

OPERATIONAL NEWSLETTER

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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:

- I. The Global Observing System
- II. The Global Telecommunication System
- III. The Global Data-Processing System
- IV. Data Management and Codes
- V. 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 *Newsletter* is also available at the following locations:

For access via FTP:

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

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<http://www.wmo.ch/web/ddbs/jen/Newsletters/index.html>

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

1.1 GOS Regulatory or Guidance Material

Changes in the Allocation of Station Index Numbers

The President of Regional Association VI has approved the allocation of station index numbers for stations operated by non-Members in the region. The range 40210 to 40249 shall be used for non-Member observing stations in the Middle Eastern area of RA VI. Assignments of index numbers from this range to observing stations will be made by the WMO Secretariat.

1.2 Guidance Material on Instruments and Observing Methods

"WMO Catalogue of Radiosondes and Upper-air Wind Systems in use by Members"

The new November/December 1998 edition of the above Catalogue is attached at the end of this Newsletter and is also available at the following URL:

<http://www.wmo.ch/web/ddbs/jen/>

[CatalogueOfRadiosondes&Upper_airWindSystems/index.html](http://www.wmo.ch/web/ddbs/jen/CatalogueOfRadiosondes&Upper_airWindSystems/index.html)

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

[RadiosondeStns/](http://www.wmo.ch/wmo-ddbs/OperationalInfo/RadiosondeStns/)

1.3 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, 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 table attached as and when appropriate, and to return it to the Secretariat before the 20th of every other month, i.e. February, April, June, August, October, December, to enable changes to be included in the next "Newsletter".

I.

1.4 Automatic Marine Stations

KEY: Observed or Technical Parameters

Column	Parameters	Column	Parameters
1	Wind direction, speed and peak wind	12	Battery Voltage (BV)
2	Air temperature		
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		
7	Wave spectra	B	Buoy beached, sensor reporting
8	Drogued	N	No sensor installed
9	Subsurface temperatures	Q	Data questionable, but reported
10	Relative humidity	R	Buoy Retrieved
11	Visibility	S	Sensor/system failure

CANADA

Moored Buoys

Moored Buoys (North-east Pacific Ocean)(SNVD17 & SXCN50 CWVR,SNVD04 CWEG)

WMO Buoy Identifier	ARGOS Identifier	Position: 5 Dec. 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46004	7180	50 58' N	135 48' W	X	X	X	X	X	X	X	N/A	-	-	-
46036	7195	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	7196	49 44' N	127 55' W	S	S	S	S	S	S	S	N/A	-	-	-
46145	7197	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	4485	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	X	X	X	N/A	-	-	-
46183	7186	53 37' N	131 06' W	X	X	X	X	X	X	X	N/A	-	-	-
46184	7182	53 54' N	138 52' W	X	X	X	X	X	X	X	N/A	-	-	-
46185	7194	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	7183	54 10' N	134 20' W	X	X	X	X	X	X	X	N/A	-	-	-
46206	7187	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	7184	52 30' N	132 42' W	X	X	X	X	X	X	X	N/A	-	-	-

Moored Buoys (North-west Atlantic Ocean)

WMO Buoy Identifier	ARGOS Identifier	Position: 5 Dec. 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44137	5579	41 50' N	060 56' W	X	X	X	X	X	X	X	N/A	-	-	-
44138	5577	44 16' N	053 37' W	X	X	X	X	X	X	X	N/A	-	-	-
44139	3448	44 11' N	057 33' W	X	X	X	X	X	X	X	N/A	-	-	-
44140	5576	43 50' N	051 29' W	X	X	X	X	X	X	X	N/A	-	-	-

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44141	3449	42 07' N	056 11' W	*	X	X	X	X	X	X	N/A	-	-	-
44142	5578	42 30' N	064 01' W	X	X	X	X	X	X	X	N/A	-	-	-
44251	9234	46 26' N	053 23' W	X	X	X	X	X	X	X	N/A	-	-	-
44255	9233	47 17' N	057 21' W	X	X	X	X	X	X	X	N/A	-	-	-

Moored Buoys (Gt Slave Lk., Lk. Winnipeg, Great Lks., Gulf of St. Lawrence)

WMO Buoy Identifier	ARGOS Identifier	Position: 5 Dec. 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
45132	N/A	42 48' N	081 13' W	.	.	.	.	.	.	.	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	.	.	.	.	.	.	.	N/A	-	-	-
45137	N/A	45 33' N	081 01' W	.	.	.	.	.	.	.	N/A	-	-	-
45138	3436	49 33' N	065 46' W	.	.	.	.	.	.	.	N/A	-	-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	X	X	X	N/A	-	-	-
45140	8671	50 47' N	096 44' W	.	.	.	.	.	.	.	N/A	-	-	-
45141	N/A	61 07' 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	-	-	-
45150	3439	61 55' N	113 45' W	.	.	.	.	.	.	.	N/A	-	-	-

Drifting Buoys, Pacific Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 1 Dec. 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	12517	54 42' N	141 36' W	X	X	X	X	X	.	.	X	-	-	-
46641	12511	50 54' N	129 42' W	.	X	X	X	X	.	.	X	-	-	-
46657	12516	51 54' N	157 54' W	S	S	S	S	S	.	.	S	-	-	-
46660	12520	42 48' N	158 18' W	S	S	S	S	S	.	.	S	-	-	-
46661	12521	45 48' N	154 18' W	X	S	X	X	X	.	.	X	-	-	-
46692	12513	43 06' N	142 54' W	S	X	X	X	X	.	.	X	-	-	-
46698	12515	47 18' N	152 12' W	X	S	X	X	X	.	.	X	-	-	-

Remarks:

- 44140 - Deployed Nov. 06.
- 44141 - Winds u/s Sept 03/98.
- 44153 - Buoy recovered in Sept.
- 45132 - Removed for the Winter Nov. 23.
- 45136 - Removed for the Winter.
- 45137 - Removed for the Winter Nov. 02.
- 45138 - Removed for the Winter Nov. 25.
- 45140 - Removed for the Winter Oct. 23.
- 45141 - Removed for the Winter Oct. 14.
- 45142 - Removed for the Winter Nov. 24.
- 45143 - Removed for the Winter Nov. 18. Failed Nov. 06.

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- 45144 - No deployment in 1998.
- 45150 - Removed for the Winter Sept. 23.
- 46661 - Air temp failed Sept. 06.
- 46692 - Wind failed Nov.20.
- 46698 - Air temp. failed Oct 05

Failed:

- 44139 - Goes xmtr failed.
- 46132 - Failed Nov 27. Xmtng DBE.
- 46660 - Failed Nov. 25.
- 46657 - Drifter buoy failed Oct. 28.

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 4 December 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: 26 Nov-3Dec 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.68N	72.64W	X	X	X	-	X	X	X	-	-	-	-
41002*		32.28N	75.20W	X	X	X	-	X	X	X	-	-	-	-
41004		32.51N	79.10W	X	X	X	-	X	X	X	-	-	-	-
41008*		31.40N	80.87W	X	X	X	-	S	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	S	X	-	S	X	X	-	-	-	-
42002*		25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-
42003*		25.94N	85.91W	X	X	X	-	X	X	X	-	-	-	-
42007		30.10N	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	S	S	-	-	-	-
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	S	X	X	-	X	X	X	-	-	-	-
44004*		38.46N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44005*		42.90N	68.89W	X	X	X	-	X	X	X	-	-	-	-
44007		43.53N	70.14W	X	X	X	-	S	X	X	-	-	-	-
44008*		40.50N	69.43W	X	X	X	-	X	X	X	-	-	-	-
44009*		38.46N	74.70W	X	X	X	-	X	X	X	-	-	-	-
44011*		41.08N	66.58W	X	X	X	-	X	X	X	-	-	-	-
44013		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44014		36.58N	74.83W	X	X	X	-	X	X	X	-	-	-	-
44025		40.25N	73.17W	X	X	S	-	X	X	X	-	-	-	-

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45001*		48.06N	87.78W	R	R	R	-	R	R	R	-	-	-	-
45002*		45.30N	86.42W	R	R	R	-	R	R	R	-	-	-	-
45003*		45.33N	82.77W	R	R	R	-	R	R	R	-	-	-	-
45004*		47.56N	86.55W	R	R	R	-	R	R	R	-	-	-	-
45005*		41.67N	82.39W	X	X	X	-	X	X	X	-	-	-	-
45006*		47.32N	89.87W	R	R	R	-	R	R	R	-	-	-	-
45007*		42.67N	87.02W	X	X	X	-	X	X	X	-	-	-	-
45008*		44.28N	82.42W	R	R	R	-	R	R	R	-	-	-	-
46001*		56.30N	48.17W	S	X	X	-	X	X	X	-	-	-	-
46002*		42.53N	30.26W	D	D	D	-	D	D	D	-	-	-	-
46003*		51.85N	55.92W	X	X	X	-	X	X	X	-	-	-	-
46005*		46.08N	31.00W	X	X	X	-	X	X	X	-	-	-	-
46006*		40.84N	37.49W	X	X	X	-	X	X	X	-	-	-	-
46011		34.88N	20.87W	X	X	X	-	X	X	X	-	-	-	-
46012		37.39N	22.72W	X	X	X	-	X	X	X	-	-	-	-
46013		38.23N	23.33W	X	X	X	-	X	X	X	-	-	-	-
46014		39.22N	23.97W	X	X	X	-	S	X	X	-	-	-	-
46022		40.74N	24.51W	X	X	X	-	X	X	X	-	-	-	-
46023		34.71N	20.97W	X	X	X	-	X	X	X	-	-	-	-
46025		33.75N	19.08W	X	X	X	-	X	X	X	-	-	-	-
46026*		37.76N	22.83W	S	X	X	-	X	X	X	-	-	-	-
46027		41.85N	24.38W	S	S	S	-	S	S	S	-	-	-	-
46028		35.74N	21.89W	X	X	X	-	X	X	X	-	-	-	-
46029*		46.12N	24.50W	X	X	X	-	X	X	X	-	-	-	-
46030		40.42N	24.53W	X	X	X	-	X	X	X	-	-	-	-
46035		56.91N	77.81W	X	X	X	-	X	X	X	-	-	-	-
46041		47.42N	24.53W	X	X	X	-	X	X	X	-	-	-	-
46042		36.75N	22.42W	X	X	X	-	X	X	X	-	-	-	-
46045		33.84N	18.45W	X	X	X	-	X	X	X	-	-	-	-
46050		44.62N	24.53W	X	X	X	-	X	X	X	-	-	-	-
46053		34.24N	19.85W	X	X	X	-	X	X	X	-	-	-	-
46054		34.27N	20.45W	X	X	X	-	X	X	X	-	-	-	-
46059		37.98N	30.00W	X	S	S	-	X	X	X	-	-	-	-
46060		60.58N	46.83W	X	X	X	-	X	S	S	-	-	-	-
46061		60.22N	46.83W	X	X	X	-	X	X	X	-	-	-	-
46062		35.10N	21.01W	X	X	X	-	X	X	X	-	-	-	-
46063		34.25N	20.66W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.40N	62.27W	X	X	X	-	X	X	X	-	-	-	-
51002*		17.19N	57.83W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.17N	60.73W	X	X	X	-	X	X	X	-	-	-	-
51004*		17.44N	52.52W	X	X	X	-	X	X	X	-	-	-	-
51028		00.00N	53.88W	X	X	X	-	X	X	X	-	-	-	-

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

Total Base Funded Buoys: 30
 Total Other Buoys : 37
 Total Moored Buoys : 67

I.

REMARKS (dates are represented as follows (mm/dd/yy):

41008 - Water temp data failed 8/11/98.
42001 - Water temp data failed 4/6/98, air temp data failed 9/10/98.
42007 - Wave data failed 10/21/98, serviced and restored 12/1/98.
42020 - Wave data failed 11/10/98.
42040 - Wind data failed 11/10/98, service scheduled week of 1/11/99.
44007 - Water temp data failed 8/14/98.
44025 - Pressure data failed 10/27/98.
45001 - Buoy recovered for winter season 10/21/98.
45002 - Buoy recovered for winter season 11/5/98.
45003 - Buoy recovered for winter season 11/6/98.
45004 - Buoy recovered for winter season 10/21/98.
45005 - Recovery scheduled week of 12/7/98.
45006 - Buoy recovered for winter season 10/21/98.
45007 - Recovery scheduled week of 12/7/98.
45008 - Buoy recovered for winter season 11/16/98.
46001 - Wind data failed 11/13/98.
46002 - Buoy confirmed adrift 9/24/98.
46003 - Parity errors in data.
46014 - Water temp data failed 11/22/98.
46026 - Wind data failed 10/23/98.
46027 - Station failed 10/2/98.
46035 - Parity errors in data.
46041 - Station failed 12/1/98.
46054 - Parity errors in data.
46059 - Air temp and pressure data failed 12/10/97.
46060 - Wave data failed 11/14/98.

NEW ZEALAND

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 1 December 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
8583	55590	40.8 S	153.1 E	-	X	X	-	X	-	-	X	-	-	-
8584	55587	41.8 S	161.5 E	X	X	X	-	X	-	-	X	-	-	-
8587	55571	40.0 S	161.9 E	-	X	X	-	X	-	-	X	-	-	-
20721	55576	36.5 S	163.3 E	-	X	X	-	X	-	-	X	-	-	-
22186	55575	32.2 S	175.5 E	-	X	X	-	X	-	-	X	-	-	-
22187	55573	40.0 S	162.8 E	-	X	X	-	X	-	-	X	-	-	-

ARGOS SERVICE ARGOS Monthly Status Report

**Date of statistics computation:
3 December 1998**

• **REPORTS HANDLED BY ARGOS SERVICE**

(list of monthly collected ARGOS platforms sorted by type of platform)

Drifting Buoys	1092
Boats (<20 knots)	-
Marine Stations	117
Moored Buoys	310
Fixed Stations	623
Marine Animals	189
Terrestrial Animals	101
Birds	144
Balloons	6
Rafos Floats	110
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	127
Fixed Stations	20
Moored Buoys	7
XBT Ships	16

INSERTED BY RTH/WMC WASHINGTON:

Drifting Buoys	494
Fixed Stations	28
Moored Buoys	68
XBT Ships	-

• **CODING STATISTICS OF PLATFORMS**

reporting through ARGOS and distributed over the GTS:

BATHY:	435
BUOY:	228352
SHIP:	2528
SIMPLE:	762
SYNOP:	28958
TOTAL:	261035

1.5 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 and the Catalogue of Meteorological Bulletins.

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 WMO Secretariat
BEFORE the 20th of the month
 for inclusion in the
 “OPERATIONAL NEWSLETTER”

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

Country: _____

PLEASE TICK THE APPROPRIATE BOX

Global Exchange:

Regional Exchange:

Date effective: _____

(A)		(B)		(C)	(D)							(E)		(F)	(G)
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

1. INFORMATION ON THE OPERATION OF THE GTS

Routeing Catalogues of RTHs

The following RTHs transferred their routeing catalogues or included information on the means to access their routeing catalogues into the WMO FTP server under the sub-directories GTS_routeing/CCCC, CCCC being the location indicators of the RTHs:

RTH	CCCC
Algiers	DAMM
Bangkok	VTBB
Beijing	BABJ
Bracknell	EGRR
Cairo	HECA
Melbourne	AMMC
Moscow	RUMS
Nairobi	HKNC
New Delhi	DEMS
Nörrköping	ESWI
Offenbach	EDZW
Prague	OKPR
Pretoria	FAPR
Tokyo	RJTD
Toulouse	LFPW
Washington	KWBC

More detailed information on the implementation of the mirror site at RTH Offenbach is available in the WMO FTP server in the file GTS_routeing\mireadme.txt.

Results of the Special MTN monitoring (SMM)

The centres participating in the Special MTN monitoring archives the raw data during the monitoring periods. These raw data are processed by pre-analysis centres. The resulting pre-analysis files are further processed by the Secretariat and RTH Toulouse. The procedures for the SMM are further detailed in the WMO FTP server (wmo.wmo.ch) in the following files:

GTS_monitoring\procedur.txt (DOS text format)
GTS_monitoring\procedur.doc (word format)
GTS_monitoring\pre_anal.txt (DOS text format)
GTS_monitoring\pre_anal.doc (word format)

For the last two SMM exercises, the raw data archived by each monitoring centre, the pre-analysis files, the results of the analysis made by the Secretariat and the results of the analysis made by RTH Toulouse are available in the WMO FTP server. This enables any WWW centre to further use this information available from the SMM. Detailed information on these data and the means to access them is given in the WMO FTP server (www.wmo.ch) in the files:

(a) GTS_monitoring\SMM\from_WMO\smYYM01.015\ANALYSIS\readme.txt for the results of the analysis made by the Secretariat (YY being the year, M the month (2, 4, 7, A)).

(b) GTS_monitoring\SMM\To_WMO\PFLFPYYM\readme.txt for the results of the analysis made by RTH Toulouse (YY being the year, M the month (2, 4, 7, A)).

The format of the routeing catalogues is described in the file GTS_routeing/routread.txt.

In order to provide access to GTS information in case of problems with the currently used server www.wmo.ch, RTH Offenbach has installed a mirror site for the GTS routeing catalogues. The following procedures describe how the mirrored data can be accessed:

a) Establish an ftp connection to the mirror site using the command ftp: **ftp.dwd.de**

Login as user "anonymous" with your e-mail address as password **login: anonymous; password: your e-mail address**

Change to the directory that contains the GTS routeing catalogues: **cd GTS-routeing**

b) Use the URL **ftp://ftp.dwd.de/GTS_routeing** to access the information via your browser.

III.

FOCAL POINTS OF RTHS

The WMO Secretariat was informed of the following designation of focal points of RTHs:

RTH	Focal Point Name	E-mail	Tel.	Fax.	Address	Country
Algiers	Mr A. Kerbachi	onm@cerist.dz	213 250 7393	213 250 7940	Office national de la Météorologie, BP 153 DAR EL BEIDA	Algeria
Buenos Aires	Mr J.M. Afonso	afonso@meteofa.mil.ar	54 1 311 71 76	54 1 311 3968	Servicio Meteorologico Nacional, 25 de Mayo 658	Argentina
Vienna	Mr H. Cordes	horst.cordes@austrocontrol.co.at	443 1 1703 4280	443 1 1703 4006	Austro Control, Osterreichische Gesellschaft fur Zivilluftfahrt mbH, Schnirchgasse 11	Austria
Melbourne	Mr B. Sumner	b.sumner@bom.gov.au	613 9669 4349	613 9662 1222	Bureau of meteorology, G.P.O. Box 1289 K, Vic. 3001	Australia
Brasilia	Mr J. Mauro de Rezende	jmauro@inmet.gov.br	55 61 226 6961	55 61 226 6967	Instituto Nacional de Meteorologia, Eixo Monumental - via S1, 70610-400 Brasilia DF	Brazil
Sofia	Ms M. Grueva		3592 72 22 71/75	3592 88 03 80	National Institut of Meteorology and Hydrology, 66 Tzarigradsko chaussee Blvd	Bulgaria
Beijing	Mr Shi Peiliang		86 10 621 72 277	86 10 621 74 797	China Meteorological Administration, 46 Baishiqiao Road	China
Prague	Mr L. Keller	keller@chmi.cz	420 2 4403 2130	420 2 4403 2128	Czech Hydrometeorological Institute, Na Sabatce 17	Czech Republic
Cairo	Mr M.A.Bekhiet		20 2 83 01 05	20 2 284 98 57	Egyptian Meteorological Authority, P.O. Box 11784	Egypt

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RTH	Focal Point Name	E-mail	Tel.	Fax.	Address	Country
Toulouse	Mr F. Dutartre	Francis.Dutartre@meteo.fr	33 5 61 07 8150	33 5 61 07 8109	Service central d'exploitation de la Météorologie, SCEM/TTI/OP, 42, avenue G. Coriolis	France
Offenbach	Dr. H. Dunke	hdunke@dwd.d400.de	49 69 80 62 2866	49 69 80 62 2880	Deutscher Wetterdienst Zentralamt, Frankfurter Str. 135	Germany
New Delhi	Dr S.N. Srivastava	sris@ind.ernet.in	91 11 461 6051	91 11 469 9216	India Meteorological Department, Mausam Bhavan, Lodi Road	India
Tehran	Mr A. Borghei		98 21 600 40 41	98 21 646 90 44	Islamic Republic of Iran Meteorological Organization (IRMO), P.O. Box 13185-461	Islamic Republic of Iran
Tokyo	Mr K. Kashiwagi	Kashiwagi@hq.kishou.go.jp	81 3 3218 3825	81 3 3211 8404	Japan Meteorological Agency, 1-3-4 Otemachi, Chiyoda ku	Japan
Nairobi	Mr James Abongo	james.abongo@llion.meteo.gr.kc	254 2 567 880	254 2 567 888/9	Kenya Meteorological Department, P.O. Box 30259	Kenya
Wellington	Mr Kevin Alder	alder@met.co.nz	64 4 472 9379	64 4 473 8231	Customer Services Manager, Meteorological Service of New Zealand Ltd, 30 Salamanca Road, P.O. Box	New Zealand
Niamey	Mr Harouna Kimba		227 73 21 60	227 73 38 37	Météorologie nationale, Service météorologique du Niger, B.P. 218	Niger
Moscow	Mr L. Bezrouk	bez@mskw.mecom.ru	7095 255 14 77	7095 252 55 04	Russian Federal Services for Hydrometeorology and Monitoring of the Environment, Novovagankovsky	Russian Federation
Khabarovsk	Mr Y.I. Bukin	aspd@aspd.hbrw.mecom.ru	421 233 45 17	421 233 45 17	Dalnevostochnoe UGMS, 18 Lenina street	Russian Federation

III.

RTH	Focal Point Name	E-mail	Tel.	Fax.	Address	Country
Novosibirsk	Mr N.V. Virkhobsky		383 222 43 88	383 222 63 47	Zapadnosibirskoe UGMS, 30 Sovyetskaya Street	Russian Federation
Dakar	M. M. Sonko		221 820 1041	221 820 13 27	Direction de la Météorologie Nationale, B.P. 5287. Aeroport L.S. Senghor,	Senegal
Norrköping	Mr L. Brunfelt	lennart.brunfelt@smhi.se	46 11 158 553	46 11 170 207	Swedish Meteorological and Hydrological Institute	Sweden
Pretoria	Mr T. Potgieter	potgieter@cirrus.sawb.gov.za	27 12 309 30 95	27 12 323 4518	South African Weather Bureau, Department of Environment Affairs, Private Bag X097	South Africa
Bangkok	Mr S. Tansriratanawong		662 398 9875	662 398 9816	Meteorological Department, 4353 Sukumvit Road, Bang-Na	Thailand
Bracknell	Ms P. Dickinson	pdickinson@meto.gov.uk	44 1 344 854 476	44 1 344 854 543	Meteorological Office, London Road, Berkshire	United Kingdom
Washington	Mr J. Fenix	james.fenix@noaa.gov	1 301 713 08 77 ext.	1 301 608 09 11	National Weather Service, NOAA, Room 5146, 1325 East West Highway, Silver spring, Md 20910	USA
Tashkent	Mr V.E. Davydov	uzhymet@hmc.tashkent.su	7 3712 33 83 72	7 3712 33 20 25	Main Administration of Hydrology, 72 Observatorskaya Street	Uzbekistan
Maracay	Mr Tirso Carballo Gutierrez	semetfav@telcel.net.ve	58 43 544 021 or 546	58 43 546 975 or 338	Servicio de Meteorologia (FAV), Apartado de Correos 2197, Las Delicias Edo. Aragua	Venezuela
Lusaka	Mr F.P. Chibinga	zmd@amnet.zm	260 1 25 27 28	260 1 25 1889	Meteorological Department, P.O. Box 30200	Zambia

IV. DATA MANAGEMENT AND CODES

1. WMO Publication No. 306 - "Manual on Codes"

NATIONAL PRACTICES

National coding procedures with regard to international code forms:

Notification from Finland:

In accordance with the RA VI decision of starting to implement S.I. unit (metre/second) for reporting wind speed in Region VI, Finland has now implemented the decision for all SYNOP messages since 29 October 1998 at 12 UTC.

Notification from Germany:

Observing station operated by the Deutscher Wetterdienst and the German Military Geophysical Services have been reporting wind in S.I. unit (meter per second) in all non-aeronautical WMO and National Codes, since 3 November 09 UTC,

and since 4 November 18 UTC for some automatic stations.

Due to technical and methodical problems, a certain number of German sea stations will continue reporting FM 13 SHIP in knots until further notice.

Notification from the United States of America:

The USA notifies that as from February 1, 1999, U.S. National Weather Service upper-air stations will report the cloud data group in the WMO upper-air coded messages, FM35 TEMP, Part B, Section 8.