

OPERATIONAL NEWSLETTER

VOLUME 1993 — No. 11

**OPERATION
OF THE
WORLD WEATHER WATCH
AND
MARINE METEOROLOGICAL SERVICES**

WORLD METEOROLOGICAL ORGANIZATION




Foreword

As you are aware, all the information on changes to the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) is being assembled and distributed by the Secretariat on a monthly basis to facilitate updating and follow-up action. In this connection we have created the "OPERATIONAL NEWSLETTER" to provide you with the latest operational information on WWW and MMS.

The CBS Advisory Working Group recommended that a special table should be added to the "OPERATIONAL NEWSLETTER" to report changes of the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations. You will note, therefore, that an item, 'Feed-back from Members to the Secretariat on any changes in the observing network' has been added to Annex I - *Global Observing System*.

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated.



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

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ORDER FORM

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

1. Publication No. 9, Volume A - Stations

1.1 New stations

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations								Obs. H		Upper-air				Remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18		
02569	Stavsjo	58° 44' N	16° 22' E	-	60		X	X	X	X	X	X	X	X							AUT
02574	SMHI	58° 35' N	16° 09' E	-	21		X	X	X	X	X	X	X	X							AUT
06239	F3	54° 51' N	04° 44' E	49	0		X	X	X	X	X	X	X	X	S0024						AUT
11055	Schaerding	48° 28' N	13° 26' E	315	318		.	.	.	.	.	.	.	.							AUT
11059	Wels/Schleissheim	48° 10' N	14° 04' E	314	312		.	.	.	.	.	.	.	.							AUT
11060	Linz/Stadt	48° 18' N	14° 17' E	262	263		.	.	.	.	.	.	.	.							AUT
11065	Liebenau	48° 32' N	14° 48' E	996	998		.	.	.	.	.	.	.	.							AUT
11078	Lilienfeld/Sulzer	48° 02' N	15° 35' E	681	681		X+	X+	X+	X	X	X	X	X+	H0222						AUT
11232	Feistritz Ob Bleiburg	46° 34' N	14° 46' E	-	527		.	.	X	.	X	.	X	.							AUT
11234	Eisenkappel	46° 29' N	14° 36' E	623	623		.	.	.	.	.	.	.	.							AUT
11248	Bad Radkersburg	46° 42' N	15° 59' E	-	208		.	.	.	.	.	.	.	.							AUT
11252	Virgen	47° 00' N	12° 27' E	1191	1198		X	X	X	X	X	X	X	X	H0023						AUT
11263	Weissensee/Gatschach	46° 43' N	13° 18' E	953	945		.	.	.	.	.	.	.	.							AUT
11322	Mayrhofen	47° 10' N	11° 51' E	-	650		.	.	.	.	.	.	.	.							AUT
11346	Rauris	47° 15' N	12° 50' E	917	916		.	.	.	.	.	.	.	.							AUT
11350	Salzburg/Freisaal	47° 47' N	13° 03' E	422	420		.	.	.	.	.	.	.	.							AUT
11356	Bad Aussee	47° 37' N	13° 47' E	661	665		.	.	.	.	.	.	.	.							AUT
11358	Bad Mitterndorf	47° 33' N	13° 57' E	802	804		.	.	.	.	.	.	.	.							AUT
11375	Aflenz	47° 33' N	15° 15' E	775	784		.	.	.	.	.	.	.	.							AUT
11385	Hohe Wand Hochkogelhaus	47° 49' N	16° 02' E	936	932		X+	X+	X	X+	X	X+	X	X+	H0223						AUT
42117	Chamoli	30° 24' N	79° 20' E	-	1160		.	X	.	.	X	.	.	.							
42701	M.O. Ranchi	23° 19' N	85° 19' E	652	-		.	.	.	.	.	.	.	.						RW P RW	

1.2 Deleted stations

Index No.	Name
02289	Sydostbrotten
02570	Norrkoping/Bravalla
02580	Stabbo

Index No.	Name
06385	De Peel
11233	St. Michael
42700	Ranchi

C. Information on operational status of elements of the surface-based sub-system (continued)
1.3 Changes to existing stations

Index No.	Name	Surface observations								Obs. H Obs. S	Upper-air				Re- marks	
		00	03	06	09	12	15	18	21		00	06	12	18		
02330	Hunge	X	X	X	X	X	X	X	.			.	.	.	.
02432	Orebro Flygplats	.	.	.	.	.	.	.	.			.	.	.	.
02668	Kungsholms Fort	.	X	.	.	.	.	.	.			.	.	.	.
11382	Puchberg	X+	X+	X	X+	X	X+	X	X+	H02-23		.	.	.	.	+AUT
42792	Sundargarh	.	X	.	.	X	.	.	.			.	.	.	.
78458	Puerto Plata	X	.	.	.	X	X	X	X			.	.	.	.
78467	Sabana de la Mar	X	.	.	.	X	X	X	X			.	.	.	.
78479	Punta Cana	X	.	.	.	X	X	X	X			.	.	.	.
78482	Barahona	X	.	.	.	X	X	X	X			.	.	.	.
78486	Santo Domingo	X	X	X	X	X	X	X	X			.	RW	.	.	

4. Automatic Marine Stations
KEY - OBSERVED OR TECHNICAL PARAMETERS

Column	Parameters	Column	Parameters
1	Wind direction and speed	7	Wave spectra
2	Air temperature	8	Peak wind gust
3	Air pressure	9	Subsurface temperatures
4	Pressure tendency	10	Relative humidity
5	Sea-surface temperature	11	Visibility
6	Wave period and height		

4.2 United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the November 1993 Data Platform Status Report of the Data Buoy Centre of the National Oceanic and Atmospheric Administration (NOAA). Data from moored buoys and platforms are collected by geostationary meteorological satellites and reports are distributed on the GTS in SHIP code. Data from drifting buoys are collected by the ARGOS system and distributed on the GTS in DRIFTER code.

4.2.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 11-18 Nov. 93		Observed or technical parameters											
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	
32302		18.0S	85.1W	X	X	X		X	X	X					
41001**		34.7N	72.7W	X	X	X		X	X	X					
41002**		32.3N	75.2W	X	X	X		X	X	X					
41004		32.5N	79.1W	X	X	X		X	X	X					
41006**		29.3N	77.4W	X	X	X		X	X	X					
41009		28.5N	80.2W	X	X	X		X	X	X					
41010		28.9N	78.5W	X	X	X		X	X	X					
41016		24.6N	76.5W	X	X	X		X	X	X					
42001**		25.9N	89.7W	X	X	X		X	X	X					

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

C. Information on operational status of elements of the surface-based sub-system (continued)

4. Automatic Marine Stations / 4.2 United States of America (continued)

4.2.1 Moored Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 11-18 Nov. 93		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
42002**		25.9N	93.6W	X	X	X		X	X	X				
42003**		25.9N	85.9W	X	X	X		X	X	X				
42007		30.1N	88.8W	X	X	X		X	.	.				
42019		27.9N	95.0W	X	X	X		X	X	X				
42020		27.0N	96.5W	X	X	X		X	X	X				
42025		24.9N	80.4W	.	X	.		X	X	X				
42035		29.2N	94.4W	X	X	X		X	X	X				
44004**		38.5N	70.7W	X	X	X		X	X	X				
44005**		42.6N	68.6W	X	X	X		X	X	X				
44007		43.5N	70.1W	X	X	X		X	X	X				
44008		40.5N	69.4W	X	X	X		X	X	X				
44009		38.5N	74.7W	X	X	X		X	X	X				
44011**		41.1N	66.6W	X	X	X		X	X	X				
44013		42.4N	70.7W	X	X	X		X	X	X				
44014		36.6N	74.8W	.	X	X		X	X	X				
44025		40.3N	73.2W	X	X	X		X	X	X				
45001**		48.0N	87.8W	X	X	X		X	X	X				
45002**		45.3N	86.4W	X	X	X		X	X	X				
45003**		45.3N	82.7W	X	X	X		X	X	X				
45004**		47.5N	86.5W	X	X	X		X	X	X				
45005**		41.7N	82.4W	X	X	X		X	X	X				
45006**		47.3N	89.9W	X	X	X		X	X	X				
45007**		42.7N	87.1W	X	X	X		X	X	X				
45008**		44.3N	82.4W	X	X	X		X	X	X				
45010		43.0N	87.8W	X	X	X		X	X	X				
46001**		56.3N	148.2W	X	X	X		X	X	X				
46002**		42.5N	130.3W	X	X	X		X	X	X				
46003**		51.9N	155.9W	X	X	X		X	X	X				
46005**		46.1N	131.0W	X	X	X		X	X	X				
46006**		40.9N	137.5W	X	X	X		X	X	X				
46012		37.4N	122.7W	X	X	X		X	X	X				
46013		38.2N	123.3W	X	X	X		X	X	X				
46014		39.2N	124.0W	X	X	X		X	X	X				
46022		40.7N	124.5W	X	X	X		X	X	X				
46023		34.3N	120.7W	X	X	X		X	X	X				
46025		33.7N	119.1W	X	X	X		X	.	.				
46026		37.7N	122.7W	X	X	X		X	X	X				
46027		41.9N	124.4W	X	X	X		X	X	X				
46028		35.8N	121.9W	X	X	X		.	X	X				
46029		46.2N	124.2W	X	X	X		X	X	X				
46030		40.4N	124.5W	X	X	X		X	X	X				

Sensor/system failure

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

C. Information on operational status of elements of the surface-based sub-system (continued)
4. Automatic Marine Stations / 4.2 United States of America (continued)
4.2.1 Moored Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 11-18 Nov. 93		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46035		57.0N	177.7W	X	X	X		X	X	X				
46041		47.4N	124.5W	X	X	X		X	X	X				
46042		36.8N	122.4W	X	X	X			X	X				
46045		33.8N	118.4W	X	X	X		X	X	X				
46050		44.6N	124.5W	X	X	X		X	X	X				
46051		34.5N	120.7W											
46053		34.2N	119.8W	X	X	X		X	X	X				
46054		34.3N	120.4W	X	X	X		X	X	X				
51001		23.4N	162.3W	X	X	X		X	X	X				
51002		17.2N	157.8W	X	X	X		X	X	X				
51003		19.1N	160.8W	X	X	X		X	X	X				
51004		17.4N	152.5W	X	X	X		X	X	X				
51026		21.4N	157.0W	X	X	X		X	X	X				
52009		13.7N	144.7E	X		X		X	X	X				

4.2.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 17-18 Nov. 93		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
17815	1965	52°S	071°E	.	X	+		X	.	.	.			
32811	17170	38°S	099°W	.	+	X		X	.	.	.			
32812	17171	20°S	110°W	.	X	X		X	.	.	.			
32813	17172	30°S	098°W	.	+	X		X	.	.	.			
32814	17161	33°S	104°W	.	+	X		X	.	.	.			
33833	1974	33°S	012°W	.	X	X		X	.	.	.			
33834	1979	33°S	003°E	.	X	X		X	.	.	.			
33838	17163	32°S	018°W	.	+	X		X	.	.	.			
33839	17164	38°S	041°W	.	+	X		X	.	.	.			
33840	17165	42°S	029°W	.	+	X		X	.	.	.			
33841	17166	35°S	016°W	.	+	X		X	.	.	.			
33842	17167	47°S	005°W	.	+	X		X	.	.	.			
53823	5131	08°S	114°E	.	+	X		+	.	.	.			
53824	1989	10°S	089°E	.	X	X		X	.	.	.			
54801	1973	21°S	146°W	.	X	X		X	.	.	.			
54802	1993	27°S	135°W	.	X	X		X	.	.	X			
54844	17168	32°S	120°W	.	+	X		X	.	.	.			
54846	1969	29°S	168°E	.	X	X		X	.	.	.			
56801	5130	29°S	050°E	.	X	X		X	.	.	.			
56802	5119	05°S	061°E	.	X	X		X	.	.	.			
56803	1994	20°S	058°E	.	X	X		+	.	.	.			

* Sensor/system failure

+ Sensor failure

C. Information on operational status of elements of the surface-based sub-system (continued)

4. Automatic Marine Stations (continued)

4.4 United Kingdom of Great Britain and Northern Ireland

List of drifting and moored data buoys operated by the: Operational Instrumentation Branch,
 Meteorological Office,
 Beaufort park,
 Easthampstead,
 WOKINGHAM
 Berkshire RG11 3DN,
 United Kingdom.

4.4.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 23 Nov. 93		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°10'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	
62029		48°43'N	12°25'W	X	X	X	X	X	X		X		X	
62081		51°02'N	13°21'W	X	X	X	X	X			X		X	
62101		50°37'N	02°44'W	X	X	X	X	X					X	
62103**		49°55'N	02°53'W	X	X	X	X	X	X		X		X	X
62105		55°59'N	14°11'W	X	X	X	X	X	X		X		X	
62108		53°12'N	15°04'W	X	X	X	X	X	X		X		X	
62112*		58°42'N	01°17'E	X	X	X	X				X		X	
62118*		57°45'N	00°55'E	X	X	X	X				X		X	
62124*		54°35'N	01°26'E	X	X	X	X				X		X	
62126*		58°51'N	03°35'W	X	X	X	X				X		X	
62129*		53°03'N	02°14'E	X	X	X	X				X		X	
62301		52°10'N	05°05'W	X	X	X	X	X					X	
62302		54°08'N	03°37'W	X	X	X	X						X	X
62304**		51°00'N	01°47'E	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	

4.4.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 23 November 93		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
25013	4065+	80.65N	08.97E		X	X	X							
44614	2959	56.09N	39.89W		X	X	X	X						
44616	2963	53.87N	43.02W		X	X	X	X						
44765	1255	64.12N	21.90W		X	X		X						

* Fixed platforms
 ** Automatic light vessels
 + Ice drifter

C. Information on operational status of elements of the surface-based sub-system (continued)

4. Automatic Marine Stations / 4.4 United Kingdom of Great Britain and Northern Ireland (continued)

4.4.2 Drifting Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 23 Nov. 93		Observed or technical parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44772	2960	66.92N	30.00W		X			X						
44775	2962	43.41N	12.89W		X	X	X	X						
44777	1257	63.55N	25.99W		X	X	X	X						
44778	1259	56.09N	39.89W		X	X	X	X						
44779	1260	54.46N	30.78W		X	X	X	X						
62524	4625	39.74N	27.60W		X	X	X	X						
62694	2958	33.70N	19.11W		X	X	X	X						
62695	2956	38.57N	32.09W	X	X	X	X	X						
62711	1258	57.73N	35.31W		X	X	X	X						
62712	1247	65.87N	33.93W	X	X	X	X	X						
62805	6285	31.89N	52.26W		X	X		X						

5. ARGOS Service

5.1 ARGOS monthly status report

Date of statistics computation : 1 November 1993

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

Drifting Buoy	:	1085
Boat (<20knots)	:	0
Marine Station	:	3
Moored Buoy	:	277
Terrestrial Animal	:	107
Marine Animal	:	80
Balloons	:	5
Birds	:	57
Fixed Station	:	425
TOTAL		: 2039

C. Information on operational status of elements of the surface-based sub-system (continued)

5. ARGOS Service 5.1 ARGOS monthly status report (continued)

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

Transmission to RTH Paris:

Boat (less than 20 knots)	:	3
Drifting Buoys	:	147
Fixed Stations	:	7
Marine Stations	:	2
Moored Buoys	:	2
Synoptic PTT		1

Transmission to NWS Washington:

Drifting Buoys	:	494
Fixed Stations	:	4
High Speed	:	3
Moored Buoys	:	73

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

DRIFTER =	148941
SHIP =	212
SYNOP =	1995
TOTAL:	151148

- ATLAS buoys

The ATLAS buoys are now processed by the GTS standard processing sub-system. Therefore they are included in the report and not listed separately.

8. Feed-back from Members to the Secretariat on any changes in the observing network

In view of the difficulties experienced at present in identifying non-implemented observing stations or implemented stations which are closed or suspended for a certain period, or stations making observations but not reaching their NMCs, the ninth session of the CBS Advisory Working Group recommended that a special table be added to the WWW monthly "OPERATIONAL NEWSLETTER" to serve as feed-back from Members to the Secretariat on any changes of the present state of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations.

The special table, accompanied by explanatory notes (see Appendix, pages 1 and 2) is attached at the end of this annex. Members are urged to fill in this appendix, as and when appropriate, and to return it to the Secretariat before the 1st of each month to enable changes to be included in the next "OPERATIONAL NEWSLETTER"

D. INFORMATION ON OPERATIONAL STATUS OF THE SPACE SUB-SYSTEM

STATUS REPORT

GEOSTATIONARY SATELLITES

GOES-7

VAS operations, mode AAA, with MSI at 01 and 31 minutes past each hour. WEFAX broadcasts: simultaneous, see operational message broadcast at 1055 UTC and 1100 UTC for schedule. VAS calibration (on-line):

- 1) visible calibration - MSI (800 lines) at 1820 UTC each Wednesday.
- 2) IR calibration: available each picture.

XADC spacecraft — METEOSAT-3 Extended Atlantic Data Coverage

METEOSAT-3 is currently located close to 75 degrees West. Digital data (IR,WV, half res vis) at xx30 and xx58 UTC. Additional WV at xx42 UTC from 1142 UTC through 2350 UTC. There is one channel containing a mixture of WEFAX and digital image data using the frequency 1691 MHz. WEFAX at xx10 and xx42 UTC except when ranging every 3 hours beginning at 0118 UTC. DCS: international channels only.

METEOSAT-4

Currently the operational satellite at the nominal position. With effect from 1 September 1993, all AVHRR formats are removed from the METEOSAT-4 schedule.

Encryption of METEOSAT High Resolution Image (HRI) data

EUMETSAT is currently developing the design of the HRI encryption infrastructure. It is expected that the first data encryption module will be implemented at the primary METEOSAT uplink in Germany by the beginning of 1994.

POLAR-ORBITING SATELLITES

NOAA-9: (standby)

Launched 12 December 1984, morning descending, 1353 days operational, AVHRR(HRPT,APT),SSU,DCS,SBUV,SAR. 4 Passes a day scheduled.

NOAA-10: (standby)

Launched 17 September 1986, morning descending, 1763 days operational, AVHRR(HRPT,APT),DCS,MSU,SAR,SEM.

NOAA 11: (operational)

Launched 24 September 1988, afternoon ascending, 1787 days operational, AVHRR(HRPT,APT),SSU,DCS,SBUV,SAR. NOAA-11 is still experiencing difficulty in the inertial measurement unit (IMU).

NOAA-12: (operational)

Launched 14 May 1991, morning descending, 745 days operational. AVHRR(HRPT,APT),SSU,DCS,MSU and SEM.

Transmit frequencies

NOAA Satellite	HRPT	APT	BCN
NOAA-9	1707(HSB)	137.62(VTX2)	137.77(BTX2)
NOAA-10	1698(LSB)	137.50(VTX1)	136.77(BTX1)
NOAA-11	1707(HSB)	137.62(VTX2)	137.77(BTX2)
NOAA-12	1698(LSB)	137.50(VTX1)	136.77(BTX1)

FEED-BACK FROM MEMBERS TO THE SECRETARIAT ON ANY CHANGES IN THE OBSERVING NETWORK

Explanatory Notes

1. Separate tables should be prepared for global exchange and regional exchange respectively. These tables should contain information concerning any changes of the present state of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations given in Attachment I-4 of the *Manual on the GTS*, Volume I for global exchange and, as applicable, Attachments AF-1, AI-1, SA-1, NA-1, PS-1 and EU-1 of the *Manual on the GTS*, Volume II for regional exchange.
2. For entries in these tables, the following should be taken into account:
 - (a) In the column "*Station index number*", the index number (Iliiii) of each station should be entered in case of any changes in the observing programmes of the stations;
 - (b) In the column "*Bulletin identification*", the TTAii CCC of the abbreviated heading of the meteorological bulletins which contains reports from the station should be inserted;
 - (c) In the column "*Implementation of observing programme*", "X" for implementation and "-" for non-implementation should be inserted as appropriate. In order to easily identify changes in the programme, this should be marked in red;
 - (d) In the column "*Alternate observing station*", the index number (Ilii) of an alternate observing station should be inserted in case another station is available with a view to filling gaps which are caused by suspension of observing programmes of the original station;
 - (e) The required information concerning the observing programme of the alternate station should be inserted in the next horizontal line of the original station;
 - (f) In the column "*Remarks*", reasons of 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.
3. These tables should be sent to the Secretariat before the 1st of the month for inclusion of the changes in the monthly "OPERATIONAL NEWSLETTER", as appropriate.

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