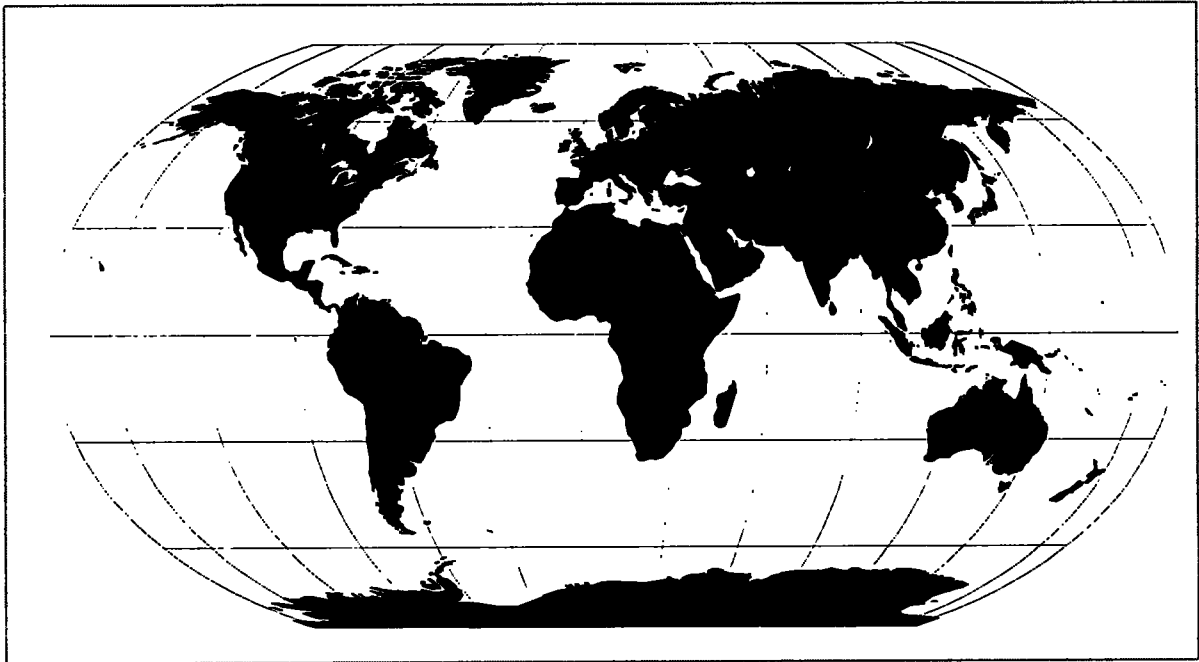


OPERATIONAL NEWSLETTER

Volume 1996 -.No. 11/12 - December 1996



**WORLD WEATHER WATCH
WORLD METEOROLOGICAL ORGANIZATION
GENEVA**

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

EDITORIAL

The Operational Newsletter on the World Weather Watch (WWW) and Marine Meteorological Services (MMS) has been issued since 1982 at the request of the Commission for Basic Systems. It is distributed by the WMO Secretariat and is aimed at providing WWW Centres with a summary of the latest operational information on:

- The Global Observing System
- The Global Telecommunication System
- The Global Data-Processing System
- Codes
- Marine Meteorological Services

A feedback form is included in the Newsletter to assist WMO 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.

In addition to the printed version which is distributed by mail, the Operational Newsletter is also available at the following locations:

For access via FTP:

<ftp://WWW.WMO.CH/wmo-ddbs/Newsltrxxx.html>

For access via html:

<http://WWW.WMO.CH/web/www/Newsltrxxx.html>

(xxxx indicates the year/month (eg. 9603))

PLEASE check our World Weather Watch home page for the most recent edition.

Due to requests please note that the electronic version of the Newsletter is now created in .html (hyper-text mark-up language), to enable a more instant access for viewing and printing.

The Newsletter has been split into several different files so before downloading, printing or viewing please read the "README" file first (**Newsltr9612README.html**). This file provides you with a summary of the Newsletter and also indicates which files are required for downloading each issue.

Should you have any difficulties downloading, viewing or printing the Newsletter ... Our e-mail address is as follows:

PWOI@WWW.WMO.CH

We look forward to hearing from you

Rising costs demand that we scale down the distribution of the Newsletter by letter mail, so we strongly encourage our readers to help us become more cost-effective by using our new on-line service.

Season's Greetings and
Best Wishes for the New Year 1997

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I. GLOBAL OBSERVING SYSTEM

INFORMATION ON THE OPERATIONAL STATUS OF ELEMENTS OF THE SPACE-BASED SUB-SYSTEM

Satellite data broadcasting schedule for the GOMS N1 WEFAX channel No. 1 via the Obninsk Information Reception and Transmission Station on 1 691 MHz

September 1996

	04.00 UTC	12.00 UTC	13.00 UTC	16.00 UTC
:00 min.	W ₀ for 03	W ₀ for 06	W ₀ for 12	W ₀ for 15
:05 min.	W ₁ for 03	W ₁ for 06	W ₁ for 12	W ₁ for 15
:10 min.	W ₂ for 03	W ₂ for 06	W ₂ for 12	W ₂ for 15
:15 min.	W ₃ for 03	W ₃ for 06	W ₃ for 12	W ₃ for 15
:20 min.	W ₄ for 03	W ₄ for 06	W ₄ for 12	W ₄ for 15
:25 min.				
:30 min.	W ₀ for 00	W ₀ for 09		
:35 min.	W ₁ for 00	W ₁ for 09		
:40 min.	W ₂ for 00	W ₂ for 09		
:45 min.	W ₃ for 00	W ₃ for 09		
:50 min.	W ₄ for 00	W ₄ for 09		
:55 min.				

Explanation of data used:

W₀ = Full disk
W₁ = NW sector, Northern Hemisphere
W₂ = NE sector, Northern Hemisphere
W₃ = SW sector, Southern Hemisphere
W₄ = SE sector, Southern Hemisphere

GUIDANCE MATERIAL ON INSTRUMENTS AND OBSERVING METHODS

“WMO Catalogue of Radiosondes and Upper-Air Wind Systems
in Use by Members”

This printed issue of the Newsletter contains a list of updates received to the April/May 1996 issue of the Catalogue. Should you wish to view a complete listing of the above Catalogue it is available electronically at the address given at the foot of this page.

Index No.	Name	POSITION			PROGRAM		RADIOSONDE		
		Lat. (-=S)	Long. (-=W)	Ht. (m/AMSL)	TEMP	PILOT	Regular	Alternative	Frequency
REGION 1 - Africa									
Egypt									
62306	MERSA MATROUH	31.20	27.13	28	0012	0618	INTEL-LISONDE	VIZA	1680
62337	EL ARISH	31.05	33.50	37	0012	0618	INTEL-LISONDE	-	1680
62378	HELWAN	29.52	31.20	141	0012	0618	INTEL-LISONDE	VIZA	1680
62414	ASSWAN	23.58	32.47	194	0012	0618	INTEL-LISONDE	VIZA	1680
France									
61976	SERGE-FROLOW (Ile Tromelin)	-15.88	54.52	13	12 before 1.5.97 & after 1.11.97	12 before 1.5.97 & after 1.11.97	VRS80N	VWS80 between 1.5.97 & 1.11.97	403
REGION 2 - ASIA									
Hong Kong									
45004	KING'S PARK	22.32	114.17	66	0012	0618	VRS80N	-	403
Kazakstan									
28952	KUSTANAI	53.13	63.37	156	00	-	MRZ		1782
35108	URALSK	54.25	64.4	36	00	-	MRZ		1782
35229	AKTJUBINSK	50.17	57.09	219	00	-	MRZ		1782
35394	KARAGANDA	49.48	73.09	553	00	-	MRZ		1782
35700	ATYRAY	47.07	51.55	-28	00	-	MRZ		1782
35746	ARALSKOE MORE	46.78	64.52	64	00		MRZ		1782
35796	BALHASH	46.9	75	415	00		MRZ		1782
36477	SEMIPALATINSK	50.42	80.3	486	00		MARS		1782
36870	ALMATY	43.21	77.01	663	00		MRZ		1782
38062	KZYL-ORDA	44.51	65.30	128	00		MRZ		1782
38341	ZHAMBYL	42.51	71.23	551	00		MRZ		1782
REGION 3 - SOUTH AMERICA									
Argentina									
87047	SALTA AERO	-24.85	-65.48	1221	12	18	VRS80N		403
87344	CORDOBA AERO	-31.32	-64.22	474	12	18	VRS80N		403
87418	MENDOZA AERO	-32.83	-68.78	704	12	18	VRS80N		403
Ecuador									
84008	SAN CRISTOBAL RADIO-SONDA (Galapagos Is.)	-0.54	-89.37	6	12		RS-80-15N	-	403
REGION 4 - NORTH AND CENTRAL AMERICA									
Mexico									
76151	ISLA GUADALUPE	29.17	-118.32	23	00	12	VAISALA		403
76225	CHIHUAHUA	28.63	-106.08	1434	00	-	VIZ		1680
76256	EMPALME	27.95	-110.77	12	00	12	VAISALA		403
76382	TORREON	25.53	-103.44	1124	00	12	AIR		1680
76394	MONTERREY	25.87	-100.23	448	00	-	VIZ		1680
76405	LA PAZ	24.17	-110.30	19	00	12	VAISALA		403
76458	MAZATLAN	23.20	-106.42	4	00	-	VIZ		1680
76595	CANCUN	21.02	-86.85	10	00	12	VAISALA		403
76612	GUADALAJARA	20.67	-103.38	1551	-	12	VIZ		1680

Index No.	GCOS Y/N	Ground Equipment	Geo ht calc Auto/ Man	Radiation Corr.		WINDFINDING		Remarks	Date
				Yes/ No	Type	System/Method	Equipment		
REGION 1 - Africa									
Egypt									
62306	Y	AIR	A	N	-	RADIOTHEODOLITE RADAR	AIR EEC	Plan an alternative sonde type using G.P.S.	09/96
62337	Y	AIR	A	N	-	RADIOTHEODOLITE	AIR	Added 9/96. Plan an alternative sonde type using G.P.S.	09/96
62378	Y	AIR	A	N	-	RADIOTHEODOLITE RADAR	AIR EEC	Added 12/96. Plan an alternative sonde type using G.P.S.	09/96
62414	Y	AIR	A	N	-	RADIOTHEODOLITE RADAR	AIR PLESSEY	ADDED TO LIST DEC '92. Plan an alternative sonde type using G.P.S.	09/96
France									
61976	Y	STAR/MES	A	Y	V867	OMEGA	STAR/MES	Winds only between 1.5.97 & 1.11.97	09/96
REGION 2 - ASIA									
Hong Kong									
45004	Y	DIGICORA MW11	A	Y	V86	OMEGA	DIGICORA MW11		07/96
Kazakhstan									
28952	N	AVK		Y	-		AVK		09/96
35408	N	AVK		Y		SECONDARY-RADAR	AVK	Temporarily suspended due to lack of funds 1.02.96	09/96
35229	N	AVK		Y	-		AVK		09/96
35394	N	AVK		Y	-		AVK		09/96
35700	N	AVK		Y	-		AVK		09/96
36746	N	AVK		Y		SECONDARY-RADAR	AVK	Temporarily suspended due to lack of funds 1.3.96	09/96
35796	N	AVK		Y		SECONDARY RADAR	AVK	From March '96 no upper air observations due to lack of spare parts	09/96
36477	N	METEORIT-1		Y		SECONDARY-RADAR	METEORIT-1	Closed 15.4.96 RADAR SEMI-AUTOMATIC/MANUAL	09/96
36870	N	AVK		Y	-		AVK		09/96
38062	N	AVK		Y	-		AVK		09/96
38341	N	AVK		Y	-		AVK		09/96
REGION 3 - SOUTH AMERICA									
Argentina									
87047	N	MICROCORA	A	Y	V86	OMEGA	MICROCORA		09/96
87344	N	MICROCORA	A	Y	V86	OMEGA	MICROCORA		09/96
87418	N	MICROCORA	A	Y	V86	OMEGA	MICROCORA		09/96
Ecuador									
84008	N	DIGICORA MW11	A	Y	Auto- matica	OMEGA	DIGICORA MW11		10/96
REGION 4 - NORTH AND CENTRAL AMERICA									
Mexico									
76151	N	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76225	N	GMD		N		RADIOTHEODOLITE	GMD		09/96
76256	N	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76382		AIR				RADIOTHEODOLITE	AIR	New entry:13.9.96	09/96
76394	N	GMD		N		RADIOTHEODOLITE	GMD		09/96
76405		VAISALA				OMEGA	DIGICORA	New entry:13.9.96	09/96
76458	N	GMD		N		RADIOTHEODOLITE	GMD		09/96
76595		VAISALA				OMEGA	DIGICORA	New entry:13.9.96	09/96
76612	N	GMD		N		RADIOTHEODOLITE	GMD		09/96

Index No.	Name	POSITION			PROGRAM		RADIOSONDE		
		Lat. (=S)	Long. (=W)	Ht. (m/AMSL)	TEMP	PILOT	Regular	Alternative	Frequency
76644	MERIDA	20.98	-89.65	9	00	-	VIZ		1680
76654	MANZANILLO	19.05	-104.32	3	00	12	VAISALA		403
76679	CD. DE MEXICO	19.43	-99.13	2235	00	12	VAISALA		403
76692	VERACRUZ	19.15	-96.12	16	00	12	VAISALA		403
76723	ISLA SOCORRO	18.72	-110.95	35	00	12	VAISALA		403
76805	ACAPULCO	16.83	99.93	3	00	12	VAISALA		403
Nicaragua									
78730	PUERTO CABEZAS	14.04	-83.37	20	12	12	VRS80	-	403
REGION 5 - SOUTH-WEST PACIFIC									
Fiji									
91660	NANDI AIRPORT	-17.45	177.27	16	00	0012	VRS80	-	403
Kiribati									
91810	TARAWA (Operated by New Zealand)	1.35	172.92	2	00	-	VRS80N		403
New Zealand									
93112	WHENUAPAI	-36.78	174.63	30	0012	001218	VRS80N at 0012	VRS80N at 18	403
Philippines									
98223	LAOAG	18.18	120.53	5	00	-	VRS80N	-	403
98444	LEGASPI	13.13	123.73	17	00	-	VRS80N	-	403
98618	PUERTO PRINCESA	9.75	118.73	15	-	00	Reflector	-	-
98646	MACTAN	10.3	123.97	24	00	-	VRS80N	-	403
Tuvalu									
91843	FUNAFUTI (Operated by New Zealand)	-8.52	179.22	1	00	-	VRS80N		403
REGION 6 - EUROPE									
Beigium									
06478	ST-HUBERT	50.03	5.4	555	0012		VRS80N		403
Ireland									
03953	VALENTIA OBSERVATORY	51.93	-10.25	14	001218		VRS80N		403
Israel									
40179	BET-DAGAN	32	34.82	35	0012	0618	VIZ II		1680
Latvia									
26422	RIGA	56.97	24.03	26	0012	-	VRS80	MARZ-2-2	403
Spain									
08221	MADRIS/BARAJAS RS	40.47	-3.58	633	0012		VRS80		403
08430	MURCIA	38	-1.17	62	0012		VRS80		403
7 - ANTARCTICA									
89055	BASE MARAMBIO (CENTRO MET. ANT.) (operated by Argentina)	-64.23	-56.72	198	12	18	VRS80N		403

Index No.	GCOS Y/N	Ground Equipment	Geo ht calc Auto/ Man	Radiation Corr.		WINDFINDING		Remarks	Date
				Yes/ No	Type	System/Method	Equipment		
76644	N	GMD		N		RADIO THEODOLITE	GMD		09/96
76654	Y	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76679	N	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76692	N	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76723	N	VAISALA		N		OMEGA	DIGICORA	VIZ 1392	09/96
76805		VAISALA				OMEGA	DIGICORA	New entry: 13.9.96	09/96
Nicaragua									
78730	N	DIGICORA	A	N	-	OMEGA	NAVAID	Started operations effective 6.11.95	11/96
REGION 5 - SOUTH-WEST PACIFIC									
Fiji									
91680	N	PAII	A	Y	V86	RADAR	WF 100-5	Plan to switch to PC-CORA in 1997	08/96
Kiribati									
91610	N	DIGICORA	-	Y	V93	OMEGA	DIGICORA		08/96
New Zealand									
93112	Y	DIGICORA	A	Y	V93	OMEGA	DIGICORA		06/96
Philippines									
98223	Y	DIGICORA (VAISALA)	A	Y	V68	OMEGA Signal	-	Added 12/93	08/96
98444	Y	DIGICORA (VAISALA)	A	Y	V68	OMEGA Signal	-	Added 12/93	08/96
98618	Y	Winf Finding Radar	A	N	-	Winf Finding Radar	-	Added 12/93	08/96
98646	Y	MICROCORA (VAISALA)	A	Y	V68	OMEGA Signal	-	Added 12/93	08/96
Tuvalu									
91643	Y	DIGICORA	-	Y	V93	OMEGA	DIGICORA		07/96
REGION 6 - EUROPE									
Belgium									
06476	N	DIGICORA MW11	A	Y	V86	OMEGA	DIGICORA		11/96
Ireland									
03953	Y	PC-CORA	A	Y	V86	OMEGA	PC-CORA	Digicora system used for backup	10/96
Israel									
40179	N	CV-700		Y		RADIO THEODOLITE	ATIR		09/96
Latvia									
26422	Y	DIGICORA	A	Y	V93	OMEGA	DIGICORA	During the period 18.1.96 to 30.6.96 sounding with two systems: DIGICORA & METEORIT.	08/96
Spain									
08221	N	DIGICORA	A	Y	V93	OMEGA	DIGICORA		11/96
08430	N	DIGICORA	A	Y	V93	OMEGA	DIGICORA		11/96
7 - ANTARCTICA									
89055	N	DIGICORA	A	Y	V86	OMEGA	DIGICORA	Plan to use GPS	09/96

Regulatory or Guidance Material

CHANGES IN THE ALLOCATION OF INDEX NUMBERS

As previously mentioned in Newsletter (No.10) the new range of index numbers 92001-92149 attributed to Papua New Guinea will be implemented on 1 January 1997. The changes are indicated under the heading 'Volume A'.

Information on the Operational Status of Elements of the Surface-Based Sub-System

PUBLICATION NO. 9, VOLUME A - OBSERVING STATIONS

Changes to Existing stations

Index No.	Station Name	Position		Elevation		Pressure		Surface observations								OBS.H		Upper-air				Remarks
		Latitude	Longitude	HP	H/HA	Level	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18			
II - China																						
50136	MOHE	53 58N	122 31E	433			X	X	X	X	X	X	X	X						Effective 12 UTC on 31.12.96		
V - New Zealand																						
93089	WARKWORTH	36 26S	174 40E	72	72		X	X	X	X				X						SUNDUR		
V - Papua New Guinea																						
92001	KIUNGA W.O.	06 05S	141 11E		35		23	02	05	08				20	H20-06					A;METAR;CLIMAT(C);EVAP;SUNDUR		
92003	P DARU W.O.	09 05S	143 12E		6		23	02	05	08				20	H19-08					A;C;METAR;CLIMAT(C);EVAP;SUNDUR		
92004	P WEWAK W.O.	03 35S	143 40E		5		23	02	05	08	11			20	H17-12					A;CLIMAT(C)		
92005	P MT HAGEN	05 50S	144 18E		1631										H20-08					A;METAR		
92006	KOINAMBE	05 29S	144 36E		884		23	02	05	08				20								
92010	GOROKA	06 04S	145 23E		1587										H20-08					A;METAR		
92011	KUNDIAWA	06 01S	144 58E		1493		23	02	05					20								
92012	KEREMA	07 57S	145 46E		3		23	02	05	08				20						A		
92013	OROBIGA	05 47S	140 20E		1480															CLIMAT(C);STATION ONLY		
92014	P MADANG W.O.	05 13S	145 48E		4		23	02	05	08	11		17	20	H17-12	RW	P	P	P	WT;A;C;METAR;CLIMAT(C);EVAP;SUNDUR		
92016	AIYURA	06 19S	145 54E		1554		23	02	05	08				20						CLIMAT(C)		
92317	AMBUNTI	04 13S	142 49E		10															A;CLIMAT(C);STATION ONLY		
92021	MENDI	06 10S	143 40E		1676		23	02	05	08				20						A		

Index No.	Station Name	Position		Elevation		Pressure		Surface observations							OBS.H	Upper-air				Remarks
		Latitude	Longitude	HP	H/HA	Level	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
92022	P VANIMO	02 42S	141 19E		3		23	02	05	A;C
92023	BULOLO	07 12S	146 39E		583		23	02	05	08	.	.	.	20		.	.	.	CLIMAT(CT)	
92026	SARAMANDI	04 05S	144 05E		40		.	.	.	.	.	.	.		.	.	.	.	CLIMAT(C);STATION ONLY
92031	LAKE KUTUBU	06 22S	143 18E		807		23	02	05	.	.	.	.	20		.	.	.	
92035	P PORT MORESBY W.O.	09 26S	147 12E		42		23	02	05	08	11	14	17	20	H00-24	RW	P	P	P	WR;A;AUT;METAR;CLIMAT(CT);EVAP;HU/FC;SUNDUR
92040	BIPI	02 01S	146 59E		4		23	02	05	08	11	.	.	20		.	.	.	C	
92044	P MOMOTE W.O.	02 04S	147 26E		4		23	02	05	08	11	.	17	20	H17-12	RW	P	P	P	WT;A;C;METAR;CLIMAT(CT);EVAP;SUNDUR
92047	NADZAB W.O.	06 34S	146 43E		70		23	02	05	08	11	.	17	20	H17-11	P	P	.	.	A;METAR;CLIMAT(CT);EVAP;SUNDUR
92057	SAFIA	09 35S	148 38E		45		23	02	05	.	.	.	.	20		.	.	.	A
92068	AGAUN	09 58S	149 23E		1005		23	02	05	08	.	.	.	20		.	.	.	A	
92069	KURADA	10 03S	151 00E		3		23	02	05	08	.	.	.	20		.	.	.	C	
92070	SIDEIA	10 37S	150 40E		3		23	02	05	08	11	.	.	20		.	.	.	C	
92071	UVOL	06 10S	150 57E		3		23	02	05	08	.	.	.	20		.	.	.	C	
92072	HOSKINS W.O.	0528S	15024E		8		#	02	05	08	.	.	.	#	H20-08	C;A,CLIMAT(CT);METAR, Included under 'NEW STATION' in Aug/Sept 96 Newsletter
92075	DAMI	05 29S	150 24E		5		.	.	.	.	.	.	.		.	.	.	.	CLIMAT(C);STATION ONLY
92076	P KAVIENG W.O.	02 34S	150 49E		7		23	02	05	08	11	.	.	20	H19-12	P	P	.	.	A;C;METAR;CLIMAT(CT);EVAP;SUNDUR
92077	P GURNEY W.O.	10 19S	150 20E		20		23	02	05	08	.	.	.	20	H19-08	A;METAR;CLIMAT(CT);SUNDUR;EVAP
92080	SALAMO	09 40S	150 47E		15		23	02	05	.	.	.	.	20		.	.	.	A;C
92082	NUGURIA	03 19S	154 40E		3		23	02	05	.	.	.	.	20		.	.	.	C
92083	NAMATANAI	03 40S	152 27E		42		23	02	05	.	.	.	.	20		.	.	.	A
94084	FENI	04 01S	153 40E		2		23	02	05	.	.	.	.	20		.	.	.	C
92087	P MISIMA W.O.	10 41S	152 50E		6		23	02	05	08	.	.	.	20	H19-08	P	P	.	.	A;C;METAR;CLIMAT(CT);EVAP;SUNDUR
92088	LIHIR ISLES	03 37S	152 32E		3		23	02	05	08	.	.	.	20		.	.	.	C	
92090	P JINJO	11 19S	154 14E		10		23	02	05	08	.	.	.	20		.	.	.	C	
92092	NIMOWA	11 18S	153 16E		3		23	02	05	08	.	.	.	20		.	.	.	C	
V - Philippines																				
98327	CLARK	15 10N	120 34E	155	154		HOURLY METAR OBSERVATIONS AND TAFOR
VI - United Kingdom of Great Britain and Northern Ireland																				
03660	HIGH WYCOMBE HQSTC .	51 41N	00 48W		204		X	X	X	X	X	X	X	X	H00-24	AUT
VI - Greenland																				
04202	P THULE A.B.	76 32N	68 45W	77	77		X	X	X	X	X	X	X	X	H*	RW	.	RW	.	A;C;WN;*METAR/SPECI A/R
04220	P EGEDESMINDE	68 42N	52 45W	41	43		X	X	X	X	X	X	X	X		RW 23	.	RW 11	.	C;CLIMAT(CT);WN
04260	P FREDERIKSHAAB	62 00N	49 40W	15	13		X	X	X	X	X	X	X	X	H*	A;*MET REPORT/SPECIAL A/R
04261	GROENNEDAL	61 14N	48 06W	32	35		X	.	.	X	X	X	X	X	H*	A;*MET REPORT/SPECIAL A/R
04270	NARSARSUAQ	61 10N	45 25W	32	34		X	X	X	X	X	X	X	X	H*	A;*METAR/SPECI A/R
	NARSARSUAQ (UPPER-AIR STATION)	61 09N	45 26W	4	4			RW 23	.	RW 11	.	CLIMAT(T);SUNDUR;WN

Index No.	Station Name	Position		Elevation		Pressure		Surface observations							OBS.H	Upper-air				Remarks
		Latitude	Longitude	HP	H/HA	Level	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
04320	P DANMARKSHAVN	76 46N	18 40W	12	11		X	X	X	X	X	X	X	X		RW 23	.	RW 11	.	C;CLIMAT(CT);SUNDUR;WN
04339	SCORESBYSUND	70 29N	21 57W	69	65		X	X	X	X	X	X	X	X		RW 23	.	RW 11	.	C;CLIMAT(CT);SUNDUR;WN
04360	P TASIILAQ	65 36N	37 38W	52	50		X	X	X	X	X	X	X	X		RW 23	.	RW 11	.	CLIMAT(CT);SUNDUR;WN
04361	KULUSUK LUFTHAVN	65 34N	37 08W	37	35		.	.	.	.	.	.	.	.	H*	.	.	.	.	A;*METAR/SPECI A/R
VI - Denmark and Faroe Islands																				
06011	P THORSHAVN	62 01N	06 46W	55	54		X	X	X	X	X	X	X	X	H04-05, 10-17, 22-23	RW 23	.	RW 11	.	C;CLIMAT(CT);SUNDUR; WN
06030	P AALBORG	57 06N	09 51E	13	3		X	X	X	X	X	X	X	X	S00-24*	.	.	.	.	A;CLIMAT(C);*METAR/SPECI
06034	SINDAL FLYVEPLADS	57 30N	10 13E	28	28		.	.	X*	X	X	X	X#	.	S+	.	.	.	.	A;*1-5;#1-5,7;+METAR/SPECI A/R
06069	FOULUM	56 30N	09 34E	58	54		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
06108	VAMDRUP	55 26N	09 20E	45	44		X*	X*	X#	X	X	X	X+	X*	H00-24*	.	.	.	.	A;*AUT;#AUT;DST AUT ONLY/SEULEMENT 6,7;+AUT, DST AUT ONLY/SEULEMENT 1-5;**METAR/SPECI A/R
06110	P SKRYDSTRUP	55 14N	09 16E	47	43		X	X	X	X	X	X	X	X	S00-24*	.	.	.	.	A;*METAR/SPECI
06124	TAASINGE	55 01N	10 34E	7	6		X*	X*	X*	X#	X#	X#	X*	X*	H00-24*	.	.	.	.	A;*AUT;#AUT ON 6,7 & PUBLIC HOLIDAYS/LES 6,7 & JOURS FERIES
06153	TYVELSE	55 23N	11 43E	40	35		.	.	X	X	X	X	X	X		.	.	.	.
06168	NAKKEHOVED	56 07N	12 21E	42	37		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT;SUNDUR
06179	MOEN	54 57N	12 32E	16	14		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT;LH
06181	KOEBENHAVN/JAEGERSBORG	55 46N	12 32E	42	40		X	X*	X*	X*	X	X*	X*	X*	H00-24*	RW 23	.	RW 11	.	CLIMAT(T);*AUT;WN
VI - Germany																				
10555	WEIMAR	50 59N	11 19E		264		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	RAD;AUT

Deleted Stations

Country	Index No.	Station Name
V- New Zealand	93116	AUKLAND CITY EDR
V- Papua New Guinea	94042	LEMAKOT
	94051	ERAVE
	94085	P RABAU M.O.
	94097	P KIETA M.O.

I

New Stations

Index No.	Station Name	Position		Elevation		Pressure Level	Surface observations							OBS.H OBS.S	Upper-air				Remarks
		Latitude	Longitude	HP	H/HA		00	03	06	09	12	15	18		21	00	06	12		18
I - Congo																			
64451	BOULANKIO	0349S	1515E	750	-		X	X	X	X	X	X	X		.	.	.	.	Effective 1.1.97
64462	KELLE	0006N	1333E	408	-		X	X	X	X	X	X	X		.	.	.	.	Effective 1.1.97
64463	EWO	0535S	1449E	438	-		X	X	X	X	X	X	X		.	.	.	.	Effective 1.1.97
I - Seychelles																			
63981	PRASLIN	0519S	5541E	3	3		X	X	X	X	X	X	X		.	.	.	.
V - Papua New Guinea																			
92100	TOKUA W.O.	0420S	15222E	-	10		23	02	05	.	.	.	20	H19-07	.	.	.	.	A;METAR
VI - Denmark and Faroe Islands																			
06005	MYKINES	6206N	0741W	93	89		X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT

**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 that do not reach their NMCs, a special table accompanied by explanatory notes is included in this Newsletter. The table will 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".

EXPLANATORY NOTES

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).

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

COLUMN A:

The station index number (Iiii) and name of station;

COLUMN B:

Latitude and Longitude in degrees and minutes with the appropriate letters (N, S, E and W);

COLUMN C:

The TTAAii CCCC of the abbreviated headings of the meteorological bulletins which contain 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:

!P= Elevation of the station in metres (the datum level to which barometric pressure reports at the station refer);

H = Elevation of the ground, in metres, (average level of terrain in immediate vicinity of station), for stations not located on aerodromes;

HA = Official altitude of the aerodrome given for stations located on aerodromes 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 (see table 1):

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	

Table 1

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.

**These tables should be sent to the
Secretariat
BEFORE the 20th of the month for inclusion in the
“OPERATIONAL NEWSLETTER”,
as appropriate.**

Feed-Back from Members to the Secretariat on any Changes in the Observing Network

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

FOR YOUR INFORMATION

Please note that a complete listing of moored/drifted buoys will be provided bi-annually, in May/June and November/December. All other issues will contain an updated listing showing changes. For the drifters this would be those which ceased to operate plus new deployments; for the moorings this would be those that were withdrawn plus those redeployed to new locations.

AUTOMATIC MARINE STATIONS

KEY: Observed or Technical Parameters

Column	Parameters	Column	Parameters
1	Wind direction, speed and peak wind	11	Visibility
2	Air temperature	-	Parameter not observed
3	Air pressure	X	Buoy observes this parameter
4	Pressure tendency	.	Data under evaluation, not reported
5	Sea-surface temperature		
6	Wave period and height	B	Buoy beached, sensor reporting
7	Wave spectra	N	No sensor installed
8	Drogued	Q	Data questionable, but reported
9	Subsurface temperatures	R	Buoy Retrieved
10	Relative humidity	S	Sensor/system failure

United States of America

List of U.S.A. Ocean Data Acquisition Systems (ODAS) included in the December 1996 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.

United States of America

Moored Buoys
POSITION: 28.11.1996 - 5.12.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
41001*	-	34.68N	72.64W	X	X	X	-	X	X	X	-	-	-	-
41002*	-	32.27N	75.19W	X	X	X	-	X	X	X	-	-	-	-
41004	-	32.51N	79.10W	S	S	S	-	S	S	S	-	-	-	-
41009	-	28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-
41010	-	28.90N	78.50W	X	X	X	-	X	X	X	-	-	-	-
41022	-	31.89N	80.86W	S	X	X	-	X	X	X	-	-	-	-
42001*	-	25.93N	89.65W	X	X	X	-	X	X	X	-	-	-	-
42002*	-	25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-
42003*	-	25.94N	85.91W	X	X	X	-	X	S	S	-	-	-	-
42007	-	30.09N	88.77W	X	X	X	-	X	X	X	-	-	-	-
42019	-	27.90N	95.00W	X	X	X	-	S	X	X	-	-	-	-
42020	-	27.01N	96.51W	X	X	X	-	S	X	X	-	-	-	-
42035	-	29.25N	94.41W	S	X	X	-	X	X	X	-	-	-	-
42036	-	28.51N	84.51W	X	X	X	-	X	X	X	-	-	-	-
42039	-	28.78N	86.04W	X	X	X	-	X	X	X	-	-	-	-
42040	-	29.20N	88.25W	X	X	X	-	X	X	X	-	-	-	-
44004*	-	38.46N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44005*	-	42.90N	68.94W	S	S	S	-	S	S	S	-	-	-	-
44007	-	43.53N	70.14W	X	X	X	-	X	X	X	-	-	-	-
44008*	-	40.50N	69.43W	X	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	X	X	X	-	X	X	X	-	-	-	-
44028*	-	41.40N	71.08W	X	S	X	-	X	X	X	-	-	-	-
45001*	-	48.05N	87.77W	R	R	R	-	R	R	R	-	-	-	-
45002*	-	45.30N	86.42W	R	R	R	-	R	R	R	-	-	-	-
45003*	-	45.32N	82.77W	R	R	R	-	R	R	R	-	-	-	-
45004*	-	47.55N	86.53W	R	R	R	-	R	R	R	-	-	-	-
45005*	-	41.68N	82.40W	R	R	R	-	R	R	R	-	-	-	-
45006*	-	47.32N	89.87W	R	R	R	-	R	R	R	-	-	-	-
45007*	-	42.68N	87.03W	X	X	X	-	X	X	X	-	-	-	-
45008*	-	44.28N	82.42W	R	R	R	-	R	R	R	-	-	-	-
46001*	-	56.29N	48.18W	X	X	X	-	X	X	X	-	-	-	-
46002*	-	42.53N	30.26W	X	X	X	-	X	X	X	-	-	-	-
46003*	-	51.85N	55.92W	X	X	X	-	X	X	X	-	-	-	-
46005*	-	46.08N	31.00W	X	X	X	-	X	X	X	-	-	-	-
46006*	-	40.87N	37.54W	X	X	X	-	X	X	X	-	-	-	-
46011	-	34.88N	20.87W	X	X	X	-	X	X	X	-	-	-	-
46012	-	37.39N	22.73W	X	X	X	-	S	X	X	-	-	-	-
46013	-	38.23N	23.30W	X	X	X	-	X	X	X	-	-	-	-
46014*	-	39.22N	23.97W	X	X	X	-	X	X	X	-	-	-	-
46025	-	33.75N	19.07W	X	X	X	-	X	X	X	-	-	-	-

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
46026*	-	37.75N	22.82W	X	X	X	-	X	X	X	-	-	-	-
46027	-	41.85N	24.39W	X	X	X	-	X	X	X	-	-	-	-
46028	-	35.74N	21.88W	X	X	X	-	X	X	X	-	-	-	-
46029*	-	46.25N	24.25W	S	S	S	-	S	S	S	-	-	-	-
46030	-	40.42N	24.53W	X	X	X	-	X	X	X	-	-	-	-
46035	-	56.91N	77.81W	X	X	X	-	X	X	X	-	-	-	-
46041	-	47.42N	24.52W	X	S	X	-	X	X	X	-	-	-	-
46042	-	36.75N	22.41W	X	X	X	-	X	X	X	-	-	-	-
46045	-	33.84N	18.45W	X	X	X	-	X	X	X	-	-	-	-
46053	-	34.24N	19.85W	X	X	X	-	X	X	X	-	-	-	-
46054	-	34.27N	20.45W	X	X	X	-	X	X	X	-	-	-	-
46059	-	37.98N	30.00W	S	X	X	-	X	X	X	-	-	-	-
46060	-	60.58N	46.83W	X	X	X	-	X	X	X	-	-	-	-
46061	-	60.22N	46.83W	X	S	X	-	X	X	X	-	-	-	-
51001*	-	23.40N	62.27W	X	X	X	-	X	X	X	-	-	-	-
51002	-	17.19N	57.83W	X	X	X	-	X	X	X	-	-	-	-
51003*	-	19.14N	60.81W	X	X	X	-	X	X	X	-	-	-	-
51004*	-	17.44N	52.51W	X	X	X	-	S	X	X	-	-	-	-
51026	-	21.35N	56.93W	R	R	R	-	R	R	R	-	-	-	-

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

Total Base Funded Buoys : 30

Total Other Buoys : 34

Total Moored Buoys : 64

Drifting Buoys

POSITION: 4-5.12.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
16811	17180	24°S	071°E	N	X	X		X	N	N	N	-	-	-
17810	17182	19°S	040°W	N	S	B		X	N	N	N	-	-	-
41529	23637	42°N	043°W	X	X	X		S	N	N	N	-	-	-
41530	23641	37°N	049°W	X	X	X		X	N	N	N	-	-	-
41611	23635	13°N	046°W	X	X	X		X	N	N	N	-	-	-
41612	23638	14°N	052°W	X	X	X		X	N	N	N	-	-	-
41613	23642	18°N	051°W	X	X	X		X	N	N	N	-	-	-
41614	23643	14°N	051°W	X	X	X		X	N	N	N	-	-	-
46551	20705	31°N	137°W	S	S	X		X	N	N	N	-	-	-
46554	20712	35°N	140°W	X	S	X		X	N	N	N	-	-	-
46555	20707	27°N	139°W	X	X	X		X	N	N	N	-	-	-
46556	20711	60°N	145°W	S	S	B		S	N	N	N	-	-	-
46558	20708	33°N	137°W	X	S	X		X	N	N	N	-	-	-
54809	20719	34°S	157°W	N	X	X		X	N	N	N	-	-	-
54810	17181	17°S	177°E	N	S	B		S	N	N	N	-	-	-
54811	20713	37°S	104°W	N	X	X		X	N	N	N	-	-	-
54812	17178	20°S	112°W	N	X	X		X	N	N	N	-	-	-
54813	20717	36°S	110°W	N	X	X		X	N	N	N	-	-	-
54814	05127	25°S	143°W	N	X	X		X	N	N	N	-	-	-
56808	20720	35°S	036°E	N	X	X		X	N	N	N	-	-	-
56810	17185	29°S	053°E	N	X	S		X	N	N	N	-	-	-

339 drifting buoys have been deployed in support of TOGA; 10 are operational

Australia

Shipboard Data Collection (DCP)

POSITION: 31.10.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
55513	11581	-32.81	152.199	-	X	X	-	-	-	-	-	-	-	-
55515	11580	-9.473	147.156	-	X	X	-	-	-	-	-	-	-	-
55516	11527	-25.243	103.123	-	X	X	-	-	-	-	-	-	-	-
55520	7865	-39.319	151.194	-	X	X	-	-	-	-	-	-	-	-
55521	7866	-68.043	76.823	-	X	X	-	-	-	-	-	-	-	-
55524	11662	-41.97	161.507	-	X	X	-	-	-	-	-	-	-	-

Drogued Drifting Buoys

POSITION: 31.10.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
52623	2946	-12.817	138.987	X	X	X	X	S	-	-	-	-	-	-
53548	17179	-26.101	100.803	-	X	X	-	X	-	-	-	-	-	-
56521	2934	-48.854	-167.894	-	-	S	-	X	-	-	-	-	-	-
56523	17183	11.84	64.245	-	X	X	-	X	-	-	-	-	-	-
56524	17177	-35.929	135.188	-	X	X	-	X	-	-	-	-	-	-
56525	2933	-44.121	140.171	-	S	X	X	X	-	-	-	-	-	-
56529	4873	-17.943	107.015	-	-	X	-	X	-	-	-	-	-	-

France

Moored Buoys
POSITION: 20.11.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
41096	05833	16.5N	61.5W	-	-	-	-	X	X	.	-	-	-	-
41097	05832	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-
62163*	-	47.5N	08.5W	X	X	X	X	X	X	-	X	-	X	-

*Co-operation UK Met. Office/Météo France. Data transmitted in SHIP code.

Drifting Buoys

Data from drifting buoys are collected by the ARGOS system. They are distributed on the GTS in BUOY code from CLS/ARGOS in Toulouse (heading SSVX01 LFPW or SSVX03 LFPW)

Indian Ocean
POSITION: 20.11.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
14535	10110	32.9S	41.2E	-	-	X	X	X	-	-	-	-	-	-
14536	10112	32.9S	30.9E	-	-	X	X	X	-	-	-	-	-	-
16536	10108	34.3S	63.1E	-	-	X	X	X	-	-	-	-	-	-

North Atlantic
POSITION: 20.11.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
62503	14427	37.8N	15.1W	-	-	X	X	X	-	-	-	-	-	-
62504	14428	36.6N	11.9W	-	-	X	X	X	-	-	-	-	-	-
62507	05793	38.0N	22.3W	-	-	X	X	X	-	-	-	-	-	-
62508	05792	50.5N	18.1W	-	-	X	X	S	-	-	-	-	-	-
62510	05797	40.1N	16.6W	-	-	X	X	X	-	-	-	-	-	-
62513	05798	44.0N	19.2W	-	-	X	X	X	-	-	-	-	-	-
62515	14426	48.2N	18.1W	-	-	X	X	X	-	-	-	-	-	-
62516	05790	43.6N	15.3W	S	X	S	S	X	-	-	-	-	-	-
62517	10118	49.1N	16.9W	S	X	X	X	X	-	-	-	-	-	-
62518	15534	45.7N	21.4W	X	-	X	X	X	-	-	-	X	-	-

United Kingdom of Great Britain and Northern Ireland

Moored Buoys
Including Light Vessels, Islands and Fixed Platforms
POSITION: 18.11.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	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'N	02°04'W	X	X	X	X	-	-	-	X	-	X	-
03695*	-	51°40'N	01°06'E	X	X	X	X	-	-	-	X	-	X	-
62026	21271	55°20'N	02°20'E	X	X	X	X	X	X	-	X	-	X	-
62029	06261	48°42'N	12°25'W	X	X	X	X	X	X	-	X	-	X	-
62081	06266	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	X
62105	21268	55°37'N	12°41'W	X	X	X	X	X	X	-	X	-	X	-
62106	15824	57°00'N	09°52'W	X	X	X	X	X	X	-	X	-	X	-
62107**	-	50°04'N	06°04'W	X	X	X	X	X	X	-	X	-	X	X
62108+	15830	53°34'N	15°30'W											
62109	15829	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	-
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	21270	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	15825	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
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	15831	59°15'N	11°41'W	X	X	X	X	X	X	-	X	-	X	-

+Missing presumed lost as of 1600

*Fixed platforms or islands

** Automatic Light Vessels

Drifting Buoys
POSITION: 18.11.1996

WMO Buoy Id.	ARGOS Id.	Lat.	Long.	1	2	3	4	5	6	7	8	9	10	11
48102	1261*	80.3N	46.8W	-	X	X	-	-	-	-	-	-	-	-
25565	1639*	61.3N	03.6W	-	X	X	-	-	-	-	-	-	-	-
44614	1256	61.2N	20.4W	-	X	X	X	X	-	-	-	-	-	-
44728	3024	63.5N	12.1W	-	X	X	X	X	-	-	-	-	-	-
44760	2947	27.1N	65.7W	-	X	X	X	X	-	-	-	-	-	-
44763	3098	60.1N	17.8W	-	X	X	X	X	-	-	-	-	-	-
44770	3035	25.8N	57.3W	-	X	X	X	X	-	-	-	-	-	-
44773	3132	53.6N	11.0W	-	X	X	X	X	-	-	-	-	-	-
44777	1249	55.0N	31.5W	-	-	X	X	X	-	-	-	-	-	-
65594	1252	56.9N	30.4W	-	X	X	X	X	-	-	-	-	-	-
44767	3013	60.0N	17.4W	-	X	X	X	X	-	-	-	-	-	-
44771	2954	57.7N	07.5W	X	X	X	X	X	-	-	-	-	-	-
44778	1258	53.8N	27.7W	-	X	X	X	X	-	-	-	-	-	-
44743	1248	49.4N	39.5W	-	X	X	X	X	-	-	-	-	-	-
44617	1255	47.9N	27.7W	-	X	X	X	X	-	-	-	-	-	-
44780	1257	53.0N	37.7W	-	X	X	X	X	-	-	-	-	-	-
44776	2957	54.6N	44.0W	X	-	X	X	X	-	-	-	-	-	-
44726	2955	53.2N	41.5W	X	X	X	X	X	-	-	-	-	-	-

*Ice drifter

ARGOS SERVICE

ARGOS Monthly Status Report

Date of statistics computation: 3 December 1996

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

Drifting Buoys	1191
Boats (<20 knots)	-
Marine Stations	146
Moored Buoys	303
Fixed Stations	489
Marine Animals	146
Terrestrial Animals	60
Birds	86
Balloons	4
TOTAL:	2425

- Reports inserted into the GTS
(list of monthly collected ARGOS platforms on indicated GTS sites sorted by type of platform)
Inserted by RTH Toulouse:

Drifting Buoys	93
Fixed Stations	18
Moored Buoys	4
XBT Ships	-

Inserted by RTH/WMC Washington:

Drifting Buoys	638
Fixed Stations	40
Moored Buoys	56
XBT Ships	-

- Coding statistics of platforms
reporting through ARGOS and distributed over the GTS:

BATHY	329
BUOY	238027
SHIP:	674
SYNOP:	32479
TOTAL:	271509

III. GLOBAL TELECOMMUNICATION SYSTEM

"ADDITIONAL" DATA AND PRODUCTS

RELATED TO:

Resolution 40 (Congress-XII) - WMO policy and practice for the exchange of meteorological and related data and products including guidelines on relationships in commercial meteorological activities

In the context of the implementation of Res. 40 (Cg-XII), Congress requested the Secretary-General to report on a timely basis to all Members on those meteorological and related data and products on which Members have placed conditions related to their re-export for commercial purposes. In accordance with the pertinent deliberations of the Commission for Basic Systems at its eleventh session (28 October - 7 November 1996, Cairo, Egypt), the WMO Secretariat will also publish the list of "additional" data and products in the Operational Newsletter as a means of expeditious dissemination of that information. This method of publication does not replace circular letters to be issued by the Secretary-General when necessary, nor does it contain information on the conditions some Members have attached to their "additional" data and products. The text of these conditions will continue to be published through circular letters issued by the Secretary-General.

The plan is to publish in the Operational Newsletter twice per year the most recent, complete list, while the other Newsletter editions will contain only the changes and updates to the previously published list as received in the Secretariat.

LIST OF
“ADDITIONAL” DATA AND PRODUCTS
AS NOTIFIED TO THE SECRETARIAT
BY 31 OCTOBER 1996

III

LIST OF MEMBERS/CENTRES THAT HAVE IDENTIFIED "ADDITIONAL" DATA AND PRODUCTS
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Member	National Meteorological Service / National Meteorological Centre	Date of notification	Date of implementation
REGION I			
Spain	Instituto Nacional de Meteorología, Spain (Canary Islands)	27.09.96	01.12.96
Portugal	Instituto de Meteorologia, Portugal (Madeira)	18.07.96	31.08.96
France	Météo France (Reunion, Comoros)	10.10.96	01.04.96
REGION II			
Kazakstan	KazHYDROMET	03.05.96	-
Uzbekistan	Glavgidromet	05.08.96	-
REGION III			
France	Météo France (French Guiana)	10.10.96	01.04.96
Venezuela	Servicio de Meteorología Fev	27.05.96	-
REGION IV			
France	Météo France (Guadeloupe St. Barthelemy, St. Martin)	10.10.96	01.04.96
France	Météo France (Martinique)	10.10.96	01.04.96
France	Météo France (St. Pierre and Miquelon)	10.10.96	01.04.96
REGION V			
France	Direction Interrégionale de Polynésie française (French Polynesia)	11.07.96	01.07.96
France	Direction Interrégionale de Nouvelle-Calédonie (New Caledonia)	12.07.96	01.07.96
REGION VI			
Austria	Central Institute for Meteorology and Geodynamics	28.02.96	01.04.96
Czech Republic	Czech Hydrometeorological Institute	07.05.96	-
Denmark	Danish Meteorological Institute	29.01.96	01.03.96
ECMWF		11.06.96	25.06.96
Finland	Finnish Meteorological Institute	21.02.96	01.04.96
France	Météo France	10.10.96	01.04.96
Germany	Deutscher Wetterdienst	09.02.96	1-31.03.96
Greece	Hellenic National Meteorological Service	09.02.96	-
Hungary	Hungarian Meteorological Service	14.05.96	13.05.96
Iceland	The Icelandic Meteorological Office	07.02.96	-
Ireland	The Irish Meteorological Service - MET EIREANN	19.07.96	07.08.96
Israel	Meteorological Service	23.10.96	-
Latvia	Latvian Hydrometeorological Agency	10.10.96	-
Netherlands	NMC de Bilt	26.02.96	01.05.96
Norway	Norwegian Meteorological Institute	15.02.96	31.03.96
Portugal	Instituto de Meteorologia	18.07.96	31.08.96
Slovenia	Slovenian Hydrometeorological Institute	24.07.96	-
Spain	Instituto Nacional de Meteorología	27.09.96	01.12.96
Sweden	Swedish Meteorological and Hydrological Institute	23.02.96	31.03.96
Switzerland	Schweizerische Meteorologische Anstalt	09.02.96	07.02.96
United Kingdom of Great Britain and Northern Ireland	The Meteorological Office	06.02.96	01.03.96

Country: **CANARY ISLANDS (Spain)**
 National Centre: **Instituto Nacional de Meteorologia, Madrid**
 Compiling Centre: **Las Palmas/Santa Cruz de Tenerife**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type		Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(II)	CCCC				
ADDITIONAL DATA									
S	I	C	R	20	GCLP	FM 12-X Ext.	SYNOP	03,09,15,21	60020, 60030, 60040, 60338
S	M	C	R	60	GCLP	FM 12-X Ext.	SYNOP	06, 12, 18	60001, 60005, 60010, 60015, 60025, 60035
S	I	C	R	60	GCLP	FM 12-X Ext.	SYNOP	09,15	60001, 60005, 60010, 60015, 60025, 60035

Country: **MADEIRA (Portugal)**
 National Centre: **Instituto de Meteorologia**
 Compiling Centre: **Lisboa**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂				
T ₁	A ₁	A ₂	(ii)	CCCC					
ADDITIONAL DATA									
S	I	M	D	20	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08521, 08524
S	M	M	D	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08522
S	I	M	D	41	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08522
S	N	M	D	41	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08522, 08524

Country: **REUNION, COMOROS (France)**

Date: **1 November 1996**

National Centre: **Météo France, Toulouse**

Compiling Centre: **St. Denis**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	R	E	20	FMEE	FM 12-X Ext.	SYNOP	03, 09, 15, 21	61968, 61970, 61972, 61976, 61980, 67005
S	I	R	E	21	FMEE	FM 12-X Ext.	SYNOP	03, 09, 15	67004

Country: **KAZAKSTAN**
 National Centre: **KazHYDROMET**
 Compiling Centre: **Almaty**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	M	K	Z	20	UAAA	FM 12-X Ext	SYNOP	00, 06, 12, 18	35532, 35633, 35705, 35816, 38044, 38049, 38051, 38069

Country: **UZBEKISTAN**
National Centre: **Glavgidromet**
Compiling Centre: **Tashkent**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	U	Z	20	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21	38149, 38178, 38262, 38264, 38396, 38403, 38413, 38457, 38462, 38565, 38579, 38583, 38611, 38618, 38683, 38696, 38812, 38927
S	M	U	Z	34	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18	38023, 38141, 38339, 38427, 38551, 38553, 38816, 38818, 38829
S	I	U	Z	34	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21	38023, 38141, 38339, 38427, 38551, 38553, 38816, 38818, 38829
S	M	U	Z	35	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18	38475, 38606, 38711, 38827
S	I	U	Z	35	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21	38475, 38606, 38711, 38827
S	M	U	Z	60	UTTW	FM 12-X Ext	SYNOP	00, 06, 12, 18	38263, 38399, 38407, 38447, 38460, 38465, 38467, 38567, 38577, 38581, 38589, 38592, 38595, 38597, 38605, 38614, 38617, 38699, 38702, 38706, 38707, 38708, 38742, 38749, 38815, 38819, 38828, 38921
S	I	U	Z	60	UTTW	FM 12-X Ext	SYNOP	03, 09, 15, 21	38263, 38399, 38407, 38460, 38465, 38467, 38567, 38574, 38577, 38589, 38592, 38595, 38597, 38605, 38614, 38617, 38685, 38699, 38706, 38707, 38708, 38742, 38749, 38815, 38828, 38921

ADDITIONAL PRODUCTS

1. Forecast charts of the areas covered

53°N, 7°E - 47°N, 96°E; 23°N, 73°E - 25°N, 26°E

Scale: 1:15 000 000

Resolution: 250 km at 60°N

Obs. Time: 1200 UTC

24-hour AT-700 forecast

24-hour AT-500 forecast

24- and 36-hour AT-500 forecast of vertical motion

2. Alphanumeric NWP statistical interpretation products (regional forecasts)

(a) Short-range (24- and 36-hour) statistical forecast of temperature, precipitation and maximum wind speed for Central Asia using 00.00 UTC obs. data

(b) Medium-range (0-120, 144-240 and 0-240 hour) statistical forecast of anomalies and means of minimum, maximum and mean air temperature for Central Asia using 00.00 UTC obs. data

(c) 24-, 48-, 72-, 96- and 120- hour statistical temperature and precipitation forecast for Central Asia using 00.00 UTC and 1200 UTC obs. data.

Country: **FRENCH GUIANA**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Cayenne/Rochambeau**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	F	G	20	SOCA	FM 12-X Ext.	SYNOP	03	81405
S	I	F	G	20	SOCA	FM 12-X Ext.	SYNOP	09, 15, 21	81401, 81405, 81408, 81415

Country: **VENEZUELA**
 National Centre: **Servicio de Meteorologia Fav**
 Compiling Centre: **Maracay**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	V	N	20	SVBS	FM 12-X Ext	SYNOP	03, 09, 15, 21	80400, 80403, 80405, 80407, 80410, 80413, 80415, 80419, 80421, 80423, 80428, 80432, 80435, 80438, 80444, 80447, 80448, 80450, 80453, 80457, 80462
S	I	V	N	21	SVBS	FM 12-X Ext	SYNOP	03, 09, 15, 21	80402, 80412, 80416, 80420, 80425, 80427, 80431, 80434, 80437, 80440, 80442, 80472, 80475, 80476, 80478, 80479
S	M	V	N	21	SVBS	FM 12-X Ext	SYNOP	00, 06, 12, 18	80402, 80412, 80416, 80420, 80425, 80426, 80427, 80431, 80434, 80437, 80440, 80442, 80472, 80475, 80476, 80478, 80479

Country: **GUADELOUPE, ST. BARTHELEMY, ST. MARTIN (France)**

Date: **1 November 1996**

National Centre: **Météo France, Toulouse**

Compiling Centre: **Le Raizet**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	M	F	20	TFFR	FM 12-X Ext.	SYNOP	03	78897
S	I	M	F	20	TFFR	FM 12-X Ext.	SYNOP	09, 15, 21	78894, 78897

Country: **MARTINIQUE (France)**
 National Centre: **Météo France, Toulouse**
 Compiling Centre: **Fort-de-France/Le Lamentin**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	M	R	20	TFFF	FM 12-X Ext.	SYNOP	03, 09, 15, 21	78925
S	I	M	R	21	TFFF	FM 12-X Ext.	SYNOP	09, 15, 21	78922

Country: **ST. PIERRE AND MIQUELON (France)**

Date: **1 November 1996**

National Centre: **Météo France, Toulouse**

Compiling Centr **Saint-Pierre**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	F	P	20	LFVP	FM 12-X Ext.	SYNOP	09, 15, 21	71805

Country: **FRENCH POLYNESIA**
 National Centre: **Direction Interrégionale de Polynésie française**
 Compiling Centre: **FAAA, Tahiti**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	03	91930, 91938, 91944, 91949, 91952
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	09	91938, 91949, 91952
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	15	91925, 91930, 91938, 91943, 91944, 91945, 91948, 91949, 91952, 91954
S	I	P	F	20	NTAA	FM 12-X Ext.	SYNOP	21	91925, 91930, 91938, 91943, 91944, 91948, 91949, 91952, 91954, 91958

Country: **NEW CALEDONIA**
National Centre: **Direction Interrégionale de Nouvelle-Calédonie**
Compiling Centre: **Nouméa**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	03	91577, 91582, 91583, 91590, 91592
S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	09, 15	91583, 91590, 91592
S	I	N	C	20	NWBB	FM 12-X Ext.	SYNOP	21	91577, 91579, 91582, 91583, 91587, 91590, 91592, 91596
S	I	N	C	21	NWBB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	91570, 91574, 91598

Country: **AUSTRIA**
 National Centre: **Central Institute for Meteorology and Geodynamics**
 Compiling Centre: **Vienna**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical Data Type	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	O	S	21	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11010, 11038, 11120, 11150, 11240
S	M	O	S	22	LOWM	FM 12-X Ext.	SYNOP	00, 06, 12, 18	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245
S	I	O	S	22	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245

Country: **CZECH REPUBLIC**
National Centre: **Czech Hydrometeorological Institute**
Compiling Centre: **Prague**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical Data	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	C	Z	20	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	11487, 11518, 11659, 11782 (from RBSN stations)
S	M	C	Z	40	OKPR	FM 12-X Ext	SYNOP	00, 06, 12, 18	From non RBSN stations
S	M	C	Z	50	OKPR	FM 12-X Ext	SYNOP	00, 06, 12, 18	From non RBSN stations
S	I	C	Z	40	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	From non RBSN stations
S	I	C	Z	50	OKPR	FM 12-X Ext	SYNOP	03, 09, 15, 21	From non RBSN stations
S	N	C	Z	64	OKPR	FM 12-X Ext	SYNOP	01, 02, 04, 05, 07, 08, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23	From all stations
P	A	C	Z	21	OKPR	FM 94-X Ext	BUFR		<u>Radar</u> : 11520
P	A	C	Z	41	OKPR	FM 94-X Ext	BUFR		<u>Radar</u> : 11520
P	A	C	Z	51	OKPR	FM 94-X Ext	BUFR		<u>Radar</u> : 11520
S	L	C	Z	40	OKOH		CREX		<u>Ozone</u> : 11649

Country: **DENMARK**
National Centre: **Danish Meteorological Institute**
Compiling Centre: **Copenhagen**

Date: **1 November 1996**

ABBREVIATED HEADING										Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA												
S	I	D	N	21	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21	06030, 06060, 06070, 06110, 06180, 06193			
S	M	D	N	40	EKMI	FM 12-X Ext	SYNOP	00, 06, 12, 18	06024, 06041, 06043, 06048, 06052, 06058, 06069, 06071, 06081, 06096, 06104, 06119, 06120, 06142, 06143, 06156, 06159, 06160, 06168, 06169, 06170, 06179, 06190, 16191			
S	I	D	N	40	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21	06024, 06041, 06043, 06048, 06052, 06058, 06069, 06071, 06081, 06096, 06104, 06119, 06120, 06142, 06143, 06156, 06159, 06160, 06168, 06169, 06170, 06179, 06190, 16191			
S	I	F	A	21	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21	06011			
S	M	F	A	40	EKMI	FM 12-X Ext	SYNOP	00, 06, 12, 18	06010			
S	I	F	A	40	EKMI	FM 12-X Ext	SYNOP	03, 09, 15, 21	06010			

Country: **ECMWF**
National Centre:
Compiling Centre: **Reading**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL PRODUCTS									
G	P	A-D	A,E,I,S	98	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	T	A-D	A,E,I,K,M,O,Q,S	85	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	H	A-D	A,E,I,S	50	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	P	A-D	A,E,I,S	98	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	T	A-D	A,E,I,K,M,O,Q,S	85	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	H	A-D	A,E,I,S	50	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
G	W	E-H	A,E,I,K,M,O,Q,S	20	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	U,V	E-H	A,E,I,K,M,O,Q,S	20	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
G	W	E-H	A,E,I,S	85	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	U,V	E-H	A,E,I,S	85	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
G	P	I-L	A,E,I,S	98	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	T	I-L	A,E,I,K,M,O,Q,S	85	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	H	I-L	A,E,I,S	50	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	P	I-L	A,E,I,S	98	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	T	I-L	A,E,I,K,M,O,Q,S	85	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	H	I-L	A,E,I,S	50	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data Type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ESSENTIAL PRODUCTS									
G	P	A-D	K,M,O,Q	98	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	H	A-D	K,M,O,Q	50	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	P	A-D	K,M,O,Q	98	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	H	A-D	K,M,O,Q	50	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
G	W	E-H	K,M,O,Q	85	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	U,V	E-H	K,M,O,Q	85	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
G	P	I-L	K,M,O,Q	98	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
G	H	I-L	K,M,O,Q	50	ECMF	FM 47-IX Ext.	GRID	12	(5° x 5°)
H	P	I-L	K,M,O,Q	98	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)
H	H	I-L	K,M,O,Q	50	ECMF	FM 92-X Ext.	GRIB	12	(2.5° x 2.5°)

Country: **FINLAND**
National Centre: **Finnish Meteorological Institute**
Compiling Centre: **Helsinki**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
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T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	F	I	20	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02836, 02897, 02912, 02935, 02963, 02974
S	I	F	I	21	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02805, 02807, 02823, 02848, 02867, 02905, 02917, 02919, 02944, 02952, 02959, 02971, 02976, 02982
S	M	F	I	40	EFKL	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02801, 02844, 02845, 02869, 02874, 02875, 02879, 02910, 02913, 02915, 02924, 02929, 02942, 02945, 02947, 02948, 02961, 02965, 02966, 02972, 02973, 02980, 02981, 02984, 0988, 02990
S	I	F	I	42	EFKL	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02801, 02844, 02845, 02869, 02874, 02875, 02879, 02910, 02913, 02915, 02924, 02929, 02942, 02945, 02947, 02948, 02961, 02965, 02966, 02972, 02973, 02980, 02981, 02984, 0988, 02990

Country: **FRANCE**
National Centre: **Météo France**
Compiling Centre: **Toulouse**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator		Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	M	F	R	41	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18	07002, 07010, 07028, 07037, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169, 07197, 07288, 07292
S	M	F	R	42	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18	07120, 07127, 07139, 07143, 07147, 07153, 07157, 07200, 07205, 07230, 07235, 07249, 07300, 07306, 07354
S	M	F	R	43	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18	07260, 07379, 07385, 07471, 07482, 07486, 07491, 07497, 07549
S	M	F	R	44	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18	07315, 07330, 07335, 07360, 07412, 07502, 07524, 07530, 07600, 07607, 07610, 07622, 07632
S	M	F	R	45	LFPW	FM 12-X Ext.	SYNOP	00, 06, 12, 18	07560, 07579, 07588, 07635, 07645, 07667, 07670, 07675, 07680, 07749, 07754, 07765, 07770, 07785
S	I	F	R	21	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07005, 07015, 07020, 07027, 07070, 07100, 07110, 07121, 07130, 07149, 07180, 07190, 07207, 07222, 07240, 07255, 07265, 07280, 07299, 07314, 07434, 07460, 07481, 07510, 07535, 07558, 07577, 07591, 07621, 07627, 07630, 07643, 07650, 07661, 07690, 07747, 07790
S	I	F	R	41	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07002, 07010, 07028, 07037, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169, 07197, 07288, 07292
S	I	F	R	42	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07120, 07127, 07139, 07143, 07147, 07153, 07157, 07200, 07205, 07230, 07235, 07249, 07300, 07306, 07354
S	I	F	R	43	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07260, 07379, 07385, 07471, 07482, 07486, 07491, 07497, 07549
S	I	F	R	44	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07315, 07330, 07335, 07360, 07412, 07502, 07524, 07530, 07600, 07607, 07610, 07622, 07632
S	I	F	R	45	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	07560, 07579, 07588, 07635, 07645, 07667, 07670, 07675, 07680, 07749, 07754, 07765, 07770, 07785
S	I	A	A	21	LFPW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	89642

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data Type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL PRODUCTS									
G	P/T	O/M	A-E/G/I-K	98	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
G	H/T/U/ V/R	O/M	A-E/G/I-K	99/85/ 70/50/ 40/30/ 20	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
G	O	O/M	A-E/G/I-K	99/85/ 70/50	LFPW	FM 47-IX Ext.	GRID	00, 12	(2.5°x2.5°) (75°N-25°N, 50°W-0°E & 0°E-50°E)
H	P	H	A/C/E/G/I-K	89/98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	T/R	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	U/V	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	H/T/U/N/ R	H	A/C/E/G/I-K	95/92/ 85/70/ 50/40/ 30/25/ 20/15/ 10	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	G	H	A/C/E/G/I-K	92/20	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	O	H	A/C/E/G/I-K	50	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	E/F	H	A/C/E/G/I-K	98	LFPW	FM 92-X Ext.	GRIB	00, 12	(1.5°x1.5°) (30°W-60°E: West to East; 45°N-45°S: South to North)
H	P	U	A-K	89	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	H/T/U/N/ Q	U	A-K	85/70/ 50/30	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	R/O	U	A-K	70	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)
H	W	U	A-K	50	LFPW	FM 92-X Ext.	GRIB	00, 12	(1°x1°) (60°W-65°E: West to East, 80°N-10°N: South to North)

Country: **GERMANY**
National Centre: **Deutscher Wetterdienst**
Compiling Centre: **Offenbach a.M.**

Date: 1 November 1996

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	D	L	21	EDZW	FM 12-X Ext	SYNOP	03, 09, 15, 21	10004,10015,10020,10035,10063,10147,10162,10184,10224,10270,10338,10361,10393,10400,10438,10469,10488,10506,10548,10637,10685,10738,10763,10788,10852
ADDITIONAL PRODUCTS (From the "Global-Modell" of Deutscher Wetterdienst)									
D	P,T,Z,U,V	A-R	A-S	98	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	H,T,U,V	A-R	A-S	85,70,50,30,25,20,10,05	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	R	A-R	A-S	85,70,50	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	O	A-R	A-S	70,50	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	E	A-R	A-S	98	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-R) see Note (1)
D	M	A-F	A-S	50	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	D	A-F	A-S	95	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	Q	A-F	A-S	85	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
D	X	A-F	A-S	95	EDZW	FM 47-IX Ext.	GRID	00,12	(2.5° x 2.5°) Area (A ₁ = A-F) see Note (1)
H	P,T,Z,U,V	A-D,I-L	A-S	98	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	H,T,U,V	A-D,I-L	A-S	85,70,50,30,25,20,10,05	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	R	A-D,I-L	A-S	85,70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	O	A-D,I-L	A-S	70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	E	A-D,I-L	A-S	98	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D, I-L) see Note (2)
H	M	A-D	A-S	50	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)
H	D	A-D	A-S	95	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)

ABBREVIATED HEADING									
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T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
H	Q	A-D	A-S	85	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)
H	Z	A-D	A-S	95	EDZW	FM 92-X Ext.	GRIB	00,12	(1.5° x 1.5°) Area (A ₁ = A-D) see Note (2)
ADDITIONAL PRODUCTS (From the "Europa-Modell" of Deutscher Wetterdienst)									
X	P,T,Z,U,V	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	H,T,U,V	A-S	A,C,E,G, I,K,M,O, Q-V	85,70,50,30,25, 20,10,05	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	R	A-S	A,C,E,G, I,K,M,O, Q-V	85,70, 50	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	O	A-S	A,C,E,G, I,K,M,O, Q-V	70,50	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	E	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	Q	A-S	A,C,E,G, I,K,M,O, Q-V	85	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	X	A-S	A,C,E,G, I,K,M,O, Q-V	95	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
X	W	A-S	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 47-IX Ext.	GRID	00,12	(100 km in 60°N) Area (A ₁ = A-J) see Note (3), (50 km in 60°N) Area (A ₁ = K-S) see Note (3)
Y	P,T,Z,U,V	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A ₁ = A-J) see Note (4)
Y	H,T,U,V	A-J	A,C,E,G, I,K,M,O, Q-V	85,70,50,30,25, 20,10,05	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A ₁ = A-J) see Note (4)
Y	R	A-J	A,C,E,G, I,K,M,O, Q-V	85,70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A ₁ = A-J) see Note (4)
Y	O	A-J	A,C,E,G, I,K,M,O, Q-V	70,50	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A ₁ = A-J) see Note (4)

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Data Type/ Form Designator		Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
Y	E	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4))
Y	Q	A-J	A,C,E,G, I,K,M,O, Q-V	85	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4))
Y	X	A-J	A,C,E,G, I,K,M,O, Q-V	95	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4))
Y	W	A-J	A,C,E,G, I,K,M,O, Q-V	98	EDZW	FM 92-X Ext.	GRIB	00,12	(50 km in 60°N= Area (A1 = A-J) see Note (4))

NOTES:

- (1) $A_1 = A$ (30°E - 30°W, 90°N - 30°N) $A_1 = G$ (30°E - 30°W, 30°N - 30°S) $A_1 = M$ (30°E - 30°W, 30°S - 90°S)
 $A_1 = B$ (30°W - 90°W, 90°N - 30°N) $A_1 = H$ (30°W - 90°W, 30°N - 30°S) $A_1 = N$ (30°W - 90°W, 30°S - 90°S)
 $A_1 = C$ (90°W - 150°W, 90°N - 30°N) $A_1 = I$ (90°W - 150°W, 30°N - 30°S) $A_1 = O$ (90°W - 150°W, 30°S - 90°S)
 $A_1 = D$ (150°W - 150°E, 90°N - 30°N) $A_1 = J$ (150°W - 150°E, 30°N - 30°S) $A_1 = P$ (150°W - 150°E, 30°S - 90°S)
 $A_1 = E$ (150°E - 90°E, 90°N - 30°N) $A_1 = K$ (150°E - 90°E, 30°N - 30°S) $A_1 = Q$ (150°E - 90°E, 30°S - 90°S)
 $A_1 = F$ (90°E - 30°E, 90°N - 30°N) $A_1 = L$ (90°E - 30°E, 30°N - 30°S) $A_1 = R$ (90°E - 30°E, 30°S - 90°S)

- (2) $A_1 = A$ (0° - 90°W, Northern Hemisphere) $A_1 = I$ (0° - 90°W, Southern Hemisphere)
 $A_1 = B$ (90°W - 180°W, Northern Hemisphere) $A_1 = J$ (90°W - 180°W, Southern Hemisphere)
 $A_1 = C$ (180° - 90°E, Northern Hemisphere) $A_1 = K$ (180° - 90°E, Southern Hemisphere)
 $A_1 = D$ (90°E - 0°E, Northern Hemisphere) $A_1 = L$ (90°E - 0°E, Southern Hemisphere)

(3)

	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
$A_1 = A$	56.46°W	33.95°N	77.50°W	62.55°N
$A_1 = B$	38.94°W	54.14°N	10.00°E	88.78°N
$A_1 = C$	10.00°E	66.00°N	97.50°E	62.55°N
$A_1 = D$	39.66°W	24.75°N	38.94°W	54.14°N
$A_1 = E$	20.48°W	38.63°N	10.00°E	66.00°N
$A_1 = F$	10.00°E	44.98°N	58.94°E	54.14°N
$A_1 = G$	28.37°W	13.66°N	20.48°W	38.63°N
$A_1 = H$	11.80°W	22.92°N	10.00°E	44.98°N
$A_1 = I$	10.00°E	26.70°N	40.48°E	38.63°N
$A_1 = J$	02.79°W	37.42°N	33.95°E	59.85°N

	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
$A_1 = K$	19.40°W	50.42°N	05.49°W	65.13°N
$A_1 = L$	00.64°W	54.62°N	25.49°E	65.13°N
$A_1 = M$	20.64°E	54.62°N	49.73°E	59.10°N
$A_1 = N$	13.09°W	41.49°N	00.64°W	54.62°N
$A_1 = O$	01.91°E	44.57°N	20.64°E	54.62°N
$A_1 = P$	18.09°E	44.57°N	39.40°E	50.42°N
$A_1 = Q$	08.92°W	32.83°N	01.91°E	44.57°N
$A_1 = R$	03.48°E	35.16°N	18.09°E	44.57°N
$A_1 = S$	16.52°E	35.16°N	33.09°E	41.49°N

(4)

	Lower left corner:		Upper right corner:	
	Longitude	Latitude	Longitude	Latitude
$A_1 = A$	56.46°W	33.95°N	77.50°W	62.55°N
$A_1 = B$	38.94°W	54.14°N	10.00°E	88.78°N
$A_1 = C$	10.00°E	66.00°N	97.50°E	62.55°N
$A_1 = D$	39.66°W	24.75°N	38.94°W	54.14°N
$A_1 = E$	20.48°W	38.63°N	10.00°E	66.00°N
$A_1 = F$	10.00°E	44.98°N	58.94°E	54.14°N
$A_1 = G$	28.37°W	13.66°N	20.48°W	38.63°N
$A_1 = H$	11.80°W	22.92°N	10.00°E	44.98°N
$A_1 = I$	10.00°E	26.70°N	40.48°E	38.63°N
$A_1 = J$	02.79°W	37.42°N	33.95°E	59.85°N

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ESSENTIAL PRODUCTS (From the "Europa-Modell" of Deutscher Wetterdienst)									
X	P	A,B,C,...S	A,E,I,M,Q,S,U	98	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
X	H	A,B,C,...S	A,E,I,M,Q,S,U	85,50,30	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
X	T	A,B,C,...S	A,E,I,M,Q,S,U	85,50	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
X	U	A,B,C,...S	A,E,I,M,Q,S,U	30	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
X	V	A,B,C,...S	A,E,I,M,Q,S,U	30	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
X	R	A,B,C,...S	A,E,I,M,Q,S,U	70	EDZW	FM 47-IX Ext.	GRID	00	Area: Europe and North Atlantic
Y	P	A,B,C, ...,J	A,E,I,M,Q,S,U	98	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic
Y	H	A,B,C, ...,J	A,E,I,M,Q,S,U	85,50,30	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic
Y	T	A,B,C, ...,J	A,E,I,M,Q,S,U	85,50	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic
Y	U	A,B,C, ...,J	A,E,I,M,Q,S,U	30	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic
Y	V	A,B,C, ...,J	A,E,I,M,Q,S,U	30	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic
Y	R	A,B,C, ...,J	A,E,I,M,Q,S,U	70	EDZW	FM 92-X Ext.	GRIB	00	Area: Europe and North Atlantic

Country: **GREECE**
 National Centre: **Hellenic National Meteorological Service**
 Compiling Centre: **Athens**

Date: **1 November 1996**

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical Data Type	Time designator	Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	G	R	20	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21	16622, 16641, 16682, 16716, 16734, 16743, 16749, 16754
S	I	G	R	21	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21	16624, 16643, 16650, 16675, 16684, 16706, 16732, 16742
S	I	G	R	22	LGAT	FM 12-X Ext.	SYNOP	03, 09, 15, 21	16614, 16627, 16667, 16738, 16746, 16765

Country: **HUNGARY**
National Centre: **Hungarian Meteorological Service**
Compiling Centre: **Budapest**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data Type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	M	H	U	20	HABP	FM 12-X Ext	SYNOP	00, 06, 12, 18	12772, 12805, 12812, 12822, 12851, 12892, 12910, 12920, 12935, 12942, 12950, 12960, 12992
S	I	H	U	20	HABP	FM 12-X Ext	SYNOP	03, 09, 15, 21	12843, 12882, 12925, 12982
S	I	H	U	21	HABP	FM 12-X Ext	SYNOP	03, 09, 15, 21	12772, 12805, 12812, 12822, 12851, 12892, 12910, 12920, 12935, 12942, 12950, 12960, 12992
DATA FOR REGIONAL OR BILATERAL EXCHANGE									
S	N	H	U	86	HABP	FM 12-X Ext	SYNOP	Hourly	Data of all Hungarian synoptic stations
P	A	H	U	21	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	41	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	42	HABP	FM 94-X Ext.	BUFR		Radar
P	A	H	U	43	HABP	FM 94-X Ext.	BUFR		Radar
S	U	H	U	30	HABP				Snow report

Country: **ICELAND**
 National Centre: **The Icelandic Meteorological Office**
 Compiling Centre: **Reykjavik**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	I	L	21	BIRK	FM 12-X Ext.	SYNOP	03, 09, 15, 21	04005, 04018, 04063, 04077, 04082
S	I	I	L	22	BIRK	FM 12-X Ext.	SYNOP	03, 09, 15, 21	04030, 04048, 04097

Country: **IRELAND**
National Centre: **The Irish Meteorological Service - MET EIREANN**
Compiling Centre: **Dublin**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type		Time designator	Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	I	E	21	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03953, 03955, 03957, 03962, 03967, 03969, 03973, 03976, 03980
S	N	I	E	21	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14, 16,17,19,20,22,23	03953, 03955, 03957, 03962, 03967, 03969, 03973, 03976, 03980
S	M	I	E	22	EIDB	FM 12-X Ext.	SYNOP	00,06,12,18	03960, 03965, 03971, 03974
S	I	I	E	22	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03960, 03965, 03971, 03974
S	N	I	E	22	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14, 16,17,19,20,22,23	03960, 03965, 03971, 03974
S	M	I	E	23	EIDB	FM 12-X Ext.	SYNOP	00,06,12,18	03970, 03978
S	I	I	E	23	EIDB	FM 12-X Ext.	SYNOP	03,09,15,21	03970, 03978
S	N	I	E	23	EIDB	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13,14, 16,17,19,20,22,23	03970, 03978
S	R	I	E	40	EIDB	FM 67-VI	HYDRA	Hourly (00-24)	Rainfall for Irish stations
S	X	I	E	40	EIDB			09	Minimum temperatures, grass minimum temperatures for all Irish stations
S	X	I	E	41	EIDB			21	Maximum temperatures, sunshine for all Irish stations

Country: **ISRAEL**
 National Centre: **Meteorological Service**
 Compiling Centre: **Bet-Dagan**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator		Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	I	S	21	LLBD	FM 12-X Ext.	SYNOP	03,09,15,21	40155, 40180, 40199

Country: **LATVIA**
 National Centre: **Latvian Hydrometeorological Agency**
 Compiling Centre: **Riga**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data Type/ Time designator		Distribution Type/ Level Designator	Location Indicator					
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	M	L	V	40	UMRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	28238, 26318, 26326, 26335, 26339, 26346, 26425
S	M	L	V	41	UMRR	FM 12-X Ext.	SYNOP	00, 06, 12, 18	26403, 26416, 26424, 26429, 26435, 26436, 26551
S	I	L	V	40	UMRR	FM 12-X Ext.	SYNOP	03,09,15,21	28238, 26318, 26326, 26335, 26339, 26346, 26425
S	I	L	V	41	UMRR	FM 12-X Ext.	SYNOP	03,09,15,21	26403, 26416, 26424, 26429, 26435, 26436, 26551

Country: **NETHERLANDS**
 National Centre: **NMC de Bilt**
 Compiling Centre: **de Bilt**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	N	L	20	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06239, 06252, 06260, 06270, 06290
S	I	N	L	21	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	I	N	L	52	EHDB	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370
S	M	N	L	21	EHDB	FM 12-X Ext.	SYNOP	00, 06, 12, 18	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	M	N	L	52	EHDB	FM 12-X Ext.	SYNOP	00, 06, 12, 18	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370
S	N	N	L	50	EHDB	FM 12-X Ext.	SYNOP	Non standard	06239, 06252, 06260, 06270, 06290
S	N	N	L	51	EHDB	FM 12-X Ext.	SYNOP	Non standard	06235, 06240, 06280, 06310, 06344, 06350, 06375, 06380
S	N	N	L	52	EHDB	FM 12-X Ext.	SYNOP	Non standard	06210, 06225, 06242, 06250, 06265, 06268, 06275, 06330, 06340, 06370

NOTE: 'Non-standard' refers to all hours except 00, 03, 06, 09, 12, 15, 18 & 21 UTC

Country: **NORWAY**
National Centre: **Norwegian Meteorological Institute**
Compiling Centre: **Oslo**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator		Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator	CCCC			
T ₁	T ₂	A ₁	A ₂							(ii)	CCCC
ADDITIONAL DATA									
S	I	N	O	21	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01001, 01008, 01025, 01028, 01055, 01062, 01098, 01106, 01152, 01205, 01241, 01384, 01415, 01482
S	I	N	O	22	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01010, 01049, 01078, 01102, 01228, 01271, 01311, 01367, 01389, 01403, 01448, 01477,
S	M	N	O	43	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01003, 01023, 01033, 01059, 01089, 01115, 01160, 01167, 01212, 01224, 01238, 01288, 01304, 01317, 01360, 01406, 01427, 01452, 01465, 01474, 01488, 01494
S	I	N	O	43	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01003, 01023, 01033, 01059, 01089, 01115, 01160, 01167, 01212, 01224, 01238, 01288, 01304, 01317, 01360, 01406, 01427, 01452, 01465, 01474, 01488, 01494
S	M	N	O	44	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01004, 01034, 01043, 01047, 01065, 01075, 01210, 01218, 01227, 01240, 01280, 01292, 01424, 01435, 01442, 01455, 01467
S	I	N	O	44	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01004, 01034, 01043, 01047, 01065, 01075, 01210, 01218, 01227, 01240, 01280, 01292, 01424, 01435, 01442, 01455, 01467
S	M	N	O	45	ENMI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	01015, 01035, 01103, 01121, 01134, 01137, 01138, 01149, 01154, 01189, 01191, 01194, 01199, 01245, 01252, 01262, 01274, 01278, 01322, 01325, 01330, 01336, 01341, 01355, 01357, 01364, 01372, 01374, 01380, 01391, 01393, 01417, 01425, 01432, 01436, 01446, 01496, 01498
S	I	N	O	45	ENMI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	01015, 01035, 01103, 01121, 01134, 01137, 01138, 01149, 01154, 01189, 01191, 01194, 01199, 01245, 01252, 01262, 01274, 01278, 01322, 01325, 01330, 01336, 01341, 01355, 01357, 01364, 01372, 01374, 01380, 01391, 01393, 01417, 01425, 01432, 01436, 01446, 01496, 01498

NOTE: Some stations are not available at synoptic hours

Country: **PORTUGAL, AZORES**
National Centre: **Instituto de Meteorologia**
Compiling Centre: **Lisboa**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂	CCCC			
S	I	P	O	21	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08501, 08509, 08515, 08538, 08545, 08548, (originally 08549, changed effective 1.5.96), 08554, 08558, 08570, 08575, 08579
S	M	P	O	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08543, 08546, 08560, 08567
S	I	P	O	41	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08543, 08546, 08560, 08567
S	N	P	O	41	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08543, 08546, 08560, 08567, 08575
S	M	P	O	42	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08530, 08535, 08568
S	I	P	O	42	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08530, 08535, 08568
S	N	P	O	42	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08548, 08568, 08570, 08579
S	M	P	O	43	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08541, 08558, 08562, 08571
S	I	P	O	43	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08541, 08558, 08562, 08571
S	N	P	O	43	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08541, 08554, 08558, 08562, 08571
S	M	P	O	44	LPMG	FM 12-X Ext.	SYNOP	00	08532, 08534, 08539, 08540, 08544
S	M	P	O	44	LPMG	FM 12-X Ext.	SYNOP	06, 12, 18	08532, 08534, 08539, 08540, 08544, 08552, 08561

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type		Distribution Type/ Level Designator	Location Indicator					
	T ₁	T ₂			A ₁	A ₂				(ii)	CCCC
S	I	P	O	44	LPMG	FM 12-X Ext.	SYNOP	09	08532, 08534, 08539, 08540, 08544, 08552, 08561
S	I	P	O	44	LPMG	FM 12-X Ext.	SYNOP	15	08532, 08534, 08540, 08544, 08552, 08561
S	M	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	00, 06, 12, 18	08505, 08506, 08511, 08512
S	I	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	03, 09, 15, 21	08505, 08506, 08511, 08512
S	N	A	Z	41	LPMG	FM 12-X Ext.	SYNOP	01, 02, 04..	08501, 08506, 08511, 08512
C	S	P	O	41	LPMG	FM 71-X	CLIMAT		08543, 08545, 08560, 08567
C	S	P	O	42	LPMG	FM 71-X	CLIMAT		08530, 08568, 08579
C	S	P	O	43	LPMG	FM 71-X	CLIMAT		08538, 08541, 08562, 08571
C	S	A	Z	41	LPMG	FM 71-X	CLIMAT		08506, 08511, 08512

Country: **SLOVENIA**
 National Centre: **Slovenian Hydrometeorological Institute**
 Compiling Centre: **Ljubljana**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator	Distribution Type/ Level Designator	Location Indicator						
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	N	L	J	20	LJLM	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13, 14,16,17,19,20,22,23	14014 (For unrestricted use)
S	N	L	J	21	LJLM	FM 12-X Ext.	SYNOP	01,02,04,05,07,08,10,11,13, 14,16,17,19,20,22,23	14008, 14015, 14023, 14024, 14025, 14026, 14031, 14105, 14106, 14121
S	N	L	J	50	LJLM	FM 12-X Ext.	SYNOP	04,05,07,08,10,11,13	14007, 14021
P	A	L	J	41	LJLM		RADAR picture	As available	14024

Country: **SPAIN**
National Centre: **Instituto Nacional de Meteorologia**
Compiling Centre: **Madrid**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type		Time designator	Distribution Type/ Level Designator	Location Indicator	CCCC			
T ₁ T ₂	A ₁ A ₂	(ii)							
ADDITIONAL DATA									
U	S	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	K	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	L	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
U	E	S	P	40	LEMM	FM 35-X Ext.	TEMP		Stations providing soundings on national request
S	I	S	P	20	LEMM	FM 12-X Ext.	SYNOP	03,09,15,21	08001, 08015, 08023, 08027, 08045, 08141, 08160, 08181, 08221, 08261, 08284, 08306, 08314, 08391, 08430, 08482
S	I	S	P	21	LEMM	FM 12-X Ext.	SYNOP	03,09,15,21	08055 (not at 03 & 21 UTC), 08084, 08094 (not at 03 & 21 UTC), 08148 (not at 03 & 21 UTC), 08184, 08202, 08235 (not at 03 & 21 UTC), 08238, 08272 (not at 03 & 21 UTC), 08280, 08330 (not at 03 & 21 UTC), 08348, 08360, 08373, 08410, 08417 (not at 03 & 21 UTC), 08419, 08451, 08487
S	M	S	P	60	LEMM	FM 12-X Ext.	SYNOP	06, 12, 18	08008, 08011, 08014, 08021, 08025, 08029, 08042, 08044, 08048, 08053, 08075, 08080, 08085, 08130, 08140, 08171, 08175, 08210, 08213, 08215, 08224, 08226, 08231, 08232, 08286
S	M	S	P	61	LEMM	FM 12-X Ext.	SYNOP	06, 12, 18	08003, 08005, 08043, 08046 (not at 12 UTC), 08112, 08117, 08157, 08220, 08223, 08233, 08285 (not at 12 UTC), 08335, 08359 (not at 12 UTC), 08383, 08397, 08429, 08431, 08433, 08458, 60320
S	I	S	P	60	LEMM	FM 12-X Ext.	SYNOP	09,15	08008, 08011, 08014, 08021, 08025, 08029, 08042, 08044, 08048, 08053, 08075, 08080, 08085, 08130, 08140, 08171, 08175, 08210, 08213, 08215, 08224, 08226, 08231, 08232, 08286
S	I	S	P	61	LEMM	FM 12-X Ext.	SYNOP	09,15	08335, 08383, 08397, 08429, 08433, 08458, 60320
S	I	S	P	61	LEMM	FM 12-X Ext.	SYNOP	21	08433

ABBREVIATED HEADING											
Data Type/ Form Designator	Geographical/Data Type/ Time designator	Distribution Type/ Level Designator	Location Indicator		Code Form Used	Time Group (GG)	Content of Bulletin and Remarks				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC						
C	S	S	P	40	LEMM	FM 71-X	CLIMAT	08002, 08003, 08008, 08011, 08014, 08021, 08025, 08029, 08042, 08043, 08044, 08048			
C	S	S	P	41	LEMM	FM 71-X	CLIMAT	08053, 08075, 08080, 08085, 08117, 08130, 08140, 08171, 08175, 08210			
C	S	S	P	42	LEMM	FM 71-X	CLIMAT	08213, 08215, 08219, 08223, 08224, 08226, 08227, 08231, 08232, 08279			
C	S	S	P	43	LEMM	FM 71-X	CLIMAT	08285, 08286, 08301, 08359, 08383, 08397, 08420, 08429, 08433, 08449			
C	S	S	P	44	LEMM	FM 71-X	CLIMAT	08452, 08458, 06001, 60005, 60010, 60015, 60025, 60035, 60320			
S	N	S	P	60	LEMM		NIVOMET	08	Nivometeorological Data: 08912, 08914, 08916, 08917, 08918, 08922, 08924, 08930, 08960		
S	N	S	P	60	LEMM		NIVOMET	08, 13	Nivometeorological Data: 08920, 08926, 08928, 08929		
S	N	S	P	61	LEMM		NIVOMET	08	Nivometeorological Data: 08932, 08934, 08936, 08938, 08940, 08942, 08944, 08946, 08948		
S	N	S	P	61	LEMM		NIVOMET	08, 13	Nivometeorological Data: 08117		

Country: **SWEDEN**
 National Centre: **Swedish Meteorological and Hydrological Institute**
 Compiling Centre: **Norrköping**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data Type/ Time designator	Distribution Type/ Level Designator	Location Indicator	T ₁	T ₂	A ₁ A ₂			
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	I	S	N	21	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02020, 02043, 02080, 02096, 02104, 02120, 02128, 02142, 02186, 02222, 02226, 02244, 02288, 02296, 02324, 02366, 02376, 02410, 02418, 02456, 02464, 02496, 02500, 02520, 02562, 02566, 02584, 02616, 02620, 02664, 02680
S	M	S	N	41	ESWI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02012, 02036, 02049, 02118, 02124, 02154, 02159, 02181, 02188, 02196, 02206, 02221, 02245, 02247, 02269, 02274, 02286, 02316, 02400, 02424, 02446, 02516, 02550, 02586, 02590, 02626
S	I	S	N	41	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02012, 02036, 02049, 02118, 02124, 02154, 02159, 02181, 02188, 02196, 02206, 02221, 02245, 02247, 02269, 02274, 02286, 02316, 02400, 02424, 02446, 02516, 02550, 02586, 02590, 02626
S	M	S	N	43	ESWI	FM 12-X Ext.	SYNOP	00, 06, 12, 18	02308, 02338, 02355, 02408, 02417, 02432, 02435, 02453, 02458, 02476, 02485, 02488, 02505, 02513, 02518, 02536, 02567, 02571, 02575, 02605, 02611, 02614, 02625, 02628, 02641, 02644, 02670
S	I	S	N	43	ESWI	FM 12-X Ext.	SYNOP	03, 09, 15, 21	02308, 02338, 02355, 02408, 02417, 02432, 02435, 02453, 02458, 02476, 02485, 02488, 02505, 02513, 02518, 02536, 02567, 02571, 02575, 02605, 02611, 02614, 02625, 02628, 02641, 02644, 02670

Country: **SWITZERLAND**
National Centre: **Schweizerische Meteorologische Anstalt**
Compiling Centre: **Zürich**

Date: **1 November 1996**

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data Type/ Time designator	Distribution Type/ Level Designator			Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC				
ADDITIONAL DATA									
S	D	S	W	21	LSSW		RADOB	00, 03, 06, 09, 12, 18, 21	06610
S	D	S	W	22	LSSW		RADOB	00, 03, 06, 09, 12, 18, 21	06700
S	I	S	W	21	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06610
S	I	S	W	22	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06670, 06700, 06720, 06750, 06762, 06990
S	I	S	W	23	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06604, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06672, 06680, 06681, 06689, 06702, 06712, 06724, 06730, 06734, 06753, 06756, 06759, 06760, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794
S	I	S	W	42	LSSW	FM 12-X Ext.	SYNOP	03, 09, 15, 21	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798
S	M	S	W	23	LSSW	FM 12-X Ext.	SYNOP	00, 06, 12 18	06604, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06672, 06680, 06681, 06689, 06702, 06712, 06724, 06730, 06734, 06753, 06756, 06759, 06760, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794
S	M	S	W	42	LSSW	FM 12-X Ext.	SYNOP	00, 06, 12 18	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798
S	N	S	W	41	LSSW	FM 12-X Ext.	SYNOP	every hour	06604, 06610, 06612, 06616, 06628, 06639, 06643, 06660, 06669, 06670, 06672, 06680, 06681, 06689, 06700, 06702, 06712, 06720, 06724, 06730, 06734, 06750, 06753, 06756, 06759, 06760, 06762, 06770, 06771, 06782, 06783, 06786, 06791, 06792, 06794, 06990
S	N	S	W	42	LSSW	FM 12-X Ext.	SYNOP	every hour	06601, 06605, 06609, 06619, 06620, 06621, 06631, 06633, 06645, 06650, 06655, 06659, 06664, 06673, 06679, 06685, 06705, 06711, 06716, 06717, 06722, 06727, 06735, 06744, 06745, 06748, 06751, 06780, 06784, 06788, 06798

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ADDITIONAL DATA								
S	I,N	U	K	21,22	EGRR	FM 12-X Ext.	SYNOP	
S	M	U	K	40	EGRR	FM 12-X Ext.	SYNOP	
S	M,I,N	U	K	51,52,54-56	EGRR	FM 12-X Ext.	SYNOP	
S	I	S	T	21	EGRR	FM 12-X Ext.	SYNOP	
S	I,N	G	I	21	EGRR	FM 12-X Ext.	SYNOP	
ADDITIONAL PRODUCTS								
D	P,W	A-P	B-D,F-H	98	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	P	A-P	J,O	98	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	W,H	A-P	A,E,I	40,30,25,20,15,10	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	W,H	A-P	B-D,F-H	85,70,50,40,30,25,20, 15,10	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	H	A-P	J,O	50	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	R	A-P	B-D,F-H	85,70,50	EGRR	FM 47-IX Ext.	GRID	Global NWP products
H	P,U,V	S-X,Z	B-D,F-H,J	98	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	P	S-X,Z	O	98	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	H, U,V ,T	S-X,Z	A,E,I	40,30,25,20,15,10,05	EGRR	FM 92-X Ext.	GRIB	Global NWP products

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
H	H,T	S-X,Z	B-D,F-H,J	85,70,50,40,30,25,20,15, 10,05	EGRR	FM 92-X Ext. GRIB	Global NWP products	
H	U,V	S-X,Z	B-D,F-H,J	85,70,50,40,30,25,20,15, 10,05	EGRR	FM 92-X Ext. GRIB	Global NWP products	
H	H	S-X,Z	O	50	EGRR	FM 92-X Ext. GRIB	Global NWP products	
H	R	S-X,Z	B-D,F-H,J	85,70,50	EGRR	FM 92-X Ext. GRIB	Global NWP products	
G	P,W	I,N,O,P,Z	A-K	98	EGRR	FM 47-IX Ext. GRID	Regional NWP Products from Global Model	
G	P	I,N,O,P,Z	M-O	98	EGRR	FM 47-IX Ext. GRID	Regional NWP Products from Global Model	
G	W,H	I,N,O,P,Z	A-K	85,70,50,40,30,25,20,15,10	EGRR	FM 47-IX Ext. GRID	Regional NWP Products from Global Model	
G	R	I,N,O,P,Z	A-K	85,70,50	EGRR	FM 47-IX Ext. GRID	Regional NWP Products from Global Model	
G	P,W,T	W,X,Y	A-G	98	EGRR	FM 47-IX Ext. GRID	NWP Products from Regional Model	
G	E	W,X,Y	B-G	98	EGRR	FM 47-IX Ext. GRID	NWP Products from Regional Model	
G	H,R,W,T	W,X,Y	A-G	85,70,50	EGRR	FM 47-IX Ext. GRID	NWP Products from Regional Model	
X	P,W,T	A-F	A-M	98	EGRR	FM 47-IX Ext. GRID	NWP Products from Regional Model	
X	E	A-F	B-M	98	EGRR	FM 47-IX Ext. GRID	NWP Products from Regional Model	
D	J-M	Q-Z	A,C,E,G,I,K, M,O	93	EGRR	FM 47-IX Ext. GRID	Global Wave Model Products	
X	J-M	K,L	A,E,G,I,K,M	93	EGRR	FM 47-IX Ext. GRID	European Regional Wave Model Products	

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Data Type/ Form Designator	Geographical/Data type/ Time designator		Distribution Type/ Level Designator	Location Indicator				
T ₁	T ₂	A ₁	A ₂	(ii)	CCCC			
ESSENTIAL PRODUCTS								
D	P,W	A-P	A,E,I	98	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	P	A-P	K,M	98	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	W,H	A-P	A,E,I	85,70, 50	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	H	A-P	K,M	50	EGRR	FM 47-IX Ext.	GRID	Global NWP products
D	R	A-P	A,E,I	85,70, 50	EGRR	FM 47-IX Ext.	GRID	Global NWP products
H	P,U,V	S-X,Z	A,E,I	98	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	P	S-X,Z	K,M	98	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	H,U,V,T	S-X,Z	A,E,I	85,70, 50	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	H	S-X,Z	K,M	50	EGRR	FM 92-X Ext.	GRIB	Global NWP products
H	R	S-X,Z	A,E,I	85,70, 50	EGRR	FM 92-X Ext.	GRIB	Global NWP products