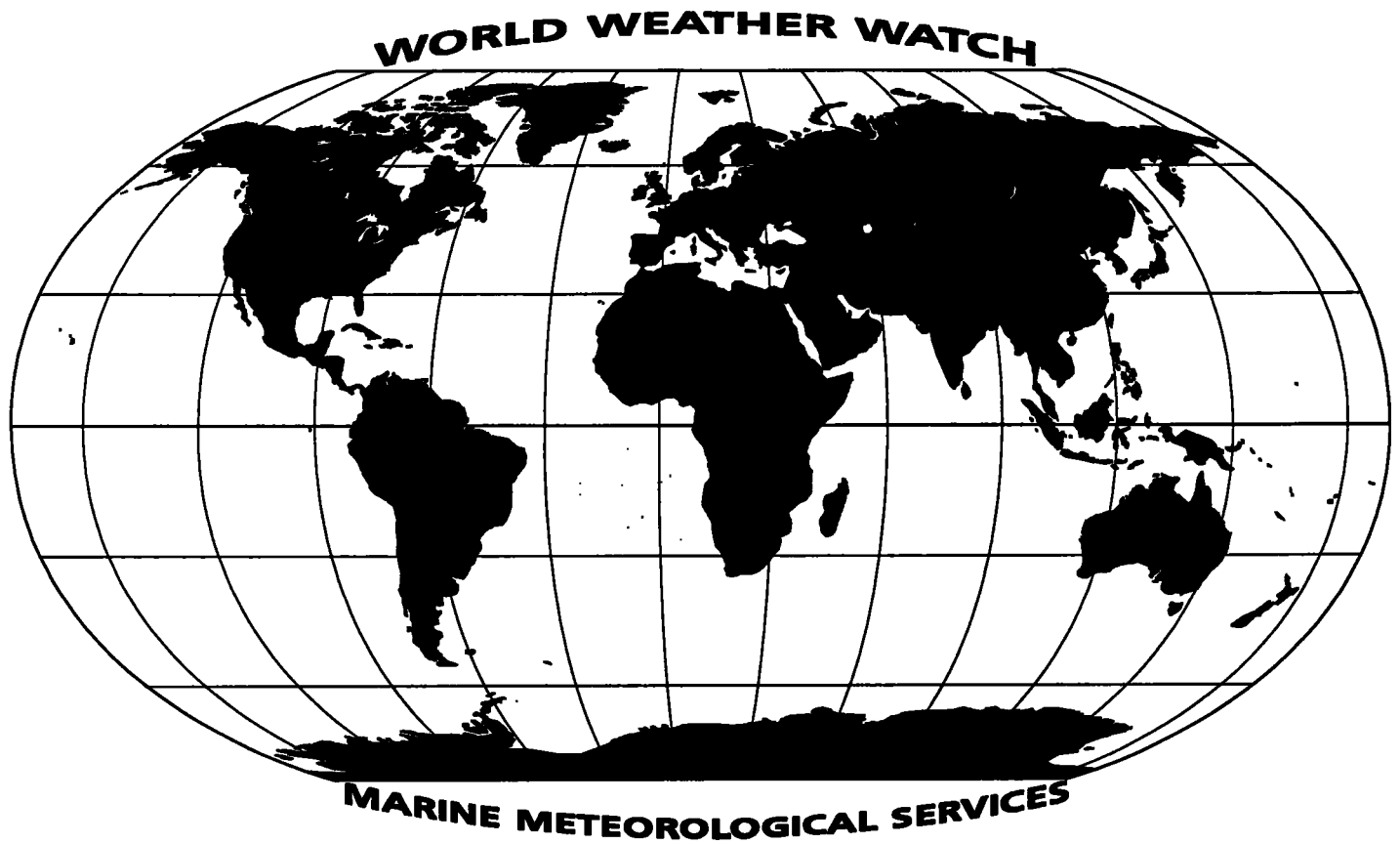


OPERATIONAL *newsletter*

Volume 1995 — No. 11/12



World Meteorological Organization
GENEVA

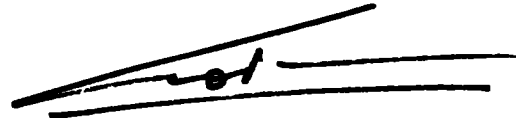
The WMO Secretariat would like to express its appreciation to all those who have contributed material to the "Operational Newsletter". ■

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)

The following stations operated by the USA will be implementing the VAISALA RS80-56 radiosonde. The implementation times will begin at 0000 UTC.

Index No.	Station Name	SONDE		Date Effective
		Old	New	
70133	Kotzebue, AK	VIZ-B	RS80-56	1 November 1995
70200	Nome, AK	VIZ-B	RS80-56	1 November 1995
70219	Bethel, AK	VIZ-B	RS80-56	1 November 1995
70231	McGrath, AK	VIZ-B	RS80-56	1 November 1995
70261	Fairbanks, AK	VIZ-B	RS80-56	1 November 1995
70316	Cold Bay, AK	VIZ-B	RS80-56	1 December 1995
70326	King Salmon, AK	VIZ-B	RS80-56	1 November 1995
70350	Kodiak, AK	VIZ-B	RS80-56	1 November 1995
70361	Yakutat, AK	VIZ-B	RS80-56	1 November 1995
72265	Midland, TX	VIZ-B	RS80-56	1 November 1995
72270	El Paso, TX	VIZ-B	RS80-56	1 December 1995
72274	Tucson, AZ	VIZ-B	RS80-56	1 November 1995
72363	Amarillo, TX	VIZ-B	RS80-56	1 November 1995
72403	Sterling, VA	VIZ-B	RS80-56	1 November 1995
72469	Denver, CO	VIZ-B	RS80-56	1 November 1995
72672	Riverton, WY	VIZ-B	RS80-56	1 November 1995
72681	Boise, ID	VIZ-B	RS80-56	1 November 1995
72747	International Falls, MN	VIZ-B	RS80-56	1 November 1995
74389	Gray, ME	VIZ-B	RS80-56	1 November 1995
91165	Lihue, HI	VIZ-B	RS80-56	1 November 1995
91334	Chuuk, ECI	VIZ-B	RS80-56	1 December 1995
91348	Ponape, ECI	VIZ-B	RS80-56	1 December 1995
91408	Koror, Palau, WCI	VIZ-B	RS80-56	1 December 1995
91413	Yap, WCI	VIZ-B	RS80-56	1 December 1995
91765	Pago Pago, Am Samoa	VIZ-B	RS80-56	1 December 1995

B. CHANGES IN REGIONAL BASIC SYNOPTIC NETWORK

3 CHANGES TO EXISTING STATIONS

Index No.	Station Name	Latitude	Longitude	Obs. Program		
				S	W	R
93417	Paparaumu Aerodrome	40 54 S	174 59 E		X	X
93420	Paparaumu AWS	40 54 S	174 59 E	X		
93844	Invercargill Aerodrome	46 25 S	168 20 E		X	X
93845	Invercargill Airport AWS	46 25 S	168 20 E	X		
93944	Campbell Island	52 33 S	169 09 E		X	X
93947	Campbell Island AWS	52 33 S	169 09 E	X		
93986	Chatham Island	43 57 S	176 34 W		X	X
93987	Chatham Island AWS	43 57 S	176 34 W	X		

**C. INFORMATION ON THE OPERATIONAL STATUS OF ELEMENTS OF
THE SURFACE-BASED SUB-SYSTEM**

1. PUBLICATION No. 9 — Volume A - Stations

An up-to-date list of stations in Croatia, Slovenia, The Former Yugoslav Republic of
Macedonia and Other Stations in Eastern Europe can be found on pages 3-8.

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— New Zealand																			
93064	TINOPAI	3614S	17415E	-	20		.	X	X	X	.	.	.	X		.	.	.	.
93947	CAMPBELL ISLAND AWS	5233S	16909E	19	15		X	X	X	X	X	X	X	X	H00-24	.	.	.	.

1.2 DELETED STATIONS

Index No.	Name
Region VI — Germany	
10143	NEUMJENSTER-WASBEK
10234	ROTEBURG
10273	BASEPOHL
10533	GIESSEN

Index No.	Name
10725	BADEN-OOS
Region V - New Zealand	
93945	CAMPBELL ISLAND AWS
93946	CAMPBELL IS. STANDBY AWS

1.3 CHANGES TO EXISTING STATIONS

(Changes are underlined>. Blank columns indicate that data remains unchanged)

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 — Russian Federation (as from 1.II.1996)																			
29998	ORLIK																		
Region VI — Germany																			
10486	<u>DRESDEN</u>																		
10123	<u>WANGEROOGE</u>						X	X	X	X	X	X	X	X					
10272	WITTSTOCK						X	X	X	X	X	X	X	H00-24	RW	RW	RW	W	
10658	BAD KISSINGEN						X	X	X	X	X	X	X	H00-24					
10675	BAMBERG						X	X	X	X	X	X	X	H00-24					
Region VI — Ukraine																			
33998	AI-PETRI																		

1.5 TEMPORARY CHANGES

NOTIFICATION FROM EGYPT

62366 Cairo Airport

Is deleted as a climatological station, but is
still in operation as a synoptic station

62435 Kharga

Is in operation as a climatological station
since 4 July 1995.

3. MOBILE SEA STATIONS

3.1 AUTOMATED SHIPBOARD AEROLOGICAL PROGRAMME (ASAP)

NOTIFICATION FROM ASAP COORDINATING COMMITTEE

ASAP OPERATORS

NAME	SHIP	CALL SIGN	HEX ADDRESS	RELEASE HEIGHT	FOCAL POINT	COUNTRY
S-I/ASAP 1	Godafoss	V2EZ	Inmarsat-C	13 m	Flosi H. Sigurdsson	Iceland
					Phone: +354 5 600 600	
					Fax.: +354 5 528 121	
					Email: flosi@verdur.is	

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H	Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
13492	POPOVA SAPKA	41 01N	20 53E	1750		850 HPA	.	.	X	X	X	X	.	.	H06-15	.	.	.	.
493	P KRIVA PALANKA	42 12N	22 20E	696	691		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
575	POZARANE-PGC	41 51N	20 52E	885			X	X	X	X	X	X	X	X	H00-24	.	.	.	.
577	LAZAROPOLE	41 32N	20 42E	1321	1333	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.
578	OHRID	41 07N	20 48E	761	760	850 HPA	.	X	X	X	X	X	X	.	H03-21	.	.	.	.
579	OHRID-AERODROM	41 06N	28 49E	700	705		.	X	X	X	X	X	X	.	H03-21	.	.	.	.
580	PRETOR-PGC	40 51N	21 04E	910	912		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
581	TOPOLCANI-PGC	41 13N	21 28E				X	X	X	X	X	X	X	X	H00-24	.	.	.	.
583	P BITOLA	41 03N	21 22E	589	586		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
584	SOLUNSKA GLAVA	41 44N	21 31E	2540		700 HPA	.	.	X	X	X	X	X	.	H06-19	.	.	.	.
585	PRILEP	41 20N	21 34E	674	673		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
586	P SKOPJE-PETROVAC	41 58N	21 39E	239	238		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
588	SKOPJE-ZAJCEPRID	42 01N	21 24E	301	302		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
590	GJURISTE-PGC	41 54N	21 51E	856	855		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
591	STIP	41 45N	22 11E	327	326		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
592	DEMIR KAPIJA	41 25N	22 15E	126	125		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
593	POZAR-PGC	41 18N	22 25E	1030	1031		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
594	VINICA-PGC	41 53N	22 30E	513	518		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
595	STRUMICA	41 26N	22 39E				.	X	X	X	X	X	X	.	H03-20	.	.	.	.
597	GEVGELIJA	41 09N	22 30E	59	60		.	X	X	X	X	X	X	.	H03-20	.	.	.	.
598	BEROVO	41 43N	22 51E	836	834	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H	Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
14005	BOVEC ¹⁾	46 20N	13 34E		452		.	.	.	.	.	.	.	.		.	.	.	.
006	VOGEL	46 16N	13 50E		1535		.	.	X	.	X	.	.	.		.	.	.	.
007	RATECE	46 30N	13 43E	865	864	850 HPA	.	.	X	.	X	.	X	.		.	.	.	.
008	KREDARICA	46 23N	13 51E	2515	2514	700 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.
009	VOJSKO	46 02N	13 54E		1067		.	.	X	.	X	.	.	.		.	.	.	.
010	LESCE	46 22N	14 11E		515		.	.	X	.	X	.	.	.		.	.	.	.
012	KATARINA	46 06N	14 22E		685		.	.	X	.	X	.	.	.		.	.	.	.
014	LJUBLJANA/BRNIK	46 13N	14 29E	384	364		X	X	X	X	X	X	X	X	S00-24	.	.	.	.
015	LJUBLJANA/BEZIGRAD	46 04N	14 31E	298	299		X+	X+	X	X	X	X	X	X+	H06-20	.	.	RW	.	+ AUT
020	ROGLA	46 27N	15 20E		1480		.	.	X	.	X	.	X	.		.	.	.	.
021	SLOVENJ GRADEC	46 29N	15 07E		452		.	.	X	X	X	.	.	.	H06-13	.	.	.	.
023	CELJE	46 15N	15 15E		244		.	X	X	X	X	.	X	.	H03-20	.	.	.	.
024	LISCA	46 04N	15 17E	941	943	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.
025	MARIBOR/TABOR	46 32N	15 39E	274	275		.	.	X	X	X	X	X	.	H06-15	.	.	.	.
026	MARIBOR/SLIVNICA	46 29N	15 41E	265	264		X	X	X	X	X	X	X	X	S00-24	.	.	.	.
031	MURSKA SOBOTA	46 39N	16 11E	188	188		.	X	X	X	X	X	X	.	H03-20	.	.	.	.
105	PORTOROZ/SECOVLJE	45 29N	13 37E	3	2		X	X	X	X	X	X	X	X	S00-24	.	.	.	.
106	NOVA GORICA	45 54N	13 38E	56	55		.	X	X	X	X	.	X	.	H03-20	.	.	.	.
111	ILIRSKA BISTRICA	45 34N	14 15E		413		.	.	X	.	X	.	.	.		.	.	.	.
112	POSTOJNA	45 46N	14 12E		533		.	.	X	X	X	.	.	.		.	.	.	.
118	KOCEVJE	45 38N	14 52E		467		.	.	X	.	X	.	X	.		.	.	.	.
120	CRNOMELJ	45 34N	15 09E		157		.	.	X	.	X	.	X	.		.	.	.	.
121	NOVO MESTO	45 48N	15 11E	213	220		.	X	X	X	X	X	X	.	H03-20	.	.	.	.

1) Temporarily suspended

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H	Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
14216	RIJEKA/KOZALA	45 20N	14 27E	125	120	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	PH;SOILTEMP;SUNDUR
219	PARG	45 36N	14 38E	863	863	850 HPA	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	M;MONT;SUNDUR
232	KARLOVAC	45 30N	15 33E	117	112	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SUNDUR
234	KRAPINA	46 08N	15 53E	203	202	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SOILTEMP;SUNDUR
235	PUNTIJARKA	45 55N	15 58E	988	988	850 HPA	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	M;MONT;PH;SOLRA;SUNDUR
236	ZAGREB/GRIC	45 49N	15 59E	162	157	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	CLIMAT(C);SUNDUR
240	ZAGREB/MAKSIMIR	45 49N	16 02E	128	123	1000 GPM	X	X	X	X	X	X	X	X	H00-24	RW	P	RW	P	CLIMAT(T);EVAP;PH;SOILTEMP;SOLRA;SUNDUR
241	ZAGREB/PLESO	45 44N	16 04E	107	106	1000 GPM	X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR
244	SISAK	45 30N	16 22E	106	98	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SOILTEMP;SUNDUR
246	VARAZDIN	46 18N	16 23E	168	167	1000 GPM	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
248	KRIZEVCI	46 02N	16 33E	146	155	1000 GPM	.	.	.	.	.	.	.	.		.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
253	BJELOVAR	45 44N	16 51E	142	141	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SOILTEMP;SUNDUR
256	BILOGORA	45 53N	17 12E	263	261	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SUNDUR
258	DARUVAR	45 36N	17 14E	161	161	1000 GPM	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	METAR;PH;SUNDUR
279	OSIJEK/SPA ¹⁾	45 32N	18 38E	92	89	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
283	OSIJEK/ZELENO POLJE ²⁾	45 32N	18 44E	92	89	1000 GPM	.	.	.	.	.	.	.	.		.	.	.	.
284	OSIJEK/KLISA ³⁾	45 28N	18 49E	88	88	1000 GPM	.	.	.	.	.	.	.	.		.	.	.	.
301	POREC	45 14N	13 36E	15	15	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SOILTEMP;SUNDUR
303	ROVINJ/SV.IVAN NA PUCINI	45 03N	13 37E		8	1000 GPM	.	.	X	.	X	.	.	.	H00-24	.	.	.	.	SEA;SEATEMP
307	PULA/AERODROME	45 54N	13 55E	63	63	1000 GPM	X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR
308	PAZIN	45 14N	13 56E	293	291	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	EVAP;SOILTEMP;SUNDUR
314	MALI LOSINJ	44 32N	14 28E	53	53	1000 GPM	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	PH;SEA;SEATEMP;SUNDUR
317	RIJEKA-OMISALJ	45 13N	14 35E	85	85	1000 GPM	.	.	.	X	X	.	.	.	H07-15	.	.	.	.	A;METAR;SPECI;SUNDUR
320	CRIKVENICA	45 10N	14 42E		2	1000 GPM	.	.	.	X	X	.	.	.	H07-15	.	.	.	.	A;METAR;SPECI;SUNDUR
321	RAB	44 45N	14 46E	20	24	1000 GPM	.	.	X	X	X	X	.	.	H06-20	.	.	.	.	SEA;SEATEMP;SUNDUR
323	SENJ	44 59N	14 54E	28	26	1000 GPM	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	PH;SEA;SEATEMP;SUNDUR
324	ZAVIZAN	44 49N	14 59E	1597	1594	850 HPA	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	EVAP;M;MONT;PH;SUNDUR
328	OGULIN	45 16N	15 14E	328	328	1000 GPM	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	EVAP;PH;SUNDUR
330	GOSPIC	44 33N	15 22E	565	564	1000 GPM	.	X	X	X	X	X	.	.	H03-20	.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
370	SLAVONSKI BROD	45 10N	18 00E	89	88	1000 GPM	X	X	X	X	X	X	X	X	H00-24	p6)	p6)	p6)	p6)	METAR;EVAP;PH;SPECI;SUNDUR

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	
14382	GRADISTE	45 09N	18 42E	98	97	1000 GPM	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	SUNDUR
427	VELA SESTRICA	43 51N	15 12E		35	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SEA
428	ZADAR/PUNTAMIKA	44 08N	15 13E	7	5	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SUNDUR
431	ZADAR/ZEMUNIK	44 06N	15 21E		82	1000 GPM	.	.	X	X	X	X	X	.	H06-18	.	.	.	.
437	GRADAK ⁴⁾	44 18N	15 51E		560	1000 GPM	.	.	.	.	.	.	.	.		.	.	.	.
438	SIBENIK	43 44N	15 55E	75	77	1000 GPM	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SUNDUR
441	KOMIZA	43 03N	16 02E	20	6	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SEA;SEATEMP;SUNDUR
442	KNIN ⁵⁾	44 02N	16 12E	255	255	1000 GPM	.	.	X	X	X	.	.	.	H06-20	.	.	.	.	SUNDUR
443	PALAGRUZA	42 24N	16 16E	98	97	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SUNDUR
444	SPLIT/RESNIK	43 32N	16 18E	21	19	1000 GPM	X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR;SUNDUR
445	SPLIT/MARJAN	43 31N	16 26E	128	122	1000 GPM	X	X	X	X	X	X	X	X	H00-24	.	p6)	p6)	p6)	CLIMAT(C);SEA;SEATEMP;SOLRA;SUNDUR
447	HVAR	43 10N	16 27E	25	20	1000 GPM	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SEA;SEATEMP;SUNDUR
452	LASTOVO	42 26N	16 54E	187	186	1000 GPM	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	SUNDUR
454	MAKARSKA	43 17N	17 01E	49	49	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SEA;SUNDUR
457	IMOTSKI	43 27N	17 13E		435	1000 GPM	.	.	X	.	X	.	.	.		.	.	.	.
462	PLOCE	43 02N	17 25E	5	2	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	SEA;SUNDUR
472	DUBROVNIK/GORICA	42 39N	18 05E	53	52	1000 GPM	.	.	X	X	X	X	X	.	H06-20	.	.	.	.	PH;SEA;SEATEMP;SUNDUR
474	DUBROVNIK/CILIPi	42 34N	18 16E	165	157	1000 GPM	.	.	X	X	X	.	.	.	H05-14	.	.	.	.	A;METAR

- 1) Station newly established in replacement of: 14283 & 14284
- 2) Staff & equipment transferred to 14279
- 3) Staff transferred to 14279
- 4) Station temporarily closed
- 5) Station temporarily operational from 06-13 UTC
- 6) Temporarily discontinued

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
13067	P PALIC	46 06N	19 46E	105	102		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
160	P SOMBOR	45 46N	19 09E	89	87		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
168	P NOVI SAD RIMSKI SANCEVI	45 20N	19 51E	87	86		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	SOLRA;SUNDUR
173	ZRENJANIN	45 22N	20 25E	82	80		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SUNDUR
174	KIKINDA	45 51N	20 28E	82	81		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
180	BANATSKI KARLOVAC	45 03N	21 02E	91	90		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	SOILTEMP;SUNDUR
183	P VRSAC	45 09N	21 19E	85	83		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
228	P BIHAC	44 49N	15 53E	250	246		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
242	P BANJA LUKA	44 47N	17 13E	156	153		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;PH;SOILTEMP;SOLRA;SUNDUR
244	BUGOJNO	44 04N	17 28E	566	562		.	X	X	X	X	.	.	.	H03-20	.	.	.	.	PH;SOILTEMP;SUNDUR
249	ZENICA	44 13N	17 54E	348	345		.	X	X	X	X	.	.	.	H03-20	.	.	.	.	PH;SOILTEMP;SUNDUR
257	TUZLA	44 33N	18 42E	306	305		.	X	X	X	X	.	.	.	H03-20	.	.	.	.	PH;SOILTEMP;SUNDUR
262	P LOZNICA	44 33N	19 14E	122	121		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
266	SREMSKA MITROVICA	45 06N	19 33E	83	82		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP
269	P VALJEVO	44 19N	19 55E	177	176		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
272	P BEOGRAD/SURCIN	44 49N	20 17E	99	96		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR;SUNDUR
274	P BEOGRAD	44 48N	20 28E	132	132		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C);SOILTEMP;SUNDUR
275	BEOGRAD/KOSUTNJAK	44 46N	20 25E	203	203		.	.	.	.	.	.	.	.	H06-20	.	.	.	.
279	SMEDEREVSKA PALANKA	44 22N	20 57E	122	121		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
285	P VELIKO GRADISTE	44 45N	21 31E	84	82		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
289	P CRNI VRH	44 07N	21 57E	1039	1037	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;SUNDUR
295	P NEGOTIN	44 14N	22 33E	44	42		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;PH;SOLRA;SUNDUR
340	LIVNO	43 50N	17 01E	728	724	850 HPA	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
348	P MOSTAR	43 21N	17 48E	108	99		.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SOILTEMP;SOLRA;SUNDUR
352	P BJELASNICA	43 43N	18 16E	2070	2067	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	MONT;SUNDUR
353	P SARAJEVO/BUTMIR	43 49N	18 20E	511	510		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR;SPECI;SUNDUR
354	P SARAJEVO	43 52N	18 26E	638	630		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C);PH;SUNDUR
356	CEMERNO	43 14N	18 36E	1309	1305	850 HPA	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SOILTEMP;SUNDUR
361	ZABLJAK	43 09N	19 08E	1450	1450	850 HPA	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SOLRA;SUNDUR
363	P PLEVLJA	43 21N	19 21E	788	784	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR

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	
13367	P ZLATIBOR	43 44N	19 43E	1029	1029	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;MONT;PH;SUNDUR
369	P SJENICA	43 17N	20 00E	1039	1038	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SUNDUR
370	POZEGA UZICKA	43 50N	20 02E	312	310		.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SUNDUR
376	P KRALJEVO	43 42N	20 42E	217	215		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
378	KOPAONIK	43 17N	20 48E	1713	1711	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;M;SPECI;SOLRA;SUNDUR
382	KURSUMLIJA	43 08N	21 16E	383	380		.	.	.	.	.	.	.	.		.	.	.	.	PH;SUNDUR
383	KRUSEVAC	43 34N	21 21E	167	166		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
384	P CUPRIJA	43 56N	21 23E	125	123		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;EVAP;SOILTEMP;SUNDUR
388	P NIS	43 20N	21 54E	202	202		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SUNDUR
389	P LESKOVAC	42 59N	21 57E	232	230		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
397	DIMITROVGRAD	43 01N	22 45E	450	448		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
455	HERCEG NOVI-IGALO	42 27N	18 33E	10	10		.	X	X	X	X	X	X	.	H03-20	.	.	.	.	SUNDUR
457	P TIVAT	42 24N	18 44E	5	5		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR
459	P NIKSIC	42 46N	18 57E	647	647		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;PH;SOILTEMP;SUNDUR
461	BAR	42 06N	19 06E	6	4		.	X	X	X	X	X	X	.	H03-20	.	.	.	.	EVAP;PH;SOILTEMP;SOLRA;SUNDUR
462	P PODGORICA/GOLUBOVCI	42 22N	19 15E	33	33		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR
463	PODGORICA-GRAD	42 26N	19 17E	50	49		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C);PH;SOILTEMP; SUNDUR
465	KOLASIN	42 50N	19 32E	945	944	850 HPA	.	X	X	X	X	X	X	.	H03-20	.	.	.	.	PH;SOILTEMP;SUNDUR
473	P PEC	42 40N	20 18E	499	498		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
477	P PRIZREN	42 13N	20 44E	403	402		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
481	P PRISTINA	42 39N	21 09E	576	573		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;PH;SOILTEMP;SOLRA;SUNDUR
489	P VRANJE	42 33N	21 55E	434	433		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SOILTEMP;SUNDUR
562	P ULCINJ	41 55N	19 13E	29	24		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	PH;SUNDUR

4. AUTOMATIC MARINE STATIONS

KEY: Observed or Technical Parameters

Column	Parameters	Column	Parameters
1	Wind direction, speed and peak wind	9	Subsurface temperatures
2	Air temperature	10	Relative humidity
3	Air pressure	11	Visibility
4	Pressure tendency		
5	Sea-surface temperature		
6	Wave period and height	-	Parameter not observed
7	Wave spectra	X	Buoy observes this parameter
8	Drogued	.	Data under evaluation, not reported

4.2 CANADA

4.2.1 MOORED BUOYS

NORTH-EAST PACIFIC OCEAN — SXCN50 CWVR, SNVD04 CWEG

WMO buoy Identifier	ARGOS Identifier	Position: 3 November 1995		Observed or technical parameters											
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	
46004	7180	50 58'N	135 48'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46036	5324	48 21'N	133 55'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46131	4484	49 54'N	124 59'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46132	7197	49 44'N	127 55'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46145	4485	54 23'N	132 26'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46146	7196	49 20'N	123 44'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46147	7194	51 49'N	131 12'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46181	7187	53 50'N	128 50'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46183	8678	53 37'N	131 06'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46184	7182	53 54'N	138 52'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46185	8677	52 25'N	129 48'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46204	7192	51 22'N	128 45'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46205	7183	54 10'N	134 20'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46206	7184	48 50'N	126 00'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46207	7193	50 52'N	129 55'W	X	X	X	X	X	X	X	X	N/A	-	-	-
46208	7186	52 30'N	132 42'W	X	X	X	X	X	X	X	X	N/A	-	-	-

NORTH-WEST ATLANTIC OCEAN

WMO buoy Identifier	ARGOS Identifier	Position: 3 November 1995		Observed or technical parameters											
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	
44137	5579	41 36'N	060 02' W	X	*	X	X	X	X	X	X	N/A	-	-	-
44138	5577	44 16'N	053 37' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44139	3448	44 08'N	057 38' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44140	5576	42 51'N	051 34' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44141	3449	42 04'N	056 09' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44142	5578	42 27'N	064 06' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44153	N/A	47 24'N	063 24' W	X	X	X	X	X	X	X	X	N/A	-	-	-

* Sensor/System failure

GREAT SLAVE LAKE, LAKE WINNIPEG, GREAT LAKES, GULF OF ST.LAWRENCE

WMO buoy Identifier	ARGOS Identifier	Position: 3 November 1995		Observed or technical parameters											
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	
45132	N/A	42 28'N	081 13'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45135	N/A	43 47'N	076 52'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45136	N/A	48 32'N	086 57'W	X	*	X	X	X	X	X	X	N/A	-	-	-
45137	N/A	45 33'N	081 01'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45138	8249	49 32'N	065 44'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45139	N/A	43 25'N	079 23'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45140+	3439	50 47'N	096 44'W	.	.	.	.	.	.	.	.	N/A	-	-	-
45141+	N/A	61 11'N	115 19'W	.	.	.	.	.	.	.	.	N/A	-	-	-
45142	N/A	42 44'N	079 17'W	X	X	X	X	X	X	X	X	N/A	-	-	-
45144+	8671	53 23'N	098 29'W	.	.	.	.	.	.	.	.	N/A	-	-	-

- * Sensor/System failure
+ Shut down for the winter

4.2.2 DRIFTING BUOYS

NORTH-EAST PACIFIC OCEAN — SSVX04 CWEG

WMO buoy Identifier	ARGOS Identifier	Position: 2 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	7129	48 12'N	161 54'W	.	X	X	X	X	.	.	X	-	-	-
46641	12520	37 54'N	131 48'W	.	*	X	X	X	.	.	X	-	-	-
46692	7139	48 12'N	136 06'W	.	*	X	X	X	.	.	X	-	-	-

- * Sensor/System failure

4.3 UNITED STATES OF AMERICA

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the November 1995 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: 16-23 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.70N	72.59W	X	X	X	-	+	X	X	-	-	-	-
41002*		32.35N	75.26W	X	X	X	-	X	X	X	-	-	-	-
41004		32.51N	79.10W	X	X	X	-	X	X	X	-	-	-	-
41006*		29.33N	77.32W	X	X	X	-	X	X	X	-	-	-	-
41009		28.50N	80.18W	+	X	X	-	X	X	X	-	-	-	-

WMO buoy Identifier	ARGOS Identifier	Position: 16-23 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41010		28.90N	78.50W	X	X	X	-	X	X	X	-	-	-	-
41018		15.00N	75.00W	X	X	X	-	X	X	X	-	-	-	-
41021		31.92N	80.85W	X	X	X	-	X	X	X	-	-	-	-
41022		31.89N	80.86W	X	X	X	-	X	.	.	-	-	-	-
42001*		25.93N	89.65W	X	X	X	-	X	+	+	-	-	-	-
42002*		25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-
42003*		25.94N	85.91W	X	X	X	-	X	X	X	-	-	-	-
42007		30.09N	88.77W	X	X	X	-	X	.	.	-	-	-	-
42019		27.90N	95.00W	X	X	+	-	X	X	X	-	-	-	-
42020		27.01N	96.51W	X	X	X	-	+	X	X	-	-	-	-
42035		29.25N	94.41W	X	X	X	-	X	X	X	-	-	-	-
42036		28.50N	84.50W	X	X	X	-	X	X	X	-	-	-	-
42037		24.51N	81.38W	X	X	X	-	X	+	+	-	-	-	-
44004*		38.46N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44005*		42.90N	68.94W	X	X	X	-	X	X	X	-	-	-	-
44007		43.53N	70.14W	X	X	X	-	X	X	X	-	-	-	-
44008		40.50N	69.42W	X	+	X	-	X	X	X	-	-	-	-
44009		38.46N	74.70W	X	X	X	-	X	X	X	-	-	-	-
44011*		41.08N	66.58W	X	X	X	-	X	X	X	-	-	-	-
44013		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44014		36.58N	74.83W	X	X	X	-	X	X	X	-	-	-	-
44025		40.25N	73.17W	+	+	+	-	+	+	+	-	-	-	-
44028*		41.40N	71.08W	X	+	X	-	X	X	X	-	-	-	-
45001*		48.05N	87.77W	X	X	X	-	X	X	X	-	-	-	-
45002*		45.30N	86.42W	X	X	X	-	X	X	X	-	-	-	-
45003*		45.32N	82.77W	X	X	X	-	X	X	X	-	-	-	-
45004*		47.55N	86.53W	X	X	X	-	X	X	X	-	-	-	-
45005*		41.68N	82.40W	X	X	X	-	X	X	X	-	-	-	-
45006*		47.32N	89.87W	X	X	X	-	X	X	X	-	-	-	-
45007*		42.68N	87.03W	X	X	X	-	X	X	X	-	-	-	-
45008*		44.28N	82.42W	X	X	X	-	X	X	X	-	-	-	-
45010		43.00N	87.80W	X	X	X	-	X	X	X	-	-	-	-
46001*		56.29N	148.18W	X	X	X	-	X	X	X	-	-	-	-
46002*		42.53N	130.26W	X	X	X	-	X	X	X	-	-	-	-
46003*		51.85N	155.92W	X	X	X	-	X	X	X	-	-	-	-
46005*		46.08N	131.00W	X	X	X	-	X	X	X	-	-	-	-
46006*		40.87N	137.54W	X	X	X	-	X	X	X	-	-	-	-
46011		34.88N	120.87W	X	X	X	-	X	X	X	-	-	-	-
46012		37.39N	122.73W	X	X	X	-	X	X	X	-	-	-	-
46013*		38.23N	123.30W	X	X	X	-	X	X	X	-	-	-	-
46014*		39.22N	123.97W	X	X	X	-	X	X	X	-	-	-	-
46022		40.76N	124.50W	X	X	X	-	X	X	X	-	-	-	-
46023		34.25N	120.67W	X	X	X	-	X	X	X	-	-	-	-

WMO buoy Identifier	ARGOS Identifier	Position: 16-23 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46025		33.75N	119.07W	X	X	X	-	X	X	X	-	-	-	-
46026		37.75N	122.82W	X	X	X	-	+	X	X	-	-	-	-
46027		41.85N	124.39W	X	X	X	-	X	X	X	-	-	-	-
46028*		35.74N	121.88W	X	X	X	-	X	X	X	-	-	-	-
46029		46.25N	124.25W	X	X	X	-	X	X	X	-	-	-	-
46030		40.42N	124.53W	X	X	X	-	X	X	X	-	-	-	-
46035		56.96N	177.73W	X	X	X	-	X	X	X	-	-	-	-
46041		47.42N	124.52W	X	X	X	-	X	X	X	-	-	-	-
46042		36.75N	122.41W	X	X	X	-	X	X	X	-	-	-	-
46045		33.84N	118.45W	X	X	X	-	X	X	X	-	-	-	-
46050		44.62N	124.53W	X	+	X	-	X	X	X	-	-	-	-
46051		34.48N	120.69W	X	X	X	-	X	X	X	-	-	-	-
46053		34.24N	119.85W	X	X	X	-	X	X	X	-	-	-	-
46054		34.27N	120.45W	X	X	X	-	X	X	X	-	-	-	-
46059		37.98N	130.00W	X	X	X	-	X	X	X	-	-	-	-
46060		60.58N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46061		60.22N	146.83W	+	+	+	-	+	+	+	-	-	-	-
51001*		23.40N	162.27W	X	X	X	-	X	X	X	-	-	-	-
51002		17.19N	157.83W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.14N	160.81W	X	X	X	-	X	X	X	-	-	-	-
51004*		17.44N	152.51W	X	X	X	-	X	X	X	-	-	-	-
51026		21.35N	156.93W	X	X	X	-	X	X	X	-	-	-	-
51027		20.45N	157.13W	X	X	X		X	X	X				

Total base funded buoys: =	29
Total other buoys: =	42
TOTAL moored buoys:	71

+ Sensor/System failure

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

4.3.2 DRIFTING BUOYS

WMO buoy Identifier	ARGOS Identifier	Position: 22-23 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16811	17180	28°S	086°E	.	X	X	-	X	.	.	.	-	-	-
17810	17182	16°S	006°W	.	X	X	-	X	.	.	.	-	-	-
17822	17184	39°S	094°E	.	X	X	-	+	.	.	.	-	-	-
32811	17170	19°S	125°W	.	+	X	-	X	.	.	.	-	-	-
32812	17171	27°S	131°W	.	X	X	-	X	.	.	.	-	-	-
32813	17172	24°S	095°W	.	+	X	-	X	.	.	.	-	-	-
32814	17161	29°S	098°W	.	+	X	-	+	.	.	.	-	-	-
33838	17163	25°S	018°W	.	X	X	-	X	.	.	.	-	-	-

WMO buoy Identifier	ARGOS Identifier	Position: 22-23 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
33839	17164	27°S	015°W	.	+	X	-	X	.	.	.	-	-	-
33840	17165	32°S	052°E	.	+	X	-	X	.	.	.	-	-	-
33841	17166	26°S	017°W	.	+	X	-	X	.	.	.	-	-	-
33843	20714	48°S	065°E	.	X	X	-	X	.	.	.	-	-	-
41518	05572	32°N	071°W	+	X	X	-	X	.	.	.	-	-	-
41519	05574	31°N	071°W	+	+	X	-	X	.	.	.	-	-	-
41526	05575	36°N	065°W	X	X	X	-	X	.	.	.	-	-	-
41527	06581	34°N	069°W	+	X	X	-	X	.	.	.	-	-	-
41529	06582	24°N	067°W	X	X	X	-	X	.	.	.	-	-	-
41585	23640	35°N	068°W	X	X	X	-	X	.	.	.	-	-	-
46551	20705	42°N	144°W	+	+	X	-	X	.	.	.	-	-	-
46552	20706	39°N	147°W	+	+	X	-	X	.	.	.	-	-	-
46553	20710	50°N	145°W	X	X	X	-	X	.	.	.	-	-	-
46554	20712	33°N	152°W	X	+	X	-	X	.	.	.	-	-	-
46555	20707	44°N	138°W	X	X	X	-	X	.	.	.	-	-	-
46556	20711	51°N	145°W	+	+	X	-	X	.	.	.	-	-	-
46557	20709	36°N	159°W	X	+	X	-	X	.	.	.	-	-	-
46558	20708	39°N	151°W	X	+	X	-	X	.	.	.	-	-	-
53825	20715	10°S	120°E	.	+	X	-	+	.	.	.	-	-	-
54807	20718	53°S	074°W	.	+	X	-	+	.	.	.	-	-	-
54808	20722	49°S	014°W	.	X	X	-	X	.	.	.	-	-	-
54809	20719	36°S	172°W	.	X	X	-	X	.	.	.	-	-	-
54810	17181	17°S	177°E	.	+	X	-	+	.	.	.	-	-	-
54811	20713	40°S	124°W	.	X	X	-	X	.	.	.	-	-	-
54812	17178	43°S	079°W	.	X	X	-	X	.	.	.	-	-	-
54813	20717	40°S	135°W	.	X	X	-	X	.	.	.	-	-	-
54845	17162	41°S	149°W	.	X	X	-	X	.	.	.	-	-	-
55801	20721	36°S	167°E	.	+	X		X	.	.	.	-	-	-
56806	1984	27°S	051°E	.	X	X		X	.	.	.	-	-	-
56807	20716	24°S	049°E	.	+	X		X	.	.	.	-	-	-
56808	20720	27°S	044°E	.	X	X		X	.	.	.	-	-	-
56809	17169	18°S	075°E	.	+	X		X	.	.	.	-	-	-
56810	17185	17°S	060°E	.	X	X		X	.	.	.	-	-	-

•335 drifting buoys have been deployed in support of TOGA; 27 are operational

+ Sensor failed

4.7 UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

4.7.1 MOORED BUOYS (INCLUDING LIGHT VESSELS, ISLANDS AND FIXED PLATFORMS)

WMO buoy Identifier	ARGOS Identifier	Position: 14 November 1995		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°08'N	05°50'W	X	X	X	X	-	-	-	X	X	-	-
03014*		60°07'W	02°04'W	-	-	-	-	-	-	-	-	-	-	-
03695*		51°40'N	01°06'E	X	X	X	X	-	-	-	X	X	-	-
62026		55°20'N	02°20'E	X	X	X	X	X	X	-	X	X	-	-
62029		48°42'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	X	-	-
62101		50°37'N	02°44'W	X	X	X	X	X	X	-	X	X	-	-
62103**		49°55'N	02°54'W	X	X	X	X	X	X	-	X	X	-	-
62105		55°29'N	12°59'W	X	X	X	X	X	X	-	X	X	-	-
62106		57°00'N	09°52'N	X	X	X	X	X	X	-	X	X	-	-
62107**		50°04'N	06°04'W	X	X	X	X	X	X	-	X	X	-	-
62108		53°34'N	15°30'N	X	X	X	X	X	X	-	X	X	-	-
62109		57°00'N	00°00'E	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	-	-
62163		47°30'N	08°30'W	X	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	-	-	-
62303		51°31'N	04°56'W	X	X	X	X	X	X	-	X	X	-	-
62304**		51°09'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	-	-
64045		59°15'N	11°41'W	X	X	X	X	X	X	-	X	X	-	-

* Fixed platforms or islands

** Automatic light vessels

4.7.2 DRIFTING BUOYS

WMO buoy Identifier	ARGOS Identifier	Position: 14 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
25565	1639*	5.4N	4.7W	-	X	X	-	-	-	-	-	-	-	-
44613	3324	48.7N	2.5W	X	X	X	X	X	-	-	-	-	-	-
44616	3318	56.4N	2.6W	X	X	X	X	X	-	-	-	-	-	-
44727	2974	51.1N	3.1W	-	X	X	X	X	-	-	-	-	-	-
44728	3024	56.7N	3.3W	-	X	X	X	X	-	-	-	-	-	-
44742	2953	62.4N	3.9W	X	X	X	X	X	-	-	-	-	-	-
44760	2947	31.1N	3.9W	-	X	X	X	X	-	-	-	-	-	-
44763	3098	55.7N	3.8W	-	X	X	X	X	-	-	-	-	-	-
44764	6306	67.1N	1.5E	X	X	X	X	X	-	-	-	-	-	-
44769	1253	52.9N	2.4W	-	X	X	X	X	-	-	-	-	-	-
44770	3035	33.0N	3.8W	-	X	X	X	X	-	-	-	-	-	-

WMO buoy Identifier	ARGOS Identifier	Position: 14 November 1995		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44773	3132	51.2N	3.9W	-	X	X	X	X	-	-	-	-	-	-
44777	14733	32.6N	29.9W	-		X	-	X	-	-	-	-	-	-
44779	14737	30.9N	42.5W	-		X	-	X	-	-	-	-	-	-
48101	4036*	8.3N	178.9W	-	X	X	-	-	-	-	-	-	-	-
62524	4625	26.3N	54.8W	-	X	X	X	X	-	-	-	-	-	-
62805	2927	59.3N	28.4W	-		X	X	X	-	-	-	-	-	-
65594	1252	61.8N	38.6W	-	X	X	X	X	-	-	-	-	-	-

5. ARGOS SERVICE

5.1 ARGOS MONTHLY STATUS REPORT

Date of statistics computation : 2 November 1995

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

Drifting Buoys	:	1123
Boats (<20 knots)	:	—
Marine Stations	:	86
Moored Buoys	:	275
Fixed Stations	:	395
Terrestrial Animals	:	77
Marine Animals	:	129
Birds	:	88
Balloons	:	3
TOTAL	:	2176

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

Transmission to RTH Toulouse:

Boat (less than 20 knots)	:	—
Drifting Buoys	:	99
Fixed Stations	:	8
Marine Stations	:	1
Moored Buoys	:	3
Synoptic PTT	:	—

Transmission to NWS Washington:

Drifting Buoys	:	564
Fixed Stations	:	9
High Speed	:	—
Moored Buoys	:	58

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

BATHY =	381
BUOY =	202555
SYNOP =	5269
TOTAL:	208205

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 follows at the end of this Annex, 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 NEWSLETTE".

REMINDER TO READERS

PLEASE, PLEASE

Complete the questionnaire attached at the end of the Newsletter if you have not already done so.

This is essential if you wish to continue receiving the Newsletter.

If we do not hear from you we will presume that you are no longer interested and we will erase you from our mailing list.

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	Remarks
Index No.	Name			TAAii	CCCC	00	03	06	09	12	15	18	21	HP	H/HA	Level	
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, 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 ₀ P ₀ P ₀ P ₀
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 III

GLOBAL TELECOMMUNICATION SYSTEM

C. INFORMATION ON THE OPERATION OF THE GTS

1. CATALOGUE OF METEOROLOGICAL BULLETINS (PUBLICATION NO. 9, VOLUME C, CHAPTER I)

1.3 CHANGES TO BULLETINS

NOTIFICATION FROM JAPAN

The following changes are effective as of 29 November 1995:

- RJSA, RJOM and RJNK should be added to FTJP30 RJTD
- WMO index number 47412 (Sapporo) should be eliminated from SBJP20 RJTD and 47415 (Sapporo/Kenashiyama) added to it.
- FM 35 (TEMP), FM 36 (TEMP-SHIP) and FM 63 (BATHY) should be changed to FM 35-X Ext., FM 36-X Ext. and FM 63-X Ext., respectively.

2. TRANSMISSION SCHEDULES (PUBLICATION NO. 9, VOLUME C, CHAPTER II)

2.2 DELETED TRANSMISSIONS/BROADCASTS

NOTIFICATION FROM RUSSIAN FEDERATION

Effective 4 December 1995 RTHs Khabarovsk and Novosibirsk stopped the operation of their RTT broadcasts.

2.3 CHANGES IN SCHEDULES/TECHNICAL SPECIFICATIONS

NOTIFICATION FROM ARGENTINA

Radio-facsimile broadcast

Centro Meteorologico Antartico Vicecomodoro Marambio, changes effective 1 November 1995.

Call sign	Frequency
LSB	2 401 kHz
	4 807 kHz
	9 951 kHz

REMINDER TO READERS

PLEASE, PLEASE

Complete the questionnaire attached at the end of the Newsletter if you have not already done so.

This is essential if you wish to continue receiving the Newsletter.

If we do not hear from you we will presume that you are no longer interested and we will erase you from our mailing list.

Annex IV

CODES

B. MANUAL ON CODES

1. GLOBAL PRACTICES

REMINDER

Following Recommendation 14 (CBS-95) approved by the President of WMO the amended code forms FM 15-X Ext. METAR, FM 16-X Ext. SPECI, FM 51-X Ext. TAF, FM 53-X Ext. ARFOR and FM 54-X Ext. ROFOR will come into force as from 1 January 1996, 0000 UTC. The amendments to these forms were listed in the Volume 1995-No 5 of this Operational Newsletter and in the last published edition of the Manual on Codes, WMO-No. 306, Volume I.1 (distributed in October 1995).

3. NATIONAL PRACTICES

Important note from the WMO Secretariat:

We would be grateful if updates to National Coding Practices and National Code Forms be submitted on the following computer-readable media, accompanied by a print-out of the computer files in hard copy:

- By email via internet to: joel@www.wmo.ch or
- On IBM-PC compatible 3½ inch diskettes
- The following formats are acceptable: MS Word, WordPerfect or ASCII

3.3 CHANGES TO CODES OR PROCEDURES

- CANADA indicated the following national deviations to be implemented on 1 January 1996.

Region IV

E — NATIONAL CODING PROCEDURES WITH REGARD TO INTERNATIONAL CODE FORMS:

FM 15-X Ext. METAR and FM 16-X Ext. SPECI
replace text for CANADA as below:

SECTION	GROUP	COMMENTS
15.1.1	METAR or SPECI	METAR or SPECI shall appear as the first word of each report.
15.3.1	YYGGggZ	Canada will report time in the format YYGGggZ.
New Group	AUTO	All METARs based on observation by automatic weather stations shall include the word AUTO immediately following the time group and one space.
New Group	(BBB)	The BBB format may appear immediately preceding the wind group to indicate if the report has been corrected.
15.4.1	ddffGf _m f _m KT	The averaging period for mean wind speed and direction is two minutes. Speed is reported in nautical miles per hour.

SECTION	GROUP	COMMENTS
15.5.1	VVVD _v	Prevailing visibility is reported in statute miles and fractions up to 3 miles, then in whole miles up to 15 miles, and in units of 5 miles thereafter, where suitable visibility markers are available. Automatic weather stations report sensor visibility in statute miles and fractions up to 4 miles, then in whole miles up to a maximum of 9 miles. Statute miles and fractions of statute miles shall be encoded with a space; for example, 11/8 statute mile shall be reported as 1 1/8SM. D _v is not reported, but sector visibilities half (or less) of prevailing visibility are reported in supplementary information (manned sites only). The letters SM (statute miles) are appended, without a space, to each observation to identify the units.
15.5.3	V _x V _x V _x V _x D _v	The group V _x V _x V _x V _x D _v is not used.
15.6.1	RD _R DR/VRVRVRVri	RVR is reported whenever the prevailing visibility is one statute mile or less and/or the RVR is 6000 feet or less. The units of measurement are feet and the abbreviation FT will be included in each message according to the following symbolic format: RD _R DR/VRVRVRVFT/i. When the one minute mean minimum and maximum values are reported, FT/i follows the maximum value without a space. RVR is not used as one of the criteria for reporting a SPECI.
15.7.1	w'w'	The following weather phenomena/qualifiers will not be reported by automatic weather stations: FC, IC, PE, SG, GS, BR, FG, FU, VA, SA, HZ, SS, DS, TS, MI, BC, PR, DR, BL, SH, VC, PO. More than three w'w' groups may be reported.
15.7.6	w'w'	The term +FC will be used to report any tornado or waterspout when within sight. The term FC will be used to report any funnel cloud when within sight. The symbol UP with appropriate intensity shall be used to describe unknown precipitation reported from an automatic weather station.
15.7.7	w'w'	Precipitation preceded by the descriptor FZ shall always appear as a separate group with its own intensity.
15.7.8	w'w'	Thunderstorms are reported when thunder is heard or if overhead lightning or hail occurs within the 15 minute period preceding the time of the report.
15.7.10	w'w'	The terms VCFC and VCTS shall not be used in Canada. Automatic weather stations cannot report the qualifier VC.
15.7.12	w'w'	Occurrences of IC (diamond dust) are reported whenever visibility is reduced to 6 miles or less.
15.7.13	w'w'	The phenomena represented by FU, HZ, DU and SA are reported whenever the visibility is reduced by the reported phenomena to 6 miles or less.
15.7.14	w'w'	BR (mist) is reported when it reduces visibility to between 5/8 mile and 6 miles inclusive.
15.7.19	w'w'	The letter abbreviation SQ is reported at manned stations when the wind speed increases by 15 kt over the two minute average speed that preceded the increase and the duration of the peak speed period is at least two minutes and the wind speed attains a one minute mean of at least 20 kts, during the peak speed period and the wind speed diminishes by at least 5 kts.
15.9.1.1	N ₅ N ₅ N ₅ h ₅ h ₅ h ₅	The letters CLR may be used when no clouds below 10,000 feet are reported by automatic weather stations.
15.9.1.2	N ₅ N ₅ N ₅ h ₅ h ₅ h ₅	The summation principle is used in determining cloud amount. Automatic weather stations report cloud directly overhead, layer amounts are determined by persistence of cloud over top of the sensor. Clouds above 10,000 feet cannot be reported by automatic weather stations.
15.9.1.3	N ₅ N ₅ N ₅ h ₅ h ₅ h ₅	Significant convective cloud (CB and TCU) information is not available from automated weather stations.
15.9.1.4	N ₅ N ₅ N ₅ h ₅ h ₅ h ₅	All cloud layers observed are reported.
15.10	CAVOK	The abbreviation CAVOK is not used.
15.13.2.1	REw'w'	Automatic weather stations cannot report REPE, RESG, REGS, REBLN, RESS, REDS, RETS, REVA.
15.13.4	RMK	Supplementary remarks may be included in observations from Canadian stations following the identifier group RMK. Remarks will appear in the following order: (layer type and opacity)(general remarks) and SLPppp where ppp is the last 3 digits of the sea level pressure. TORNADO, FUNNEL CLOUD or WATERSPOUT shall be spelled out and entered in the general remarks section whenever observed.
15.14		Trend forecasts shall not be used.

Region IV
E — NATIONAL CODING PROCEDURES WITH REGARD TO INTERNATIONAL CODE FORMS:
 •FM 51-X Ext. TAF — Aerodrome Forecast
 replace text for CANADA as below:

SECTION	GROUP	COMMENTS
51.1.2	YYGGggZ	The date/time group will always be included after the international aerodrome identifier followed by one space.
New Group	WSh _x h _x h _x /dddffKT	The strong non-convective low level wind shear group shall be included in all TAFs whenever this phenomenon is expected to be significant enough to adversely affect aircraft operation within 1500 feet above ground level. The wind shear group, when included, will be placed after the wind group followed by one space. The wind shear group is decoded according to the following: WS: is the wind shear term; h_xh_xh_x: is the height (above ground) of the top of the layer in which strong low level wind shear is forecast; ddd: is the wind direction at level hXhXhX; and ffKT: is the wind speed in knots (KT) at level h _x h _x h _x . When the wind speed (ff) is expected to be 100 knots or greater, a three-digit figure (fff) shall be used.
51.4.3	WWW	Prevailing visibility, rather than minimum visibility, is forecast.
51.4.3	WWW	Visibility is forecast in statute miles and fractions up to 3 miles, then in whole miles up to 6 miles. Visibilities greater than 6 miles are forecast as P6SM. The letters SM (statute miles) are appended, without a space, to each forecast visibility to identify the units.
51.7	CAVOK	The abbreviation CAVOK is not used.
51.1.5	W'W'	When a significant change in visibility is forecast, not only the weather phenomenon responsible for the change shall be indicated, but the entire w'w' group shall be stated.
51.5.1	W'W'	Volcanic ash (VA), when expected, is always forecast regardless of visibility.
51.5.1	W'W'	Smoke (FU), ice crystals (IC), haze (HZ), dust (DU), and sand (SA) are forecast when they are expected to reduce the visibility to 6 statute miles or less.
51.5.1	W'W'	Mist (BR) is forecast when it is expected to reduce the visibility between 5/8 mile and 6 miles inclusive. Fog (FG) is forecast when the visibility is expected to be less than 5/8 mile.
56.6.1	N _S N _S N _S h _S h _S h _S	Forecast cloud amounts are cumulative and are forecast for all layers up to and including the first overcast layer, if any.
51.6.1.7	SKC	This term, in addition to being used to replace the cloud or vertical visibility group after a change of the form TEMPO/BECMG GGGeGe, is also used to forecast the absence of cloud or vertical obscuration at the beginning of any self contained part period.
51.6.3	NSC	The abbreviation NSC (No Significant Cloud) is not used.
51.8	TTFTF/GFGFZ	Temperature, at the present time, is not forecast.
51.9	lChihih _t l	Icing, at the present time, is not forecast.
51.10 5	Bhghgh _t l	Turbulence, at the present time, is not forecast.
51.11.2	FMGGggZ	A "Z" will always be added at the end of this group. This practice will clarify the idea that GGgg is a UTC time in hours and minutes rather than a time range between GG and gg.
Addition	RMK	Remarks will always be included at the end of every TAF. these will indicate the time the next forecast will be issued (NXT FCST BY XXZ) or that the forecast is based on automatic weather observing system (FCST BASED ON AUTO OBS).

•CYPRUS indicated the following national procedure to be implemented on 1 January 1996

Region VI

E — NATIONAL CODING PROCEDURES WITH REGARD TO INTERNATIONAL CODE FORMS:

•FM 12-X Ext. SYNOP, FM 13-X SHIP and FM 14-X Ext. SYNOP MOBIL

replace text for CYPRUS as below:

7wwW ₁ W ₂	ww is coded 04, 05, 06 or 07 when horizontal visibility is less than 10 km
	ww is coded 09 when horizontal visibility is between 1000 metres and 5 km.
	ww is coded 10 when horizontal visibility is 1000 metres or more and less than 10 km
	ww is coded 30, 31 or 32 only when horizontal visibility is 200 m or more and less than 1000 metres.
	ww is coded 33, 34 or 35 only when horizontal visibility is less than 200 metres.

•DENMARK indicated the following national deviations to be effective immediately

Region VI

E — NATIONAL CODING PROCEDURES WITH REGARD TO INTERNATIONAL CODE FORMS:

•FM 12-X Ext. SYNOP, FM 13-X SHIP and FM 14-X Ext. SYNOP MOBIL

replace text for DENMARK as below:

6RRRtR	When reported, this group is included in Section 1, and, for certain stations, in Section 3.
7wwW ₁ W ₂	ww is coded 10 only when horizontal visibility due to mist is 1-9 km (inclusive).
	ww is coded 27 also when showers of snow, or of rain and snow, together with hail has occurred during the preceding hour but not at the time of observation.
	ww is coded 30, 31, 32, 33, 34 or 35 only when horizontal visibility due to duststorm or sandstorm is less than 1 km.
	ww is coded 38 or 39 only when horizontal visibility due to blowing snow is less than 10 km.
	In code table 4561 W ₁ /W ₂ the figures mentioned below are coded as follows: 5 Drizzle and/or freezing drizzle 6 Rain, freezing rain and/or drizzle and rain 7 Snow, rain and snow mixed, ice pellets, snow grains, diamond dust and/or isolated star-like snow crystals.
7w _a w _a W _{a1} W _{a2}	In code table 4680 w _a w _a may additionally be coded as follows: 77 Snow grains 89 Shower(s) of snow pellets, small hail and/or hail (light, moderate or heavy)
	In code table 4531 W _{a1} /W _{a2} the figures mentioned below are coded as follows: 5 Drizzle and/or freezing drizzle 6 Rain, freezing rain and/or drizzle and rain 7 Snow, rain and snow mixed, ice pellets, snow grains and/or diamond dust.
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.
8N _s Chsh _s	This group is included
9SpSp ^s p ^s p	This group is included

Note 1:	In SYNOPSISs from Danish automatic weather stations not taken at international standard hours (e.g. 1300, 1400, 1600, 1700, ---), the period covered by W _{a1} W _{a2} will be one hour.
Note 2:	Danish automatic weather stations cannot cope with regulations 12.2.6.7.2 second clause and 12.2.6.7.4 in WMO No. 306, Volume I, part A, but will always report either the highest possible code figure for W _{a1} and the next highest for W _{a2} corresponding to observed weather phenomena, - or if no discernible change in weather has occurred during the period, then the highest possible code figure for both W _{a1} and W _{a2} .

REMINDER TO READERS

PLEASE, PLEASE

Complete the questionnaire attached at the end of the Newsletter if you have not already done so.

This is essential if you wish to continue receiving the Newsletter.

If we do not hear from you we will presume that you are no longer interested and we will erase you from our mailing list.

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

NOTIFICATION FROM ARGENTINA

Part Aii - Radio-facsimile broadcast

Centro Meteorologico Antartico Vicecomodoro Marambio, changes effective 1 November 1995.

Call sign	Frequency
LSB	2 401 kHz
	4 807 kHz
	9 951 kHz

REMINDER TO READERS

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WORLD METEOROLOGICAL ORGANIZATION

QUESTIONNAIRE OPERATIONAL NEWSLETTER

At the WMO Secretariat we are constantly trying to improve the quality of the services we offer our subscribers and reduce mailing costs. In order to do this effectively, it is important that we understand the views of our users and seek to identify what information is required and which presentation format is best suited to your needs.

We are currently reviewing the needs of our users and plan to start implementing changes step by step beginning in January 1996.

We would, therefore, be grateful if you could spend a few moments of your time to fill in the enclosed questionnaire and

return it to the Secretariat. The number of replies received to the questionnaire will be used to assess the users' interest.

In anticipation of your response, thank you for taking the time to fill in this questionnaire.

HOW TO COMPLETE THIS QUESTIONNAIRE

1. Please PRINT.
2. Some questions require a tick ✓. In some cases you may have to delete (delete) as appropriate.
3. A few questions may, however, require that you give a short written answer in the space provided.

Telephone: National (022) 730 81 11
International +41 22 730 81 11
Telegrammes: METEOMOND GENÈVE
Telex: 41 41 99 OMM CH
Facsimile: 41 22 734 23 26
Internet address: PWOI@WWW.WMO.CH

FOLD

please affix
stamp here

WORLD METEOROLOGICAL ORGANIZATION
World Weather Watch Department
Public Weather and Operational
Information Unit
41, avenue Giuseppe-Motta
PO Box 2300
CH - 1211 GENEVA
Switzerland

FOLD

QUESTIONNAIRE — OPERATIONAL NEWSLETTER (Volume 95-No.11/12)

Family Name (surname):	First/Other names:	Job title/function:
Address:.....		Company/Organization:
Internet Address:.....		

Q1. Which language do you require? - Please indicate number of copies required

English <input type="checkbox"/>	French <input type="checkbox"/>	Russian <input type="checkbox"/>	Spanish <input type="checkbox"/>
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Q2. How would you like to receive the Newsletter ?

	Postscript	Acrobat	WordPerfect	Microsoft Word
Hard copy <input type="checkbox"/>	N/A	N/A	N/A	N/A
Via World Wide Web <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Via Internet mail <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anonymous ftp <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q3. Which Annex is of special interest to you?

- What is your overall impression on the content and the presentation?

	The content is...		The presentation is...	
	Useful	Not required	Clear	Inadequate
Annex I. Global Observing System <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annex II. Global Data-Processing System <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annex III. Global Telecommunication System <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annex IV. Codes <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Annex V. Marine Meteorological Services and Related Oceanographic activities <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q4. What are your suggestions for improving the CONTENT? - Is there any particular information you would like included?

1.....
2.....
3.....

Q5. What are your suggestions for improving the PRESENTATION?

1.....
2.....

Q6. For which of the following activities do you require the Newsletter?

WWW operations <input type="checkbox"/>	Research work <input type="checkbox"/>	Archives and statistical work <input type="checkbox"/>	General interest <input type="checkbox"/>
Other (please indicate) <input type="checkbox"/>			

Q7. How often would you like to receive the Newsletter?

Monthly <input type="checkbox"/>	Every two months <input type="checkbox"/>	Quarterly <input type="checkbox"/>	Twice a year <input type="checkbox"/>
Other (please indicate) <input type="checkbox"/>			

Date:.....