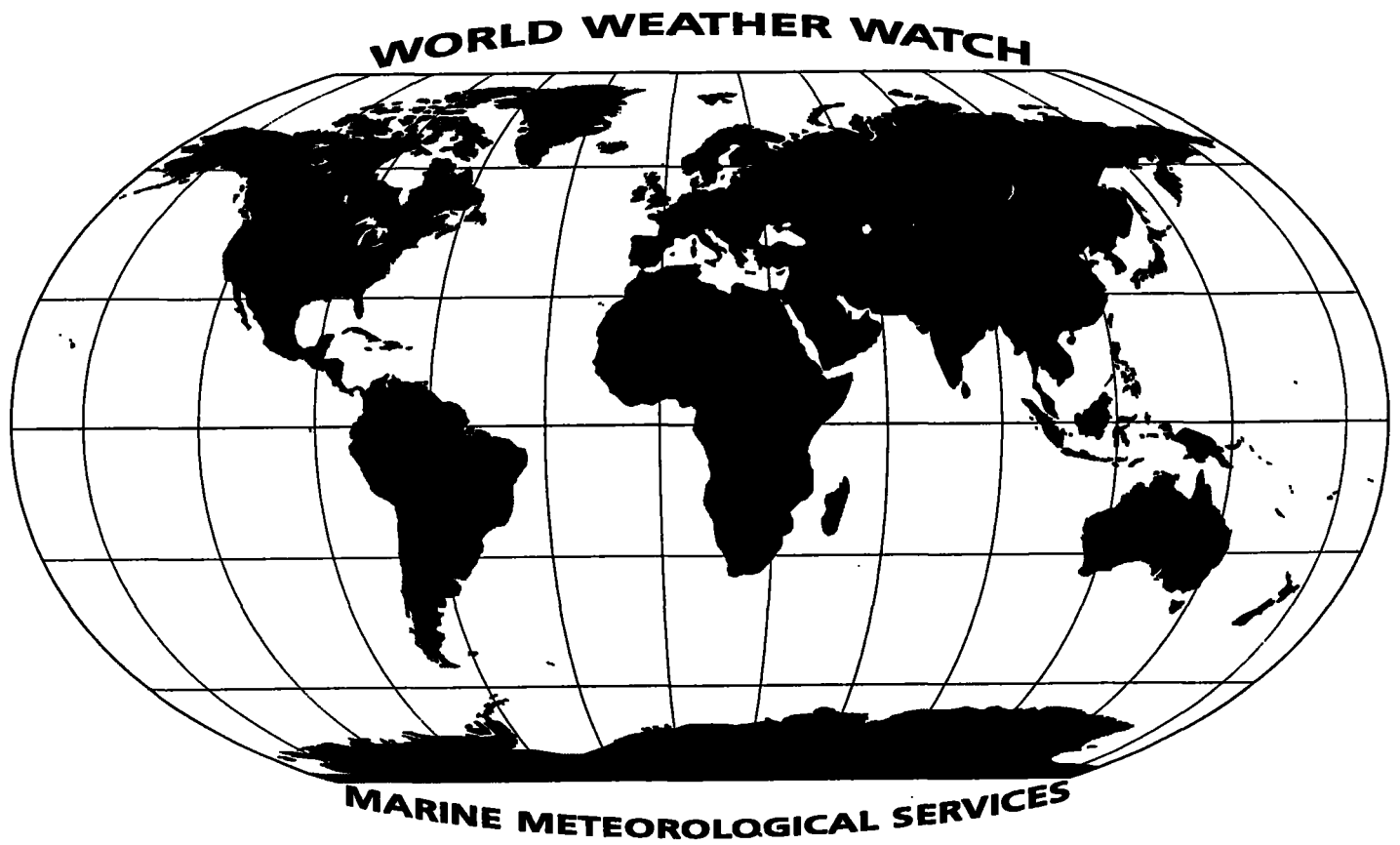


OPERATIONAL

newsletter

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World Meteorological Organization
GENEVA

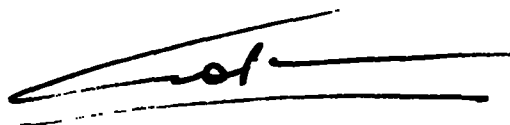
The WMO Secretariat would like to express its appreciation to all those who have contributed material to the "Operational Newsletter". ■

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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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

(Refer to Operational Newsletter Volume 1994 - No. 2)

WMO Index Number	01028	08495	11010*	11120	11240	76595
Name of Station	Bjørnøya	Gibraltar	Linz/Hoersching Flughafen	Innsbruck Flughafen	Graz/Thalerhof Flughafen	Concan
Technical Authority over Station	Norway	UK Met. Office METDS	Austro Control Met. Division	Austro Control Met. Division	Austro Control Met. Division	Mexico
Degrees: Latitude (- = S)	74°31'	36°15'	48°14'	47°16'	47°00'	21°01'
Longitude (- = W)	19°01'	5°33'	14°11'	11°21'	15°26'	86°51'
Height (Metres)	20	4	298	581	340	10
Program: TEMP	0012	0012	IRREG	00UTC	IRREG	0012
PILOT	-	-	-	-	-	-
SONDE: Regular Type Used	VRS80N	VRS80N	VRS80N	VRS80N	VRS80N	VRS80
Alternative Type Used	-	-	VRS80N	VRS80N	VRS80N	-
Frequency (MHZ)	403	403	403	403	403	403
Radiation: Correction Y=Yes/N=No	-	Y	Y	Y	Y	-
Correction Type Used	-	V93	-	-	-	-
Ground Equipment Used:	-	PC-CORA	DIGICORA	DIGICORA	DIGICORA	DIGICORA MWT1
WINDFINDING: System Used	OMEGA	OMEGA	OMEGA	OMEGA	OMEGA	-
Equipment Used	DIGICORA	PC-CORA + SP011	DIGICORA	DIGICORA	DIGICORA	DIGICORA
Date:	11/94	01/95	11/94	11/94	11/94	10/94

* Replaces 11011 Linz/Hoersching effective November 1994

C. INFORMATION ON THE 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 II — Republic of Korea (effective 1 January 1995)																				
47121	Yongwol	37°11N	128°27E	239	241		X	X	X	X	X	X	X	X	H18-09					
Region II — Kyrgyzstan																				
38220	Manas	42°51N	74°52E	627	626		X	X	X	X	X	X	X	X	H00-24					A
Region IV — Mexico																				
76595	Cancun	21°01N	86°51W		10											RW		RW		
Region IV — United States of America																				
72489	Reno, NV	39°34N	119°48W		1463											RW		RW		WT;
Region V — New Zealand																				
93320	Marco	39°05S	174°45E		200		X													
93761	Hororata	43°31S	171°56E		196		X	X	X					X	X					

1.2 Deleted stations

Region	Index No.	Name
II — India	42747	Baroda
V — New Zealand	93194	Orete Point AWS
	93883	Ivermay EDR
VI — Sweden	02443	Gavle-Sandviken Flygplats
	02565	Hultsfred Flygplats
	02571	Norrkoping/Kungsangen
	02581	Uto
	02604	Halmstad Flygplats

Region	Index No.	Name
VI — Austria	11005	Schaerding/Suben
	11011	Linz/Hoersching Flughafen
	11039	Spitzerberg-Flugfeld
	11114	Reutte/Hoefen-Flugfeld
	11122	Schwarz/Tirol
	11191	Trausdorf-Flugfeld
	11239	Graz-Thalerhof Flughafen

1.3 Changes to existing 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 II — India																				
42117	Chamoli	30.°24N	79°20E		1160			X			X									
42631	Naliya	23°15N	68°51E	21	20		X	X	X	X	X	X	X	X						
42748	Baroda Aerodrome	22°20N	73°16E	38	37		X	X	X	X	X	X	X	X	H A/R					A, M/B

C. Information on the 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	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H	Upper-air				Re- marks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
43315	Cannur (previously Cannanore)	11° 50N	75° 20E	18	11		.	X	.	.	X	.	.	.		.	.	.	.
43335	Palakkad (previously Palghat)	10° 46N	76° 39E	97	95		.	X	.	.	X	.	.	.		.	.	.	.
43352	Alapuzha (Previously Alleppey)	09° 33N	76° 25E	4	2		.	X	.	.	X	.	.	.		.	.	.	.
43371	Thiruvananthapuram (previously Trivandrum)	08° 29N	76° 57E	64	60		X	X	X	X	X	X	X	X	H2340-1340 S0610-1310	RW	P	RW	P	
43372	Thiruvananthapuram (previously Trivandrum)	08° 28N	76° 57E	8	4		.	X	.	.	X	.	.	.	H2140-1340 S2210-2340 0510-1110 0510-1310	.	.	.	.
Region II — Kyrgyzstan																				
36911	Tokmok	42° 50N	75° 17E	817	816		X	X	X	X	X	X	X	X		.	.	.	.
36974	Naryn	41° 26N	76° 00E	2041	2039		X	X	X	X	X	X	X	X		.	.	.	.
36982	Tyan-Shan	41° 53N	78° 14E	3639	3635		X	X	X	X	X	X	X	X		.	.	.	.
38345	Talas	42° 31N	72° 13E	1218	1217		X	X	X	X	X	X	X	X		.	.	.	.
38353	Bishkek	42° 48N	74° 30E	760	756		.	.	.	.	.	.	.	.		RW	.	RW	.	
38613	Zhalal-Abad	40° 55N	72° 57E	765	764		X	X	X	X	X	X	X	X		.	.	.	.
38615	Osh	40° 38N	72° 48E	875	874		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A
Region IV — United States of America																				
72583	Winnemucca/ Mun, NV	40° 54N	117° 48W	1322	1315		X	.	X	.	X	.	X	.	H00-24	.	.	.	.
Region V — New Zealand																				
93026	Mimiwhangata	35° 26S	174° 25E				.	.	.	.	.	.	.	X		.	.	.	.
Replaces station 93026 Whangaruru effective 13 September 1994																				
Region VI — Austria																				
11010	Linz/Hoersching- Flughafen	48° 14N	14° 11E	313	298		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	RW, IRREG
11120	Innsbruck- Flughafen	47° 16N	11° 21E	593	581		X	X	X	X	X	X	X	X	S00-24	RW	.	.	.	
11240	Graz/Thalerhof- Flughafen	47° 00N	15° 26E	347	340		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	RW, IRREG
Region VI — Gibraltar																				
08495	Gibraltar	36° 09N	05° 20W	4	3		.	.	.	.	.	.	.	.		RW	.	RW	.	

1.5 Temporary changes

• Notification from Argentina

That for technical reasons stations 87047 Salta Aero, 87344 Cordoba Aero and 87418 Mendoza Aero temporarily suspended radiosonde observations from 1 November to 30 November 1994.

• Notification from the Republic of Moldova

That due to lack of balloons, radiosonde/radiowind observations have been suspended at station 33815 Kisinev since 12 November 1994. Tentative recommencement of sounding is expected for January 1995.

• Notification from Tunisia

That due to budgetary constraints, station 60715 Tunis-Carthage will make, as from 1 December 1994, only one radiosonde/radiowind observation at 00 UTC and that station 60760 Tozeur continues to carry out only one radiosonde/radiowind observation at 12 UTC.

• Notification from Turkmenistan

That due to lack of consumables, stations 38687 Cardzou and 38750 Gasan-Kuli temporarily suspend upper-air observations.

4. AUTOMATIC MARINE STATIONS

KEY: Observed or Technical Parameters

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

Column	Parameters
9	Subsurface temperatures
10	Relative humidity
11	Visibility
-	Parameter not observed
X	Buoy observes this parameter
.	Data under evaluation, not reported

4.3 United States of America

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

4.3.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 24 Nov -1 Dec '94		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	72.6W	X	X	X	-	X	X	X	-	-	-	-
41002*		32.3N	75.2W	X	X	X	-	X	X	X	-	-	-	-

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

C. Information on the 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: 24 Nov - 1 Dec '94		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
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	-	-	-	-
41018		15.0N	75.0W	X	X	X	-	X	X	X	-	-	-	-
41021		31.9N	80.9W	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	-	+	+	+	-	-	-	-
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	-	-	-	-
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	+	+	+	-	+	+	+	-	-	-	-
44005*		42.9N	68.9W	X	X	X	-	X	X	X	-	-	-	-
44006		36.3N	75.5W	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	X	X	-	-	-	-
44010		36.0N	75.0W	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	-	-	-	-
44014		36.6N	74.8W	X	X	X	-	+	X	X	-	-	-	-
44019		36.4N	75.2W	X	X	X	-	X	.	.	-	-	-	-
44025		40.3N	73.2W	X	X	X	-	X	X	X	-	-	-	-
44028*		41.4N	71.1W	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	-	-	-	-
45008*		44.3N	82.4W	X	X	X	-	X	X	X	-	-	-	-
46001*		56.3N	148.2W	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 the 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: 24 Nov - 1 Dec '94		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
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	-	-	-	-
46011		34.9N	120.9W	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	-	-	-	-
46027		41.9N	124.4W	X	X	X	-	X	X	X	-	-	-	-
46028*		35.8N	121.9W	X	X	X	-	+	X	X	-	-	-	-
46029		46.2N	124.2W	+	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	X	-	-	-	-
46041		47.4N	124.5W	X	X	X	-	X	X	X	-	-	-	-
46042		36.8N	122.4W	X	X	X	-	X	X	X	-	-	-	-
46045		33.8N	118.4W	X	X	X	-	X	X	X	-	-	-	-
46050		44.6N	124.5W	+	+	+	-	+	+	+	-	-	-	-
46053		34.2N	119.8W	X	X	X	-	X	X	X	-	-	-	-
46054		34.3N	120.4W	X	X	X	-	X	X	X	-	-	-	-
46059*		38.0N	130.0W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.4N	162.3W	X	+	X	-	+	+	+	-	-	-	-
51002		17.2N	157.8W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.1N	160.8W	X	+	X	-	X	X	X	-	-	-	-
51004*		17.4N	152.5W	X	+	X	-	X	X	X	-	-	-	-
51026		21.4N	156.9W	X	X	X	-	X	X	X	-	-	-	-

Total base funded buoys:	=	31
Total other buoys:	=	40
TOTAL moored buoys:		71

+ Sensor/system failure

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

C. Information on the 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: 30 Nov - 1 Dec '94		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16811	17180	36°S	075°E	.	X	X	-	X	.	.	.	-	-	-
17818	17175	38°S	051°E	.	X	X	-	+	.	.	.	-	-	-
17819	17174	46°S	090°E	.	+	X	-	X	.	.	.	-	-	-
17820	17173	51°S	068°E	.	+	X	-	+	.	.	.	-	-	-
17821	17176	41°S	059°E	.	+	X	-	X	.	.	.	-	-	-
17822	17184	28°S	036°E	.	X	X	-	X	.	.	.	-	-	-
32811	17170	28°S	074°W	.	+	X	-	X	.	.	.	-	-	-
32812	17171	25°S	119°W	.	X	X	-	X	.	.	.	-	-	-
32813	17172	29°S	096°W	.	+	X	-	X	.	.	.	-	-	-
32814	17161	29°S	089°W	.	+	X	-	X	.	.	.	-	-	-
33834	1979	27°S	010°W	.	+	X	-	X	.	.	.	-	-	-
33838	17163	28°S	002°E	.	+	X	-	X	.	.	.	-	-	-
33839	17164	35°S	002°E	.	+	X	-	X	.	.	.	-	-	-
33840	17165	40°S	043°E	.	+	X	-	X	.	.	.	-	-	-
33841	17166	32°S	002°E	.	+	X	-	X	.	.	.	-	-	-
33842	17167	46°S	112°E	.	+	X	-	X	.	.	.	-	-	-
46551	20705	44°N	168°W	X	X	X	-	X	.	.	.	-	-	-
46552	20706	40°N	171°W	X	X	X	-	X	.	.	.	-	-	-
46553	20710	48°N	166°W	X	X	X	-	X	.	.	.	-	-	-
46554	20712	35°N	172°W	X	X	X	-	X	.	.	.	-	-	-
46555	20707	46°N	175°W	X	X	X	-	X	.	.	.	-	-	-
46556	20711	49°N	175°W	X	X	X	-	X	.	.	.	-	-	-
46557	20709	36°N	179°E	X	X	X	-	X	.	.	.	-	-	-
46558	20708	42°N	179°W	X	X	X	-	X	.	.	.	-	-	-
53823	5131	08°S	114°E	.	+	X	-	+	.	.	.	-	-	-
54807	20718	54°S	124°W	.	X	X	-	X	.	.	.	-	-	-
54808	20722	59°S	122°W	.	X	X	-	X	.	.	.	-	-	-
54809	20719	32°S	167°W	.	X	X	-	X	.	.	.	-	-	-
54810	17181	31°S	160°W	.	X	X	-	X	.	.	.	-	-	-

+ Sensor/system failure

C. Information on the operational status of elements of the surface-based sub-system (continued)
4. Automatic marine stations / 4.3 United States of America / 4.3.2 Drifting Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 30 Nov - 1 Dec '94		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
54811	20713	48°S	157°W	.	X	X	-	X	.	.	.	-	-	-
54812	17178	52°S	137°W	.	X	X	-	X	.	.	.	-	-	-
54813	20717	47°S	167°W	.	X	X		X	.	.	.			
54844	17168	31°S	113°W	.	+	X		X	.	.	.			
55801	20721	39°S	150°E	.	+	X		X	.	.	.			
56804	1977	40°S	134°E	.	+	X		X	.	.	.			
56806	1984	20°S	078°E	.	X	X		+	.	.	.			
56807	20716	21°S	099°E	.	+	X		X	.	.	.			
56808	20720	21°S	097°E	.	X	X		X	.	.	.			
56809	17169	28°S	094°E	.	X	X		X	.	.	.			
56810	17185	29°S	087°E	.	X	X		X	.	.	.			
74801	1982	59°S	072°E	.	X	+		+	.	.	.			

330 drifting buoys have been deployed in support of TOGA; 33 are operational

5. ARGOS SERVICE

5.1 ARGOS monthly status report (November 1994)

Date of statistics computation : 2 December 1994

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

Drifting Buoys	:	1043
Boats (<20 knots)	:	—
Marine Stations	:	23
Moored Buoys	:	310
Fixed Stations	:	405
Rafos Floats	:	33
Terrestrial Animals	:	79
Marine Animals	:	90
Birds	:	38
Balloons	:	5
TOTAL	:	1993

+ Sensor/system failure

C. Information on the operational status of elements of the surface-based sub-system (continued)
5. ARGOS Service / 5.1 ARGOS monthly status report (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	:	98
Fixed Stations	:	7
Marine Stations	:	2
Moored Buoys	:	—
Synoptic PTT	:	1

Transmission to NWS Washington:

Drifting Buoys	:	460
Fixed Stations	:	9
High Speed	:	0
Moored Buoys	:	61

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

BATHY	"	433
BUOY	"	124673
DRIFTER	"	4058
SYNOP	"	2527
TOTAL:		131691

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 overleaf)

Country: _____

Date effective: _____

Global Exchange:

Regional Exchange:

(please tick the appropriate box)

A		B		C		D								E		F	G
Station		Latitude	Longitude	Bulletin Identification		Implementation of Observing Programme								Elevation		Pressure Level	Remarks
Index No.	Name			TAAii	CCCC	00	03	06	09	12	15	18	21	HP	H/HA		
1.	SYNOP																
2.	TEMP																
3.	PILOT																

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 (for Volume A and the Catalogue of meteorological Bulletins), and particularly for stations included in the Regional Basic Synoptic Networks (RBSN).

2. For entries in these tables, the following should be taken into account:

Column A: The index number (IIiii) and name of each station should be entered in case of any changes in the observing programmes of the stations;

Column B: The Latitude and the Longitude in degrees and minutes with the appropriate letters (N, S, E and W) should be indicated;

Column C: The TTAAii CCCC of the abbreviated heading of the meteorological bulletins which contains reports from the station should be inserted;

Column D: "X" for implementation and "-" for non-implementation should be inserted as appropriate. In order to easily identify changes in the programme, these should be marked in red;

Column E: HP= the elevation of the station in metres (the datum level to which barometric pressure reports at the station refer);
 H = the elevation of the ground, in metres, (average level of terrain in immediate vicinity of station), is given for stations not located on aerodromes;
 HA = the official altitude of the aerodrome is given for stations located on aerodromes and is indicated by the letter "A" in the column "Other observations and Remarks" of Volume A;

Column F: For those stations not indicating pressure reduced to mean sea level (group 4PPPP) in their synoptic reports, the entry in this column shows which information is reported in lieu of group 4PPPP:

STATION	Pressure at station level reported using group 3P _o P _o P _o P _o
1000 hPa	geopotential of the given standard isobaric surface reported using group 4a3hhh
850 hPa	
700 hPa	
500 hPa	

Column G: Reasons for 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, and also possible alternate observing stations, as appropriate.

3. These tables should be sent to the Secretariat **before the 20th of the month** for inclusion in the "OPERATIONAL NEWSLETTER", as appropriate.

Annex II

GLOBAL DATA-PROCESSING SYSTEM

B. INFORMATION ON OPERATIONAL STATUS OF GDPS INCLUDING CHANGES TO WMO PUBLICATION NO. 9 - VOLUME B

3. NMC OUTPUT PRODUCTS

3.1 New products

The Fiji Meteorological Service has advised of the dissemination of new messages by Nadi Tropical Cyclone Warning Centre (TCWC):

BTAB MESSAGES

This is to advise that the Nadi Tropical Cyclone Warning Centre (TCWC), in accordance with its proposed designation as an RSMC, will issue BTAB messages of tropical cyclones occurring in its area of regional responsibility (Equator - 25 South, 160 East - 120 West) from the 1994/95 South Pacific Cyclone Season (which has just commenced).

The WMO Bulletin header and format of the message will be as recommended by IWTC-II and adopted already by other RSMCs with this specialised activity, as shown in the attached example.

NNNN

FIJI METEOROLOGICAL SERVICE
EXAMPLE OF BTAB MESSAGE WITH WMO HEADER
ADDRESSED TO NEW ZEALAND TO BE FORWARDED VIA GTS TO MELB
THEN OTHERS.

FF NZKLYMYX
290522 NFFNYMYX
WTFJ10 NFFN 010000

NFFN 01P TEST 941101 0000 100S 1700E 200 050 0998 1008 0600
20 030 0250 0350 0350 0250 D

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

•Notification from Turkey

VI-ii Ankara (YMA20) RTT Broadcast effective 01.01.95 changes.

Annex IV

CODES

B. MANUAL ON CODES

3. NATIONAL PRACTICES

3.3 Changes to codes or procedures

3.3.1 Denmark indicated that the following changes and national deviations from international standard are to be effective as per 2 November 1994:

WMO-No. 306 Manual on Codes, Volume II Regional Codes and National Coding Practices, Region VI:

Page II-6-E-3, DENMARK

Concerning SYNOP change to:

"3EsnTgTg }
4E'sss } When reported, these groups are included at 0600 UTC,
except that stations in Greenland (II = 04) observe and include them at 1200 UTC."

Page II-6-F-3, DENMARK

Change to:

"Special weather report (sudden changes) for national purposes

MMMMM }
BBBBB } GGggiw

lliii w2ixhVVV Nddff (00fff) 7wwW1W2
333 8N5Ch5h5 9SpSpssp

The indicator MMMMM denotes a sudden deterioration, BBBBB a sudden improvement.

Specifications of symbolic letter other than those specified in Volume I:

w2 - Indication of the element forming the principal object for the taking of a special weather report

Code figure

- 0 Gusts
- 1 Wind (either wind direction or speed, or both)
- 2 Visibility
- 3 Cloud (amount and/or height)
- 4 Precipitation
- 7 Dust storm, sandstorm, drifting dust or sand, or blowing or drifting snow
- 8 Thunderstorm (with or without precipitation)
- 9 Squall, or funnel cloud(s) (tornado)

B. Manual on Codes (continued)**3. National practices / 3.3 Changes to codes or procedures (continued)**

3.3.2 Belgium reported the following addition to its national coding procedure with regard to the international code FM15-IX Ext. METAR and FM 16-IX Ext. SPECI:

Page 11-6-E-10 BELGIUM, replace paragraph 5 and add new paragraph 6 as follows:

5. Group N_sN_sN_{sh}h_sh_s:

The cloud amount is reported according to the following table:

SKC	Sky clear
FEW	1/8 - 2/8
SCT	3/8 - 4/8
BKN	5/8 - 7/8
OVC	8/8

6. Trend forecasts:

The Air Force stations use the colour code, together with the change groups (BECMG and TEMPO) without a time group, according to the following table:

Colour code	Visibility	Cloud base
Blue BLU	8 km or more	2500 ft or more
White WHT	5 km — 8 km	1500 ft — 2500 ft
Green GRN	3.7 km — 5 km	700 ft — 1500 ft
Yellow YLO	1.6 km — 3.7 km	300 ft — 700 ft
Amber AMB	0.8 km — 1.6 km	200 ft — 300 ft
Red RED	Less than 0.8 km	Less than 200 ft
Black BLACK	Airfield not in use due to other reasons than visibility and cloud base	

Note: The significant cloud base is 3/8 or more

3.3.3 The Intergovernmental Council on Hydrometeorology (ICH) sent the following information which related to national coding procedures with regard to regional code forms RF 6/03 WAFOR and RF 6/04 WAREP. The Member countries of ICH are in Region VI: Russian Federation, Ukraine, Belarus, Moldova, Armenia, Georgia, Azerbaijan and in Region II: Kazakhstan, Turkmenistan, Uzbekistan, Tajikistan and Kyrgystan.

ADDENDA TO CODE FORMS RF 6/03 WAFOR AND RF 6/04 WAREP FOR USE IN THE ICH MEMBER COUNTRIES

INTRODUCTION

1. The catastrophic impacts which hazardous and extreme hydrometeorological phenomena may have in the socio-economic sphere, through either their sudden development or forecasting difficulties, calls for the organization of a system for supplying additional information on the presence and occurrence of phenomena in border areas.

B. Manual on Codes (continued)

3. National practices / 3.3 Changes to codes or procedures (continued)

2. Mutual warning of hazardous and extreme phenomena may be improved by concluding bilateral agreements between neighbouring countries requiring the national Hydrometeorological Services to warn their partners in good time in cases when hazardous or extreme phenomena occur or are expected in their own territory and may directly or indirectly affect that of the neighbouring country. Such information shall be transmitted at the times and covering the areas (stations) agreed between the partners.
3. The phenomena and parameters generally covered by such exchanges of additional information shall be: strong wind, precipitation, sharp drop in temperature, heavy snowfall, blowing snow, glaze, rime and other hazardous phenomena for the area. The phenomena and parameters to be exchanged shall be selected on the basis of the general state of the atmosphere and specific local conditions causing dangerous weather phenomena of given intensity and their development in the given area.
4. The thresholds at which these phenomena are considered hazardous and to be included in an exchange of additional information for warning purposes shall be determined by joint decision.
5. Bilateral exchanges shall include information and warnings concerning really hazardous phenomena.
6. Information and warnings of hazardous and extreme phenomena shall be exchanged in standard format in compliance with the meteorological telecommunication procedures for addressed messages.
7. The regional code forms RF 6/03 WAFOR and RF 6/04 WAREP, together with the present addenda recommended by sessions of the ICH, shall be used to exchange the information or warnings. If necessary, Code tables 0642 (RF 6/04 WAREP) and 0644 (RF 6/03 WAFOR) may be expanded and amended by the partners, in which case the Executive Committee of the ICH and the WMO Secretariat shall be duly informed.

A. ADD UNDER THE NOTE TO CODE TABLE 0644:

Note 2: The country indicator *i_c* in group *llic_ini_n* for two countries with the same block number *ll* shall be determined by joint decision taking account of the leading hundreds figure of the *iii* station numbering system as agreed with the other countries in the same block. The Executive Committee of the ICH and its WG-1 shall be informed accordingly.

B. ADD TO THE REGULATIONS FOR RF 6/04 WAREP:

- 6/04.2 The time group takes the form *YYGGggi_w* or *GGggi_w*. In the existing practice, storm reports in CIS countries are transmitted with the time group *GGggi_w* (the day of the month is not indicated). The use of either group shall be determined on a bilateral basis.
- 6/04.9 Group *2ddww*
- This group shall be used in spout (*C_wC_w* = 19) and thunderstorm (*C_wC_w* = 91) reports. The direction in which the spout or thunderstorm is observed shall be reported for *dd*, and the type of precipitation (if any) for *ww* (if there is no precipitation, *ww* shall be reported as 19 in the case of a spout and 17 in the case of a thunderstorm).

B. Manual on Codes (continued)**3. National practices / 3.3 Changes to codes or procedures (continued)**6/04.10 Group 4T_xT_xT_nT_n

This group shall be used in intense heat ($C_W C_W = 21$) or severe frost ($C_W C_W = 24$) reports. The minimum night-time temperature shall be reported for T_nT_n and the sign of the temperature shall be given by C_wC_w (if C_wC_w = 21 it is positive and if C_wC_w = 24 it is negative).

6/04.11 Group 5f_xf_x

This group shall be transmitted after group 1ddff if it is necessary to report f_xf_x in addition to ff.

6/04.12 Group 6RRRt_rR

This group may, by bilateral agreement, be reported instead of group 3RRRt_rt_r if it is important for the partner countries to maintain the five-figure group.

6/04.13 Group 7Vvww

This group shall be used in low cloud ($C_W C_W = 30$) reports whenever precipitation is observed; in blowing snow ($C_W C_W = 76$) reports, the type of blowing snow shall be reported for ww.

6/04.14 Group 8N_sCh_sh_s

This group shall be included in low clouds ($C_W C_W = 30$) and low visibility ($C_W C_W = 40$) reports. The content of the group shall be in accordance with code from FM 12-X SYNOP (KN-01).

6/04.15 Groups 932RR, RR_snTT

In these groups, the diameter of hailstones, glaze, rime, mixed deposits and wet snow deposits (corresponding to code figures 90, 53, 54, 55 and 56) shall be reported for RR.

C. SPECIFICATIONS OF SYMBOLIC LETTERS#

ff Wind speed, in units indicated by i_w.

RRR Amount of precipitation which has fallen during the period preceding the time of observation, as indicated by t_rt_r or by t_R (Code table 4019). Code table 3590).

C Genus of cloud. (Code table 0500).

f_xf_x Highest gust wind speed, in metres per second.

h_sh_s Height of cloud base. (Code table 1677)

N_s Amount of individual cloud layer whose height is indicated by h_sh_s. (Code table 2700)

RR Diameter of hailstones (max.), diameter of glaze and rime deposits. (Code table 3570)

Reference is made to the code tables of the code form KN-01 (1989 version)

B. Manual on Codes (continued)
3. National practices / 3.3 Changes to codes or procedures (continued)

- T_nT_n Minimum night-time temperature, in whole degrees Celsius.
- T_xT_x Maximum diurnal temperature, in whole degrees Celsius.
- t_R Duration of period of reference for amount of precipitation. (Code table 4019)
- W Meteorological optical range. (Code table 4377)
- ww Present weather. (Code table 4677)
- gg Minutes.
- sn Sign (+ or -) of the air temperature.
- TT Air temperature.

D. CODE TABLE 0642

Phenomenon	C _w C _w	Additional groups
* Wind speed (mean value > 20 m s ⁻¹) Wind speed (thresholds determined by the partners)	10	1ddff
	11	1ddff 577f _x f _x
	12	
	13	
	14	
	15	
• Squalls (gusts < 25 m s ⁻¹) Squalls (gusts > 25 m s ⁻¹) Squalls (gusts > 25 m s ⁻¹ and thunderstorm) and/or spouts	16	
	17	1ddff 577f _x f _x
	18	1ddff 577f _x f _x
	19	1ddff 577 f _x f _x 2ddww
* Intense heat Sharp drop in T _{max} compared with T _{max} in preceding 24h Sharp drop in mean daily T * Severe frost Sharp drop in T _{min} compared with T _{min} in preceding 24 h T _{max} increasing to >5°C with sss > 15 cm and rain Sharp drop in T in 3 h	20	
	21	4T _x T _x T _n T _n
	22	
	23	
	24	4T _x T _x T _n T _n
	25	
	26	
	27	
	28	
	29	
* Low cloud Dust storm or sandstorm	30	(7VVww) 8N _s Ch _s h _s
	31	
	32	
	33	
	34	
	35	1ddff 577f _x f _x 7VVww
	36	
	37	
	38	
	39	

* Phenomena (and their C_wC_w code figures) recommended for inclusion in exchanges of information between CIS countries in addition to those recommended in the main code.

B. Manual on Codes (continued)

3. National practices / 3.3 Changes to codes or procedures (continued)

Phenomenon	C _w C _w	Additional groups
* Visibility (< 3,000 m)	40	7VVww (8NsChshs) (1ddff 577fxfx)
	41	
	42	
	43	
Visibility < 200 m	44	
	45	
	46	
Visibility < 100 m with snowstorm/dust storm	47	
	48	
Visibility < 50 m	49	
	50	
	51	
	52	
* Glaze	53	RRs _n TT
* Rime	54	RRs _n TT
* Mixed deposits	55	RRs _n TT
* Wet snow deposits	56	RRs _n TT
* Glazed frost	57	
	58	
	59	
Rain > 25 mm/h	60	3RRRt _r t _r or 6RRRt _r
	61	3RRRt _r t _r or 6RRRt _r
	62	3RRRt _r t _r or 6RRRt _r
	63	
	64	
* Intense (heavy) rain	65	3RRRt _r t _r or 6RRRt _r
	66	
Rain with glaze on ground and/or structures	67	3RRRt _r t _r or 6RRRt _r
* Ice storm	68	
Heavy mixed precipitation	69	3RRRt _r t _r or 6RRRt _r
Increase in the depth of snow by > 15 cm/12h	70	3RRRt _r t _r or 6RRRt _r 55sss
	71	
	72	
Blowing snow, depth of loose snow > 15 cm, mean wind speed > 8m s ⁻¹	73	
	74	3RRRt _r t _r or 6RRRt _r
* Heavy snowfall	75	1ddff 577f _x f _x 7VVww
* Blowing snow	76	55sss
Snowstorm and snowfall, mean wind speed > 8 m s ⁻¹	77	
	78	
	79	
	80	
	81	
	82	
	83	
	84	
	85	
	86	
	87	
	88	
	89	

* Phenomena (and their C_wC_w code figures) recommended for inclusion in exchanges of information between CIS countries in addition to those recommended in the main code.

B. Manual on Codes (continued)
3. National practices / 3.3 Changes to codes or procedures (continued)

Phenomenon	CwCw	Additional groups
Hail	90	932RR
* Thunderstorm	91	1ddff 577f _x f _x 2ddww
	92	
	93	
	94	
	95	
	96	
	97	
	98	
	99	

* Phenomena (and their CwCw code figures) recommended for inclusion in exchanges of information between CIS countries in addition to those recommended in the main code.

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Switzerland**

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International +41 22 730 81 11
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Telex: 41 41 99 OMM CH
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