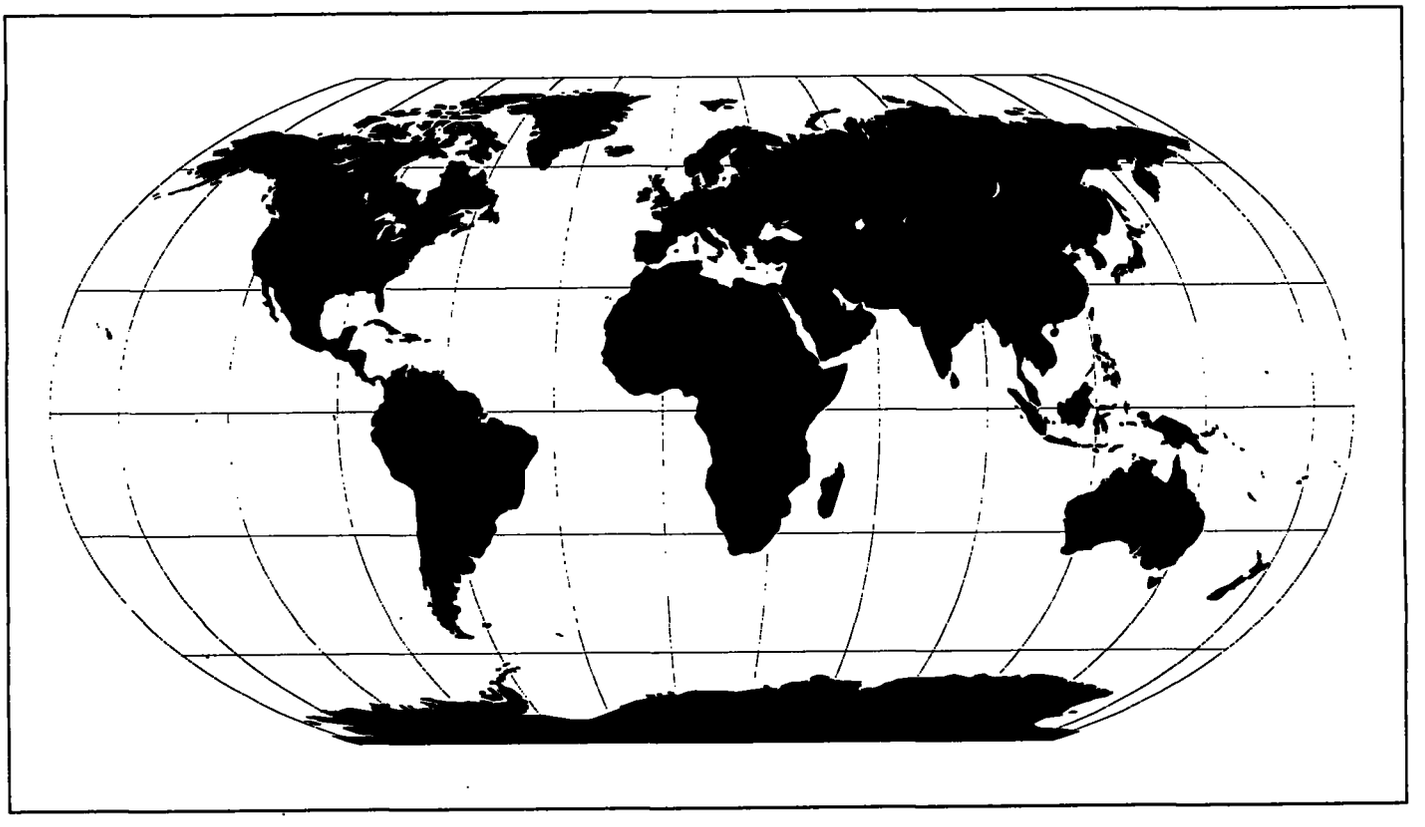
OPERATIONAL NEWSLETTER

Volume 1996 - No. 8/9 - August/September 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". ■

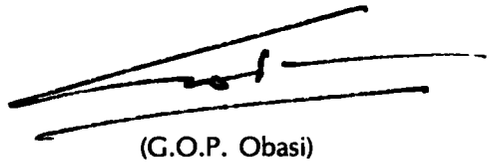
FOREWORD

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.



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

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

For access via FTP:

ftp://WWW.WMO.CH/wmo-ddbs/Newsltrxxxx.pdf

For access via html:

http://WWW.WMO.CH/web/www/Newsltrxxxx.pdf

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

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

The file is created in Adobe Acrobat PDF format so that users can easily download, view or print the document from different computer platforms, keeping the page layout and typography of the original document intact.

To view the Newsletter you will require "Adobe Acrobat Reader", which can be downloaded from:

http://www.adobe.com/Acrobat/readstep.html

Do let us know whether you had any difficulties downloading, viewing or printing the Newsletter ... or whether you were just satisfied. 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.

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

Publication No. 9
Volume A - Observing Stations

On the hard copy the following lists are included after this page:	For the electronic version CLICK HERE TO SEE:
New Stations:	NEW
Deleted Stations:	DELETED
Changes to existing Stations	CHANGES

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*".

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

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

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

COLUMN A:
The station index number (IIiii) 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:
HP = 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 $3P_oP_oP_oP_o$
1000 hPa	geopotential of the given standard isobaric surface reported using group $4a_3hhh$
850 hPa	
700 hPa	
500 hPa	

Table 1

LINE 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.

Return to Newsletter

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

Country: _____

(Please tick the appropriate box)

Global Exchange: ☐ Regional Exchange: ☐

Date Effective: _____

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

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Publication No. 9, Volume A - Observing Stations

New Stations

Index No.		Name of Station	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface Observations 00	03	06	09	12	15	18	21	OBS. H OBS.S	Upper-air 00	06	12	18	Remarks
I - ALGERIA																					
60405	P	GUELMA/BOUCHEGOUF	3630N	0743E	110	-		.	.	X	X	X	X	X	.	H06-18	.	.	.	.	
I - EGYPT																					
62454		BEAR EL ABD	3058N	3246E	24	17		.	.	X	X	X	X	X	.	H06-18	.	.	.	.	
62456		TABA AIRPORT	2936N	3447E	749	749		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
II - RUSSIAN FEDERATION (IN ASIA)																					
24726		MIRNVY	6232N	11352E	357	-		X	X	X	X	X	X	X	X		RW	.	RW	.	
25428		OMOLON	6514N	16032E	264	-		X	X	X	X	X	X	X	X		RW	.	RW	.	
28807		SAMARA (SMYLSLJAEVKA)	5315N	5027E	40	-		X	X	X	X	X	X	X	X		.	.	.	.	
29839		BARNAUL	5321N	8349E	159	-		.	.	.	.	.	.	.	.		RW	.	RW	.	
36096		KYZYL	5143N	9430E	628		-	X	X	X	X	X	X	X	X		RW	.	RW	.	
II - VIET NAM																					
48806		SON LA	2120N	10354E	676	-		X	X	X	X	X	X	X	X		.	.	.	.	
48916		THO CHU	0917N	10328E	-	-		X	.	X	.	X	.	X	.		.	.	.	.	
48919		HUYEN TRAN	0801N	11037E	-	-		X	.	X	.	X	.	X	.		.	.	.	.	
V - PAPUA NEW GUINEA																					
94072		HOSKINS	0528S	15024E	-	8		.	.	05	08	11	14	17	.		.	.	.	.	
VI - GREECE																					
16624	P	CHRYSOUPOLI (AIRPORT)	4059N	2436E	5	5		X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
VI - SYRIAN ARAB REPUBLIC																					
40029	P	SALAMYA	3500N	3702E	481	480		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
40041		AL-RASTAN	3456N	3644E	450	480		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
40067		SWEIDA	3242N	3536E	997	995	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
STATION IN THE ANTARCTIC - STATION OPERATED BY GERMANY																					
89005		KOTTAS (ARGOS ID 3314)	7412S	0945W	1440	-		X	X	X	X	X	X	X	X		.	.	.	.	

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Publication No. 9, Volume A - Observing Stations

Deleted Stations

Index No.		Name of Station	Index No.		Name of Station
II - RUSSIAN FEDERATION (IN ASIA)			VI - DENMARK AND FAROE ISLANDS		
20667		IM. M.V. POPOVA (UPPER AIR STATION)	06161		SPODSBJERG
21358		OSTROV ZOHOVA			
23146		MYS KAMENNYJ	VI - GREECE		
23915		PLJUDOV KAMEN'	16610		KOMOTINI
24598		DARPIR	16625		KAVALA
24934		NJUJA	16683		KYMI
25493		OSTROV RATMANOVA	16714		ATHINAI/OBSERVATORY
25821		NAJAHAN	16748		KARPATHOS (TOWN)
28026		SOLIKAMSK			
28900		SAMARA	VI - RUSSIAN FEDERATION (IN EUROPE)		
30102		KEZMA	22555		VAS'KOVO
30851		TURGUTUJ	22622		VORENZA
31338		SELEMDZA	26081		VOLHOV
31791		KHOR	26487		ZAPADNAJA DVINA
31926		SPASSK-DAL'MII	27196		KIROV
31966		TEREHOVKA	27553		NIZNIJ/NOVGOROD
31974		ARTEM	27731		RJAZAN'
32045		VIAHTU	27973		KUZNECK
32217		MYS VASIL'EVA	34106		KURSK
			34917		TAMAN'
V - PAPUA NEW GUINEA			VI - SYRIAN ARAB REPUBLIC		
94085		RABAUL M. O.	40085	P	SABE ABAR

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Publication No. 9, Volume A - Observing Stations

Changes to existing Stations

Index No.		Name of Station	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface Observations 00	03	06	09	12	15	18	21	OBS. H OBS.S	Upper-air 00	06	12	18	Remarks
I - OCEAN ISLANDS																					
61981	P	LE PORT (REUNION)						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
61984	P	SAINT-PIERRE (REUNION)						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
61997	P	ALFRED FAVRE (ILES CROZET)			146	143															
I - COMOROS																					
67005	P	**DZAOUDZI/PAMANDZI (MAYOTTE)**														H03-15					
II - RUSSIAN FEDERATION (IN ASIA)																					
20069	P	OSTROV VIZE			10			X	X	X	X	X	X	X	X		.	.	.	.	
20274	P	OSTROV UEDINENIJA						X	X	X	X	X	X	X	X		.	.	.	.	
20353	P	MYS ZELANIJA						X	X	X	X	X	X	X	X		.	.	.	.	
21965	P	OSTROV CHETYREH STOLBOVOY			41			X	X	X	X	X	X	X	X		.	.	.	.	
24817	P	ERBOGACEN						X	X	X	X	X	X	X	X		RW	.	.	.	
25551	P	MARKOVO						X	X	X	X	X	X	X	X		.	.	.	.	
25594	P	BUHTA PROVIDENJA						X	X	X	X	X	X	X	X		.	.	.	.	
28225		PERM' (UPPER-AIR STATION)						.	.	.	.	.	.	.	.		RW	.	RW	.	
28642		**CHELJABINSK-BALANDINO**																			
29849		**KUZEDEEVO**																			
30471		**SREDNIJ KALAR**																			
30537		**SOLNETHNAYA**																			
31174		**BOL'SOJ SANTAR**																			
31583		**MALINOVKA**																			
31707	P	EKATERINO-NIKOL'SKOE						X	X	X	X	X	X	X	X		.	.	.	.	
31829	P	**ZOLOTOJ**																			
32252		**UST'-VOJAMPOLKA**																			

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Index No.		Name of Station	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface Observations 00	03	06	09	12	15	18	21	OBS. H OBS.S	Upper-air 00	06	12	18	Remarks
II - VIET NAM																					
48839	P	**BACH LONG VI**																			
48870	P	**QUY NHON**																			
48887	P	PHAN THIET						X	X	X	X	X	X	X	X		P	.	.	.	
48914	P	CA MAU						X	X	X	X	X	X	X	X		P	.	.	.	
48918	P	**CON SON**																			
IV - DOMINICAN REPUBLIC																					
78458	P	**LA UNION**	1945N	7033W	-	5		X	X	.	.	X	X	X	X	H12-03	.	.	.	.	
78460	P	SANTIAGO	1927N	7042W	-	183		X	X	.	.	X	X	X	X	H12-03	.	.	.	.	
78479	P	PUNTA CANA			-	12		X	X	.	.	X	X	X	X	H12-03	.	.	.	.	
78482	P	BARAHONA	1812N	7106W	-	3		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
78484		HERRERA			-	65		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
78485	P	LAS AMERICAS			-	18		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
V - PAPUA NEW GUINEA																					
94001		KIUNGA			35	26		.	.	05	08	11	14	17	.	H20-08	.	.	.	.	
94014	P	**MADANG**		14547E	6	3		23	02	05	08	11	.	17	20	H17-12	.*	.*	.*	.*	* Upper air observations temporarily suspended
94035	P	**PORT MORESBY**			49	38		23	02	05	08	11	14	17	20	H00-24	.*	.*	.*	.*	* Upper air observations temporarily suspended
94044	P	**MOMOTE**			5			23	02	05	08	11	.	17	20	H17-12	.*	.*	.*	.*	* Upper air observations temporarily suspended
94047		**NADZAB**	0634S	14644E	71	70		23	02	05	08	11	.	17	20	H17-12	.*	.*	.*	.*	* Upper air observations temporarily suspended
94076	P	**KAVIENG**	0235S	15048E	4	3		23	02	05	08	11	.	.	20	H19-12	.*	.*	.*	.*	* Upper air observations temporarily suspended
94077	P	**GURNEY**		15020E	25	20		.	.	05	08	11	14	17	.	H20-08	.	.	.	.	
94087	P	**MISIMA**			7	6		23	02	05	08	.	.	.	20	H19-08	.*	.*	.*	.*	* Upper air observations temporarily suspended
VI - GREECE																					
16613		FLORINA						.	.	X	X	X	X	X	.	H03-21	.	.	.	.	
16614	P	KASTORIA (AIRPORT)						X	X	X	X	X	X	X	X	H03-19	.	.	.	.	
16622	P	THESSALONIKI (AIRPORT)						X	X	X	X	X	X	X	X	S00-24	.	P	RW	P	
16627	P	ALEXANDROUPOLI (AIRPORT)						X	X	X	X	X	X	X	X	S00-24	.	.	.	.	
16632		**KOZANI (AIRPORT)**						.	X	X	X	X	X	X	.	H03-21	.	.	.	.	
16642		**IOANNINA (AIRPORT)**			483	480		X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16648		**LARISSA (AIRPORT)**																			
16665		**ANCHIALOS (AIRPORT)**																			

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Index No.		Name of Station	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface Observations 00	03	06	09	12	15	18	21	OBS. H OBS.S	Upper-air 00	06	12	18	Remarks
16667	P	MYTILINI (AIRPORT)			5	3		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	
16672		AGRINION (AIRPORT)	3836N	2121E	24	24		.	X	X	X	X	X	X	.	H03-21	.	.	.	.	
16675	P	LAMIA						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16682	P	ANDRAVIDA (AIRPORT)			14	10															
16684	P	SKYROS (AIRPORT)	3858N	2429E	28	27															
16685		KEFALHNIA (AIRPORT)						.	.	X	X	X	X	X	.	H03-21	.	.	.	.	
16687		**ARAXOS (AIRPORT)**	3809N	2125E	12	11															
16699		**TANAGRA (AIRPORT)**																			
16701		ATHINAI (FILADELFIA)						.	.	X	.	X	.	X	.	H06-18	.	.	.	.	
16706	P	CHIOS (AIRPORT)						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16710		**TRIPOLIS (AIRPORT)**																			
16715		TATOI						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16718		**ELEFSIS (AIRPORT)**																			
16723		SAMOS (AIRPORT)						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
16726		**KALAMATA (AIRPORT)**																			
16732	P	NAXOS						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16734	P	METHONI						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
16738	P	MILOS						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16742	P	KOS (AIRPORT)						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
16743	P	KYTHIRA						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16744		**THIRA (AIRPORT)**						X	X	X	X	X	X	X	X	H03-21	.	.	.	.	
16754	P	HERAKLION (AIRPORT)						X	X	X	X	X	X	X	X	S00-24	RW	P	.	P	
16757		SITIA						.	.	X	X	X	X	X	.	H03-18	.	.	.	.	
16759		**TYMBAKION (AIRPORT)**						.	.	X	X	X	X	X	.	H03-21	.	.	.	.	
16760		**KASTELI (AIRPORT)**																			
16765	P	KARPATHOS (AIRPORT)						X	X	X	X	X	X	X	X	H00-24	.	.	.	.	

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Index No.		Name of Station	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface Observations 00	03	06	09	12	15	18	21	OBS. H OBS.S	Upper-air 00	06	12	18	Remarks
VI - RUSSIAN FEDERATION (IN EUROPE)																					
20107	P	BARENCBURG						X	X	X	X	X	X	X	X		.	.	RW	.	
34748		PROLETARSKAYA																			
34915		KUBANSKAYA UST'EVAYA																			
34924		SLAVJANSK-NA-KUBANI																			
34936		KROPOTKIN'																			
34984		LAGAN'																			
34989		ISKUSSTVENNYJ OSTROV																			
37036		NEVINNOMYSSK																			
VI - SYRIAN ARAB REPUBLIC																					
40001	P	KAMISHLI			455	455		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
40007	P	ALEPPO INT. AIRPORT			384	393															
40007	P	ALEPPO MESELME (UPPER-AIR STAT.)			425	424		.	.	.	.	.	.	.	.		RW	.	.	.	
40009	P	TEL ABIADH																			
40016	P	HASSAKAH			308	307															
40017	P	EDLEB			451	450															
40025	P	BASEL ASSAD INT. AIRPORT	3524N	3556E	50	48		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
40027	P	ETHERIA			460	458										H00-24					
40030	P	HAMA	3507N	3645E	303	301															
40039	P	RAQQA														H00-24					
40045	P	DEIR EZZOR			212	215															
40061	P	PALMYRA			404	408															
40072	P	ABUKMAL																			
40080	P	DAMASCUS INT. AIRPORT			609	608		X	X	X	X	X	X	X	X	S00-24	.	.	RW	.	
40087	P	JABL ETTANF														H00-24					
40095	P	DARA'A														H00-24					

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TEMPORARY CHANGES

Notification from Argentina

Due to technical reasons the radiosonde/radiowind observations at station 87623 Santa Rosa Aero have been temporarily suspended. This took effect on 15 July 1996.

Notification from Department of Navy, USA

That no data will be collected or transmitted from Byrd Surface Camp (89125) this austral summer. The station will be dismantled and will be permanently closed as from mid-December 1996.

DAYLIGHT SAVING TIME

Notification from New Zealand

That a period of daylight saving will be introduced from 1400 UTC 6 October 1996 to 1400 UTC 16 March 1997. During this period all SYNOP reports and upper air soundings will be carried out one hour earlier.

Notification from Australia

Tasmania will introduce daylight saving of one hour at 1600 UTC 5 October 1996. Summer time will continue until 1500 UTC 29 March 1997.

New South Wales, the Australian Capital Territory, South Australia and Victoria will introduce daylight saving of one hour at 1600 UTC 26 October 1996. Summer time will continue until 1500 UTC 29 March 1997.

Western Australia, Queensland and the Northern Territory will not be implementing summer time.

The following changes to the observational schedule for Australian stations will be implemented for the duration of summer time:

Surface observations:

Surface observations in states commencing summer time will be made one hour earlier than schedules previously advised.

Western Australia, Queensland and the Northern Territory surface observations will continue on the present schedule.

Upper-air observations:

Tasmania will make ascents one hour earlier at 1615, 2215, 0415 and 1015 UTC commencing 5 October 1996 and ceasing 29 March 1997.

New South Wales, the Australian Capital Territory, South Australia and Victoria will make ascents one hour earlier at 1615, 2215, 0415 and 1015 UTC commencing 26 October 1996 and ceasing 29 March 1997.

All other Australian upper-air stations will make ascents one hour UTC earlier at 1615, 2215, 0415 and 1015 UTC commencing 26 October 1996 and ceasing 29 March 1997.

Upper-air stations in Western Australia currently perform a routine ascent at 1615 UTC throughout the year. No change will therefore be made to the release time of this ascent due to daylight saving.

Other stations under Australian control will adopt the following schedules:

94299 (WILLIS ISLAND)	will follow Queensland practice
94995 (LORD HOWE ISLAND)	will follow New South Wales practice
94996 (NORFOLK ISLAND)	will follow New South Wales practice
94998 (MACQUARIE ISLAND)	entire observation program one hour earlier
96996 (COCOS ISLAND)	will follow Western Australian practice
96995 (CHRISTMAS ISLAND)	will follow Western Australian practice

Australian Antarctic stations schedules remain unchanged

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

Canada

Moored Buoys

North-east Pacific Ocean:
SNVD17 CWVR, SXCN50 CWVR, SNVD04 CWEG

WMO Buoy Identifier	ARGOS Identifier	Position: 12 Sept. 1996		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	N/A	-	-	-
46036	5324	48 21' N	133 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46131	4484	49 54' N	124 59' W	X	X	X	X	X	X	X	N/A	-	-	-
46132	7197	49 44' N	127 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46145	4485	54 23' N	132 26' W	X	X	X	X	X	X	X	N/A	-	-	-
46146	7196	49 20' N	123 44' W	X	X	X	X	X	X	X	N/A	-	-	-
46147	N/A	51 49' N	131 12' W	X	X	X	X	X	X	X	N/A	-	-	-
46181	7187	53 50' N	128 50' W	X	X	X	X	X	X	X	N/A	-	-	-
46183	8678	53 37' N	131 06' W	X	X	X	X	X	X	X	N/A	-	-	-
46184	7182	53 54' N	138 52' W	X	X	X	X	X	X	X	N/A	-	-	-
46185	8677	52 25' N	129 48' W	X	X	X	X	X	X	X	N/A	-	-	-
46204	7192	51 22' N	128 45' W	X	X	X	X	X	X	X	N/A	-	-	-
46205	7183	54 10' N	134 20' W	X	X	X	X	X	X	X	N/A	-	-	-
46206	7184	48 50' N	126 00' W	X	X	X	X	X	X	X	N/A	-	-	-
46207	7193	50 52' N	129 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46208	7186	52 30' N	132 42' W	X	X	X	X	X	X	X	N/A	-	-	-

Canada

Moored Buoys

North-west Atlantic Ocean:

WMO Buoy Identifier	ARGOS Identifier	Position: 17 Sept. 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44131	N/A	44 30' N	066 47' W	X	X	X	X	X	X	X	N/A	-	-	-
44137	5579	41 36' N	060 02' W	X	*	X	X	X	X	X	N/A	-	-	-
44138	5577	44 16' N	053 37' W	X	*	X	X	X	X	X	N/A	-	-	-
44139	3448	44 08' N	057 38' W	X	X	X	X	X	X	X	N/A	-	-	-
44140	5576	42 51' N	051 34' W	X	X	X	X	X	X	X	N/A	-	-	-
44141	3449	42 04' N	056 09' W	X	X	X	X	X	X	X	N/A	-	-	-
44142	5578	42 27' N	064 06' W	*	*	*	*	*	*	*	N/A	-	-	-

* Sensor/System failure

Great Slave Lake, Lake Winnipeg, Great Lakes, Gulf of St. Lawrence:

WMO Buoy Identifier	ARGOS Identifier	Position: 6 Sept. 1996		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	N/A	-	-	-
45135	N/A	43 47' N	076 52' W	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	N/A	-	-	-
45138	8249	49 32' N	065 44' W	X	X	X	X	X	X	X	N/A	-	-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	X	X	X	N/A	-	-	-
45140	3439	50 47' N	096 44' W	X	X	X	X	X	.	.	N/A	-	-	-
45141	N/A	61 11' N	115 19' W	X	X	X	X	X	X	X	N/A	-	-	-
45142	N/A	42 44' N	079 17' W	X	X	X	X	X	X	X	N/A	-	-	-
45144	8671	53 23' N	098 29' W	X	X	X	X	X	X	X	N/A	-	-	-

Drifting Buoys

North-east Pacific Ocean:

WMO Buoy Identifier	ARGOS Identifier	Position: 13 Sept. 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	7149	47 12' N	147 18' W	.	X	X	X	X	.	.	X	-	-	-
46641	12511	48 54' N	168 54' W	.	X	X	X	X	.	.	.	-	-	-
46682	7140	50 18' N	159 42' W	.	X	X	X	X	.	.	X	-	-	-
46692	7139	50 06' N	131 18' W	.	*	X	X	X	.	.	X	-	-	-
46701	8674	49 06' N	168 30' W	.	X	X	X	X	.	.	.	-	-	-

* Sensor/System failure

44142 - Stopped transmitting 10 September 1996. Battery failure.

46701 - Deployed August 27th.

46641 - Deployed September 10th.

United States of America

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

WMO Buoy Identifier	ARGOS Identifier	Position:12-19 Sept. 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.68N	72.64W	X	X	X	-	X	X	X	-	-	-	-
41002*		32.35N	75.26W	X	X	X	-	X	X	X	-	-	-	-
41004		32.51N	79.10W	**	**	**	-	**	**	**	-	-	-	-
41009		28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-
41010		28.90N	78.50W	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	X	-	-	-	-
41023		31.92N	80.93W	X	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	**	**	-	-	-	-
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		28.51N	84.51W	X	X	X	-	X	X	X	-	-	-	-
42039		28.78N	86.04W	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	**	**	**	-	**	**	**	-	-	-	-
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	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	**	**	-	-	-	-
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	-	-	-	-

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

** Sensor/System failure

United States of America

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position:12-19 Sept. 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
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	-	-	-	-
46023		34.25N	120.67W	**	**	**	-	**	**	**	-	-	-	-
46025		33.75N	119.07W	X	X	X	-	X	X	X	-	-	-	-
46026*		37.75N	122.82W	X	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	-	-	-	-
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	-	-	-	-
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	**	**	**	-	**	**	**	-	-	-	-
46051		34.48N	120.69W	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	-	-	-	-
46060		60.58N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46061		60.22N	146.83W	X	**	X	-	X	X	X	-	-	-	-
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	-	-	-	-
51026		21.35N	156.93W	**	X	X	-	X	X	X	-	-	-	-

Total Base Funded Buoys : 30
Total Other Buoys : 38

Total Moored Buoys : 68

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

** Sensor/System failure

United States of America

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 03-19 Sept. 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16811	17180	26°S	075°E	.	X	X	-	X	.	.	.	-	-	-
17810	17182	19°S	040°W	.	**	X	-	X	.	.	.	-	-	-
33839	17164	28°S	022°W	.	**	**	-	X	.	.	.	-	-	-
41527	23634	31°N	078°W	X	X	X	-	X	.	.	.	-	-	-
41529	23637	30°N	077°W	X	X	X	-	X	.	.	.	-	-	-
41530	23641	35°N	075°W	X	X	X	-	X	.	.	.	-	-	-
41611	23635	12°N	044°W	X	X	X	-	X	.	.	.	-	-	-
41612	23638	12°N	045°W	X	X	X	-	X	.	.	.	-	-	-
41613	23642	16°N	045°W	X	X	X	-	X	.	.	.	-	-	-
41614	23643	14°N	043°W	X	X	X	-	X	.	.	.	-	-	-
46551	20705	33°N	130°W	**	**	X	-	X	.	.	.	-	-	-
46552	20706	40°N	131°W	**	**	X	-	X	.	.	.	-	-	-
46553	20710	51°N	131°W	X	X	X	-	X	.	.	.	-	-	-
46554	20712	33°N	141°W	X	**	X	-	X	.	.	.	-	-	-
46555	20707	29°N	130°W	X	X	X	-	X	.	.	.	-	-	-
46556	20711	60°N	145°W	**	**	X#	-	**	.	.	.	-	-	-
46557	20709	39°N	141°W	**	**	**	-	**	.	.	.	-	-	-
46558	20708	32°N	137°W	X	**	X	-	X	.	.	.	-	-	-
54809	20719	33°S	158°W	.	X	X	-	X	.	.	.	-	-	-
54810	17181	17°S	177°E	.	**	X#	-	**	.	.	.	-	-	-
54811	20713	38°S	112°W	.	X	X	-	X	.	.	.	-	-	-
54812	17178	18°S	101°W	.	X	X	-	X	.	.	.	-	-	-
54813	20717	36°S	118°W	.	X	X	-	X	.	.	.	-	-	-
54814	5127	28°S	144°W	.	X	X	-	X	.	.	.	-	-	-
56807	20716	19°S	002°W	.	**	X	-	X	.	.	.	-	-	-
56808	20720	35°S	038°E	.	X	X	-	X	.	.	.	-	-	-
56809	17169	28°S	067°E	.	**	X	-	X	.	.	.	-	-	-
56810	17185	32°S	055°E	.	X	X	-	X	.	.	.	-	-	-

Buoy beached, sensor reporting.

** Sensor failure reported.

339 drifting buoys have been deployed in support of TOGA

13 are operational

Australia

Shipboard Data Collection (DCP)

WMO Buo	ARGOS	Position: 31 Aug. 1996		Observed or Technical Parameters										
Identifier	Identifier	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
55513	11581	-32.186	133.665	-	X	X	-	-	-	-	-	-	-	-
55515	11580	-9.475	147.149	-	X	X	-	-	-	-	-	-	-	-
55516	11527	-36.844	129.023	-	X	X	-	-	-	-	-	-	-	-
55520	7865	-45.503	171.067	-	X	X	-	-	-	-	-	-	-	-
55521	7866	-65.164	141.604	-	X	X	-	-	-	-	-	-	-	-
55524	11662	-12.481	125.903	-	X	X	-	-	-	-	-	-	-	-

Drogued Drifting Buoys

WMO Buo	ARGOS	Position: 31 Aug. 1996		Observed or Technical Parameters										
Identifier	Identifier	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
52623	2946	-12.841	138.985	X	X	X	X	*	-	-	-	-	-	-
53548	17179	-24.518	103.277	-	X	X	-	X	-	-	-	-	-	-
56521	2934	-44.663	-175.047	-	-	*	-	X	-	-	-	-	-	-
56523	17183	1.999	45.728	-	X	X	-	X	-	-	-	-	-	-
56524	17177	-37.885	127.224	-	X	X	-	X	-	-	-	-	-	-
56525	2933	-44.374	136.591	-	*	X	X	X	-	-	-	-	-	-
56526	2950	-9.53	105.7	X	X	X	X	X	-	-	-	-	-	-
56528	4874	-39.608	95.682	-	-	X	-	X	-	-	-	-	-	-

• Sensor/system failed

France

Moored Buoys

WMO Buo	ARGOS	Position: 20 Sept. 1996		Observed or Technical Parameters										
Identifier	Identifier	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41096	5833	16.5N	61.5W	-	-	-	-	X	X	.	-	-	-	-
41097	5832	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-
62163*		47.5N	8.5W	X	X	X	X	X	X	-	X	-	X	-

* Cooperation 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)

<u>Indian Ocean</u>

WMO Buo	ARGOS	Position: 20 Sept.1996		Observed or Technical Parameters										
Identifier	Identifier	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
14535	10110	33.6S	46.2E	-	-	X	X	X	-	-	-	-	-	-
14536	10112	32.7S	32.3E	-	-	X	X	X	-	-	-	-	-	-
16536	10108	35.4S	60.2E	-	-	X	X	X	-	-	-	-	-	-

<u>North Atlantic</u>

WMO Buo	ARGOS	Position: 20 Sept.1996		Observed or Technical Parameters										
Identifier	Identifier	Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
62503	14427	41.5N	15.3W	-	-	X	X	X	-	-	-	-	-	-
62504	14428	40.8N	11.4W	-	-	X	X	X	-	-	-	-	-	-
62507	5793	40.8N	23.1W	-	-	X	X	X	-	-	-	-	-	-
62508	5792	50.3N	23.4W	-	-	X	X	+	-	-	-	-	-	-
62510	5797	41.6N	17.7W	-	-	X	X	X	-	-	-	-	-	-
62513	5798	45.1N	20.4W	-	-	X	X	X	-	-	-	-	-	-
62515	14426	47.5N	19.1W	-	-	X	X	X	-	-	-	-	-	-
62516	5790	45.0N	18.5W	X	X	X	X	X	-	-	-	-	-	-
62517	10118	49.8N	19.4W	X	X	X	X	X	-	-	-	-	-	-
62518	15534	47.2N	20.5W	X	-	X	X	X	-	-	-	X	-	-

+ Sensor/System failure

United Kingdom of Great Britain and Northern Ireland

Moored Buoys

Including Light Vessels, Islands and Fixed Platforms

WMO Buoy Identifier	ARGOS Identifier	Position: 18 Sept. 1996		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'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	X	X	X	X	X	X	-	X	X	-	-
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	-	-

*Fixed platforms or islands

** Automatic Light Vessels

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 18 September 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
48102	1261*	80.5N	42.8W	X	X	-	-	-	-	-	-	-	-	-
25565	1639*	60.0N	10.1W	X	X	-	-	-	-	-	-	-	-	-
44614	1256	61.3N	22.5W	X	X	X	X	-	-	-	-	-	-	-
44727	2974	33.8N	16.9W	X	X	X	X	-	-	-	-	-	-	-
44728	3024	62.0N	13.8W	X	X	X	X	-	-	-	-	-	-	-
44760	2947	23.9N	57.1W	X	X	X	X	-	-	-	-	-	-	-
44763	3098	60.4N	24.8W	X	X	X	X	-	-	-	-	-	-	-
44769	1253	60.1N	09.8W		X	X	X	-	-	-	-	-	-	-
44770	3035	27.0N	58.9W	X	X	X	X	-	-	-	-	-	-	-
44773	3132	53.1N	11.9W	X	X	X	X	-	-	-	-	-	-	-
44775	1260	53.2N	40.7W	X	X	X	X	-	-	-	-	-	-	-
44777	1249	58.8N	36.6W		X	X	X	-	-	-	-	-	-	-
65594	1252	60.6N	36.0W	X	X	X	X	-	-	-	-	-	-	-
44767	3013	59.4N	22.1W	X	X	X	X	-	-	-	-	-	-	-
44768	1251	64.7N	32.5W	X	X	X	X	-	-	-	-	-	-	-
44771	2954	54.5N	20.4W	X	X	X	X	X	-	-	-	-	-	-
44774	3162	51.1N	14.7W	X	X	X	X	-	-	-	-	-	-	-
44778	1258	55.8N	34.0W	X	X	X	X	-	-	-	-	-	-	-
44743	1248	51.3N	48.8W	X	X	X	X	-	-	-	-	-	-	-
44617	1255	49.1N	41.2W	X	X	X	X	-	-	-	-	-	-	-
44780	1257	56.5N	43.6W	X	X	X	X	-	-	-	-	-	-	-

*Ice drifter

ARGOS SERVICE

ARGOS
Monthly Status Report

Date of statistics computation:
3 September 1996

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

Drifting Buoys	1309
Boats (<20 knots)	-
Marine Stations	96
Moored Buoys	301
Fixed Stations	427
Marine Animals	142
Terrestrial Animals	85
Birds	113
Balloons	7
TOTAL:	**2480**

•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	98
Fixed Stations	17
Moored Buoys	3
XBT Ships	15

Inserted by RTH/WMC Washington:

Drifting Buoys	660
Fixed Stations	40
Moored Buoys	56
XBT Ships	0

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

BATHY	**445**
BUOY	**217156**
SHIP:	**664**
SYNOP:	**27243**
TOTAL:	**245508**

Information on the Operational Status of the Space-Based Sub-System

CO-ORDINATION GROUP FOR METEOROLOGICAL SATELLITES

(CGMS)

Status as of May 1996

CGMS MEMBERS' SATELLITES IN

GEOSTATIONARY ORBIT

Operator	Satellite	Launched	Location	Status
EUMETSAT	Meteosat 5	03/1991	0°	Operational
	Meteosat 6	11/1993	0°	Stand-by
	Meteosat 7	—	0°	Projected launch 07/1997
	MSG 1	—	0°	Projected launch 2000
	MSG 2	—	0°	Projected launch 2002
	MSG 3	—	0°	Projected launch 2006
INDIA	INSAT I-d	06/1990	83°E	Domestic operational use
	INSAT II-a	07/1992	74° E	Domestic partly operat. use
	INSAT II-b	07/1993	93.5°E	Domestic operational use
	INSAT II-e	—	TBD	Projected launch 1997/98
JAPAN	GMS-4	09/1989	120°E	Back-up
	GMS-5	03/1995	140°E	Operational
	MTSAT-1	—	140°E	Projected launch 08/1999
USA	GOES - 8	04/1994	75°W	Operational
	GOES - 9	05/1995	135°W	Operational
	GOES - K	—		Projected launch 04/97
	GOES - L	—		Projected launch in 2002
	GOES - M	—		Projected launch in 2002
RUSSIAN FEDERATION	Elektro-1	11/94	76°E	Pre-operational
	Elektro-2	—	76°E	Projected launch in 1998
	Elektro-3	—	76°E	Projected launch in 2001
CHINA	FY-2	—	105°E	Projected launch 1997

CGMS MEMBERS' SATELLITES IN

POLAR ORBIT

Operator	Satellite	Launched	Orbit	Status
EUMETSAT	Metop-1	—	AM 827 km	Projected launch in 2002
	Metop-2	—	AM 827 km	Projected launch in 2006
	Metop-3	—	AM 827 km	Projected launch in 2010
USA	NOAA-9	12/1984	PM 850 km	Partly operational
	NOAA-12	05/1991	AM 850 km	Operational
	NOAA-14	12/1994	PM 850 km	Operational
	NOAA-K	—	AM 850 km	Projected launch early 1997
	NOAA-L	—	PM 850 km	Projected launch 12/1997
	NOAA-M	—	AM 850 km	Projected launch 09/1999
	NOAA-N	—	PM 850 km	Projected launch 12/2000
	NOAA-N'	—	PM 850 km	Projected launch 12/2003
	NPOESS-1	—	824 km	Launch date TBD
	NPOESS-2	—	824 km	Launch date TBD
CHINA	FY-1 C	—	870 km	Projected launch 1998
	FY-1 D	—	870 km	Launch date TBD
RUSSIAN FEDERATION	Meteor 2-21	08/1993	950 km	Operational
	Meteor 3-5	08/1991	1200 km	Operational
	Resourse-01-N4	—	835 km	Projected launch in 1997 (partly meteorological mission)
	Meteor 3M-1	—	925 km	Projected launch in 1998
	Meteor 3M-2	—	925 km	Projected launch in 2000

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Manual On Codes

Global practices

Changes to codes

EDITORIAL CHANGES

VOLUME I.1, PART A - ALPHANUMERIC CODES
AND
VOLUME I.2, PART B - BINARY CODES

In Recommendation 15 (CBS-96) approved by the President of WMO, and to be implemented on Wednesday 6 November 1996 at 0000 UTC, there is the replacement of Code Table 3872 for $s_a s_a$ in Volume I.1, Part A, Alphanumeric Codes and Code Table 0 02 014 (Tracking technique/status of system used) in Volume I.2, Part B, Binary Codes with the following new table (where the code figures 20 to 69 have been developed):

Code figure	Meaning
0	No windfinding
1	Automatic with auxiliary optical direction finding
2	Automatic with auxiliary radio direction finding
3	Automatic with auxiliary ranging
4	Not used
5	Automatic with multiple VLF-Omega signals
6	Automatic cross chain Loran-C
7	Automatic with auxiliary wind profiler
8	Automatic satellite navigation
9-18	Reserved
19	Tracking technique not specified

TRACKING TECHNIQUE/STATUS OF ASAP SYSTEM

STATUS OF SHIP SYSTEM

20	Vessel stopped
21	Vessel diverted from original destination
22	Vessel's arrrival delayed
23	Container damaged
24	Power failure to container
25-28	Reserved for future use
29	Other problems

SOUNDING SYSTEM

30	Major power problems
31	UPS inoperative
32	Receiver hardware problems
33	Receiver software problems
34	Processor hardware problems
35	Processor software problems
36	NAVAID system damaged
37	Shortage of lifting gas
38	Reserved
39	Other problems

LAUNCH FACILITIES

40	Mechanical defect
41	Material defect (hand launcher)
42	Power failure
43	Control failure
44	Pneumatic/hydraulic failure
45	Other problems
46	Compressor problems
47	Balloon problems
48	Balloon release problems
49	Launcher damaged

DATA ACQUISITION SYSTEMS

50	R/S receiver antenna defect
51	NAVAID antenna defect
52	R/S receiver cabling (antenna) defect
53	NAVAID antenna cabling defect
54-58	Reserved
59	Other problems

COMMUNICATIONS

60	ASAP communications defect
61	Communications facility rejected data
62	No power at transmitting antenna
63	Antenna cable broken
64	Antenna cable defect
65	Message transmitted power below normal
66-68	Reserved
69	Other problems
70	All systems in normal operation
71-98	Reserved
99	Status of system and its components not specified
100-126	Reserved
127	Missing value

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V. MARINE METEOROLOGICAL SERVICES (MMS) AND RELATED OCEANOGRAPHIC ACTIVITIES

Information on the Operation of Marine Meteorological Services

Broadcasts for Shipping and Other Marine Activities

Publication No. 9
Volume D - Information for Shipping

Part Aii - *Meteorological Broadcasts by Radio-Facsimile*

Antarctic

Effective 1.XI.1996, replace name of transmitting station:
"Presidente Eduardo Frei Montalva" by " Vicecomodoro Marambio"

Part C1 - *Marine Meteorological Services Available for Main Ports*

Notification from Australia

Add a new entry: Head Office, Melbourne, Victoria

Country / Pays Date	Name of Port / Nom du Port	Address of PMO / Adresse de l'AMP	Communication with PMO/Communication avec l'AMP		
			Telephone/Téléphone	Telefax/Téléfax	Telex/Télex
Australia/ Australie 13.VIII.1996	Head Office Melbourne, Victoria	Mr.Tony Baxter Bureau of Meteorology 7th Floor 150 Lonsdale Street Melbourne VIC 3000 e-mail: T.Baxter@bom.gov.au	+613 96694651	+613 96694168	

Change Fremantle, Melbourne and Sydney to read as follows:

Country / Pays Date	Name of Port / Nom du Port	Address of PMO / Adresse de l'AMP	Communication with PMO/Communication avec l'AMP		
			Telephone/Téléphone	Telefax/Téléfax	Telex/Télex
Australia/ Australie 13.VIII.1996	Fremantle, Western Australia	Captain Alan H.Pickles Port Meteorological Agent WA Regional Office 5th Floor 1100 Hay Street West Perth WA 6005	+619 3356670	+619 2632297	
	Melbourne, Victoria	Mr. Michael J.Hills Port Meteorological Agent Victoria Regional Office Bureau of Meteorology 26th Floor 150 Lonsdale Street Melbourne VIC 3000	+613 96694982	+613 96632059	
	Sydney, New South Wales	Captain E.E.(Taffy)Rowlands Port Meteorological Agent NSW Regional Office Bureau of Meteorology Level 15 300 Elizabeth Street Sydney NSW 2000	+612 92961547	+612 92961589	