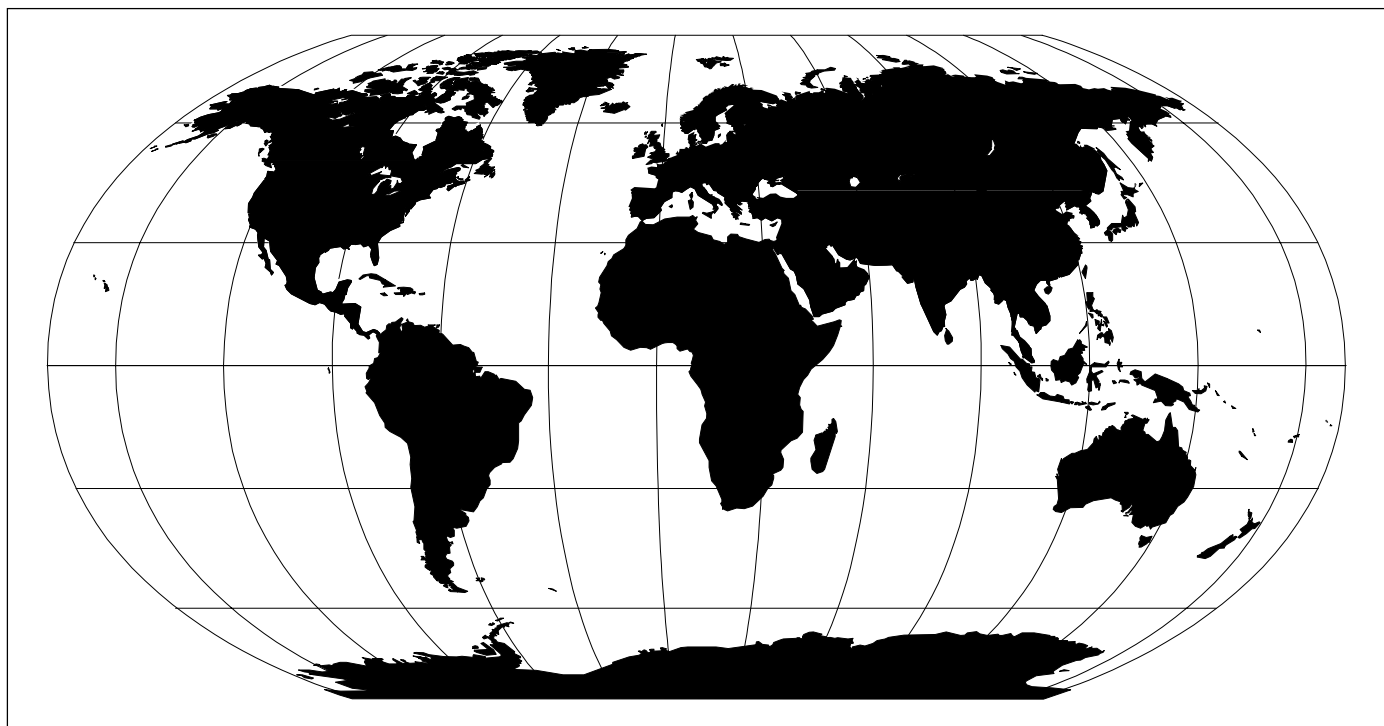


OPERATIONAL NEWSLETTER

VOLUME 1997

No. 1/2 - JANUARY/FEBRUARY 1998

WORLD WEATHER WATCH



MARINE METEOROLOGICAL SERVICES



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.

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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.

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I. Global Observing System

1. Changes in Global or Regional Components of the World Weather Watch Plan

1.1 BASIC SYNOPTIC NETWORKS

Region II - Kyrgyzstan Surface Network (SYNOP)

Index Number	Name	POSITION		SURFACE OBSERVATIONS									
		Latitude	Longitude	00	03	06	09	12	15	18	21		
<i>Replace former RBSN station:</i>													
38615	OSH	40 38N	72 48E	.	.	.	.	.	.	.	.	.	.
<i>by new RBSN station:</i>													
38616	KARA-SUU	40 42N	72 54E	X	X	X	X	X	X	X	X	X	X

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

2.1 AUTOMATIC MARINE STATIONS

Key: Observed or Technical Parameters

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

I.

**CANADA
Moored Buoys**

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

WMO Buoy Identifier	ARGOS Identifier	Position:1 February 1998		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 February 1998		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	X	S	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			.	.	.	.	.	.	.	N/A	-	-	-
44140	N/A			.	.	.	.	.	.	.	N/A	-	-	-
44141	3449	42 04' N	056 09' W	S	S	S	S	S	S	S	N/A	-	-	-
44142*	5578	44 40' N	063 33' W	S	S	S	S	S	S	S	N/A	-	-	-
44153	2078			.	.	.	.	.	.	.	N/A	-	-	-

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

WMO Buoy Identifier	ARGOS Identifier	Position:1 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
45132	N/A			.	.	.	.	.	.	.	N/A		-	-
45135	N/A	43 47' N	076 52' W	X	X	X	X	X	X	X	N/A		-	-
45136	N/A			.	.	.	.	.	.	.	N/A		-	-
45137	N/A			.	.	.	.	.	.	.	N/A		-	-
45138	3436			.	.	.	.	.	.	.	N/A		-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	X	X	X	N/A		-	-
45140	3439			.	.	.	.	.	.	.	N/A		-	-
45141	N/A			.	.	.	.	.	.	.	N/A		-	-
45142	N/A			.	.	.	.	.	.	.	N/A		-	-
45143	N/A			.	.	.	.	.	.	.	N/A		-	-
45144	8671			.	.	.	.	.	.	.	N/A		-	-

Drifting Buoys

Pacific Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 2 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46641	12511	47 12' N	144 30' W	.	X	X	X	X	.	.	X	-	-	-
46692	12513	44 12' N	156 18' W	X	X	X	X	X	.	.	X	-	-	-
46701	8674	54 24' N	137 24' W	X	X	X	X	X	.	.	X	-	-	-

REMARKS:

To be deployed mid-February

44153 experimental SWS-2 ODAS buoy

Lost at Sea:

44131

Adrift:

*44142 - Failed January 07. Last reported position

Failed:

44139 - November 22

44141 - December 8

46695 - December 1

46707 - December 13

Removed for the Winter:

44140

45132, 45136 - December 3

45137, 45142, 45143 - November 30

45138 - November 20

45140 - October 15

45141 - October 21

45144 - October 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 20 February 1998.

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.

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 12-19 Feb. 1998		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		28.89N	78.55W	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	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	-	-	-	-

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

I.

WMO Buoy Identifier	ARGOS Identifier	Position: 12-19 Feb. 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
42039		28.78N	86.04W	S	S	S	-	S	S	S	-	-	-	-
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	S	S	S	-	S	S	S	-	-	-	-
44009*		38.46N	74.70W	X	S	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	-	-	-	-
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	-	-	-	-
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	X	X	X	-	X	X	X	-	-	-	-
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	S	-	S	S	S	-	-	-	-
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	S	S	-	-	-	-
46050		44.62N	124.53W	S	S	S	-	S	S	S	-	-	-	-
46054		34.27N	120.45W	X	X	X	-	X	X	X	-	-	-	-
46059		37.98N	130.00W	X	S	S	-	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	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	+	+	+	-	+	+	+	-	-	-	-
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.

+ Buoy off station or adrift

REMARKS:

Total Base Funded Buoys : 30

Total Other Buoys : 35

Total Moored Buoys : 65

REMARKS:

41001 - Wind data failed 2 September 1997, wave data failed 3 November 1997
41004 - Water temp data failed 2 February 1997
42003 - Air temp data failed 6 September 1997
42039 - Station failed 6 February 1997
44004 - Parity errors in data.

44005 - Buoy adrift 2 December 1997, recovered to port 4 December 1997, redeployment scheduled week of 23 February 1998

44008 - Water temp data failed 10 December 1997, station failed 3 January 1998, redeployment scheduled week of 23 February 1998
44009 - Air temp data failed 6 February 1998
44014 - Station failed 20 October 1997, service scheduled week of 23 February 1998
44025 - Parity errors in data.
45001 - Buoy recovered for winter 30 October 1997
45002 - Redeployment scheduled week of 2 March 1998
45003 - Redeployment scheduled week of 2 March 1998
45004 - Buoy recovered for winter 30 October 1997
45005 - Redeployment scheduled week of 2 March 1998
45006 - Buoy recovered for winter 30 October 1997
45007 - Redeployment scheduled week of 2 March 1998
45008 - Buoy recovered for winter 10 November 1997
46003 - Parity errors in data.
46005 - Air temp data failed 19 November 1997

46012 - Water temp failed 23 October 1996, station failed 12 July 1997, service scheduled week of 9 March 1998.

46013 - Buoy recovered to port 4 November 1997, redeployment scheduled week of 9 March 1998
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, redeployment scheduled week of 16 March 1998
46029 - Air temp data failed 26 June 1997, water temp data failed 17 November 1997, pressure data failed 27 December 1997, remaining data failed 25 January 1998
46030 - Station failed 22 October 1997
46041 - Air temp data failed 2 June 1996, station failed 14 June 1996, replacement scheduled 27 April 1998
46042 - Buoy adrift 25 October 1997, recovered to port 28 October 1997, redeployment scheduled week of 16 March 1998
46045 - Wave data failed 20 January 1998
46050 - Station failed 15 January 1998
46059 - Air temp and pressure data failed 10 December 1997
51001 - Station in test for service and swapout 18 February 1998
51004 - Buoy confirmed adrift 15 January 1998, replacement scheduled 30 March 1998

I.

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 19 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41611	23635	27°N	095°W	S	X	X	-	X	N	N	N	N	-	-

REMARKS:

41611 - Wind direction failed 11 May 1997

AUSTRALIA

Shipboard DCP

WMO Buoy Identifier	ARGOS Identifier	Position: 31 January 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
55513	11581	-37.82	144.905	-	X	X	-	-	-	-	-	-	-	-
55515	11580	-33.967	151.212	-	X	X	-	-	-	-	-	-	-	-
55524	11662	-49.406	151.595	-	X	X	-	-	-	-	-	-	-	-

Drifting Buoys Drogued

WMO Buoy Identifier	ARGOS Identifier	Position: 31 January 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
56521	2934	-44.646	-118.368	-	-	S	-	X	-	-	-	-	-	-
56529	4873	-31.065	84.147	-	-	X	-	X	-	-	-	-	-	-
56531	4872	-29.116	92.041	-	-	X	-	X	-	-	-	-	-	-
56532	2949	-36.722	124.759	-	X	X	X	X	-	-	-	-	-	-
56533	2948	-43.267	158.756	-	X	X	X	X	-	-	-	-	-	-
56535	2939	-56.226	140.67	-	X	X	X	X	-	-	-	-	-	-
56536	4876	-50.229	155.256	-	-	S	-	X	-	-	-	-	-	-
56538	4878	-41.552	104.436	-	-	X	X	X	-	-	-	-	-	-
56539	8035	-47.528	108.076	-	X	X	X	X	-	-	-	-	-	-
56540	4877	-19.382	109.001	-	-	X	X	X	-	-	-	-	-	-
74539	8036	-61.366	59.651	-	X	X	X	X	-	-	-	-	-	-

NEW ZEALAND

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 1 March 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
8584	55587	42.5 S	154.3 E	X	X	X	-	X	-	-	X	-	-	-
8585	55588	34.7 S	168.8 E	S	X	X	-	X	-	-	X	-	-	-
8586	55589	35.3 S	172.6 E	X	X	X	-	X	-	-	X	-	-	-
20721	55576	36.4 S	157.8 E	-	X	X	-	X	-	-	X	-	-	-
22186	55575	30.5 S	164.6 E	-	X	X	-	X	-	-	X	-	-	-
22188	55577	40.6 S	162.2 E	-	X	X	-	X	-	-	X	-	-	-
22189	55572	38.2 S	169.6 E	-	X	X	-	X	-	-	X	-	-	-
22190	55574	22.5 S	175.1 E	-	X	X	-	X	-	-	X	-	-	-

FRANCE Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 17 February 1998		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	-	-
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: 17 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16537	5791	36.8S	111.2E	-	-	X	X	X	-	-	-	-	-	-
16538	27934	47.2S	90.3E	-	-	X	X	X	-	-	X	-	-	-
23581	14418	7.3S	58.4E	X	-	X	X	X	-	-	-	-	-	-
23582	14419	2.1S	81.8E	X	-	X	X	X	-	-	-	-	-	-
23585	5882	14.9N	61.2E	X	-	X	-	X	-	-	X	-	-	-
51682	5245	17.3S	143.4W	-	-	X	X	X	-	-	X	-	-	-
51684	5247	11.5S	144.8W	-	-	-	-	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
13536	1610	12.5N	56.4W	-	-	-	-	X	-	-	X	-	-	-
13537	1611	1.4N	7.2E	-	-	-	-	X	-	-	X	-	-	-
13538	1612	1.8N	4.7W	-	-	-	-	X	-	-	X	-	-	-
13539	1613	12.3N	44.7W	-	-	-	-	X	-	-	X	-	-	-
13540	1614	7.6N	34.9W	-	-	-	-	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
44609	5879	54.0N	24.9W	X	-	X	-	X	-	-	X	-	-	-
44610	5881	44.9N	44.7W	X	-	X	-	X	-	-	X	-	-	-
62519	5250	49.9N	16.1W	-	-	X	X	X	-	-	X	-	-	-
62553	03009	54.0N	20.9W	X	X	X	X	X	-	-	-	-	-	-
62554	14430	59.3N	3.0W	-	-	X	X	X	-	-	-	-	-	-
62557	27930	47.8N	13.5W	-	-	X	X	X	-	-	X	-	-	-
62558	27931	54.2N	11.7W	-	-	X	X	X	-	-	X	-	-	-
62567	15527	45.9N	13.7W	X	-	-	-	X	-	-	-	X	-	-
62751	15503	46.3N	19.5W	X	-	X	-	X	-	-	-	X	-	-
62753	15508	44.0N	18.4W	X	-	-	-	X	-	-	-	X	-	-
62755	15510	44.0N	18.2W	X	-	X	-	X	-	-	-	X	-	-
62756	15513	44.8N	17.9W	X	-	-	-	X	-	-	-	X	-	-
62757	15514	44.9N	17.3W	X	-	-	-	X	-	-	-	X	-	-
62758	15516	42.4N	18.6W	X	-	X	-	X	-	-	-	X	-	-
62759	15529	43.7N	18.0W	X	-	-	-	X	-	-	-	X	-	-

ARGOS SERVICE

ARGOS
Monthly Status Report

Date of statistics
computation:
2 February 1998

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

Drifting Buoys	1044
Boats (<20 knots)	-
Marine Stations	158
Moored Buoys	284
Fixed Stations	598
Marine Animals	123
Terrestrial Animals	58
Birds	81
Balloons	4
Rafos Floats	-
TOTAL:	2350

• **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	146
Fixed Stations	23
Moored Buoys	6
XBT Ships	18

Inserted by RTH/WMC Washington:

Drifting Buoys	426
Fixed Stations	39
Moored Buoys	65
XBT Ships	-

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

BATHY	390
BUOY	221604
SHIP:	-
SYNOP:	30401
TOTAL:	252395

**2.2 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 observ-

ing programmes of SYNOP, TEMP and PILOT reporting stations.

Members are urged to fill in the special table (see pages 21 and 22) 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".

**2.3 PUBLICATION NO. 9
VOLUME A - OBSERVING STATIONS**

Notification from the Russian Federation

According to the work program of the Russian Antarctic Expedition, meteorological observations will be continued during 1998 in the Antarctic at the following stations:

Bellingshausen,
Novolazarevskaya,
Molodezhnaya,
Mirny and
Vostok.

Upper-air observations will be carried out at:

Bellingshausen,
Novolazarevskaya and
Mirny.

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS	
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18		
Region I - AFRICA																					
BOTSWANA																					
CHANGES																					
68244	GABORONE	24 40S	25 55E	1000	983	850	HPA	Operations suspended on 26.08.97 to allow construction work of the meteorological head-quarters to proceed smoothly.		
MADEIRA																					
CHANGES																					
08522	FUNCHAL	32 38N	16 54W	56	58			.	.	.	X	X	X	X	X	X	.	RW* CLIMAT(CT);OZONE;RADSAMP;SEA/SWELL; SEATEMP(observed from the coastal point nearest the station); SOILTEMP; SUNDUR;WT; *these observations will not include data on the wind aloft			
Region II - Asia																					
CHINA																					
CHANGES																					
54929*	<u>FEIXIAN</u>	35 15N	<u>117 57E</u>	120				X	X	X	X	X	.	X	X	.	.	.	*Previously 54529 FEZZXAN		
DELETED																					
54938	LINYI																				
INDIA																					
CHANGES																					
42316	DIGBOI	<u>27 33N</u>	95 37E	<u>152</u>	143			.	X	.	.	X			
42623	<u>IMPHAL</u>	<u>24 40N</u>	93 54E	<u>774</u>				X	X	X	X	X	X	X	X	X	H01-09, P	P	P	P	A;EVAP;OBS. RECORDED ONLY* 00*, 10-12*
43278	<u>NUMGAMBAKKAM</u>	13 04N	<u>80 12E</u>	7	<u>13</u>			<u>X</u>	X	<u>X</u>	<u>X</u>	X	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
43311	<u>M.O. AMINI</u>	11 07N	72 44E	<u>3</u>	<u>12</u>			X	X	X	X	X	X	X	X	X	C;EVAP
43331	<u>M.O. PONDICHERRY</u>	11 58N	79 49E	38	38			X	X	X	X	X	X	X	X	X					
NEW																					
43266	M.O. AGATHI AIRPORT	10 51N	72 28E	3				.	X	.	.	X					
43320	M.O. KARIPUR AIRPORT	11 08N	75 57E	100	107			.	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	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
Region V - SOUTH-WEST PACIFIC																				
FRENCH POLYNESIA (AUSTRAL ISLANDS)																				
CHANGES																				
91954	TUBUAI	23 21S	149 29W	3	2			X	X	X+	X+	X+	X	X	X	H15-03	RW	.	.	P* AUT+;C;CLIMAT(CT); extra obs.& launch made on request in adverse weather; M/B; SEA; SOLRA; SUNDUR; WN(GPS); *launched at 1600UTC
91958	RAPA	27 37S	144 20W	2	1			X	X	X+	X+	X+	X	X	X	H15-03	RW	.	.	P* AUT+; C;CLIMAT(CT); extra obs.& launch made on request in adverse weather; M/B; SPECI; SUNDUR; WN(GPS); *launched at 1600UTC
FRENCH POLYNESIA (MARQUESAS ISLANDS)																				
CHANGES																				
91925	ATUONA	09 48S	139 02W	52	51			X	X	X	X+	X+	X	X	X	H15-06	RW	.	.	P* AUT+;C;CLIMAT(CT);extra obs.& launch made on request in adverse weather; M/B; SEA; SOLRA; SUNDUR;WN(GPS);*launched at 1600UTC
FRENCH POLYNESIA (SOCIETY ISLANDS)																				
NEW																				
91929#	BORA-BORA	16 27S	151 45W	3	4			X	X+	X+	X+	X+	X+	X	X	H17-02	P	.	.	P A;AUT+;C;CLIMAT(C);extra obs.& launch made on request in adverse weather;;M/B;METAR;SEA;SPECI;SUNDUR; #91929 - Bora-Bora Aerodrome: 16°26'8S-151°45'0W
CHANGES																				
91930	BORA-BORA	<u>16 30S</u>	151 45W	3	4			CLIMAT STATION
91938	TAHITI-FAAA	17 33S	149 37W	2	2			X	X	X	X	X	X	X	X	H00-24	RW	.	.	P* A;AUT;C;CLIMAT(CT);M/B;METAR;RSD; SEA; SOLRA;SPECI;SUNDUR;WN(GPS); *launched at 1600UTC
FRENCH POLYNESIA (TUAMOTU ISLANDS AND GAMBIER ISLANDS)																				
CHANGES																				
91943	TAKAROA	14 29S	145 02W	3	2			X	X+	X+	X+	X+	X	X	X	H15-00	P	.	.	P* C;CLIMAT(C);extra obs.& launch made on request in adverse weather; M/B;SEA;SUNDUR;*launched at 1600UTC
91944	<u>HAO (automatic station only)</u>	18 04S	140 57W	7	2			X+	X+	X+	X+	X+	X+	X+	X+	H00-24	.	.	.	AUT+

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
91945	HEREHERETUE	19 52S	145 00W	3	2			X	.	X	.	.	X	X	X	H15-00	P	.	.	P* C;CLIMAT(C);extra obs.& launch made on request in adverse weather; M/B; SEA;SUNDUR; *launched at 1600UTC
91948	RIKITEA	23 08S	134 58W	89	91			X	X+	X+	X+	X+	X	X	X	H15-01	RW	.	.	P* C;CLIMAT(CT);extra obs.& launch made on request in adverse weather; M/B; SEA; SOLRA; SUNDUR; WN(GPS); *launched at 1600UTC
DELETED																				
91952	MURUROA																			
NEW ZEALAND																				
DELETED																				
93064	TINOPAI																			
VANUATU																				
CHANGES																				
91551	SOLA (VANUA LAVA)	13 51S	167 33E	18	17			X	.	X	.	X	.	X	.					CLIMAT(C);METAR;SUNDUR
91554	PEKOA AIRPORT (SANTO)	15 31S	167 13E	44	41			X	.	X	.	X	.	X	.					A;CLIMAT(C);METAR
91555	LAMAP (MALEKULA)	16 25S	167 48E	26	26			X	.	X	.	X	.	X	.					CLIMAT(C);METAR
91557	BAUERFIELD (EFATE)	17 42S	168 18E	21	20			X	.	X	.	X	.	X	.	H00-24	RW	.	W	A;CLIMAT(CT);METAR;SEATEMP (measured in Port Vila Harbour at 2000 UTC - reported at 0000 UTC; SOLRA;SUNDUR
91565	BURTONFIELD (TANNA)	19 32S	169 15E	73	70			X	.	X	.	X	.	X	.					A;CLIMAT(C);METAR;SUNDUR
91568	ANEITYUM	20 14S	169 46E	7	6			X	.	X	.	X	.	X	.					CLIMAT(C);METAR;SUNDUR
Region VI - EUROPE																				
CZECH REPUBLIC																				
NEW																				
11464	MILESOVKA	50 33N	13 56E	836	833	925 HPA		X	.	X	.	X	.	X	.	H00-24	.	.	.	CLIMAT(C);MONT;SOILTEMP;SUNDUR
GREENLAND																				
CHANGES																				
04201	<u>QAANAAQ</u>	77 28N	63 13W	19	16			X*	X*	X*	X*	X*	X*	X*	X*	H00-24*	.	.	.	AUT*;C;SUNDUR

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS	
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18		
DENMARK AND FAROE ISLANDS																					
CHANGES																					
06011	<u>TORSHAVN</u>	62 01N	06 46W	55	54			X	X	X	X	X	X	X	X	H04-05,	RW	.	RW	.	C;CLIMAT(CT);SUNDUR;WN
																10-17,					22-23
06080	<u>ESBJERG</u>	55 32N	08 34E	29	30			X*	X#	X	X	X	X	X+	X	S**	.	.	.	.	A;AUT*;DST AUT ONLY 6+;DST AUT ONLY
															(6						6,7#;METAR/SPECI A/R**;AUT ONLY 6 (6)
)						
06142	ALBUEN	54 50N	10 58E	4	2			X	X	X	X	X	X	X	X	<u>H00-24*</u>	.	.	.	.	AUT*;C
GERMANY																					
NEW																					
10127	WILHELMSHAVEN	53 32N	08 10E	11	11			.	.	X	X	X	X	X	X		.	.	.	.
NEW																					
IRELAND																					
CHANGES																					
03971	MULLINGAR	53 32N	07 22W	104	101			<u>X</u>	<u>X</u>	<u>X</u>	X	X	X	<u>X</u>	<u>X</u>	H00-24	.	.	.	.	<u>AUT;SOILTEMP</u>
03974	CLONES	54 11N	07 14W	89	87			<u>X</u>	<u>X</u>	<u>X</u>	X	X	X	<u>X</u>	<u>X</u>	H00-24	.	.	.	.	<u>AUT;GAMMA RAY;SOILTEMP</u>
NETHERLANDS																					
NEW																					
06234	DEN HELDER	52 57N	04 47E	51				.	.	.	.	.	.	.	.		.	.	.	.	Combined radar reflectivity images
CHANGES																					
06260	DE BILT	52 06N	05 11E	<u>43</u>	=			X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW	<u>AGRIMET;CLIMAT(CT);EVAP;IONOS;LIT; RAD;</u> <u>RSD; SEISMO; SOILTEMP; SUNDUR;</u> <u>TOTRA;WR;combined radar reflectivity</u> <u>images</u>
NORWAY																					
NEW																					
01002	VERLEGENHUKEN	80 03N	16 15E	8	8			X	X	X	X	X	X	X	X		.	.	.	.	AUT
01113	GLOMFJORD	66 48N	13 59E	39	39			X	X	X	X	X	X	X	X		.	.	.	.	AUT
01365	FILEFJELL-GROVSTOLEN	61 11N	08 14E		910			.	.	X	.	X	.	X	.		.	.	.	.
DELETED																					
01002	GRAHUKEN																				
01006	ROST II																				

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS	
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18		
01389	<u>RENA-HAUGEDALEN</u>	61 10N	11 27E		240			X	X	X	.	X	.	X	.		.	.	.	.
01406	<u>SLATTEROY</u>	59 55N	05 04E	16	15			X	X	X	X	X	X	X			.	.	.	.	MAN/AUT
01415	STAVANGER/SOLA	58 53N	05 38E	9	9			X	X	X	X	X	X	X	H00-24; S03-22		.	.	.	.	A;C;CLIMAT(C)
01415	STAVANGER/SOLA	58 52N	05 40E	<u>37</u>				.	.	.	.	.	.	.		RW	.	RW	.	.	C;CLIMAT(T);WT
PORTUGAL																					
CHANGES																					
08579	LISBOA/GAGO COUTINHO	38 46N	09 08W	105	104			X	X	X	X	X	X	X		.	.	RW*	.	.	CLIMAT(T);EVAP;GAMMA RAY;NOCTRA; OZONE; RADSAMP; SOILTEMP; SOLRA; SUNDUR;TOTRA;WT; *these observations will not include data on the wind aloft
SWEDEN																					
NEW																					
02013	RITSEM	67 44N	17 28E	<u>532</u>	<u>533</u>			X	X	X	X	X	X	X			.	.	.	.	AUT
02297	BJUROKLUBB	64 29N	21 35E	<u>43</u>	40			X	X	X	X	X	X	X			.	.	.	.	AUT
CHANGES																					
02324	SVEG	<u>62 01N</u>	<u>14 12E</u>	<u>433</u>	<u>432</u>			X	X	X	X	X	X	X			.	.	.	.	SUNDUR
02418	KARLSTAD FLYGPLATS	59 22N	13 28E	50	46			X	X	X	X	X	X	X	S(1)		.	.	.	.	A;AUT;CLIMAT(C);SUNDUR;TOTRA;(1)For aeronautical operational requirements
02464	STOCKHOLM/BROMMA	59 22N	17 54E	15	15			X	X	X	X	X	X	X			.	.	.	.	A;AUT
02527	GOTEBORG/LANDVETTER	<u>57 67N</u>	<u>12 30E</u>	<u>164</u>	<u>164</u>			.	.	.	.	.	.	.		RW	RW	RW	RW		CLIMAT(T)
02550	<u>JONKOPING/FLYGPLATS</u>	57 45N	14 05E	218	220			X	X	X	X	X	X	X	S00-24		.	.	.	.	A;AUT;CLIMAT(C);SUNDUR
02590	VISBY FLYGPLATS	57 40N	18 21E	41	51			X	X	X	X	X	X	X	S00-24		.	.	.	.	A;AUT;CLIMAT(C);SUNDUR;TOTRA
DELETED																					
02012	RITSEM																				
02215	ARESKUTAN																				
02296	BJUROKLUBB																				
02446	VASTERAS/HASSLO																				
02460	STOCKHOLM/ARLANDA																				
02516	VINGA																				
SWITZERLAND																					
CHANGES																					
06669	LAEGERN	47 29N	08 24E	<u>843</u>	868			.	.	.	.	.	.	.			.	.	.	.	AUT;M;SOLRA;SUNDUR

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
UKRAINE																				
CHANGES																				
33228	TETERIV	50 42N	29 35E	132	132			X	X	X	X	X	X	X						<u>GAMMA RAY;PH;RADSAMP;SNOW;SOILTEMP</u>
33301	RIVNE	50 35N	26 08E	231	227			X	X	X	X	X	X	X	H02-17					<u>A;CLIMAT(C);GAMMA RAY;METAR; RAD; RADSAMP;SOILTEMP;SPECI</u>
33347	BORYSPIL'	50 20N	30 58E	122	121			X	X	X	X	X	X	X						<u>GAMMA RAY;OZONE;PH;RSD;SNOW; SOILTEMP; SOLRA; SUNDUR</u>
33393	L'VIV	49 49N	23 57E	323	319			X	X	X	X	X	X	X	H00-24	RW		RW		<u>A;CLIMAT(CT);GAMMA RAY;METAR;OZONE; RADSAMP; RSD; SOILTEMP; SPECI; SUNDUR;TOTRA</u>
33464	BILA TSEKVA	49 45N	30 07E	180	179			X	X	X	X	X	X	X						<u>GAMMA RAY;PH;SNOW;SOILTEMP;SUNDUR</u>
33484	ZOLOTONOSHA	49 41N	32 31E	96	94			X	X	X	X	X	X	X						<u>CLIMAT(C);GAMMA RAY;PH;SNOW;SOILTEMP</u>
33663	MOHYLIV-PODIL'S'KYI	48 27N	27 47E	78	77			X	X	X	X	X	X	X						<u>EVAP;GAMMA RAY;PH;SNOW;SOILTEMP</u>
33705	POMICHTNA	48 14N	31 24E	211	211			X	X	X	X	X	X	X						<u>CLIMAT(C);EVAP;GAMMA RAY; PH; RADSAMP; SNOW; SOILTEMP</u>
33723	KOMISARIVKA	48 26N	33 54E	118	118			X	X	X	X	X	X	X						<u>CLIMAT(C); GAMMA RAY; PH; SNOW; SOILTEMP; SUNDUR</u>
33791	KRYVYI RIH	48 02N	33 13E	124	123			X	X	X	X	X	X	X	H00-24	RW		RW		<u>A;CLIMAT(C);GAMMA RAY;METAR; RADSAMP;SOILTEMP;SPECI</u>
33834	ROZDIL'NA	46 51N	30 05E	148	146			X	X	X	X	X	X	X						<u>CLIMAT(C);GAMMA RAY;PH;SNOW;SOILTEMP</u>
33869	NOVA KAKHOVKA	46 47N	33 22E	25	26			X	X	X	X	X	X	X						<u>EVAP;GAMMA RAY;RADSAMP;SNOW</u>
33896	SARATA	46 01N	29 40E	14	12			X	X	X	X	X	X	X						<u>CLIMAT(C);GAMMA RAY;PH;SNOW;SOILTEMP</u>
33902	KHERSON	46 38N	32 34E	54	47			X	X	X	X	X	X	X						<u>CLIMAT(C);EVAP;GAMMA RAY;PH;RADSAMP; SNOW;SOILTEMP;SOLRA;SUNDUR;TOTRA</u>

I.

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H	UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18	
33915	ASKANIYA-NOVA	46 27N	33 53E	30	28			X	X	X	X	X	X	X	X					<u>CLIMAT(C);EVAP;GAMMA RAY;PH;SNOW;SOILTEMP;SOLRA;SUNDUR</u>
33966	KRYMS'KA	45 03N	34 36E	205	205			X	X	X	X	X	X	X					<u>EVAP;GAMMA RAY;PH;SNOW</u>	
33998	AI-PETRI	44 26N	34 05E	1180	1180	850 HPA		X	X	X	X	X	X	X					<u>CLIMAT(C);M;SNOW;SOILTEMP;SUNDUR; TOTRA</u>	
34302	BOHODUKHIV	50 12N	35 32E	203	202			X	X	X	X	X	X	X					<u>GAMMA RAY;SOILTEMP</u>	
34312	VELYKYI BURLUK	50 04N	37 23E	175	174			X	X	X	X	X	X	X					<u>GAMMA RAY;PH;SNOW;SOILTEMP</u>	
34510	ARTEMIVS'K	48 36N	37 59E	124	123			X	X	X	X	X	X	X					<u>CLIMAT(C);GAMMA RAY;PH;SNOW;SOILTEMP</u>	
34519	DONETS'K	48 04N	37 46E	225	224			X	X	X	X	X	X	X	H00-24				<u>A;CLIMAT(C);GAMMA RAY;METAR;RADSAMP; RSD;SOILTEMP;SPECI</u>	
34601	ZAPORIZHZHIA	47 48N	35 01E	112	107			X	X	X	X	X	X	X	H00-24				<u>A;CLIMAT(C);EVAP;GAMMA RAY;RADSAMP; RSD;SOILTEMP;SPECI</u>	

DELETED

33615 KREMENCUG

STATIONS IN THE ANTARCTIC (OPERATED BY FRANCE)

CHANGES

89642 DUMOND D'URVILLE 66 40S 140 01E 43 41 X X X X X X* X* X* H23-12 RW . . . AUT*;C;CLIMAT(CT);COSRA;IONOS;MAGNET;NLC;
OZONE;SEISMO;SOLRA;SUNDUR;WN

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;
- H A = 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.

III. Global Telecommunication System

1. INFORMATION ON THE OPERATION OF THE GTS

Second monitoring exercise on the exchange of addressed messages on the MTN

Thirteen RTHs on the Main Telecommunication Network participated in the specific monitoring on the exchange of addressed messages on the MTN carried out on 7 April 1997.

The Implementation Co-ordination on the MTN (ICM-MTN 97, Geneva, 8-12 December 1997) reviewed the results of the specific monitoring and noted discrepancies in routing arrangements. It urged RTHs on the MTN to follow the guidelines for the implementation of the routing of addressed messages. The ICM/MTN(97) was of the opinion that, before carrying a new specific monitoring on the exchange of addressed messages, the deficiencies observed during the April 1997 monitoring should first be mitigated. In this respect, tests for the exchange of addressed messages should be organized by pairs of MTN centres when the exchange was not tested during the April 1997 monitoring or when deficiencies were identified (no reception or delayed reception).

The ICM-MTN 97 agreed that RTHs on the MTN should be invited to:

- (a) Organize tests on the exchange of addressed messages before 3 March, with a view to mitigating the deficiencies revealed by the April 1997 monitoring;
- (b) Participate in a second monitoring exercise on the exchange of addressed messages on the MTN on 7 April 1998.

The results of the first monitoring exercise (Annex to paragraph 3.2.1 of the report of the ICM-MTN 97) and the invitation to carry out the above-mentioned tests and to participate in the second monitoring exercise have been dispatched to the RTH focal points.”

2. “ADDITIONAL” DATA AND PRODUCTS

Related to Resolution 40 (Congress-XII) WMO policy and practice for the exchange of meteorological and related data and products, including guidelines on relationships

Reference to *Operational Newsletter* Volume 1997 - No. 9/10 - September/October 1997

The following pages:

Pages refer to Edition
published in Newsletter
No. 9/10-97

Region I	Canary Islands (Spain)	Page 47
Region VI	Finland	Page 65
	Ireland	Page 75
	Norway	Page 79
	Spain	Page 83-84
	Sweden	Page 85
	United Kingdom of Great Britain and Northern Ireland	Page 87-92

have been amended and should be replaced by the attached pages numbered “Operational Newsletter Page 25 to Page 42”.

The complete updated list is available electronically at the following location:

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

The printed form however will be published in the Newsletter at the end of the year. The last complete listing was issued in the *Operational Newsletter* Volume 1997 - No. 9/10 - September/October 1997.

Circular letters to all WMO Members will be dispatched in April and October of each year to inform on updates or other changes of “additional” data and products.

It would be helpful if you could provide us with your updates also via email. Our email address is as follows:

pwoi@www.wmo.ch

IV. Data Management and Codes

1. Publication No. 306 -MANUAL ON CODES
Volume II
Regional Codes and National Coding Practices

Region IV - United States of America

Part E - National Coding Procedures with Regard to International Code Forms

Insert Page II-4-E-9: FM 37 TEMP DROP

As an exception starting on 7 April 1998 at 1200 UTC and continuing until the requested modifications to the TEMP DROP code forms have been implemented, the U.S.A. will add the following:

1. In Part A, add the following after SECTION 4
SECTION 10 61616 } Code groups developed nationally
 62626 }

2. In Part C, add the following after SECTION 4
SECTION 10 61616 } Code groups developed nationally
 62626 }

The text following the indicator group "61616", as national practice data within all TEMP DROP reports for all parts (A - D) will be a character string of six fields:

FIELD₁ FIELD₂ FIELD₃ FIELD₄ FIELD₅ FIELD₆

FIELD₁ 5-character Agency/Aircraft Identifier:

- for the US Air Force, the string "AF" plus last 3 digits of tail number
- for the National Oceanographic and Atmospheric Administration, the string "NOAA" plus last digit of tail number

FIELD₂ 5-character Mission Storm System Indicator:

- Characters 1-2 are either numerics denoting the sequential number of the mission in this storm, or else the string "WX" in the case of a non-tasked mission.
- Characters 3-4 are either numerics denoting the depression number or else one of the strings "WS", "WX", "XX", "YY", or "ZZ" if not a depression.
- Character 5 denotes the location of the system, or in the case of no system then use the point of origin/ departure of the mission:
A = Atlantic, Caribbean, or Gulf of Mexico
C = Central Pacific
E = Eastern Pacific
W = Western Pacific

FIELD₃ Variable length character string describing the nature of the mission, for example:
the system name,

- "CYCLONE",
- "INVEST" (short for "INVESTIGATION") in the cases of unnamed systems or investigative missions,
- "TRAIN" for untasked, non-storm related missions, or
- "TRACKxx" where xx is the track number for winter storm operations.

FIELD₄ The string "OB" (short for "OBSERVATION").

FIELD₅ 2 or 3 digits denoting the sequential number of the observation, taking into account *all* RECCO, TEMP DROP, vortex, and supplemental reports for this mission.

FIELD₆ 4-letter ICAO identifier for the station that copied and disseminated the observations.

The USA will also include a free-form character string following the indicator group “62626” as national practice data within all TEMP DROP reports for all parts (A - D).

**Appendix: Satellite Ephemeris Codes
United States Code TBUS**

Page II- App.- 21, after hh.....zz Spares, insert:

The first eight spare groups in Part IV (hh zz) are used with the following meanings:

- hhhhhhh Equator crossing longitude of the epoch reference orbit, measured as East longitude, to five decimal places;
- iiiiii Month, day, and year (MMDDYY) of the last TIP clock correction;
- jjjjj Sign and clock error after last correction, measured in seconds, to three decimal places (*);
- kkkkk Month, day, and year (MMDDYY) of the current clock error;
- lllll Sign and current clock error, measured in seconds, to three decimal places (*);
- mmmmm Month, day, and year (MMDDYY) of the measured clock error rate;
- nnnnn Sign and clock error rate, expressed as milliseconds/day (*); and
- ooooo Month, day, and year (MMDDYY) of the next TIP clock correction (ooooo if unknown), where (*) indicates that these entries will be set to 999999 if the value is unknown, and all signed values in Part IV are preceded by a “P” or “M” to denote a plus (+) or minus (–) value.

Part F - National Code Forms

Add after every section: RMK ... Special text ...

Code Form:

SECTION 1 (Mandatory)	9XXX9 ddfff (RMK ... Special text ...)	GGggi _d TTT _d T _d w	YQL _a L _a L _a /jHHH	L _o L _o L _o Bf _c	h _a h _a h _a d _d
SECTION 2 (Additional)	1k _n N _s N _s N _s 7I _r I _r S _b S _e (RMK ... Special text ...)	Ch _s h _s H _t H _t 7h _i h _i H _i H _i	(Ch _s h _s H _t H _t) 8d _r d _r S _r O _e	4ddff 8E _w E _l c _e i _e	6W _s S _s W _d d _w 9V _i T _w T _w T _w
SECTION 3 (Intermediate)	9XXX9 ddfff (RMK ... Special text ...)	GGggi _d TTT _d T _d w	YQL _a L _a L _a /jHHH	L _o L _o L _o Bf _c	h _a h _a h _a d _d

RMK ... Special text...

This special text contains seven fields of characters.

Field 1: 5-character Agency/Aircraft Identifier:

- For the US Air Force, the string "AF" plus last 3 digits of tail number
- For the National Oceanographic and Atmospheric Administration, the string "NOAA" plus last digit of tail number

Field 2: 5-character Mission Storm System Indicator:

Characters 1-2 are either numerics denoting the sequential number of the mission in this storm, or else the string "WX" in the case of a non-tasked mission or "WS" for winter.

Characters 3-4 are either numerics denoting the depression number or else one of the strings "WS", "WX", "XX", "YY", or "ZZ" if not a depression.

Character 5 denotes the location of the system or in the case of no system then use the point of origin/departure of the mission:

A = Atlantic, Caribbean, or Gulf of Mexico
 C = Central Pacific
 E = Eastern Pacific
 W = Western Pacific

Field 3: Variable length string describing the nature of the mission, for example: the system name, "CYCLONE", "INVEST" (short for "INVESTIGATION") in the cases of unnamed systems or

investigative missions, "TRAIN" for untasked, non-storm related missions, or "TRACKxx" where "xx" is the track number for winter storm operations.

Field 4: The string "OB" (short for "OBSERVATION").

Field 5: 2 or 3 digits denoting the sequential number of the observation, taking into account *all* RECCO, TEMP DROP, vortex, and supplemental reports for this mission.

Field 6: 4-letter ICAO identifier for the station that copied and disseminated the observations.

Field 7: Additional remarks may be included as follows:

- (1) For the first weather observation, include the ICAO 4-letter identifier for the departure station, time of departure, and estimated time of arrival (ETA) at the interest points, coordinates of the storm, or control point as applicable.
- (2) For diverted aircraft, the first observation on the new mission will include the time of diversion and ETA of coordinates of interest.
- (3) For the final weather observation, include ETA, destination, number of observations, and ICAO identifier of monitoring station that copied the observations.

Part E - National Coding Procedures with Regard to International Code Forms

FM-15 METAR, FM 16 SPECI Austria (Page II-6-E-10b)

Subject: VVVVDv VxVxVxVxDv

Stations on Airports:

For the group VVVV the prevailing visibility is used instead of the minimum visibility. The group VxVxVxVxDv reports the additional minimum visibility or instead of minimum visibility the maximum visibility;

Dv is only reported with the group VxVxVxVxDv

Other stations:

For reporting VxVxVxVxDv additional criteria are used; so this group will be reported more often. When the visibility is 10 km or more at some stations, it is coded in steps of 1 km up to 30 km and in steps of 5 km above 30 km, followed by the abbreviation KM (eg. visibility of 23 km is coded as 23KM, and 99KM indicates a visibility of 100 km or more.

FM-51 TAF (page II-6-E-27)

The forecasted visibility has to be understood as prevailing visibility.

FM 12-XI SYNOP**Czech Republic** (*the amended text is underlined*)

Subject: 9S_pS_pS_pS_p, please replace the existing text with the following text:

9S_pS_pS_pS_p This group is used in the following forms:

910ff, 911ff, 919M_wD_a, 9298S'_g, 9299S'_g, 931ss, 932RR, 934RR, 935RR, 936RR, 937RR, 951N_vn₄, 96048 and 96049.

The group 911ff is used to report the highest gust during the period covered by W₁W₂ if ff is equal to or higher than 20 m s⁻¹.

The groups 90710 931ss are used to report the depth of newly fallen snow during the preceding one hour if this depth of newly fallen snow is equal to or higher than 1 cm.

The other groups shall be transmitted regardless of the intensity of the phenomenon.

<h2>2. Information on the Year 2000 Problem</h2>
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With the change from the year 1999 to the year 2000 various problems are likely to occur with software and even hardware of computer systems. The WMO Executive Council underlined that the problem is not merely a national one but could affect the operation of the World Weather Watch as a whole, in particular the basic observations and the operations of RTHs, WMCs and RSMCs. It urged NMHSs to pay serious attention to the matter to ensure that necessary changes to computer systems and applications are made in good time.

Please note that the Year 2000 problem is not just a mainframe issue. Most PC's do not handle dates beyond 31 December 1999 properly! Tests indicate 90% of pre-1997 PCs fail as do nearly 50% of those built in 1997.

The WMO Secretariat has established a set of pages accessible via the Internet World Wide Web which contain general information on the year 2000 Problem, software for checking a PC for year 2000 compliance, and information on the year 2000 status of a variety of computer hardware and software systems important to meteorology. The introductory page is located at:

<http://www.wmo.ch/web/www/y2k-info.html>

A directory has also been established on the WMO FTP server (www.wmo.ch) to exchange information on the Year 2000 Problem. The directory is: **In-box/year-2k-news**. You can access this directory via anonymous FTP and down-load files to read or upload information you would like to share.