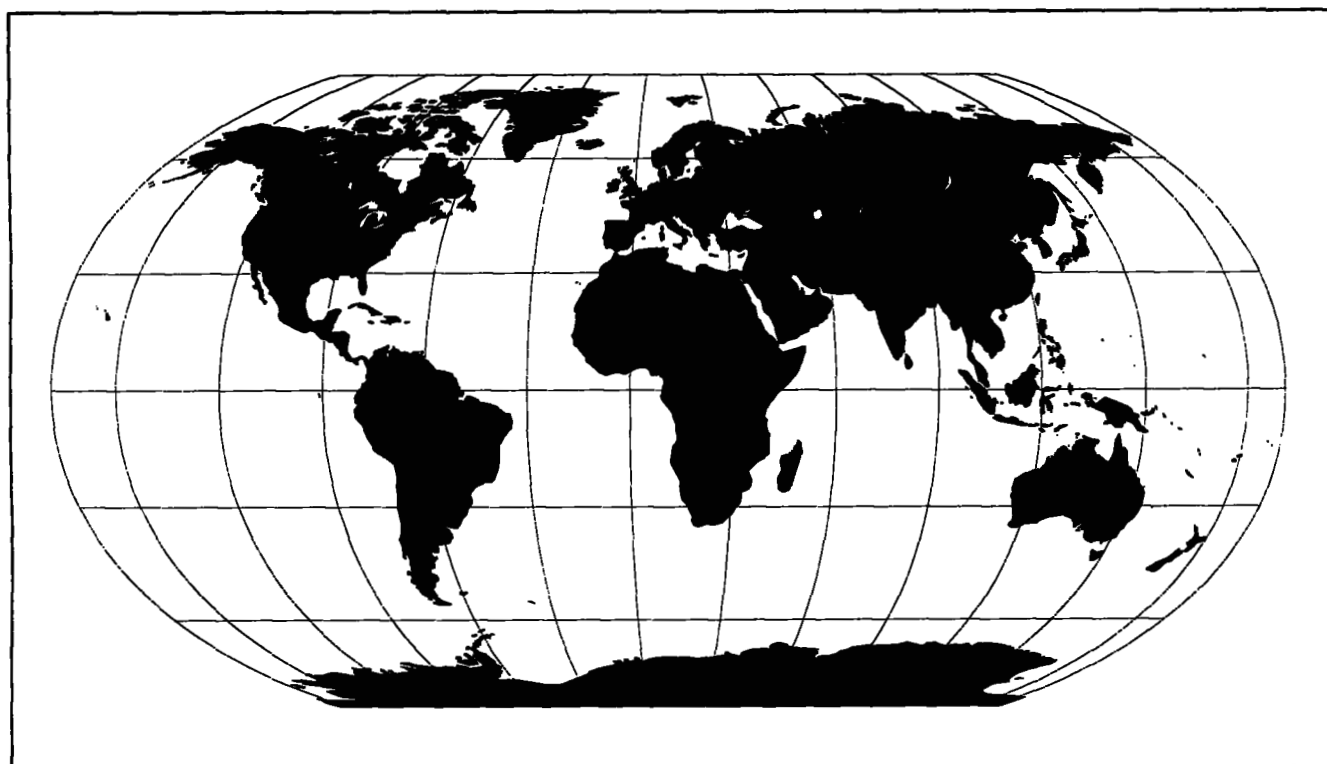


# OPERATIONAL NEWSLETTER

Volume 1996 - No. 6/7 - June/July 1996

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**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". ■

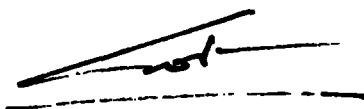
# FOREWORD

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/Newsltrxxx.pdf>

**For access via html:**

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

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

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<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.**



# CONTENTS

<b>FOREWORD</b> .....	<b>3</b>
<b>I. GLOBAL OBSERVING SYSTEM</b> .....	<b>7</b>
<b>INFORMATION ON THE OPERATIONAL STATUS OF ELEMENTS OF THE SURFACE-BASED SUB-SYSTEM</b> .....	<b>7</b>
<b>Publication No. 9: Volume A - Observing Stations</b> .....	<b>7</b>
Deleted Stations .....	7
New Stations .....	7
Changes to Existing Stations .....	8
<b>Mobile Sea Stations</b> .....	<b>12</b>
Automated Shipboard Aerological Programme (ASAP) .....	12
ASAP Operators .....	12
<b>Automatic Marine Stations</b> .....	<b>13</b>
Canada .....	13
Moored Buoys .....	13
•North-east Pacific Ocean .....	13
•North-west Atlantic Ocean .....	14
•Great Slave Lake, Lake Winnipeg, Great Lakes, Gulf of St. Lawrence .....	14
Drifting Buoys .....	14
•North-east Pacific Ocean .....	14
United States of America .....	14
Moored Buoys .....	15
Drifting Buoys .....	17
United Kingdom of Great Britain and Northern Ireland .....	18
Moored Buoys (Including Light Vessels, Islands and Fixed Platforms) .....	18
Drifting Buoys .....	18
<b>Information on Non-Drifting Ocean Data Acquisition Systems (ODAS)</b> .....	<b>19</b>
<b>ARGOS Service</b> .....	<b>20</b>
ARGOS Monthly Status Report .....	20
Reports handled by ARGOS Service .....	20
Reports for insertion into the GTS .....	20
•Inserted by RTH Toulouse: .....	20
•Inserted by RTH/WMC Washington: .....	20
WMO coding statistics of platforms reporting through ARGOS and distributed over the GTS .....	20

## CONTENTS

<b>Feed-back from Members to the Secretariat on any changes in the observing network .....</b>	<b>21</b>
<b>EXPLANATORY NOTES .....</b>	<b>22</b>
<b>FORM: FEED-BACK FROM MEMBERS TO THE SECRETARIAT ON ANY CHANGES IN THE OBSERVING NETWORK .....</b>	<b>23</b>
<b>INFORMATION ON THE OPERATIONAL STATUS OF THE SPACE-BASED BUS-SYSTEM .....</b>	<b>24</b>
<b>Satellite Data Broadcasting Schedule .....</b>	<b>24</b>
<b>III. GLOBAL TELECOMMUNICATION SYSTEM .....</b>	<b>25</b>
<b>INFORMATION ON THE OPERATION OF THE GTS .....</b>	<b>25</b>
<b>Publication No. 9 - Volume C1: Catalogue of Meteorological Bulletins .....</b>	<b>25</b>
<b>List of Abbreviated Headings: BATHY/TESAC/TRACKOB bulletins .....</b>	<b>25</b>
<b>New GRID and GRIB Products .....</b>	<b>26</b>
<b>AMDAR Bulletins .....</b>	<b>27</b>
<b>Publication No. 9 - Volume C2: Transmission Schedules .....</b>	<b>28</b>
<b>GLOBAL MONITORING OF THE OPERATION OF THE WWW .....</b>	<b>28</b>
<b>V. MARINE METEOROLOGICAL SERVICES (MMS) AND RELATED OCEANOGRAPHIC ACTIVITIES .....</b>	<b>29</b>
<b>INFORMATION ON THE OPERATION OF MARINE METEOROLOGICAL SERVICES .....</b>	<b>29</b>
<b>Broadcasts for Shipping and Other Marine Activities .....</b>	<b>29</b>
<b>Publication No. 9 - Volume D - Information for Shipping .....</b>	<b>29</b>
<b>Part Ai - Meteorological Broadcasts by Radiotelegraphy and Radiotelephony .....</b>	<b>29</b>
<b>Part Aii - Meteorological Broadcasts by Radio-Facsimile .....</b>	<b>30</b>
<b>Global Maritime Distress and Safety System (GMDSS) .....</b>	<b>30</b>

# I. GLOBAL OBSERVING SYSTEM

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

Publication No. 9  
Volume A - Observing Stations

### Deleted Stations

Index No.	Name of Station
<b>Region I - Sudan</b>	
62620	STATION NO. 6 (TEMPORARILY)
62735	SHOWAK (TEMPORARILY)
<b>Region II - Iran, Islamic Republic of</b>	
40767	NOWJEH
40795	DEZFUL
40830	OMIDIEH
40858	BUSHEHR
<b>Region II - India</b>	
42875	RAIPUR
<b>Region IV - USA</b>	
70454	ADAK/NAVY
<b>Region V - New Zealand</b>	
93118	WAIHEKE IS.
93149	ONEMANA
93250	KAWERAU
93344	TAIHAPE
93460	WAIONE
93490	PORANGAHAU
<b>Region VI - Norway</b>	
01365	TYNKRISSET
01489	OSLO-BLINDERN
<b>Region VI - Germany</b>	
10063	PUTTGARDEN

### New Stations

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations							OBS. H OBS.S	Upper-air				Re- marks	
				HP	H/HA		00	03	06	09	12	15	18		21	00	06	12		18
<b>Region II - Iran, Islamic Republic of</b>																				
40768	HAMEDAN	3451N	4832E	1749	-		X	X	X	X	X	X	X	X						
40794	SAFI-ABAD DEZFUL	3216N	4826E	82	-		X	X	X	X	X	X	X	X						
40857	BUSHEHR	2857N	5051E	8	-		X	X	X	X	X	X	X	X						
<b>Region II - India</b>																				
42874	PBO RAIPUR						X	X	X	X	X	X	X	X			RW	P	RW	P
<b>Region V - Brunei Darussalam</b>																				
96323	KUALA BELAIT	0435N	11412E	3	-		X	X	X	X	X	X	X	X	H00-24					
<b>Region VI - Norway</b>																				
01110	YTTERHOLMEN FYR	6600N	1141E	33	-		X	X	X		X		X							
01492	OSLO-BLINDERN						X		X		X		X							
<b>Region VI - Denmark and Faroe Islands</b>																				
06165	HESSELOE	5612N	1143E	12	8		X	X	X	X	X	X	X	X	H00-24					AUT
<b>Region VI - Germany</b>																				
10055	WESTERMARKELSDORF	5432N	1104E	9	3		X	X	X	X	X	X	X	X	H00-24					

Publication No. 9

Volume A - Observing Stations

Changes to existing Stations

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations							OBS.H	Upper-air				Re- marks
				HP	H/HA		00	03	06	09	12	15	18		21	OBS.S	00	06	
<b>Region I - Egypt</b>																			
62306	MERSA MATRUH						X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW
62337	EL ARISH						X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW
62378	HELWAN						X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW
62414	ASSWAN						X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW
<b>Region II - Iran, Islamic Republic of</b>																			
40741	SARAKHS						X	X	X	X	X	X	X	X					
40833	OMIDIEH						X	X	X	X	X	X	X	X	H03-18				
40856	ZAHEDAN						X	X	X	X	X	X	X	X	H00-18			RW	
40898	CHAHBAHAR						X	X	X	X	X	X	X	X					
<b>Region II - India (Stations North of Latitude 20°N)</b>																			
42111	DEHRADUN																		
42398	SILIGURI						X	X	X	X	X	X	X	X					
<b>Region V - Islands in the Pacific Ocean North of the Equator</b>																			
91212	NWSO AGANA, GUAM MARIANA IS.						X	X	X	X	X	X	X	X	H00-23	RW		RW	
91217	WSMO AGANA, GUAM MARIANA IS																		
<b>Region V - New Caledonia</b>																			
91577	KOUMAC (NLE- CALEDONIE)						X	X	X	X	X	X	X	X	H00-24		P		P
91579	OULOUP (ILE OUVEA)						X	X	X	X	X	X	X	X					
91582	OUANAHAM (ILE LIFOU)						X	X	X	X	X	X	X	X	H00-24				P
91587	LA ROCHE (ILE MARE)						X	X	X	X	X	X	X	X	H00-24				
91592	NOUMEA (NLE- CALEDONIE)						X	X	X	X	X	X	X	X	H00-24	W		W	
91596	MOUE (ILE DES PINS)						X	X	X	X	X	X	X	X					
91598	MATTHEW (ILOT)						X	X	X	X	X	X	X	X					
<b>Region V - New Zealand</b>																			
93012	KAITAIA														H18-00				
93112	WHENUAPAI														H00-24	RW		RW	W
<b>Region VI - Greenland</b>																			
04208	EDDERFUGLE OEER																		
04214	NUUSSUAQ																		
04221	JAKOBSHAVN LUFTHAVN																		
04228	ATTU, KIJSISUT																		
04231	SDR STROEMFJORD																		
04250	GODTHAAB/NUUK																		
04253	FREDERIKSHAAB ISBLINK																		
04254	GODTHAAB LUFTHAVN																		
04260	FREDERIKSHAAB																		
04261	GROENNEDAL																		
04266	NUNARSUT																		
04272	JULIANEHAAB																		
04285	ANGISOQ																		
04312	NORD/AWS																		



## Changes to existing Stations

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations							OBS.H OBS.S	Upper-air				Re- marks	
				HP	H/HA		00	03	06	09	12	15	18		21	00	06	12		18
04313	HENRIK KROEYER HOLME																			
04351	APUTITEEQ																			
04360	TASILAQ																			
04361	KULUSUK LUFTHAVN																			
04382	IKERMIJARSUK																			
<b>Region VI - Denmark and Faroe Islands</b>																				
06010	SOERVAAGVAGAR																			
06022	TYRA GEST																			
06024	THISTED LUFTHAVN																			
06030	AALBORG																			
06048	HADSUND							X	X	X	X	X	X	X	X	H00-24				
06052	THYBOROEN																			
06053	AGGERSUND									X	X	X	X		H07-15					
06060	KARUP							X	X	X	X	X	X	X	S00-24		RW			
06062	SKIVE LUFTHAVN									X	X	X	X		S00-24		RW			
06066	STAUNING LUFTHAVN																			
06080	ESBJERG							X	X	X	X	X	X	X						
06081	BLAAVAND																			
06096	ROEMOE																			
06099	ROEMOE/HAVNEBY																			
06111	BAAGOE																			
06118	SOENDERBORG LUFTHAVN																			
06143	MARIBO LUFTHAVN																			
06159	ROESNAES																			
06160	VAERLOESE																			
06170	KOEBENHAVN ROSKILDE																			
06180	KOEBENHAVN KASTRUP																			
06181	KOEBENHAVN JAEGBERG							X	X	X	X	X	X	X	H00-24	RW		RW		
06186	KOEBENHAVN LANDBOHOEJSKOLEN																			
<b>Region II - Former USSR</b>																				
38392	DASHKHOVUZ																			

Stations in bold were previously under **Former USSR**. They should now be listed under the heading **Region II - Turkmenistan** effective 23.V.96

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations							OBS.H OBS.S	Upper-air				Re- marks	
				HP	H/HA		00	03	06	09	12	15	18		21	00	06	12		18
38261	AK-DEPE	4203N	5922E	74	-		X	X	X	X	X	X	X	X						
38267	KENEURGENCH	4218N	5908E	71	-		X	X	X	X	X	X	X	X						
38367	KARABOGAZKEL	4103N	5255E	-22	-		X	X	X	X	X	X	X	X						
38383	SHASENEM	4135N	5843E	62	-		X	X	X	X	X	X	X	X						
38388	EKEZHE	4102N	5745E	308	-		X	X	X	X	X	X	X	X						
38392	DASHKHOVUZ	4145N	5949E	82	-		X	X	X	X	X	X	X	X						
38392	DASHKHOVUZ	4150N	5959E	87	-											RW		RW		
38507	TURKMENBASHI	4003N	5300E	-13	-		X	X	X	X	X	X	X	X						
38507	TURKMENBASHI	4002N	5259E	90	-											RW		RW		

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								OBS. H OBS.S	Upper-air				Re- marks
				HP	H/HA		00	03	06	09	12	15	18	21		00	06	12	18	
38511	CHAGYE	4047N	5520E	115	-		X	X	X	X	X	X	X	X		.	.	.	.	
35527	DAVALY	4004N	5723E	47	-		X	X	X	X	X	X	X	X		.	.	.	.	
38529	DERVEZE	4011N	5829E	84	-		X	X	X	X	X	X	X	X		.	.	.	.	
38545	DARGANATA	4028N	6217E	142	-		X	X	X	X	X	X	X	X		.	.	.	.	
38634	NEBITDAG	3930N	5420E	-8	-		X	X	X	X	X	X	X	X		.	.	.	.	
38637	OGRYDA	3906N	5306E	-26	-		X	X	X	X	X	X	X	X		.	.	.	.	
38641	JASGA	3941N	5534E	-9	-		X	X	X	X	X	X	X	X		.	.	.	.	
38647	GAZANDZHYK	3915N	5531E	31	-		X	X	X	X	X	X	X	X		.	.	.	.	
38656	ERBENT	3919N	5836E	87	-		X	X	X	X	X	X	X	X		.	.	.	.	
38665	AKMOLLA	3935N	5957E	108	-		X	X	X	X	X	X	X	X		.	.	.	.	
38684	DJACHEV	3919N	6312E	182	-		X	X	X	X	X	X	X	X		.	.	.	.	
38687	CHARDZHEV	3905N	6336E	190	-		X	X	X	X	X	X	X	X		.	.	.	.	
38750	ESENGLY	3728N	5338E	-22	-		X	X	X	X	X	X	X	X		.	.	.	.	
38755	BYGDAILI	3832N	5418E	-1	-		X	X	X	X	X	X	X	X		.	.	.	.	
38756	BEKIBENT	3837N	5511E	206	-		X	X	X	X	X	X	X	X		.	.	.	.	
38759	GYZYLETREK	3737N	5447E	29	-		X	X	X	X	X	X	X	X		.	.	.	.	
38763	GYZYLARBAT	3859N	5617E	92	-		X	X	X	X	X	X	X	X		.	.	.	.	
38767	GARRYQALA	3826N	5618E	312	-		X	X	X	X	X	X	X	X		.	.	.	.	
38773	BOKYRDAK	3845N	5828E	84	-		X	X	X	X	X	X	X	X		.	.	.	.	
38774	BAKHERDEN	3826N	5725E	159	-		X	X	X	X	X	X	X	X		.	.	.	.	
38791	CHESHME	3841N	6112E	147	-		X	X	X	X	X	X	X	X		.	.	.	.	
38799	UCHADZHI	3805N	6248E	185	-		X	X	X	X	X	X	X	X		.	.	.	.	
38804	REPATEK	3834N	6311E	185	-		X	X	X	X	X	X	X	X		.	.	.	.	
38806	BYRDALYK	3828N	6422E	212	-		X	X	X	X	X	X	X	X		.	.	.	.	
38880	ASHGABAT KESHI	3758N	5820E	208	-		X	X	X	X	X	X	X	X		.	.	.	.	
38880	ASHGABAT	3758N	5823E	304	-		.	.	.	.	.	.	.	.		RW	.	RW	.	
38885	KAKA	3721N	5938E	308	-		X	X	X	X	X	X	X	X		.	.	.	.	
38886	TEDZHEN	3723N	6031E	186	-		X	X	X	X	X	X	X	X		.	.	.	.	
38895	BAJRAMALY	3736N	6211E	240	-		X	X	X	X	X	X	X	X		.	.	.	.	
38899	ELOTEN	3718N	6225E	259	-		X	X	X	X	X	X	X	X		.	.	.	.	
38911	KERKI	3750N	6512E	240	-		X	X	X	X	X	X	X	X		.	.	.	.	
38915	CHARSHANGY	3731N	6601E	265	-		X	X	X	X	X	X	X	X		.	.	.	.	
38974	SARAGT	3632N	6113E	275	-		X	X	X	X	X	X	X	X		.	.	.	.	
38987	GYSHGY	3517N	6221E	625	-		X	X	X	X	X	X	X	X		.	.	.	.	
38989	TAGTABAZAR	3557N	6255E	349	-		.	.	.	.	.	.	.	.		RW	.	RW	.	
38998	LEKKER	3616N	6342E	787	-		X	X	X	X	X	X	X	X		.	.	.	.	

Stations in bold were previously under Former USSR. They should now be listed under the heading  
Region VI - Lithuania effective 20.V.96

Index No.	Name of Station	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								OBS. H	Upper-air				Re- marks
				HP	H/HA		00	03	06	09	12	15	18	21		OBS.S	00	06	12	
26502	<b>PALANGA</b>	5558N	2106E	15	10		X	X	X	X	X	X	X	X		.	.	.	.	
26509	KLAIPEDA	5544N	2104E	7	6		X	X	X	X	X	X	X	X		.	.	.	.	
26515	<b>TELSIAI</b>	5558N	2215E	152	153		X	X	X	X	X	X	X	X		.	.	.	.	
26517	<b>VEZAICIAI</b>	5542N	2129E	64	62		X	X	X	X	X	X	X	X		.	.	.	.	
26518	LAUKUVA	5537N	2414E	166	165		X	X	X	X	X	X	X	X		.	.	.	.	
26524	SIAULIAI	5556N	2319E	107	106		X	X	X	X	X	X	X	X		.	.	.	.	
26529	PANEVEZYS	5545N	2423E	58	57		X	X	X	X	X	X	X	X		.	.	.	.	
26531	BIRZAI	5612N	2446E	62	60		X	X	X	X	X	X	X	X		.	.	.	.	
26547	<b>DUKSTAS</b>	5531N	2618E	168	164		X	X	X	X	X	X	X	X		.	.	.	.	
26600	SILUTE	5521N	2128E	5	3		X	X	X	X	X	X	X	X		.	.	.	.	
26603	<b>NIDA</b>	5519N	2101E	3	2		X	X	X	X	X	X	X	X		.	.	.	.	
26620	<b>DOTNUVA</b>	5524N	2352E	79	69		X	X	X	X	X	X	X	X		.	.	.	.	
26621	RASEINIAI	5523N	2307E	111	111		X	X	X	X	X	X	X	X		.	.	.	.	
26629	KAUNAS	5453N	2350E	77	76		X	X	X	X	X	X	X	X		RW	.	.	.	
26633	UTENA	5532N	2536E	106	105		X	X	X	X	X	X	X	X		.	.	.	.	
26634	<b>UKMERGE</b>	5515N	2446E	73	72		X	X	X	X	X	X	X	X		.	.	.	.	
26713	KYBARTAI	5438N	2247E	59	58		X	X	X	X	X	X	X	X		.	.	.	.	
26728	<b>LAZDIJAI</b>	5414N	2331E	134	133		X	X	X	X	X	X	X	X		.	.	.	.	
27730	VILNIUS	5438N	2506E	156	162		X	X	X	X	X	X	X	X		.	.	.	.	
27732	VILNIUS	5438N	2517E	196	196		X	X	X	X	X	X	X	X		.	.	.	.	
26737	VARENA	5415N	2433E	111	109		X	X	X	X	X	X	X	X		.	.	.	.	

## MOBILE SEA STATIONS

## Notification from ASAP Coordinating Committee

Automated Shipboard Aerological  
Programme (ASAP)

## ASAP OPERATORS

NAME	SHIP	CALL SIGN	FLEX ADDRESS	RELEASE HEIGHT	FOCAL POINT	COUNTRY
D/ASAP1	EWL Colombia	V2LV	112007C8	6 m	Horst Günther Phone: +49 40 3190 8830 Fax.: +49 40 3190 8803 Email: horst.guenther@swa-m2.hamburg.bsh.d400.de	Germany
D/ASAP2	EWL Suriname	V2LX	112044C2	6 m	Horst Günther Phone: +49 40 3190 8830 Fax.: +49 40 3190 8803 Email: horst.guenther@swa-m2.hamburg.bsh.d400.de	Germany
D/ASAP3	FS Meteor	DBBH	112057B4	6 m	Horst Günther Phone: +49 40 3190 8830 Fax.: +49 40 3190 8803 Email: horst.guenther@swa-m2.hamburg.bsh.d400.de	Germany
D/ASAP4	EWL Venezuela	V2GH	160037D2	6 m	Horst Günther Phone: +49 40 3190 8830 Fax.: +49 40 3190 8803 Email: horst.guenther@swa-m2.hamburg.bsh.d400.de	Germany
DK/ASAP1	Naja Artica	OXVH2	Inmarsat-C	18 m	Klaus Hedegaard Phone: +45 39157352 Fax.: +45 39157390 Email: hed@dmi.dk	Denmark
DK/ASAP2	Nuka Artica	OXYH2	Inmarsat-C	18 m	Klaus Hedegaard Phone: +45 39157352 Fax.: +45 39157390 Email: hed@dmi.dk	Denmark
E/ASAP1	Esperanza del Mar	EHOA	11836376	10 m	Cesar Belandia Phone: +34 1 581 9651 Fax.: +34 1 581 9846 Email: cesar.belandia@inm.es	Spain
F/ASAP1	Fort Royal	FNOR	1180F11A	13 m	Laurent Bazin Phone: +33 1 30136456 Fax.: +33 1 30136060 Email: laurent.bazin@meteo.fr	France
F/ASAP2	Douce France	FNRS	11810364	27 m	Laurent Bazin Phone: +33 1 30136456 Fax.: +33 1 30136060 Email: laurent.bazin@meteo.fr	France
F/ASAP3	Fort Fleur d'Épée	FNOU	11819606	13 m	Laurent Bazin Phone: +33 1 30136456 Fax.: +33 1 30136060 Email: laurent.bazin@meteo.fr	France
F/ASAP4	Fort Desaix	FNPH	1181A39C	27 m	Laurent Bazin Phone: +33 1 30136456 Fax.: +33 1 30136060 Email: laurent.bazin@meteo.fr	France
GB/ASAP2	Bransfeld	ZLDG	1120622E	7 m	Stuart Norwell Phone: +44 1344 855654 Fax.: +44 1344 855921 Email: smnorwell@meto.gov.uk	United Kingdom
S-I/ASAP1	Godafoss	V2EZ	Inmarsat-C	13m	Flosi H. Sigurdsson Phone: +354 5 600 600 Fax.: +354 5 528 121 Email: flosi@vedur.is	Iceland
US/ASAP1	RV Discoverer	WTEA	A0401618	9 m	Jason Morenz Phone: +1 301 427 2089 Fax.: +1 301 427 2073 Email: morenz@ogp.noaa.gov	U.S.A. (X48)
US/ASAP2	RU Ka'imimoana	WTEU	Inmarsat-C	11 m	Jason Morenz Phone: +1 301 427 2089 Fax.: +1 301 427 2073 Email: morenz@ogp.noaa.gov	U.S.A.

## 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: 5 June 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	*	*	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	-	-	-

\* Sensor/System failure

## Canada

## Moored Buoys

## North-west Atlantic Ocean:

WMO Buoy Identifier	ARGOS Identifier	Position: 9 June 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	X	N/A	-	-	-
44137	5579	41 36' N	060 02' W	X	*	X	X	X	X	X	X	N/A	-	-	-
44138	5577	44 16' N	053 37' W	X	*	X	X	X	X	X	X	N/A	-	-	-
44139	3448	44 08' N	057 38' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44140	5576	42 51' N	051 34' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44141	3449	42 04' N	056 09' W	X	X	X	X	X	X	X	X	N/A	-	-	-
44142	5578	42 27' N	064 06' W	*	X	X	X	X	X	X	X	N/A	-	-	-
44153	N/A	47 24' N	063 24' W	X	X	X	X	X	X	X	X	N/A	-	-	-

\* Sensor/System failure

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

WMO Buoy Identifier	ARGOS Identifier	Position: 4 June 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	X	N/A	-	-	-
45135	N/A	43 47' N	076 52' W	X	X	X	X	X	X	X	X	N/A	-	-	-
45136	N/A	48 32' N	086 57' W	X	X	X	X	X	X	X	X	N/A	-	-	-
45137	N/A	45 33' N	081 01' W	X	X	X	X	X	X	X	X	N/A	-	-	-
45138	8249	49 32' N	065 44' W	.	.	.	.	.	.	.	.	N/A	-	-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	X	X	X	X	N/A	-	-	-
45140	3439	50 47' N	096 44' W	.	.	.	.	.	.	.	.	N/A	-	-	-
45141	N/A	61 11' N	115 19' W	.	.	.	.	.	.	.	.	N/A	-	-	-
45142	N/A	42 44' N	079 17' W	X	X	X	X	X	X	X	X	N/A	-	-	-
45144	8671	53 23' N	098 29' W	.	.	.	.	.	.	.	.	N/A	-	-	-

## Drifting Buoys

## North-east Pacific Ocean:

WMO Buoy Identifier	ARGOS Identifier	Position: 7 June 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	7149	48 30' N	156 24' W	.	X	X	X	X	.	.	X	-	-	-
46682	7140	49 48' N	163 06' W	.	X	X	X	X	.	.	X	-	-	-
46692	7139	50 12' N	130 54' W	.	*	X	X	X	.	.	X	-	-	-

\* Sensor/System failure

45138 status unknown  
45140 and 45144 to be deployed in June.  
45141 to be deployed in July  
46682 deployed on 25 May 1996

## United States of America

List of U.S.A. Ocean Data Acquisition Systems (ODAS) included in the July 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: 4-11 July 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	**	**	**	-	**	**	**	-	-	-	-
41004		32.51N	79.10W	X	X	X	-	X	X	X	-	-	-	-
41006*		29.33N	77.32W	**	**	**	-	**	**	**	-	-	-	-
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	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	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	X	X	X	-	X	X	X	-	-	-	-
44007		43.53N	70.14W	X	X	X	-	X	X	X	-	-	-	-
44008*		40.50N	69.43W	**	**	**	-	**	**	**	-	-	-	-
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: 4-11 July 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	-	-	-	-
46022		40.76N	124.50W	**	**	**	-	**	**	**	-	-	-	-
46023		34.25N	120.67W	X	X	X	-	X	X	X	-	-	-	-
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	X	X	-	-	-	-
46030		40.42N	124.53W	X	X	X	-	X	X	X	-	-	-	-
46035		56.96N	177.73W	**	**	**	-	**	**	**	-	-	-	-
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	X	X	X	-	X	X	X	-	-	-	-
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	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 : 31

Total Other Buoys : 39

Total Moored Buoys : 70

\* 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: 10-11 July 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16811	17180	28°S	075°E	.	X	X	-	X	.	.	.	-	-	-
17810	17182	19°S	034°W	.	X	X	-	X	.	.	.	-	-	-
32812	17171	28°S	122°W	.	**	X	-	X	.	.	.	-	-	-
33839	17164	26°S	019°W	.	**	X	-	X	.	.	.	-	-	-
33841	17166	28°S	021°W	.	**	X	-	X	.	.	.	-	-	-
41526	5575	35°N	054°W	X	X	X	-	X	.	.	.	-	-	-
41585	23640	35°N	043°W	X	X	X	-	X	.	.	.	-	-	-
46551	20705	43°N	128°W	**	**	X	-	X	.	.	.	-	-	-
46552	20706	42°N	130°W	**	**	X	-	X	.	.	.	-	-	-
46553	20710	51°N	136°W	X	X	X	-	X	.	.	.	-	-	-
46554	20712	34°N	141°W	X	**	X	-	X	.	.	.	-	-	-
46555	20707	40°N	127°W	X	X	X	-	X	.	.	.	-	-	-
46556	20711	60°N	145°W	**	**	X	-	**	.	.	.	-	-	-
46557	20709	38°N	141°W	X	**	X	-	X	.	.	.	-	-	-
46558	20708	37°N	131°W	**	**	X	-	X	.	.	.	-	-	-
53825	20715	10°S	121°E	.	**	#	-	**	.	.	.	-	-	-
54809	20719	34°S	162°W	.	X	X	-	X	.	.	.	-	-	-
54810	17181	17°S	177°E	.	**	#	-	**	.	.	.	-	-	-
54811	20713	35°S	115°W	.	X	X	-	X	.	.	.	-	-	-
54812	17178	19°S	092°W	.	X	X	-	X	.	.	.	-	-	-
54813	20717	36°S	117°W	.	X	X	-	X	.	.	.	-	-	-
54814	5127	31°S	152°W	.	X	X	-	X	.	.	.	-	-	-
56807	20716	23°S	006°E	.	**	X	-	X	.	.	.	-	-	-
56808	20720	35°S	036°E	.	X	X	-	X	.	.	.	-	-	-
56809	17169	27°S	066°E	.	**	X	-	X	.	.	.	-	-	-
56810	17185	30°S	050°E	.	X	X	-	X	.	.	.	-	-	-

335 drifting buoys have been deployed in support of TOGA; 16 are operational

# Buoy beached, sensor reporting.

\*\* Sensor failure reported.

**United Kingdom of Great  
Britain and  
Northern Ireland**

**Moored Buoys  
Including Light Vessels, Islands and Fixed Platforms**

WMO Buoy Identifier	ARGOS Identifier	Position: 17 April 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'W	02°04'W	X	X	X	X	-	-	-	X	-	X	-
03695*		51°40'N	01°06'E	X	X	X	X	-	-	-	X	-	X	-
62026		55°20'N	02°20'E	X	X	X	X	X	X	-	X	-	X	-
62029		48°42'N	12°25'W	X	X	X	X	X	X	-	X	-	X	-
62081		51°00'N	13°20'W	X	X	X	X	X	X	-	X	-	X	-
62101		50°37'N	02°44'W	X	X	X	X	X	X	-	X	-	X	-
62103**		49°55'N	02°54'W	X	X	X	X	X	X	-	X	-	X	X
62105		55°29'N	12°59'W	X	X	X	X	X	X	-	X	-	X	-
62106		57°00'N	09°52'N	X	X	X	X	X	X	-	X	-	X	-
62107**		50°04'N	06°04'W	X	X	X	X	X	X	-	X	-	X	X
62108		53°34'N	15°30'N	-	-	-	-	-	-	-	-	-	-	-
62109		57°00'N	00°00'E	X	X	X	X	X	X	-	X	-	X	-
62112*		58°42'N	01°17'E	X	X	X	X	-	-	-	X	-	X	-
62118*		57°45'N	00°55'E	X	X	X	X	-	-	-	X	-	X	-
62126*		58°51'N	03°35'W	X	X	X	X	-	-	-	X	-	X	-
62129*		53°03'N	02°14'E	X	X	X	X	-	-	X	X	-	X	-
62163		47°30'N	08°30'W	X	X	X	X	X	X	-	X	-	X	-
62301		52°10'N	05°05'W	X	X	X	X	X	X	-	X	-	-	-
62302		54°08'N	03°37'W	X	X	X	X	X	-	-	X	-	-	-
62303		51°31'N	04°56'W	X	X	X	X	X	X	-	X	-	X	-
62304**		51°09'N	01°47'E	X	X	X	X	X	X	-	-	-	X	X
62305**		50°25'N	00°00'W	X	X	X	X	X	X	-	X	-	X	X
63103*		61°14'N	01°09'E	X	X	X	X	-	-	-	X	-	X	-
63111*		59°33'N	01°32'E	X	X	X	X	-	-	X	X	-	X	-
64045		59°15'N	11°41'W	X	X	X	X	X	X	-	X	-	X	-

\*Fixed platforms or islands  
\*\* Automatic Light Vessels

**Drifting Buoys**

WMO Buoy Identifier	ARGOS Identifier	Position: 25 June 1996		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
25565	1639*	54.2N	31.3W	-	X	X	-	-	-	-	-	-	-	-
31521	3302	13.5N	35.8W	X	X	X	X	X	-	-	-	-	-	-
44613	3324	43.2N	12.3W	X	-	X	X	X	-	-	-	-	-	-
44616	3318	58.7N	26.1W	X	X	X	X	X	-	-	-	-	-	-
44727	2974	40.7N	15.2W	-	X	X	X	X	-	-	-	-	-	-
44728	3024	56.2N	29.5W	-	X	X	X	X	-	-	-	-	-	-
44760	2947	21.8N	41.4W	-	X	X	X	X	-	-	-	-	-	-
44763	3098	56.8N	34.3W	-	X	X	X	X	-	-	-	-	-	-
44769	1253	57.4N	25.6W	-	-	X	X	X	-	-	-	-	-	-
44770	3035	23.6N	49.6W	-	X	X	X	X	-	-	-	-	-	-
44773	3132	54.9N	16.6W	-	X	X	X	X	-	-	-	-	-	-
44777	1249	54.6N	46.1W	-	-	X	X	X	-	-	-	-	-	-
65594	1252	59.9N	40.9W	-	X	X	X	X	-	-	-	-	-	-
44761	14736	56.8N	47.6W	-	-	-	-	X	-	-	-	-	-	-
44767	3013	56.5N	35.3W	-	X	X	X	X	-	-	-	-	-	-
44768	1251	61.4N	34.1W	-	X	X	X	X	-	-	-	-	-	-
44771	2954	52.3N	36.0W	X	X	X	X	X	-	-	-	-	-	-
44774	3162	51.2N	31.2W	-	X	X	X	X	-	-	-	-	-	-
44778	1258	53.8N	44.4W	-	X	X	X	X	-	-	-	-	-	-

\*Ice drifter

**INFORMATION ON NON-DRIFTING  
OCEAN DATA ACQUISITION SYSTEMS  
(ODAS)**

Explanation of data / abbreviations used:

Column	Explanation
(1)	WMO ID allocated to the ODAS
	OTHER: National or International ID or call sign
(2)	TYPE: M = Moored
(3)	HULL: xxS = Spar buoy (xx=meters high above sea surface)
	O = Any other kind of buoy (Specify in column "Comments")
(5)	DP = Dew Point
	MG = Max Gust
(6)	M = Meteorological/Environmental satellite
	H = HF
	A = Argos System
(7)	S = SHIP FM 13-IX
	D = Buoy FM 18
(8)	G = Circulated over GTS
	C = On computer-compatible carrier
	M = On micro-computer-compatible carrier
(9)	O = Operational



(1)		(2)		(3)			(4)										(5)	(6)	(7)	(8)	(9)	(10)	
IDENTIFIER		ODAS		POSITION			VARIABLES MEASURED - Number of observations reported per day																
WMO	Other	Type	Hull	Long.	Lat.	Date	Air Temp.	Air Press.	Press Tend.	Humidity	Wind	Waves	Wave Spectra	Sea Surface Temp.	Subsurface Temp.	Salinity	Current	Others	Transmission Means	Code Form	Data Availability	Status	Comments
62163	ODAS Brittany	M	4S	47°32'N	08°30'W	04/95	24	24	24	24	24	24		24				DP MG	M	S	GC	O	Co-operative project between Météo-France and the UK Met. Office
41096	Guadeloupe	M	O	16°29'N	61°33'W	01/95							48	48	48				HA	D	GM	O	Datavell directional waverider
41097	Martinique	M	O	14°54'N	61°09'W	04/95							48	48	48				HA	D	GM	O	Datavell directional waverider

**ARGOS SERVICE**

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

**ARGOS**  
**Monthly Status Report**

**Date of statistics**  
**computation:**  
**5 July 1996**

Drifting Buoys	1261
Boats (<20 knots)	-
Marine Stations	99
Moored Buoys	296
Fixed Stations	434
Marine Animals	114
Terrestrial Animals	115
Birds	64
Balloons	10
<b>TOTAL:</b>	<b>2393</b>

• 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	109
Fixed Stations	15
Moored Buoys	3
XBT Ship	12

Inserted by RTHWMC Washington:

Drifting Buoys	109
Fixed Stations	15
Moored Buoys	3
XBT Ship	12

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

BATHY	252
BUOY	179064
SYNOP	24162
<b>TOTAL:</b>	<b>203478</b>

**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 follows. 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**

**S**eparate 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 (lliii) 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 <sub>o</sub> P <sub>o</sub> P <sub>o</sub> P <sub>o</sub>
1000 hPa	
850 hPa	geopotential of the given standard isobaric surface
700 hPa	reported using group 4a <sub>3</sub> hhh
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.

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

*(See Explanatory Notes overleaf)*

Country: \_\_\_\_\_ Date Effective: \_\_\_\_\_

(Please tick the appropriate box)

Global Exchange:  Regional Exchange:

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

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

**SATELLITE DATA  
BROADCASTING SCHEDULE**

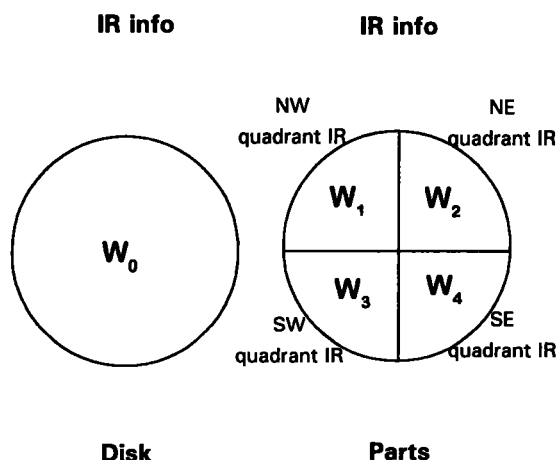
for GOMS N-1  
Elektro WEFAX  
channel No. 1  
via the Obninsk  
information reception  
and  
transmission station  
(on 1 691 MHz)

Notification from the  
Russian Federation

The following information has been certified by Mr. A. B. USPENSKY, Director-General of PLANETA, a scientific production company.

UTC	Hour					Comments
	03.00	04.00	15.00	16.00	17.00	
:02		W <sub>0</sub>		W <sub>0</sub>	M <sub>4</sub>	Retransmission of other Meteosat WEFAX formats is possible
:06		W <sub>1</sub>		W <sub>1</sub>		
:10		W <sub>2</sub>		W <sub>2</sub>		
:14	DTOT	W <sub>3</sub>		W <sub>3</sub>	M <sub>5</sub>	
:18	ETOT	W <sub>4</sub>	DTOT	W <sub>4</sub>		
:22			CTOT			
:26	GMSA	M <sub>1</sub>	GMSA	M <sub>1</sub>	M <sub>6</sub>	
:30						
:34						
:38		M <sub>2</sub>		M <sub>2</sub>	W <sub>0</sub>	
:42					W <sub>1</sub>	
:46					W <sub>2</sub>	
:50	GMSB	M <sub>3</sub>		M <sub>3</sub>	W <sub>3</sub>	
:54					W <sub>4</sub>	
:58						

**EXPLANATION OF DATA USED**



DTOT	Standard Meteosat WEFAX format
ETOT	Standard Meteosat WEFAX format
CTOT	Standard Meteosat WEFAX format
GMSA	Standard Meteosat WEFAX format
GMSB	Standard Meteosat WEFAX format
W <sub>0</sub>	Standard GOMS N-1 WEFAX format
W <sub>1</sub>	Standard GOMS N-1 WEFAX format
W <sub>2</sub>	Standard GOMS N-1 WEFAX format
W <sub>3</sub>	Standard GOMS N-1 WEFAX format
W <sub>4</sub>	Standard GOMS N-1 WEFAX format
M <sub>n</sub>	Frames with Meteor TV information
M <sub>1</sub>	Part of Europe sector (direct transmission mode)
M <sub>2</sub>	Parts of the western Indian Ocean and Africa
M <sub>3</sub>	Parts of the western Indian Ocean and Africa
M <sub>4</sub>	Parts of the western Indian Ocean and Africa
M <sub>5</sub>	Parts of the Arctic Eurasian coast (the Northern Passage - Sewmorput)
M <sub>6</sub>	Parts of the Arctic Eurasian coast (the Northern Passage - Sewmorput)



# III. GLOBAL TELECOMMUNICATION SYSTEM

## Information on the Operation of the GTS

Publication No. 9  
Volume C1 - Catalogue of Meteorological  
Bulletins

### List of abbreviated headings: BATHY/TESAC/TRACKOB bulletins for global exchange

Reference to: November 1995 edition

Abbreviated Heading	Centre
SOVA01 EGRR	BRACKNELL
SOVA02 EGRR	BRACKNELL
SOVA10 RUMS	MOSCOW
SOVB01 EGRR	BRACKNELL
SOVB01 VTBB	BANGKOK
SOVB02 EGRR	BRACKNELL
SOVB10 RUHB	KHABAROVSK
SOVB10 RUMS	MOSCOW
SOVC01 EGRR	BRACKNELL
SOVC01 SABM	BUENOS AIRES
SOVC01 SBBR	BRASILIA
SOVC01 SKBO	BOGOTA
SOVC02 EGRR	BRACKNELL
SOVC10 RUHB	KHABAROVSK
SOVC10 RUMS	MOSCOW
SOVD01 BIRK	REYKJAVIK
SOVD01 CWHF	HALIFAX
SOVD01 CWPf	ESQUIMALT
SOVD01 EGRR	BRACKNELL
SOVD01 KWBC	WASHINGTON
SOVD02 BIRK	REYKJAVIK
SOVD02 CWOW	OTTAWA
SOVD02 EGRR	BRACKNELL
SOVD02 KWBC	WASHINGTON
SOVD03 KWBC	WASHINGTON
SOVD04 KWBC	WASHINGTON
SOVD05 KWBC	WASHINGTON
SOVD06 KWBC	WASHINGTON
SOVD07 KWBC	WASHINGTON
SOVD08 KWBC	WASHINGTON
SOVD09 KWBC	WASHINGTON
SOVD10 RUHB	KHABAROVSK
SOVD10 RUMS	MOSCOW

Abbreviated Heading	Centre
SOVD11 KWBC	WASHINGTON
SOVD12 KWBC	WASHINGTON
SOVD13 KWBC	WASHINGTON
SOVE01 AMMC	MELBOURNE
SOVE01 EGRR	BRACKNELL
SOVE01 NTAA	TAHITI
SOVE02 AMMC	MELBOURNE
SOVE02 EGRR	BRACKNELL
SOVE10 RUHB	KHABAROVSK
SOVF01 BIRK	REYKJAVIK
SOVF01 EDZW	OFFENBACH
SOVF01 EGRR	BRACKNELL
SOVF01 ENMI	OSLO
SOVF01 ESWI	NORRKOPING
SOVF01 LFPW	TOULOUSE
SOVF02 BIRK	REYKJAVIK
SOVF02 EGRR	BRACKNELL
SOVF02 ESWI	NORRKOPING
SOVF10 RUMS	MOSCOW
SOVF10 UKMS	KYV
SOVJ01 EGRR	BRACKNELL
SOVJ02 EGRR	BRACKNELL
SOVJ10 RUM	MOLODEZNAJA
SOVX01 DEMS	NEW DELHI
SOVX01 EDZW	OFFENBACH
SOVX01 RJTD	TOKYO
SOVX02 DEMS	NEW DELHI
SOVX02 RJTD	TOKYO
SOVX10 RUHB	KHABAROVSK
SOVX10 RUMS	MOSCOW
SOVX11 RJTD	TOKYO
SOWB01 RJTD	TOKYO
SOWF01 ENMI	OSLO

## NEW GRID AND GRIB PRODUCTS

### Reference to: Resolution 40 (Cg-XII)

### WMO Policy and practice for the exchange of meteorological and related data and products including guidelines on relationships in commercial meteorological activities

#### NOTIFICATION FROM ECMWF

Effective 25 June 1996 ECMWF implemented the extension to the range of products available for dissemination over the GTS. These new products are considered to be "additional products" in the sense of implementation of the above Resolution.

These new products will be available in both GRID and GRIB code and will be 500 hPa height, 850 hPa temperature and Mean Sea Level pressure for both the Northern and Southern hemispheres at a forecast range of 7 days. For the Tropical Belt the 200 hPa u and v components (GRIB code) and wind speed and direction (GRID code) will be made available for forecast ranges of 4 and 5 days.

TTAAii	CCCC	YYGGgg	CLLLL	Product	Area
GHAS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	1 (NH)
GHBS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	2 (NH)
GHCS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	3 (NH)
GHDS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	4 (NH)
GHIS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	9 (SH)
GHJS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	10 (SH)
GHKS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	11 (SH)
GHLS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	12 (SH)
GTAS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	1 (NH)
GTBS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	2 (NH)
GTCS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	3 (NH)
GTDS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	4 (NH)
GTIS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	9 (SH)
GTJS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	10 (SH)
GTKS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	11 (SH)
GTLS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	12 (SH)
GPAS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	1 (NH)
GPBS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	2 (NH)
GPCS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	3 (NH)
GPDS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	4 (NH)
GPIS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	9 (SH)
GPJS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	10 (SH)
GPKS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	11 (SH)
GPLS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	12 (SH)
GWEM20	ECMF	YY1200	55555	200 hPa wind 96 hour forecast	5 (Trop)
GWFM20	ECMF	YY1200	55555	200 hPa wind 96 hour forecast	6 (Trop)
GWGM20	ECMF	YY1200	55555	200 hPa wind 96 hour forecast	7 (Trop)
GWHM20	ECMF	YY1200	55555	200 hPa wind 96 hour forecast	8 (Trop)
GWEO20	ECMF	YY1200	55555	200 hPa wind 120 hour forecast	5 (Trop)
GWFO20	ECMF	YY1200	55555	200 hPa wind 120 hour forecast	6 (Trop)
GWGO20	ECMF	YY1200	55555	200 hPa wind 120 hour forecast	7 (Trop)
GWHO20	ECMF	YY1200	55555	200 hPa wind 120 hour forecast	8 (Trop)

**III**

TTAAii	CCCC	YYGGgg	CLLLL	Product	Area
HHAS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	1 (NH)
HHBS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	2 (NH)
HHCS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	3 (NH)
HHDS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	4 (NH)
HHIS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	9 (SH)
HHJS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	10 (SH)
HHKS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	11 (SH)
HHLS50	ECMF	YY1200	55555	500 hPa geopotential 168 hour forecast	12 (SH)
HTAS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	1 (NH)
HTBS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	2 (NH)
HTCS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	3 (NH)
HTDS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	4 (NH)
HTIS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	9 (SH)
HTJS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	10 (SH)
HTKS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	11 (SH)
HTLS85	ECMF	YY1200	55555	850 hPa temperature 168 hour forecast	12 (SH)
HPAS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	1 (NH)
HPBS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	2 (NH)
HPCS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	3 (NH)
HPDS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	4 (NH)
HPIS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	9 (SH)
HPJS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	10 (SH)
HPKS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	11 (SH)
HPLS98	ECMF	YY1200	55555	MSL pressure 168 hour forecast	12 (SH)
HUEM20	ECMF	YY1200	55555	200 hPa u-wind 96 hour forecast	5 (Trop)
HUFM20	ECMF	YY1200	55555	200 hPa u-wind 96 hour forecast	6 (Trop)
HUGM20	ECMF	YY1200	55555	200 hPa u-wind 96 hour forecast	7 (Trop)
HUHM20	ECMF	YY1200	55555	200 hPa u-wind 96 hour forecast	8 (Trop)
HUEO20	ECMF	YY1200	55555	200 hPa u-wind 120 hour forecast	5 (Trop)
HUFO20	ECMF	YY1200	55555	200 hPa u-wind 120 hour forecast	6 (Trop)
HUGO20	ECMF	YY1200	55555	200 hPa u-wind 120 hour forecast	7 (Trop)
HUHO20	ECMF	YY1200	55555	200 hPa u-wind 120 hour forecast	8 (Trop)
HVEM20	ECMF	YY1200	55555	200 hPa v-wind 96 hour forecast	5 (Trop)
HVFM20	ECMF	YY1200	55555	200 hPa v-wind 96 hour forecast	6 (Trop)
HVGM20	ECMF	YY1200	55555	200 hPa v-wind 96 hour forecast	7 (Trop)
HVHM20	ECMF	YY1200	55555	200 hPa v-wind 96 hour forecast	8 (Trop)
HVEO20	ECMF	YY1200	55555	200 hPa v-wind 120 hour forecast	5 (Trop)
HVFO20	ECMF	YY1200	55555	200 hPa v-wind 120 hour forecast	6 (Trop)
HVGO20	ECMF	YY1200	55555	200 hPa v-wind 120 hour forecast	7 (Trop)
HVHO20	ECMF	YY1200	55555	200 hPa v-wind 120 hour forecast	8 (Trop)

**AMDAR BULLETINS**

**NOTIFICATION FROM FRANCE**

Since 1.VI.1996 METEO FRANCE inserts into the GTS, AMDAR bulletins with abbreviated headings:

UDFR01 LFPW

Wellington ZKLF, CHANGES effective 1.VII.96:

◆DELETE entry for: 0430, 1130, 1630, 2330

◆ADD the following new times of broadcast:

0330	15	Warnings SW Pacific
0500	30	Analysis Equator-35S IAC FLEET code
0530	15	Pacific forecasts and warnings
0830	30	Subtropic Forties warning forecast
0920	25	Warning situation forecast (Islands)
1530	15	Warnings SW Pacific
1800	30	Analysis Equator-35S IAC FLEET code
1930	20	Pacific forecast warnings
2120	25	Warning situation forecast (Islands)
2230	15	Subtropic Forties warning forecast

### Global monitoring of the operation of the WWW

#### Global monitoring of the operation of the WWW to be carried out in October 1996

The annual global monitoring of the operation of the WWW will be carried out from 1-15 October 1996. All GTS centres (i.e. NMCs, RTHs and WMCs) are requested to monitor at least the part of the global data set which they are responsible to collect and forward onto the GTS, i.e.:

- (a) NMCs should at least monitor observational data from their own territory;
- (b) RTHs should at least monitor observational data from their associated NMCs, and possibly from their own Region;
- (c) WMCs and RTHs on the MTN should monitor the complete global data set.

The global reference data set to be monitored comprises the reports from stations of the Regional Basic Synoptic Networks (RBSNs) for SYNOP, TEMP (RW), PILOT (W), CLIMAT and CLIMAT TEMP reports. SHIP, TEMP and PILOT SHIP, BUOY, AIREP, AMDAR and BATHY/TESAC/TRACKOB reports included in bulletins for global exchange are also to be monitored.

The lists of surface, radiowind/radiosonde and radiowind stations comprising the RBSNs, and the lists of abbreviated headings of bulletins for global exchange for SHIP, TEMP and PILOT SHIP, BUOY, AIREP, AMDAR and BATHY/TESAC/TRACKOB are compiled by the Secretariat. The Secretariat can send upon request these lists on floppy disks (3.5 inches - preferably - or 5.25 inches) as files in dBASE IV or ASCII format. These lists will also be made available in September 1996 on the WMO FTP Internet server ([www.wmo.ch](http://www.wmo.ch)); the relevant files will be under the subdirectory:

GTS\_monitoring/AGM/FROM\_WMO/96/.

# 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 Ai - Meteorological Broadcasts by Radiotelegraphy and Radiotelephony

#### Region V - New Caledonia, CHANGES effective 1.3.96:

◆ **CHANGE:**

Bulletins E and F to read: (8S-167E, 20S-175E, 29S-168E, 20S-158E)

**NOUMEA RADIO, Group D:**

Area Covered: Caledonian Lagoon, Vanuatu, South-West Pacific

**RADIO NOUMEA (RFO), Group B:**

◆ **CHANGE** "Station Name" and "Call Sign" (pages 7-9) to read: RFO-NOUVELLE-CALEDONIE

◆ **CHANGE** "Area Covered": New Caledonia, Caledonian Lagoon, Vanuatu, South-West Pacific.

0058	FM:	88.0 MHz	F3E	1 kW	In clear (French)	Bulletins I and K
		89.0 MHz	F3E	1 kW	In clear (French)	Bulletins I and K
		90.0 MHz	F3E	1 kW	In clear (French)	Bulletins I and K
		90.5 MHz	F3E	1 kW	In clear (French)	Bulletins I and K
		91.0 MHz	F3E	500 W	In clear (French)	Bulletins I and K
0728	FM:	88.0 MHz	F3E	1 kW	In clear (French)	Bulletins B,F,G and L
		89.0 MHz	F3E	1 kW	In clear (French)	Bulletins B,F,G and L
		90.0 MHz	F3E	1 kW	In clear (French)	Bulletins B,F,G and L
		90.5 MHz	F3E	1 kW	In clear (French)	Bulletins B,F,G and L
		91.0 MHz	F3E	500 W	In clear (French)	Bulletins B,F,G and L
0728	AM:	666 kHz	A3E	10 kW	In clear (French)	Bulletins B and F
1858	FM:	88.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		89.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		90.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		90.5 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		91.0 MHz	F3E	500 W	In clear (French)	Bulletins H and J
1958	FM:	88.0 MHz	F3E	1 kW	In clear (French)	Bulletins C,E,H and J
		89.0 MHz	F3E	1 kW	In clear (French)	Bulletins C,E,H and J
		90.0 MHz	F3E	1 kW	In clear (French)	Bulletins C,E,H and J
		90.5 MHz	F3E	1 kW	In clear (French)	Bulletins C,E,H and J
		91.0 MHz	F3E	500 W	In clear (French)	Bulletins C,E,H and J
1958	AM:	666 kHz	A3E	10 kW	In clear (French)	Bulletins C and E
2058, 2158	FM:	88.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		89.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		90.0 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		90.5 MHz	F3E	1 kW	In clear (French)	Bulletins H and J
		91.0 MHz	F3E	500 W	In clear (French)	Bulletins H and J

**Region VI - Germany**

Offenbach (Main) Pinneberg, DDH47 DDH9 DDH8, Group D, effective 21.VI.96:

◆REPLACE transmission times:  
1203 by 1218 UTC  
1220 by 1240 UTC

◆DELETE transmission time:  
1250 UTC

◆REPLACE in "Contents":  
"Repetition, see 1203" by "Repetition, see 1218"

**Part Aii**

**Meteorological Broadcasts by Radio-Facsimile**

**Region V - New Zealand**

Wellington ZKLF, CHANGES effective 1.VII.96:

◆DELETE entry for: 0430, 1130, 1630, 2330  
◆ADD the following new times of broadcast:

0330	15	Warnings SW Pacific
0500	30	Analysis Equator-35S IAC FLEET code
0530	15	Pacific forecasts and warnings
0830	30	Subtropic Forties warning forecast
0920	25	Warning situation forecast (Islands)
1530	15	Warnings SW Pacific
1800	30	Analysis Equator-35S IAC FLEET code
1930	20	Pacific forecast warnings
2120	25	Warning situation forecast (Islands)
2230	15	Subtropic Forties warning forecast

**GLOBAL MARITIME DISTRESS  
AND  
SAFETY SYSTEM (GMDSS)**

**Transmission Schedule for Full GMDSS Service**

Notification from India

Effective 1.VI.1996

To start with, this bulletin will contain meteorological warnings, synoptic features and forecasts (Part I and III) for METAREA VIII A (north of the equator) and would be broadcast once everyday at 0900 UTC from Indian CES at Arvi

METAREA	Issuing Service	Coast Earth Station	Satellite (Ocean Region)	Broadcast Schedule (UTC)
VIII North of Equator	India	Arvi	IOR	0900