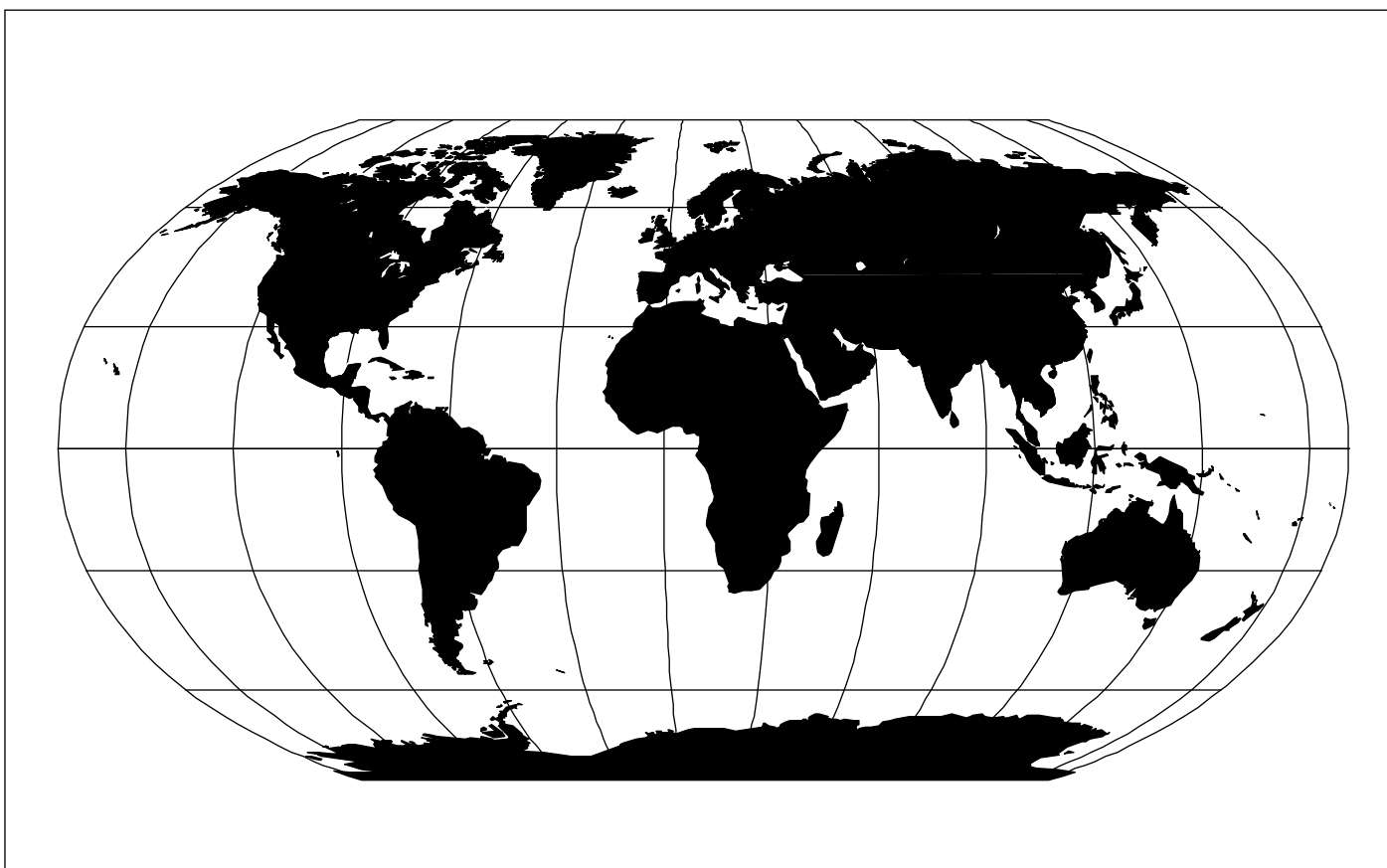


OPERATIONAL NEWSLETTER

VOLUME 1997

No. 11/12 - NOVEMBER/DECEMBER 1997

WORLD WEATHER WATCH



WORLD METEOROLOGICAL ORGANIZATION
GENEVA
SWITZERLAND

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



EDITORIAL

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

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

A feedback form is included in the Newsletter to assist WMO Members in reporting changes in the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations.

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

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

For access via FTP:

<ftp://www.wmo.ch/wmo-ddbs/>

For access via http:

<http://www.wmo.ch/web/ddbs/opnews.html>

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/prodindex/Acrobat/readstep.html>

We apologize to those readers who may have experienced difficulties with our electronic version of the 11/12 1996 Newsletter produced in .html. You may be pleased to know that this was done on a trial basis. This year we hope to keep to our standard format of .pdf.

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

PWOI@WWW.WMO.CH

We look forward to hearing from you.

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

SEASON'S GREETINGS

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WMO Publication No. 9

Volume A - *Observing Stations* and Volume C1 - *Catalogue of Meteorological Bulletins*

We are pleased to inform you that the new restructured data base used for WMO Publication No. 9, Volume A - *Observing Stations* and Volume C1 - *Catalogue of Meteorological Bulletins* has been successfully moved from its former external mainframe platform to a new in-house platform. The restructuring and move has eliminated many of the procedures and obstacles that made the previous system slow and cumbersome. The Secretariat now has the capability to maintain and update the data on a near-real-time basis, and provide much greater flexibility for dissemination.

Currently, a programme is being implemented to update both Volumes A and C1 weekly. The newly updated data will be made available every Monday via the Internet and the data file can be accessed via the WMO home page at the following sites:

For Volume A: <http://www.wmo.ch/wmo-ddbs/Pub9volAyymmdd.flatfile>

For Volume C: <http://www.wmo.ch/wmo-ddbs/Pub9volCyymmdd.flatfile>

(where yy=year, mm=month of the year, dd= day of the month)

The information will also be available in printed form, through the Secretariat at the e-mail: PWOI@www.wmo.ch or by fax: +41 (0) 22 734 23 26. Please specify your requirements and to whom the print-out should be addressed.

We take this opportunity to remind our Readers that in order for the information published in the WMO operational publications to be reliable and up-to-date, the Secretariat must receive periodical updates from Members, who are urged to notify the Secretariat as changes occur.

We trust that this new service will be of assistance to all and look forward to receiving requests and/or comments.

I. Global Observing System

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

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".

AUTOMATIC MARINE STATIONS

KEY: Observed or Technical Parameters

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

I.

CANADA
Moored Buoys

North-east Pacific Ocean (SNVD17& SXC�50 CWVR, SNVD04 CWEG)

WMO Buoy Identifier	ARGOS Identifier	Position: 1 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46004	6267	50 58' N	135 48' W	X	X	X	X	X	X	X	N/A	-	-	-
46036	7180	48 21' N	133 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46131	N/A	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	7183	54 23' N	132 26' W	X	X	X	X	X	X	X	N/A	-	-	-
46146	N/A	49 20' N	123 44' W	X	X	X	X	X	X	X	N/A	-	-	-
46147	7186	51 49' N	131 12' W	X	X	X	X	X	X	X	N/A	-	-	-
46181	N/A	53 50' N	128 50' W	X	X	X	X	S	X	X	N/A	-	-	-
46183	8678	53 37' N	131 06' W	X	X	X	X	X	X	X	N/A	-	-	-
46184	6268	53 54' N	138 52' W	X	X	X	X	X	X	X	N/A	-	-	-
46185	8677	52 24' N	129 47' W	X	X	X	X	X	X	X	N/A	-	-	-
46204	4484	51 22' N	128 45' W	X	X	X	X	X	X	X	N/A	-	-	-
46205	7184	54 10' N	134 20' W	X	X	X	X	X	X	X	N/A	-	-	-
46206	7196	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	4485	52 30' N	132 42' W	X	X	X	X	X	X	X	N/A	-	-	-

North-west Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 1 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44131	N/A			.	.	.	.	.	.	.	N/A	-	-	-
44137	5579	41 48' N	059 56' W	S	S	S	S	S	S	S	N/A	-	-	-
44138	5577	44 16' N	053 37' W	X	X	X	X	X	X	X	N/A	-	-	-
44139	3448	44 12' N	057 30' W	S	S	S	S	S	S	S	N/A	-	-	-
44140	N/A	42 30' N	051 20' W	.	.	.	.	.	.	.	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	X	X	X	X	X	X	X	N/A	-	-	-
44153	2078	46 44' N	048 48' W	X	X	X	X	X	X	X	N/A	-	-	-

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

WMO Buoy Identifier	ARGOS Identifier	Position: 1 December 1997		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	.	.	.	.	.	.	.	N/A	-	-	-
45138	3436	49 33' N	065 45' W	.	.	.	.	.	.	.	N/A	-	-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	S	X	X	N/A	-	-	-
45140	3439	50 47' N	096 44' W	.	.	.	.	.	.	.	N/A	-	-	-
45141	N/A	61 06' N	115 11' W	.	.	.	.	.	.	.	N/A	-	-	-
45142	N/A	42 44' N	079 17' W	.	.	.	.	.	.	.	N/A	-	-	-
45143	N/A	44 55' N	080 38' W	.	.	.	.	.	.	.	N/A	-	-	-
45144	8671	53 23' N	098 29' W	.	.	.	.	.	.	.	N/A	-	-	-

Drifting Buoys

Pacific Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 1 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46641	12511	47 06' N	159 48' W	.	X	X	X	X	.	.	X	-	-	-
46692	12513	45 12' N	159 48' W	X	X	X	X	X	.	.	X	-	-	-
46695	7140	60 00' N	144 18' W	.	S	X	X	X	.	.	X	-	-	-
46701	8674	49 36' N	139 54' W	X	X	X	X	X	.	.	X	-	-	-
46707	12514	51 06' N	128 06' W	X	X	X	X	X	.	.	X	-	-	-

REMARKS:

44131 lost at sea.

44153 buoy adrift, experimental SWS-2 ODAS buoy

Failed buoys:

44137 - Oct. 15

44139 - Nov. 22

Removed for the winter:

45137, 45142, 45143 - Nov. 30

45138 - Nov. 20

45140 - Oct. 15

45141 - Oct. 21

45144 - Oct. 29

UNITED STATES OF AMERICA

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

Buoy Centre of the National Oceanic and Atmospheric Administration (NOAA) on 12 December 1997. Data 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.

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 4-11 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.68N	72.64W	S	X	X	-	X	S	S	-	-	-	-
41002*		32.27N	75.19W	X	X	X	-	X	X	X	-	-	-	-
41004		32.51N	79.10W	X	X	X	-	S	X	X	-	-	-	-
41008*		31.40N	80.87W	X	X	X	-	X	X	X	-	-	-	-
41009		28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-
41010		28.90N	78.53W	R	R	R	-	R	R	R	-	-	-	-
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	S	X	-	X	X	X	-	-	-	-
42007		30.09N	88.77W	X	X	X	-	X	X	X	-	-	-	-
42019		27.92N	95.35W	X	X	X	-	X	X	X	-	-	-	-
42020		26.92N	96.70W	X	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	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	R	R	R	-	R	R	R	-	-	-	-
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	S	S	S	-	S	S	S	-	-	-	-

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

WMO Buoy Identifier	ARGOS Identifier	Position: 4-11 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44025		40.25N	73.17W	X	X	X	-	X	X	X	-	-	-	-
45001*		48.06N	87.78W	R	R	R	-	R	R	R	-	-	-	-
45002*		45.30N	86.42W	R	R	R	-	R	R	R	-	-	-	-
45003*		45.32N	82.77W	R	R	R	-	R	R	R	-	-	-	-
45004*		47.56N	86.55W	R	R	R	-	R	R	R	-	-	-	-
45005*		41.68N	82.40W	R	R	R	-	R	R	R	-	-	-	-
45006*		47.32N	89.87W	R	R	R	-	R	R	R	-	-	-	-
45007*		42.68N	87.03W	R	R	R	-	R	R	R	-	-	-	-
45008*		44.28N	82.42W	R	R	R	-	R	R	R	-	-	-	-
45011		43.02N	86.27W	R	R	R	-	R	R	R	-	-	-	-
46001*		56.30N	148.17W	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	S	X	-	X	X	X	-	-	-	-
46006*		40.84N	137.49W	S	S	S	-	S	S	S	-	-	-	-
46011		34.88N	120.87W	X	X	X	-	X	X	X	-	-	-	-
46012		37.39N	122.73W	S	S	S	-	S	S	S	-	-	-	-
46013		38.23N	123.30W	R	R	R	-	R	R	R	-	-	-	-
46014		39.22N	123.97W	X	X	X	-	X	X	X	-	-	-	-
46022		40.74N	124.51W	X	X	X	-	X	X	X	-	-	-	-
46023		34.71N	120.97W	X	X	X	-	X	X	X	-	-	-	-
46025		33.75N	119.08W	X	X	X	-	X	X	X	-	-	-	-
46026*		37.75N	122.82W	X	X	X	-	S	X	X	-	-	-	-
46027		41.85N	124.39W	R	R	R	-	R	R	R	-	-	-	-
46028		35.74N	121.88W	R	R	R	-	R	R	R	-	-	-	-
46029*		46.18N	124.19W	S	S	X	-	S	X	X	-	-	-	-
46030		40.42N	124.53W	S	S	S	-	S	S	S	-	-	-	-
46035		56.91N	177.81W	X	X	X	-	X	X	X	-	-	-	-
46041		47.42N	124.52W	S	S	S	-	S	S	S	-	-	-	-
46042		36.75N	122.41W	R	R	R	-	R	R	R	-	-	-	-
46045		33.84N	118.45W	X	X	X	-	X	X	X	-	-	-	-
46050		44.62N	124.53W	X	X	X	-	X	X	X	-	-	-	-
46054		34.27N	120.45W	X	X	X	-	X	X	X	-	-	-	-
46059		37.98N	130.00W	X	X	X	-	X	X	X	-	-	-	-
46060		60.58N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46061		60.22N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46062		35.10N	121.01W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.40N	162.27W	S	S	S	-	S	S	S	-	-	-	-
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	-	S	X	X	-	-	-	-
51028		.00N	153.88W	X	X	X	-	X	X	X	-	-	-	-

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

REMARKS:

Total Base Funded Buoys : 30

Total Other Buoys : 36

Total Moored Buoys : 66

I.

REMARKS:

- 41001 - Wind data failed 2 September 1997, wave data failed 3 November 1997.
- 41004 - Water temp data failed 2 February 1997.
- 41010 - Buoy adrift 28 November 1997, recovered to port 30 November 1997.
- 42003 - Air temp data failed 6 September 1997.
- 44004 - Parity errors in data.
- 44005 - Buoy adrift 2 December 1997, recovered to port 4 December 1997.
- 44008 - Water temp data failed 12 December 1997.
- 44014 - Station failed 20 October 1997.
- 45001 - Buoy recovered for winter 30 October 1997.
- 45002 - Buoy recovered for winter 3 November 1997.
- 45003 - Buoy recovered for winter 4 November 1997.
- 45004 - Buoy recovered for winter 30 October 1997.
- 45005 - Buoy recovered for winter 28 October 1997.
- 45006 - Buoy recovered for winter 30 October 1997.
- 45007 - Buoy recovered for winter 24 November 1997.
- 45008 - Buoy recovered for winter 10 November 1997.
- 45011 - Buoy recovered for winter 24 November 1997.
- 46003 - Buoy failed 2 December 1997, restored 9 December 1997
- 46005 - Air temp data failed 19 November 1997.
- 46006 - Station failed 7 July 1997, service scheduled week of 5 January 1998.
- 46012 - Water temp failed 23 October 1996, station failed 12 July 1997.
- 46013 - Buoy recovered to port 4 November 1997.
- 46026 - Water temp data failed 24 November 1997.
- 46027 - Buoy adrift and beached 4 October 1997, recovered to port 9 October 1997.
- 46028 - Buoy adrift 17 July 1997, recovered to port 22 July 1997.
- 46029 - Air temp data failed 26 June 1997, water temp data failed 17 November 1997 wind data failed 2 December 1997
- 46030 - Station failed 22 October 1997
- 46041 - Air temp data failed 2 June 1996, station failed 14 June 1997.
- 46042 - Buoy adrift 25 October 1997, recovered to port 28 October 1997.
- 51001 - Station failed 19 November 1997, pressure, waves, and water temp data restored 11 December 1997.
- 51004 - Water temp data failed 25 April 1996.

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 11 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41611	23635	28°N	095°W	X	X	X	-	X	N	N	N	-	-	-

REMARKS:

41611 - Wind direction failed 11 May 1997

**AUSTRALIA
Shipboard DCP**

WMO Buoy Identifier	ARGOS Identifier	Position: 30 November 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
55513	11581	-37.816	144.907	-	X	X	-	-	-	-	-	-	-	-
55515	11580	-4.218	152.16	-	X	X	-	-	-	-	-	-	-	-
55521	7866	-46.195	145.657	-	X	X	-	-	-	-	-	-	-	-
55524	11662	-34.831	138.513	-	X	X	-	-	-	-	-	-	-	-

Drifting Buoys Drogued

WMO Buoy Identifier	ARGOS Identifier	Position: 30 November 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
52624	2942	-14.019	139.007	X	X	X	X	X	-	-	-	-	-	-
53548	17179	-19.94	64.86	-	X	X	-	X	-	-	-	-	-	-
56521	2934	-43.694	-128.59	-	-	S	-	X	-	-	-	-	-	-
56529	4873	-27.617	86.996	-	-	X	-	X	-	-	-	-	-	-
56531	4872	-27.383	94.631	-	-	X	-	X	-	-	-	-	-	-
56532	2949	-36.029	122.389	-	X	X	X	X	-	-	-	-	-	-
56533	2948	-44.299	155.629	-	X	X	X	X	-	-	-	-	-	-
56535	2939	-54.898	121.465	-	X	X	X	X	-	-	-	-	-	-
56537	2930	-18.107	111.705	X	X	X	X	X	-	-	-	-	-	-

I.

FRANCE

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 15 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
15001*	-	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-
15002*	-	0.0S	10.0W	S	S	-	-	S	-	-	-	S	-	-
41096	05833	16.5N	61.5W	-	-	-	-	X	X	.	-	-	-	-
41097	05832	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-
41098	05834	14.6N	60.8W	-	-	-	-	X	X	.	-	-	-	-
62163**	-	47.5N	8.5W	X	X	X	X	X	X	-	-	-	X	-

* Pirata project

** Cooperation UK Met. Office/Météo-France

Drifting Buoys
Indian and Pacific Oceans

WMO Buoy Identifier	ARGOS Identifier	Position: 15 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16537	5791	40.4S	102.1E	X	-	X	X	X	-	-	-	-	-	-
16538	27934	50.5S	85.0E	-	-	X	X	X	-	-	X	-	-	-
23581	14418	6.3S	67.6E	X	-	X	X	X	-	-	-	-	-	-
23582	14419	2.2S	76.2E	X	-	X	X	X	-	-	-	-	-	-
23584	5880	2.2N	81.9E	X	-	X	-	X	-	-	X	-	-	-
51682	5245	15.6S	144.5W	-	-	X	X	X	-	-	X	-	-	-
51684	5247	10.2S	143.4W	-	-	X	X	X	-	-	X	-	-	-

Tropical Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 15 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
13531	22320	7.9N	31.1W	-	-	-	-	X	-	-	X	-	-	-
13532	22321	1.1S	45.2W	-	-	-	-	X	-	-	X	-	-	-
13536	1610	11.4N	51.1W	-	-	-	-	X	-	-	X	-	-	-
13537	1611	0.5N	5.7E	-	-	-	-	X	-	-	X	-	-	-
13538	1612	3.8N	9.6W	-	-	-	-	X	-	-	X	-	-	-
13539	1613	9.0N	36.1W	-	-	-	-	X	-	-	X	-	-	-
13540	1614	7.1N	32.3W	-	-	-	-	X	-	-	X	-	-	-

North Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 15 December 1997		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44608	27938	53.6N	21.4W	-	-	S	S	S	-	-	S	-	-	-
44609	5879	53.1N	41.9W	X	-	X	-	X	-	-	X	-	-	-
44610	5881	47.4N	47.7W	X	-	X	-	X	-	-	X	-	-	-
62515	14426	44.5N	16.5W	-	-	X	X	X	-	-	X	-	-	-
62552	03008	56.8N	11.6W	X	X	X	X	X	-	-	-	-	-	-
62553	03009	51.0N	23.3W	X	X	X	X	X	-	-	-	-	-	-
62554	14430	54.6N	13.5W	-	-	X	X	X	-	-	-	-	-	-
62555	27932	44.7N	14.1W	-	-	X	X	X	-	-	X	-	-	-
62556	27935	48.9N	24.2W	-	-	X	X	X	-	-	X	-	-	-
62557	27930	45.8N	21.8W	-	-	X	X	X	-	-	X	-	-	-
62558	27931	52.2N	18.4W	-	-	X	X	X	-	-	X	-	-	-
62560	15507	52.5N	16.0W	S	-	-	-	X	-	-	-	X	-	-
62562	15512	50.7N	17.0W	S	-	-	-	S	-	-	-	S	-	-
62563	15517	47.8N	14.4W	S	-	-	-	X	-	-	-	X	-	-
62564	15518	48.0N	17.9W	S	-	-	-	S	-	-	-	S	-	-
62567	15527	46.5N	12.9W	X	-	-	-	X	-	-	-	X	-	-

Remaks: Buoys WMO 62559, 62561, 62565, 62566, 62558, 62569 and 62570 were retrieved.

ARGOS SERVICE

**ARGOS
Monthly Status Report**

Date of statistics
computation:
2 December 1997

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

Drifting Buoys	1290
Boats (<20 knots)	-
Marine Stations	177
Moored Buoys	300
Fixed Stations	582
Marine Animals	174
Terrestrial Animals	66
Birds	101
Balloons	2
Rafos Floats	-
TOTAL:	2692

• 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	135
Fixed Stations	21
Moored Buoys	7
XBT Ships	13

Inserted by RTH/WMC Washington:

Drifting Buoys	427
Fixed Stations	40
Moored Buoys	63
XBT Ships	-

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

BATHY	287
BUOY	215047
SHIP:	477
SYNOP:	28383
TOTAL:	244194

I.

Volume A - Observing Stations

INDEX NUMBER	NAME	POSITION		ELEVATION HP	PRESSURE H/HA	SURFACE LEVEL	OBSERVATIONS								OBS.H OBS.S	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.				#	#	#	#	#	#	#	#		#	#	#	#	
REGION I - MOROCCO																				
CHANGES																				
60105	LARACHE	35 11N	06 08W	49	47	.	.	X	X	X	X	X	X	H06-21	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60106	CHEFCHAOUEN	35 04N	05 18W	305	300	.	.	X	X	X	X	X	X	H06-18	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60107	AL HOCEIMA	35 11N	03 51W	14	27	X	X	X	X	X	X	X	X	H00-24	.	.	.	.
60115	OIJDA	34 47N	01 56W	470	468	X	X	X	X	X	X	X	X	S00-24	.	.	P	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR	
60127	TAZA	34 13N	04 00W	510	509	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60135	RABAT-SALE	34 03N	06 46W	79	84	X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR
60146	MOHAMMEDIA	33 43N	07 24W	5	4	.	.	.	X	X	X	X	.	H07-18	.	.	.	.	EVAP;SOILTEMP;SUNDUR
60150	MEKNES	33 53N	05 32W	560	576	X	X	X	X	X	X	X	X	H00-24	.	.	P	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR	
60155	CASABLANCA	33 34N	07 40W	58	62	X	X	X	X	X	X	X	X	H00-24	RW	P	.	P	A;CLIMAT(CT);EVAP;M/B;OZONE;SOILTEMP;SUNDUR;TOTRA;WT	
60160	IFRANE	33 30N	05 10W	1665	1664	850	HPA	X	X	X	X	X	X	X	H00-24	A;EVAP;M/B;SOILTEMP;SUNDUR
60165	EL JADIDA	33 14N	08 31W	28	27	.	.	X	X	X	X	X	X	H06-21	.	.	.	.	A;EVAP;M/B;SOILTEMP;SUNDUR
60178	KHOURIBGA	32 52N	06 58W	781	771	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60190	KASBA-TADLA	32 32N	06 17W	518	518	.	.	X	X	X	X	X	X	H06-21	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60191	BENI-MELLAL	32 22N	06 24W	472	468	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60195	MIDELT	32 41N	04 44W	1515	1508	850	HPA	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR
60200	BOUARFA	32 34N	01 57W	1143	1142	850	HPA	.	.	X	X	X	X	X	H06-18	EVAP;M/B;SOILTEMP;SUNDUR
60210	ERRACHIDIA	31 56N	04 24W	1042	1034	850	HPA	X	X	X	X	X	X	H00-24	.	.	.	.	A;EVAP;M/B;SOILTEMP;SUNDUR
60220	ESSAOUIRA	31 31N	09 47W	8	15	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C);EVAP;SUNDUR
60230	MARRAKECH	31 37N	08 02W	466	468	X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR
60250	AGADIR	30 23N	09 34W	23	27	.	.	.	X	X	X	X	.	H07-20	.	.	.	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR
60252	AGADIR AL MASSIRA	30 20N	09 24W	74	76	X	X	X	X	X	X	X	X	S00-24	RW	.	.	.	A;CLIMAT(T);EVAP;M/B;SOILTEMP;SUNDUR;WT	
60253	TAROUDANT	30 30N	08 49W	266	264	.	.	X	X	X	X	X	.	H06-18	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60265	OUARZAZATE	30 56N	06 54W	1140	1139	850	HPA	X	X	X	X	X	X	H00-24	.	.	.	.	A;CLIMAT(C);EVAP;M/B;SOILTEMP;SUNDUR
60270	TIZNIT	29 41N	09 44W	261	261	.	.	X	X	X	X	X	.	H06-18	.	.	.	.	EVAP;M/B;SOILTEMP;SUNDUR
60280	GUELMIN	29 01N	10 03W	301	300	.	.	X	X	X	X	X	.	H06-18	.	.	.	.	A;EVAP;M/B;SOILTEMP;SUNDUR
60285	TAN-TAN	28 27N	11 09W	204	199	.	.	X	X	X	X	X	X	H06-21	.	.	.	.	A;EVAP;M/B;SOILTEMP;SUNDUR
60340	NADOR	35 09N	02 55W	16	7	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;EVAP;M/B;SOILTEMP;SUNDUR
DELETED																				
60275	ZAGORA																			
60289	TARFAYA																			
REGION I - EGYPT																				
CHANGES																				
62309	DABAA	30 56N	28 28E	18	17	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	M/B(06-18);SOILTEMP
REGION I - SEYCHELLES																				
CHANGES																				
63980	SEYCHELLES INTERNATIONAL AIRPORT	04 40S	55 31E	3	3	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;CLIMAT(C);EVAP;M/B;METAR;SOILTEMP;SOLRA;SPECI; SUNDUR
63995	ALDABRA	09 21S	46 32E	4	4	.	.	.	.	.	.	.	.		.	.	.	.

I.

INDEX	POSITION	ELEVATION	PRESSURE SURFACE	OBSERVATIONS	OBS.H	UPPER-AIR	OTHER OBSERVATIONS AND REMARKS										
NUMBER	NAME	LAT.	LONG.	HP	H/HA	LEVEL	#	#	#	#	#	#	#	#	#	#	#
REGION I - BOTSWANA																	
NEW																	
68030	PANDAMATENGA	18 32S	25 38E	1071			.	.	.	.	.	.	.	.	.	.	.
68056	SELIBE-PHIKWE	22 03S	27 49E	939			.	.	.	.	.	.	.	.	.	.	.
REGION I - WESTERN SAHARA																	
CHANGES																	
60033	EL AAYOUNE	27 10N	13 13W	64	63		X	X	X	X	X	X	X	X	X	X	X
60096	DAKHLA	23 43N	15 56W	12	7		.	.	X	X	X	X	X	X	X	X	X
REGION II - IRAN, ISLAMIC REPUBLIC OF																	
CHANGES																	
40798	SHAHRE-KORD	32 20N	50 51E	2061		850 HPA	X	X	X	X	X	X	X	X	X	X	X
1)																	
REGION II - KYRGYZSTAN																	
CHANGES																	
38353	BISHKEK	42 51N	74 32E	760	756		X	X	X	X	X	X	X	X	X	X	X
RW . RW . 1) TEMPORARILY DISCONTINUED																	
1) 1)																	
DELETED																	
38220	MANAS																
38615	OSH																
NEW																	
36944	KYZYL-SUU	42 21N	78 21E	1769	1768		X	X	X	X	X	X	X	X	X	X	X
38616	KARA-SUU	40 42N	72 54E	868	867		X	X	X	X	X	X	X	X	X	X	X
REGION III - ECUADOR																	
84001	SEYMOUR AEROPUERTO																
	(GALAPAGOS)	00 54S	90 17W	16	—		23	.	.	.	X	X	X	X	H11-23	.	A
84008	SAN CRISTOBAL																
	(GALAPAGOS)	00 26S	89 36W	6	—		X	.	.	.	X	X	X	X	H00-24	RW P	C;CLIMAT(C)
84018	ESMERALDAS																
	AEROPUERTO																
	(TACHINA)	00 58N	79 37W	7	—		23	.	.	.	X	X	X	X	H11-23	.	A
84027	TULCAN AEROPUERTO	00 49N	77 42W	2934	—		X	.	.	.	X	X	X	X	H11-24	.	A
84043	IBARRA AEROPUERTO	00 20N	78 06W	2214	—		X	.	.	.	X	X	X	X	H11-22	.	A;CLIMAT(C)
84063	LAGO AGRIO																
	AEROPUERTO	00 06N	76 53W	297	—		X	.	.	.	X	X	X	X	H11-24	.	A

I.

INDEX NUMBER	NAME	POSITION		ELEVATION HP	PRESSURE H/HA	SURFACE LEVEL	OBSERVATIONS								OBS.H OBS.S	UPPER-AIR	OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.				#	#	#	#	#	#	#	#			
84069	<u>STO. DGO. DE LOS COLADORES</u>																
	<u>AEROPUERTO</u>	<u>00 14S</u>	<u>79 12W</u>	<u>554</u>			X	.	.	X	X	X	X				A;A/R
84071	<u>QUITO AEROPUERTO</u> ..	<u>00 08S</u>	<u>78 28W</u>	<u>2794</u>	---	700 HPA	X	X	X	X	X	X	X	H00-24			A;CLIMAT(C);SPECI
84088	<u>IZOBAMBA</u>	<u>00 21S</u>	<u>78 33W</u>	<u>3058</u>		STATION	X	.	.	X	X	X	X				AGRIMET;CLIMAT(C);EVAP;SOILTEMP
84099	<u>EL COCA AEROPUERTO</u>	<u>00 27S</u>	<u>79 56W</u>	<u>298</u>			X	.	.	X	X	X	X				
84101	<u>BAHIA DEL CARAQUEZ</u>																
	<u>AEROPUERTO</u>	<u>00 35S</u>	<u>80 25W</u>	<u>3</u>			23	.	.	X	X	X	X	H11-23			A
84117	<u>MANTA AEROPUERTO</u> ..	<u>00 57S</u>	<u>80 41W</u>	<u>12</u>	---		23	.	.	X	X	X	X	H11-23			A
84123	<u>LATACUNGA AEROPUERTO</u>	<u>00 54S</u>	<u>78 36W</u>	<u>2785</u>			X	.	.	X	X	X	X	H11-24			A
84135	<u>PORTOVIEJO</u>	<u>01 02S</u>	<u>80 27W</u>	<u>60</u>	---	STATION	X	.	.	X	X	X	X				AGRIMET;CLIMAT(C);EVAP;SOILTEMP
84140	<u>PICHILINGUE</u>	<u>01 06S</u>	<u>79 29W</u>	<u>120</u>	---	STATION	X	.	.	X	X	X	X				AGRIMET;CLIMAT(C);EVAP;SOILTEMP
84147	<u>AMBATO AEROPUERTO</u> .	<u>01 12S</u>	<u>78 34W</u>	<u>2515</u>	---		23	.	.	X	X	X	X	H11-23			A
84160	<u>QUEROCHACA</u>	<u>01 21S</u>	<u>78 36W</u>	<u>2940</u>	---		X	.	.	X	X	X	X				CLIMAT(C);EVAP;SOILTEMP
84176	<u>RIOBAMBA AEROPUERTO</u>	<u>01 39S</u>	<u>78 39W</u>	<u>2760</u>			23	.	.	X	X	X	X	H11-23			A
84179	<u>PUYO</u>	<u>01 30S</u>	<u>77 54W</u>	<u>960</u>	---	STATION	X	.	.	X	X	X	X				AGRIMET;CLIMAT(C);EVAP;SOILTEMP
84200	<u>SALINAS AEROPUERTO</u>	<u>02 12S</u>	<u>80 59W</u>	<u>4</u>	---		X	.	.	X	X	X	X	H11-24			A;C
84203	<u>GUAYAQUIL AEROPUERTO</u>	<u>02 09S</u>	<u>79 53W</u>	<u>5</u>	---		X	X	X	X	X	X	X	H00-24			A;CLIMAT(C);M/B;SPECI
84239	<u>CUENCA AEROPUERTO</u> .	<u>02 53S</u>	<u>78 59W</u>	<u>2516</u>	---	700 HPA	X	.	.	X	X	X	X	H11-24			A
84248	<u>MACHALA AEROPUERTO</u>	<u>03 15S</u>	<u>79 57W</u>	<u>4</u>	---		X	.	.	X	X	X	X	H11-24			A
84265	<u>CATAMAYO AEROPUERTO</u>																
	<u>(LA TOMA)</u>	<u>03 59S</u>	<u>79 22W</u>	<u>1230</u>	---	850 HPA	X	.	.	X	X	X	X	H11-24			A
84279	<u>MACARA AEROPUERTO</u> .	<u>04 22S</u>	<u>79 56W</u>	<u>427</u>	---		23	.	.	X	X	X	X	H11-23			A
NEW																	
84072	<u>INAQUITO</u>	<u>00 10S</u>	<u>78 29W</u>	<u>2812</u>			X	.	.	X	X	X	X				
84143	<u>RUMIPAMBA</u>	<u>01 01S</u>	<u>78 35W</u>	<u>2628</u>			X	.	.	X	X	X	X				
84204	<u>GUAYAQUIL-INAMHI</u> ..	<u>02 09S</u>	<u>79 53W</u>	<u>5</u>			X	.	.	X	X	X	X				
84217	<u>MACAS AEROPUERTO</u> ..	<u>02 17S</u>	<u>78 07W</u>	<u>995</u>			X	.	.	X	X	X	X				
REGION IV - BAHAMAS																	
NEW																	
78065	<u>MARSH HARBOUR, ABACO</u>	<u>26 31N</u>	<u>77 04W</u>	<u>3#</u>			.	.	.	.	.	.	.				#APPROXIMATE
78080	<u>ROCK SOUND,</u> <u>ELEUTHERA</u>	<u>24 54N</u>	<u>76 09W</u>	<u>3#</u>			.	.	.	.	.	.	.				#APPROXIMATE
78089	<u>COCKBURN TOWN, SAN</u> <u>SALVADOR</u>	<u>24 04N</u>	<u>74 30W</u>	<u>3#</u>			.	.	.	.	.	.	.				#APPROXIMATE
78091	<u>MOSS TOWN, EXUMA</u> ..	<u>23 33N</u>	<u>75 52W</u>	<u>3#</u>			.	.	.	.	.	.	.				#APPROXIMATE
78108	<u>ABRAHAM'S BAY,</u> <u>MAYAGUANA</u>	<u>22 23N</u>	<u>73 01W</u>	<u>4#</u>			.	.	.	.	.	.	.				#APPROXIMATE
78120	<u>MATTHEW TOWN, INAGUA</u>	<u>20 57N</u>	<u>73 39W</u>	<u>3#</u>			.	.	.	.	.	.	.				#APPROXIMATE

I.

INDEX NUMBER	NAME	POSITION		ELEVATION HP	PRESSURE H/HA	SURFACE LEVEL	OBSERVATIONS								OBS.H OBS.S	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS	
		LAT.	LONG.				#	#	#	#	#	#	#	#		#	#	#	#		#
REGION VI - FRANCE																					
NEW																					
07117	PLOUMANAC'H	48 50N	03 28W	71	63		X	X	X	X	X	X	X	X	X	H00-24	AUT;C;SEA;SUNDUR
07360	GUERET	46 10N	01 52E	551	549		X+	X+	X	X	X	X	X+	X+		.	.	.	.	A;AUT+;METAR
DELETED																					
07121	BREHAT																				
REGION VI - GERMANY																					
CHANGES																					
10034	EGGEBEK	54 38N	09 21E	<u>19</u>	20		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SOILTEMP;SPECI
10044	LEUCHTTURM KIEL	54 30N	<u>10 16E</u>	23	5		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT;LH;SEATEMP
10067	MARIENLEUCHTE	54 30N	11 14E	<u>12</u>	5		X	X	X	X	X	X	X	X		.	.	.	.
10147	HAMBURG-FUHLBUETTEL	53 38N	<u>09 59E</u>	15	16		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);METAR;RAREP;SOILTEMP
10172	LAAGE	53 55N	12 17E	<u>58</u>	40		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
10184	GREIFSWALD	54 06N	13 24E	6	2		X	X	X	X	X	X	X	X	H00-24	<u>RW</u>	<u>W</u>	<u>RW</u>	<u>W</u>	AGRIMET;CLIMAT(CT);M/B;SOILTEMP;WT	
10304	MEPPEN	<u>52 44N</u>	<u>07 20E</u>	41	<u>21</u>		.	.	X	X	X	X	.	.	H05-15	.	<u>RW</u>	<u>RW</u>	.	A;H05-12 ON 5;METAR;NOT ON 6,7 & PUBLIC HOLIDAYS SPECI	
10389	BERLIN-ALEXANDERPLATZ	52 31N	13 25E	<u>83</u>	37		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT;M/B
10439	FRITZLAR	51 07N	09 17E	181	<u>173</u>		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;MONT;SPECI
10471	LEIPZIG	51 19N	12 25E	151	141		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT;M/B;OBS. R UP TO 500 HPA O/R; RAREP;SOILTEMP
10476	HOLZDORF	51 46N	13 11E	<u>82</u>	<u>81</u>		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;H00-18 ON 6;H19-23 ON 7;METAR;SPECI
10492	COTTBUS (FLUGPLATZ)	51 46N	14 18E	<u>76</u>	<u>69</u>		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI
10499	GOERLITZ	51 10N	14 57E	<u>240</u>	237		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AGRIMET;CLIMAT(C);M/B;OBS. R UP TO 500 HPA O/R SOILTEMP
10517	BONN-FRIESDORF	50 42N	07 09E	64	64		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	<u>AUT;SOILTEMP</u>
10519	BONN-ROLEBER	50 44N	07 12E	168	159		.	.	.	.	.	.	.	.		.	.	.	.
10616	HAHN	49 57N	07 16E	<u>503</u>	<u>502</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>H00-24</u>	.	.	.	.	<u>M/B;METAR;SOILTEMP</u>
10628	GEISENHEIM	49 59N	07 57E	<u>123</u>	<u>118</u>		.	.	.	.	.	.	.	.		.	.	.	.	AGRIMET;CLIMAT(C);RAD
10675	BAMBERG	49 53N	10 55E	<u>243</u>	239		X+	X+	X	X	X	X	X+	X+	H00-24	.	.	.	.	AGRIMET;+AUT;M/B;SOILTEMP
10738	STUTTGART-ECHTERDINGEN	48 41N	<u>09 14E</u>	391	396		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);METAR;RAREP
10791	GROSSER ARBER	49 07N	13 08E	1446	<u>1449</u>	850 HPA	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	M;MONT
NEW																					
10571	ALTENBURG/NOBITZ	50 58N	12 30E	192	191		.	.	.	.	.	.	.	.		.	.	.	.	A;METAR
10722	KARLSRUHE/BADEN-BADEN	48 47N	08 05E	7	124		.	.	.	.	.	.	.	.		.	.	.	.	A;METAR

I.

INDEX	POSITION	ELEVATION	PRESSURE SURFACE	OBSERVATIONS	OBS.H	UPPER-AIR	OTHER OBSERVATIONS AND REMARKS
NUMBER	NAME	LAT. LONG.	HP H/HA	LEVEL # # # # # # # #	OBS.S	# # # #	
DELETED							
10148	HAMBURG-STADT						
10203	EMDEN-HAFEN						
10626	PFERDSFELD						
REGION VI - PORTUGAL							
NEW							
08550	COUCO, CORUCHE	39 04N 08 24W	167 167				
REGION VI - SWEDEN							
CHANGES							
02012	RITSEM	67 44N 17 28E	521 520	X X X X X X X X			
02020	KATTERJAKK	68 25N 18 10E	521 520	X X X X X X X X			SOILTEMP; SUNDUR
02043	ESRANGE	67 54N 21 04E	351 340	X X X X X X X X			
02045	KIRUNA GEOFYSISKA	67 50N 20 26E	408	X X X X X X X X	H00-24		AUT
02080	KARESUANDO	68 26N 22 30E	325 325	X X X X X X X X			CLIMAT(C)
02096	PAJALA	67 12N 23 23E	165 165	X X X X X X X X			SUNDUR
02103	HEMAVAN-GIEREVARTO	65 47N 15 04E	793	X X X X X X X X	H00-24		AUT
02104	HEMAVAN	65 48N 15 06E	475 475	X X X X X X X X			SUNDUR
02118	DIKANAS/SKANSNAS	65 19N 16 02E	526 525	X X X X X X X X			
02120	KVIKKJOKK-ARREJARKA	66 57N 17 44E	321 320	X X X X X X X X			
02124	ARJEPLOG	66 03N 17 52E	430	X X X X X X X X			
02128	GUNNARN	65 00N 17 43E	273 270	X X X X X X X X			
02141	TJAKAAPE	66 19N 19 13E	582	X X X X X X X X			AUT; IRREG.
02142	JOKKMOKK	66 38N 19 38E	266 265	X X X X X X X X			
02154	VIDSEL	65 53N 20 09E	183 182	X X X X X X X X	H00-24		MAN/AUT
02159	FALLFORS	65 07N 20 46E	180 195	X X X X X X X X	H00-24		AUT
02171	BODEN	65 49N 21 42E	18 16	. X* X* X* X* X+ X+ .			A; +NOT ON 5,6,7; *NOT ON 6,7
02176	PITE-RONNSKAR	65 02N 21 34E	4	X X X X X X X X	H00-24		AUT
02185	LULEA-KALLAX	65 33N 22 08E	34 17	. . . . .		RW RW RW RW	
02186	LULEA-KALLAX	65 33N 22 08E	20 17	X X X X X X X X	S00-24		A; SUNDUR; TOTRA
02188	RODKALLEN	65 19N 22 23E	2	X X X X X X X X	H00-24		AUT
02206	STORLIEN	63 18N 12 07E	642 640	X X X X X X X X			SUNDUR
02209	SYLARNA	63 03N 12 17E	1030	X X X X X X X X	H00-24		AUT
02215	ARESKUTAN	63 26N 13 05E	1280	X X X X X X X X	H00-24		AUT
02222	GADDEDE	64 30N 14 09E	322 320	X X X X X X X X			
02226	FROSON	63 12N 14 30E	360 376	X X X X X X X X	H00-24;		A; CLIMAT(C); SUNDUR; TOTRA
					S 1)		
02244	JUNSELE	63 42N 16 52E	210	X X X X X X X X			
02259	KRAMFORS FLYGPLATS	63 03N 17 46E	19 10	X X X X X X X X	S 1)		A; IRREG. ON 6,7
02274	VINDELN	64 13N 19 43E	177 175	X X X X X X X X			

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE		OBSERVATIONS				OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS	
		LAT.	LONG.	HP	H/HA	LEVEL	#	#	#	#	#	#	#	#	#	#	#			
02283	UMEA ROBACKSDALEN ..	63 49N	20 15E	—	10			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02284	JARNASKLUBB	63 26N	19 41E	<u>7</u>	<u>6</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02286	UMEA FLYGPLATS	63 48N	20 17E	<u>8</u>	<u>7</u>			X	X	X	X	X	X	X	S00-24	.	.	.	.	A;SUNDUR
02288	HOLMOGADD	63 36N	20 46E	<u>5</u>	<u>5</u>			X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA
02296	BJUROKLUBB	64 29N	21 35E	<u>40</u>	<u>40</u>			X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA;SEATEMP
02307	<u>IDRE FJALL</u>	<u>61 53N</u>	<u>12 51E</u>	—	<u>869</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02316	SARNA	61 42N	<u>13 08E</u>	<u>436</u>	<u>435</u>			X	X	X	X	X	X	X		.	.	.	.
02324	SVEG	62 02N	<u>14 21E</u>	360	360			X	X	X	X	X	X	X		.	.	.	.	SUNDUR
02355	KUGGOREN	61 42N	17 32E	10	<u>9</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02365	<u>TIMRA/MIDLANDA</u>	62 32N	17 27E	6	6			.	.	.	.	.	.	.		RW	RW	RW	RW	CLIMAT(T)
02366	<u>TIMRA/MIDLANDA</u>	<u>62 31N</u>	17 27E	<u>7</u>	<u>3</u>			X	X	X	X	X	X	X	S 1)	.	.	.	.	A;CLIMAT(C);SUNDUR
02368	BRAMON	62 13N	17 45E	—	<u>18</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02382	LUNGO	<u>62 39N</u>	<u>18 06E</u>	—	<u>18</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02400	<u>OSTMARK/ROJDASEN</u> ...	60 21N	12 39E	<u>292</u>	<u>290</u>			X	X	X	X	X	X	X		.	.	.	.
02410	MALUNG	<u>60 42N</u>	<u>13 41E</u>	<u>300</u>	<u>300</u>			X	X	X	X	X	X	X		.	.	.	.
02415	KARLSTAD SOL	59 22N	13 28E	—	46			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02417	<u>LURO</u>	<u>58 46N</u>	<u>13 15E</u>	<u>55</u>	—			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02418	KARLSTAD FLYGPLATS .	59 22N	13 28E	<u>50</u>	<u>46</u>			X	X	X	X	X	X	X	S 1)	.	.	.	.	A;CLIMAT(C);SUNDUR;TOTRA
02424	STALLDALEN	59 57N	14 57E	<u>200</u>	<u>200</u>			X	X	X	X	X	X	X		.	.	.	.	PH
02432	OREBRO	59 14N	15 03E	55	<u>54</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02446	<u>VASTERAS</u>	59 35N	16 38E	31	6			X	X	X	X	X	X	X	S 1)	.	.	.	.	A
02450	EGGEGRUND	60 44N	17 34E	—	<u>4</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02456	<u>FILM</u>	60 14N	17 54E	<u>35</u>	<u>35</u>			X	X	X	X	X	X	.		.	.	.	.
02458	UPPSALA	<u>59 54N</u>	17 36E	<u>14</u>	21			X	X	X	X	X	X	X	H00-24	.	.	.	.	A
02460	STOCKHOLM/ARLANDA ..	59 39N	17 57E	61	38			X	X	X	X	X	X	X	<u>H00-24</u>	.	.	.	.	A
02464	STOCKHOLM/BROMMA ...	<u>59 22N</u>	<u>17 54E</u>	<u>15</u>	<u>15</u>			X+	X*	X	X	X	X	X#		.	.	.	.	A;+AUT;AUT (SWEDISH SUMMER TIME)#;AUT *LOCAL TIME
02476	FLODA	59 03N	16 24E	<u>20</u>	19			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02483	STOCKHOLM KTH	59 21N	18 04E	—	30			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02485	<u>STOCKHOLM</u>	59 20N	18 03E	<u>52</u>	—			X	X	X*	X	X*	X	X*	H00-24	.	.	.	.	AUT;*AUT & MANUAL
02487	STAVSNAS	59 18N	18 42E	<u>18</u>	<u>16</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02489	HARSFJARDEN	59 04N	18 07E	<u>3</u>	4			X	X	X	X	X	X	X		.	.	.	.	SEATEMP
02496	SVENSKA HOGARNA	59 27N	19 30E	<u>10</u>	<u>10</u>			X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA;SEATEMP
02499	ALMAGRUNDET	59 09N	19 08E	—	<u>3</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02500	NORDKOSTER	58 54N	<u>11 01E</u>	<u>4</u>	<u>3</u>			X	X	X	X	X	X	X		.	.	.	.	C;SEATEMP
02501	VADEROARNA	58 35N	11 04E	21	—			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02512	GOTEBORG/SAVE	57 47N	11 53E	<u>16</u>	20			X	X	X	X	X	X	X	S 1)	.	.	.	.	A;CLIMAT(C)
02513	GOTEBORG	57 42N	12 00E	—	5			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02516	VINGA	57 38N	<u>11 36E</u>	—	<u>10</u>			X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA;SUNDUR
02517	TRUBADUREN	57 36N	11 38E	—	26			X	X	X	X	X	X	X	H00-24	.	.	.	.	<u>AUT</u>
02519	RINGHALS	57 16N	12 07E	—	—			X	X	X	X	X	X	X	H00-24	.	.	.	.	<u>AUT</u>
02520	SATENAS	58 26N	<u>12 43E</u>	<u>51</u>	54			X	X	X	X	X	X	X		.	.	.	.	A;SEATEMP

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS								OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	#	#	#	#	#	#	#	#	#	#	#	#	#		
02536	RANGEDALA	57 47N	13 10E	<u>298</u>	<u>298</u>			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02545	AXSTAL	58 34N	14 34E	93	91			.	.	X	X	X	.	.	.	<u>H06-13</u>	.	.	.	.	<u>MAN/AUT;NOT ON 6,7</u>
02550	<u>JONKOPING/AXAMO</u>	<u>57 45N</u>	<u>14 05E</u>	<u>218</u>	<u>220</u>			X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);SUNDUR
02562	<u>LINKOPING/MALMSLAETT</u>	<u>58 24N</u>	<u>15 32E</u>	<u>87</u>	93			X	X	X	X	X	X	X	X	<u>H00-24</u>	.	.	.	.	A
02566	MALILLA	57 24N	<u>15 49E</u>	<u>97</u>	<u>95</u>			X	X	X	X	X	X	X	X		.	.	.	.
02571	NORRKOPING	58 35N	16 09E	<u>35</u>	34			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02574	SMHI	58 35N	16 09E	—	32			X	X	X	X	X	X	X	X	<u>H00-24</u>	.	.	.	.	AUT
02583	GUSTAF DALEN	58 36N	17 28E	—	3			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	<u>AUT</u>
02584	GOTSKA SANDON	58 24N	19 12E	<u>11</u>	<u>11</u>			X	X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA
02586	HARSTENA	58 15N	17 01E	<u>16</u>	<u>14</u>			X	X	X	X	X	X	X	X		.	.	.	.	C;SEA
02590	VISBY FLYGPLATS	57 40N	18 21E	<u>41</u>	51			X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);SUNDUR;TOTRA
02591	VISBY AEROLOGISKA STATION	57 39N	18 21E	47	45			.	.	.	.	.	.	.	.		RW	W	RW	W	WR
02599	NASUDDEN	57 04N	18 13E	—				X	X	X	X	X	X	X	X	H00-24	.	.	.	.	<u>AUT</u>
02607	ANGELHOLM	56 18N	12 51E	<u>19</u>	20			X	X	X	X	X	X	X	X	H00-24; S 1)	.	.	.	.	A
02616	FALSTERBO	55 23N	12 49E	5	<u>3</u>			X	X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA
02620	TORUP	56 58N	<u>13 04E</u>		85			X	X	X	X	X	X	X	X		.	.	.	.
02626	OSBY	56 22N	<u>14 00E</u>	<u>82</u>	<u>80</u>			X	X	X	X	X	X	.	.		.	.	.	.
02627	LUND LTH	55 43N	13 13E	—	73			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02630	LJUNGBYHED	56 05N	13 14E	<u>43</u>	<u>42</u>			X	X	X	X	X	X	X	X	S 1)	.	.	.	.	A
02635	MALMO	55 34N	13 04E	<u>21</u>	<u>20</u>			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
02664	<u>RONNEBY/KALLINGE</u>	56 16N	<u>15 16E</u>	<u>55</u>	58			X	X	X	X	X	X	X	X	S 1)	.	.	.	.	A
02670	<u>KALMAR</u>	56 41N	16 18E	<u>4</u>	6			X	X	X	X	X	X	X	X	S 1)	.	.	.	.	<u>A;AUT;METAR;SEATEMP</u>
02680	HOBURG	56 55N	18 09E	<u>41</u>	<u>40</u>			X	X	X	X	X	X	X	X		.	.	.	.	C;ICE;LH;SEA;SEATEMP
NEW																					
02648	VAXJO	56 51N	14 50E	200	199			X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
DELETED																					
02318	TANDADALEN																				
02323	KLOVSJO																				
02376	SODERHAMN																				
02433	FALUN																				
02556	HAGSHULT																				
02569	STAVSJO																				
02606	KULLEN																				
02641	VAXJO																				
02668	KUNGSHOLMS FORT																				
02681	VRETA KLOSTER																				
02685	OLANDS SODRA GRUND																				

1) For aeronautical operational requirements

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 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 (IIiii) and station name;

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 _o P _o P _o P _o
1000 hPa	Geopotential of the given standard isobaric surface reported using group 4a ₃ hhh
850 hPa	
700 hPa	
500 hPa	

Table 1

COLUMN G: Reasons for temporary suspension of observing programmes and an expected date of resumption of the programmes should be given as far as possible. Non-standard collection and/or distribution times should also be included, and also possible alternate observing stations, as appropriate.

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

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

Country: _____

PLEASE TICK THE APPROPRIATE BOX

Global Exchange:

Date effective: _____

Regional Exchange:

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

III. GLOBAL TELECOMMUNICATION SYSTEM

INFORMATION ON THE OPERATION OF THE GTS

Routeing Catalogues of RTHs

CBS, at its eleventh session (Cairo, 1996), requested the Secretariat to publish in the Operational Newsletter the list of RTHs which were making available their routeing catalogues. The Secretariat was notified of the availability of the routeing catalogues by the following RTHs: Beijing, Cairo, Melbourne, Moscow, Nairobi, New-Delhi, Norrköping, Offenbach, Prague, Tokyo, Toulouse and Washington.

The routeing catalogues of RTHs Cairo, Moscow, New-Delhi, Prague, Tokyo and Washington are available in the WMO FTP server (www.wmo.ch) under the sub-directory GTS_routeing. Information on the routeing catalogues, including the procedure to access to the routeing catalogues of the above-mentioned RTHs, is also available under this sub-directory.

CBS-XI also invited Members operating an RTH to designate a focal point with a view to facilitating the co-ordination of the GTS operation, including monitoring procedures, the review of their catalogues of meteorological bulletins and the subsequent notification to the WMO Secretariat of changes to be included in Publication No. 9 - Volume C1, the exchange of routeing catalogues, etc. The following focal points have been designated by Members:

Mr. Shi Peiliang
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Publication No. 9
Volume C1 - Catalogue of Meteorological
Bulletins

Notification from Norway:

ABBREVIATED HEADING	CODE FORM USED	TIME GROUP (GG)	CONTENT OF BULLETIN AND REMARKS
TTAA (II)	CCCC		

The following entries should be deleted:

WWEW21	ENMI	PLAIN LANGUAGE	05,11,17,23	STORM/GALE WARNINGS
WWEW22	ENMI	PLAIN LANGUAGE	05,11,17,23	STORM/GALE WARNINGS
WWEW23	ENMI	PLAIN LANGUAGE	05,11,17,23	STORM/GALE WARNINGS

The following entries should be inserted:

WONO21	ENMI	PLAIN LANGUAGE	AS REQUIRED	STORM/GALE WARNINGS
WONO22	ENMI	PLAIN LANGUAGE	AS REQUIRED	STORM/GALE WARNINGS
WONO23	ENMI	PLAIN LANGUAGE	AS REQUIRED	STORM/GALE WARNINGS

IV. Data Management and Codes

Publication No. 306
MANUAL ON CODES

Volume I.2 International Codes

Part C

Common Features to Binary and Alphanumeric Codes

Common Code Tables

*Approval of new sondes
entries for implementation
on 5 November 1997*

Volume II Regional Codes and National Coding Practices

Part E National Coding Procedures with regard to Interna- tional Code Forms

(page references are for English
version)

Notification from the WMO Secretariat that the following new radio-sonde systems have been added since 5 November 1997 to the common code table C-2: Radiosonde/sounding system used:

- | | |
|----|-----------------------------------|
| 71 | RS90/Digicora or Marwin (Finland) |
| 72 | RS90/PC-Cora (Finland) |
| 73 | RS90/Autosonde (Finland) |
| 74 | RS90/Star (Finland) |

REGION VI

Notification from Austria

FM 12 SYNOP and FM 13 SHIP

Page II-6-E-1

Subject: $i_{r_x}i_{hVV}$
prevailing visibility is reported instead of minimum visibility

Page II-6-E-10b

FM 15 METAR and FM 16 SPECI

Subject: $VVVD_v V_x V_x V_x V_x D_v$ - all stations:
The group $VVVV$ will report the prevailing visibility instead of the minimum visibility.
The group $D_v V_x V_x V_x V_x D_v$ will be reported.

Delete:

~~For reporting $VXVXVXVXDV$ additional criteria are used; so this group will be reported more often.~~

Page II-6-E-27

FM 51 TAF

The forecasted visibility has to be understood as prevailing visibility

Notification from Denmark

Page II-6-E-3:

Replace the text: "6RRR t_r " with

6RRR t_r When reported, this group is included in Section 1, and, for certain stations, in Section 3.

$t_r = 0$ means: more than 24 hours, or
period of reference not covered by code table 4019, or
period of reference does not end at the time of the report.

(ref. Vol. I.1, code table 4019, Note (2))