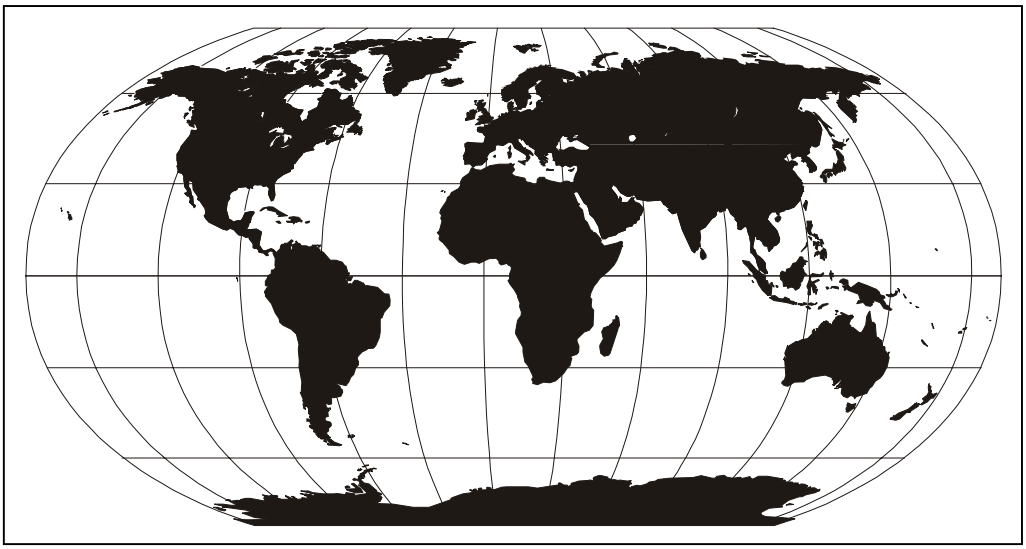
OPERATIONAL NEWSLETTER

World Weather Watch and Marine Meteorological Services



WORLD METEOROLOGICAL ORGANIZATION
GENEVA
SWITZERLAND

No. 03/04 - 2000
(March/April 2000)

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EDITORIAL

The Operational Newsletter provides information on the World Weather Watch and Marine Meteorological Services and has been issued since 1982 at the request of the Commission for Basic Systems. It is distributed by the World Meteorological Organization Secretariat and is aimed at providing World Weather Watch 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*
- *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.

Should you have any difficulties downloading, viewing or printing the Newsletter, please do not hesitate to contact us.

We look forward to hearing from you!

Acknowledgements:
The WMO Secretariat would like to express its appreciation to all those who have contributed material to the "Operational Newsletter".

Operational Newsletter:
6 issues per year:
January/February
March/April
May/June
July/August
September/October
November/December

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FORTHCOMING MEETINGS - 2000

Related to: The World Weather Watch and Marine Meteorological Services

The meetings relating to the Commission for Basic Systems (CBS) reflect the new working structure of the Commission, which was adopted at the Extra-Ordinary Session, held in September/October 1998 in Karlsruhe, Germany. For more information, please refer to the CBS-Ext. (98) Final Report.

Terminology adopted by CBS and used below:

CBS/OPAG-IOS Commission for Basic Systems/Open Programme Area on Integrated Observing Systems
CBS/OPAG-ISS Commission for Basic Systems/Open Programme Area on Information Systems and Services
CBS/OPAG-DPFS Commission for Basic Systems/Open Programme Area on Data-processing and Forecasting Systems
CBS/OPAG-PWS Commission for Basic Systems/Open Programme Area on Public Weather Services

Date	Place	Title of the Meeting
16-26 May 2000	Geneva	EC-LII
25 May 2000	Geneva	CBS/OPAG-ISS/ICT on Information Exchange Management
19-23 June	Geneva	CBS/OPAG-IOS Expert Team on the Redesign of the GOS
19-23 June	Tokyo	Expert Team/Surface Data Quality
3-7 July 2000	Lannion, France	CBS/OPAG-IOS/ET On Improving Satellite Systems Utilization and Product
3-7 July 2000 (tentative)	Geneva	CBS Expert Team on Requirements and Representation of Data from Automatic Weather Stations
10-14 July 2000	Montreal, Canada	PWS Expert Team on Warnings and Forecasts Exchange Issues
7-9 August 2000	Geneva	CBS/OPAG-ISS/ET on Quantity Monitoring of WWW
30 August - 1 September 2000	Geneva (tentative)	CGC - Eleventh Session
28 August - 1 September 2000 (Tentative)	Geneva (location to be decided)	IP-TT WMO InfoSys.
11-15 September 2000	Geneva (tentative)	CBS - Implementation/Coordination Team on the Global Observing System, First Session
27-29 September 2000	Bracknell, UK	ASAP Panel - 12th Session
4-6 October 2000	Geneva (tentative)	CBS SG on Radio Frequency
16-25 October 2000	Victoria, Canada	DBCP-16 and Argos JTA-20
23-27 October 2000	Beijing	TECO-2000, METEOREX-2000
27-28 November 2000	Geneva	CBS Technical Conference on ISS
27 November-8 December 2000	Geneva	Commission for Basic Systems - 12th Session

I. GLOBAL OBSERVING SYSTEM

1. 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	13	Dew Point
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

ODAS REPORT

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

WMO Buoy ID	ARGOS ID	Position: 1 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
46004	7195	50 59' N	135 48' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46036	5324	48 21' N	133 56' W	X	S	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 56' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46145	7183	54 23' N	132 25' 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	7184	51 50' N	131 14' W	S	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 07' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46184	7180	53 56' N	138 53' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46185	7194	52 25' 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	7185	54 10' N	134 17' 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	4485	50 53' N	129 55' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46208	7197	52 31' N	132 42' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-

Moored Buoys

North-west Atlantic Ocean

WMO Buoy ID	ARGOS ID	Position: 1 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
44137	5579	41 50' N	060 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 16' N	057 22' W	S	S	S	S	S	S	S	N/A	-	-	-	-	-
44140*	5576	43 51' N	052 15' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
44141	3449	42 05' N	056 19' W	X	S	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	-	-	-	-	-

*Buoy Adrift:

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

WMO Buoy ID	ARGOS ID	Position: 1 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
45132	N/A	42 28' 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	S	S	S	S	S	S	S	N/A	-	-	-	-	-
45138	3436	49 33' N	065 46' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45139	N/A	43 26' N	079 23' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45140	N/A	50 48' N	096 44' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45141	N/A	61 11' N	115 19' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45142	N/A	42 44' N	079 17' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45143	N/A	44 55' N	080 38' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45144	8671	53 15' N	098 50' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45150	3439	61 55' N	113 45' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45151	N/A	44 30' N	079 22' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45152	N/A	46 14' N	079 43' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-
45154	N/A	46 03' N	082 38' W	.	.	.	.	.	.	.	N/A	-	-	-	-	-

Drifting Buoys
Pacific Ocean

WMO Buoy ID	ARGOS ID	Position: 1 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
46660	12514	46 18' N	165 18' W	X	S	X	X	X	.	.	X	-	-	-	-	-
46661	12521	43 30' N	125 30' W	X	S	X	X	X	.	.	X	-	-	-	-	-
46692	12513	27 18' N	134 48' W	S	X	X	X	X	.	.	X	-	-	-	-	-
46698	12515	29 00' N	118 18' W	S	S	S	S	S	.	.	S	-	-	-	-	-
46701	12510	50 48' N	152 36' W	X	X	X	X	X	.	.	X	-	-	-	-	-
46710	12516	41 18' N	161 18' W	X	X	X	X	X	.	.	X	-	-	-	-	-

Remarks:

44138 - Buoy transmitting weather messages using Argos.
44141 - Re-deployed June 29/99. Air temp failed Nov 10/99.
44251 - Xmitter problems. Frequent incomplete messages. Payload problems. Frequent Data Buffer Empty messages.
45132 - Buoy removed for the winter Nov 23/99
45135 - Serviced July 26/99
45136 - Buoy removed for the winter Nov 99.
45138 - Buoy removed for the winter Dec 2/99.
45139 - Buoy removed for the winter Oct 09/99.
45140 - Buoy removed for the winter Oct 23/99.
45141 - Buoy removed for the winter Oct 20/99.
45142 - Buoy removed for the winter Nov 23/99.
45143 - Buoy removed for the winter Nov 17/99.
45144 - Buoy removed for the winter Nov 08/99.
45150 - Buoy removed for the winter Sept 30/99.
45151 - Buoy removed for the winter Oct 21/99.
45152 - Buoy removed for the winter Sept 28/99.
45154 - Buoy removed for the winter Nov 25/99.
46004 - Goes transmitter u/s Feb 21/00 16Z. Buoy transmitting via Argos.
46036 - Buoy serviced May 9/99. Air temperature failed Oct 26/99
46132 - Buoy serviced May 7/99.
46145 - Stopped transmitting Oct 1/99. Serviced Oct 21/99
46147 - Both winds u/s. Wind #2 failed Nov 6/99 & Wind #1 failed Feb 23/00.
46183 - Anemometers replaced July 19/99.
46184 - Buoy serviced May 11/99.
46207 - Pwr Failure Dec 8/99. Buoy Serviced Jan 5/00.
46632 - Drifted west of 180 deg. July 20/99.
46660 - Drifter deployed Mar 7/00.
46661 - Air temp. failed Sept. 98
46692 - Wind failed Nov.20/98.
46701 - Drifter deployed Nov 18/99.
46710 - Drifter deployed Jan 7.

44140 - Adrift since Mar 23/00.

Failed:

44137 - Failed due to low battery voltage Nov 6/99.
44139 - Stopped transmitting Jan 9/00.
45137 - Exchanged Xmitr July 22, failed July 24/99.
46698 - Failed Mar 6/00.

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 28 April 2000. Geostationary meteorological satellites collect data from moored buoys and platforms 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 ID	ARGOS ID	Position: 20-27 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
41001*		34.68N	72.64W	R	R	R	-	R	R	R	-	-	-	-	-	N
41002*		32.28N	75.20W	X	X	X	-	X	X	X	-	-	-	-	-	N
41004*		32.50N	79.10W	X	X	X	-	X	X	X	-	-	-	-	-	X
41008*		31.40N	80.87W	X	X	X	-	X	X	X	-	-	-	-	-	X
41009		28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-	-	N
41010		28.89N	78.52W	X	X	X	-	X	X	X	-	-	-	-	-	N
42001*		25.92N	89.68W	X	X	X	-	X	X	X	-	-	-	-	-	X
42002*		25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-	-	X
42003*		25.94N	85.91W	X	X	X	-	X	X	X	-	-	-	-	-	N
42007*		30.09N	88.74W	X	X	X	-	X	X	X	-	-	-	-	-	X
42019*		27.92N	95.35W	S	S	S	-	S	S	S	-	-	-	-	-	N
42020*		26.92N	96.70W	S	S	S	-	S	S	S	-	-	-	-	-	S
42035*		29.25N	94.41W	X	X	X	-	X	X	X	-	-	-	-	-	X
42036*		28.51N	84.51W	X	X	X	-	X	S	S	-	-	-	-	-	X
42039		28.78N	86.04W	X	X	X	-	X	X	X	-	-	-	-	-	X
42040		29.21N	88.20W	X	X	X	-	X	X	X	-	-	-	-	-	X
42041		27.23N	90.43W	X	X	X	-	X	X	X	-	-	-	-	-	N
44004*		38.46N	70.69W	R	R	R	-	R	R	R	-	-	-	-	-	N

44005*		42.90N	68.95W	X	X	X	-	X	X	X	-	-	-	-	-	N
44007*		43.53N	70.14W	X	X	X	-	X	X	X	-	-	-	-	-	X
44008*		40.50N	69.43W	X	X	X	-	X	X	X	-	-	-	-	-	X
44009*		38.46N	74.70W	X	X	X	-	X	X	X	-	-	-	-	-	N
44011*		41.08N	66.58W	X	X	X	-	X	X	X	-	-	-	-	-	N
44013*		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-	-	X
44014		36.58N	74.83W	X	X	X	-	X	X	X	-	-	-	-	-	N
44025*		40.25N	73.17W	X	X	X	-	X	X	X	-	-	-	-	-	X
45001*		48.06N	87.78W	X	X	X	-	S	X	X	-	-	-	-	-	N
45002*		45.31N	86.42W	X	X	X	-	X	X	X	-	-	-	-	-	N
45003*		45.35N	82.84W	X	X	X	-	X	X	X	-	-	-	-	-	N
45004*		47.56N	86.55W	X	X	X	-	X	X	X	-	-	-	-	-	N
45005*		41.68N	82.40W	X	X	X	-	X	X	X	-	-	-	-	-	N
45006*		47.32N	89.87W	X	X	X	-	X	X	X	-	-	-	-	-	N
45007*		42.67N	87.02W	X	X	X	-	X	X	X	-	-	-	-	-	N
45008*		44.28N	82.42W	X	X	X	-	X	X	X	-	-	-	-	-	N
46001*		56.30N	148.17W	X	X	X	-	X	X	X	-	-	-	-	-	N
46002*		42.53N	130.26W	X	X	X	-	X	X	X	-	-	-	-	-	N
46003*		51.85N	155.92W	R	R	R	-	R	R	R	-	-	-	-	-	N
46005*		46.08N	131.00W	X	X	X	-	X	X	X	-	-	-	-	-	N
46006*		40.84N	137.49W	S	S	S	-	S	S	S	-	-	-	-	-	N
46011*		34.88N	120.87W	X	X	X	-	X	X	X	-	-	-	-	-	X
46012*		37.39N	122.73W	S	S	S	-	S	S	S	-	-	-	-	-	N
46013*		38.23N	123.33W	X	X	X	-	X	X	X	-	-	-	-	-	X
46014*		39.22N	123.97W	X	X	X	-	X	X	X	-	-	-	-	-	N
46022*		40.74N	124.51W	R	R	R	-	R	R	R	-	-	-	-	-	N
46023		34.71N	120.97W	X	X	X	-	X	X	X	-	-	-	-	-	X
46025*		33.75N	119.08W	X	X	X	-	X	X	X	-	-	-	-	-	X
46026*		37.76N	122.83W	X	X	X	-	X	X	X	-	-	-	-	-	S
46027*		41.85N	124.38W	X	X	X	-	X	X	X	-	-	-	-	-	N
46028*		35.74N	121.89W	X	X	X	-	X	X	X	-	-	-	-	-	N
46029*		46.12N	124.50W	R	R	R	-	R	R	R	-	-	-	-	-	N
46030*		40.42N	124.53W	X	X	X	-	X	X	X	-	-	-	-	-	N
46035*		56.91N	177.81W	X	X	X	-	X	X	X	-	-	-	-	-	N
46041*		47.33N	124.75W	X	X	X	-	X	X	X	-	-	-	-	-	N
46042*		36.75N	122.42W	X	X	X	-	X	X	X	-	-	-	-	-	X
46047*		32.43N	119.53W	X	X	X	-	X	X	X	-	-	-	-	-	X
46050*		44.62N	124.53W	X	X	X	-	X	X	X	-	-	-	-	-	N
46053*		34.24N	119.85W	X	X	X	-	X	X	X	-	-	-	-	-	N
46054		34.27N	120.45W	X	X	X	-	X	X	X	-	-	-	-	-	X
46059*		37.98N	130.00W	X	X	X	-	X	X	X	-	-	-	-	-	N
46060*		60.58N	146.83W	X	X	X	-	X	X	X	-	-	-	-	-	N
46061*		60.21N	146.84W	X	S	S	-	X	X	X	-	-	-	-	-	N
46062		35.10N	121.01W	X	X	X	-	X	X	X	-	-	-	-	-	S
46063*		34.25N	120.66W	X	X	X	-	X	X	X	-	-	-	-	-	N
51001*		23.40N	162.27W	X	X	X	-	X	X	X	-	-	-	-	-	N
51002*		17.19N	157.83W	X	X	X	-	X	X	X	-	-	-	-	-	N
51003*		19.17N	160.73W	X	X	X	-	X	X	X	-	-	-	-	-	N
51004*		17.44N	152.52W	X	X	X	-	X	X	X	-	-	-	-	-	N
51028		0.00N	153.88W	X	X	X	-	X	X	X	-	-	-	-	-	N

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

Total Base Funded Buoys: 58
Total Other Buoys 10

Total Moored Buoys 68

Remarks (d/m/yy):

41001 - Buoy confirmed adrift 12/16/99, recovered 1/15/00.
41002 - Buoy confirmed adrift 4/15/00, released with updated positions.
42019 - Station failed 12/15/99.
42020 - Station failed 2/26/00.
42035 - Parity errors in dew point data.
42036 - Wave data failed 8/19/99.
44004 - Buoy confirmed adrift 1/28/00, recovered 3/11/00.
45001 - Water temp data failed 4/17/00.
46003 - Buoy confirmed adrift 8/12/99, recovered 10/28/99.
46006 - Station failed 12/16/99.
46012 - Station failed 3/5/00, service scheduled week of 5/22/00.
46022 - Buoy confirmed adrift 1/25/00, recovered 1/27/00, redeployment scheduled week of 6/19/00.
46026 - Dew point data failed 4/4/00.
46027 - Parity errors in data, service scheduled week of 6/19/00.
46029 - Buoy confirmed adrift 1/18/00, recovered 1/20/00.
46035 - Parity errors in data.
46041 - Parity errors in data.
46042 - Parity errors in data.
46061 - Air temp data failed 3/12/00, pressure data failed 4/15/00, water temp data restored 4/25/00.
46062 - Dew point data failed 2/15/00.

AUSTRALIA

Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 29 February 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
55038	2946	-35.108	138.463	X	X	X	X	X	-	-	X	-	-	-	-	-

Drifting Buoys (Drogued)

WMO Buoy ID	ARGOS ID	Position: 29 February 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
52625	1955	-14.185	139.06	X	X	X	X	X	-	-	X	-	-	-	-	-
53551	8097	-17.948	50.708	-	-	X	X	X	-	-	X	-	-	-	-	-
53552	2931	-14.717	120.635	-	-	X	X	X	-	-	X	-	-	-	-	-
55525	2948	-36.535	162.185	-	X	X	X	X	-	-	X	-	-	-	-	-
56502	1495	-60.046	103.599	-	X	X	X	X	-	-	X	-	-	-	-	-
56503	1655	-37.688	113.7	-	X	X	X	X	-	-	X	-	-	-	-	-
56504	1535	-48.751	136.691	-	X	X	X	X	-	-	X	-	-	-	-	-
56505	8591	-22.762	108.704	X	-	X	X	X	-	-	X	-	-	-	-	-
56506	2932	-45.591	102.41	-	-	X	X	X	-	-	X	-	-	-	-	-
56507	1740	-52.346	74.193	-	X	X	X	X	-	-	X	-	-	-	-	-
56535	2939	-46.723	6.605	-	X	X	X	X	-	-	X	-	-	-	-	-
56536	4876	-36.313	-154.075	-	-	S	-	X	-	-	X	-	-	-	-	-
56541	8037	-60.914	-134.118	-	X	X	X	X	-	-	X	-	-	-	-	-
56545	2693	-36.311	118.531	-	S	X	X	X	-	-	X	-	-	-	-	-
56546	2489	-43.545	142.989	-	X	X	X	X	-	-	X	-	-	-	-	-
56550	1870	-8.78	111.824	X	X	X	X	X	-	-	X	-	-	-	-	-

FRANCE

Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
13011*	19100	1.6N	10.0W	X	X	-	-	X	-	-	-	X	-	-	-	-
15001*	16857	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-	-	-
15002*	02306	0.0N	10.1W	X	X	-	-	X	-	-	-	X	-	-	-	-
15003*	19101	5.1S	10.0W	S	S	-	-	S	-	-	-	S	-	-	-	-
15005*	20973	1.7S	10.0W	S	S	-	-	S	-	-	-	S	-	-	-	-
41096	05833	16.4N	60.9W	-	-	-	-	X	X	.	-	-	-	-	-	-
41100	-	15.9N	57.9W	S	S	S	S	S	S	S	-	-	S	-	-	-
41101	-	14.6N	56.2W	S	S	S	S	S	S	S	-	-	S	-	-	-
61001	-	43.4N	7.8E	X	X	X	X	X	X	X	-	-	X	-	-	-
62001**	-	45.2N	5.0W	X	X	X	X	X	X	-	-	-	X	-	-	-
62051	-	49.5N	0.2W	X	X	-	-	X	-	-	-	-	-	-	-	-
62163**	-	47.5N	8.5W	X	X	X	X	X	X	-	-	-	X	-	-	-

* Pirata project
** Cooperation UK Met. Office/Meteo-France

Drifting Buoys

Indian Ocean

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
14538	08338	11.2S	40.7E	-	-	X	X	X	-	-	X	-	-	-	-	-
14539	07179	8.0S	71.0E	-	-	X	X	X	-	-	X	-	-	-	-	-
23589	29754	18.2S	66.8E	-	-	X	X	X	-	-	X	-	-	-	-	-
23590	07568	2.3S	82.8E	X	-	X	X	X	-	-	X	-	-	-	-	-

EUROPEAN GROUP ON OCEAN STATIONS
Drifting buoys: North Atlantic

France

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
44607	6216	54.100	-27.704	X	-	X	X	X	-	-	X	-	-	-	-	-
44608	14540	35.300	-15.116	-	-	X	X	X	-	-	-	-	-	-	-	-
44610	12734	55.100	-34.319	-	-	X	X	X	-	-	X	-	-	-	-	-
62503	1362	38.400	-13.308	-	-	-	X	X	-	-	X	-	-	-	-	-
62506	12733	36.100	-24.129	X	-	-	-	X	-	-	X	-	-	-	-	-
62507	10111	38.500	-29.283	-	X	X	X	X	-	-	-	-	-	-	-	-
62508	5822	41.300	-20.961	X	X	X	X	X	-	-	-	-	-	-	-	-
62509	14537	46.000	-6.127	-	-	X	X	X	-	-	X	-	-	-	-	-
62510	12732	48.300	-8.852	-	-	-	-	X	-	-	X	-	-	-	-	-

62520	14431	30.500	-34.498	-	X	X	X	X	-	-	-	-	-	-	-	-
64517	14178	56.900	-24.572	-	-	X	X	X	-	-	-	-	-	-	-	-
64698	29867	57.300	-42.782	-	-	X	X	X	-	-	-	-	-	-	-	-
64699	29868	61.400	-55.542	-	-	X	X	X	-	-	-	-	-	-	-	-

Germany

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
64529	6669	71.300	21.158	-	X	X	X	X	-	-	-	-	-	-	-	-
64530	4272	61.450	-2.310	-	X	X	X	X	-	-	-	-	-	-	-	-
64547	2294	63.063	2.546	-	X	X	X	X	-	-	-	-	-	-	-	-
65598	1298	64.957	-29.890	-	X	X	X	X	-	-	-	-	-	-	-	-
65601	3039	60.484	-31.820	-	X	X	X	X	-	-	-	-	-	-	-	-

Ireland

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
65602	6667	59.628	-37.930	-	X	X	X	X	-	-	-	-	-	-	-	-

The Netherlands

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
44723	16392	46.700	-34.238	-	-	X	X	X	-	-	X	-	-	-	-	-
62596	16391	59.500	-24.525	-	-	X	X	X	-	-	X	-	-	-	-	-

Norway

WMO Buoy ID	ARGOS ID	Position: 19 April 2000		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
65562	3675	51.500	-36.548	-	X	X	X	X	-	-	-	-	-	-	-	-
65600	3676	54.300	-38.574	-	X	X	X	X	-	-	-	-	-	-	-	-

ARGOS SERVICE

ARGOS monthly status report

Date of Statistics computation: 1 March 2000

Reports handled by ARGOS Service
List of monthly collected ARGOSs platforms sorted by type of platform

DRIFTING BUOY	1229
MARINE STATION	138
MOORED BUOY	309
TERRESTRIAL ANIMALS	85
MARINE ANIMALS	213
BIRDS	186
BALLOONS	13
RAFOS FLOATS	138
FIXED STATION	654
TOTAL	**2965**

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 BUOY	117
FIXED STATION	21
MOORED BUOYS	15

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	668
FIXED STATIONS	28
GPS MOBILE	-
MOORED BUOY	65

CODING STATISTICS OF PLATFORMS

Reporting through ARGOS and distributed over the GTS

BATHY	517
BUOY	280864
SHIP	2701
SIMPLE	421
STD	484
SYNOP	33032
TOTAL	**318019**

Date of Statistics computation: 3 April 2000

Reports handled by ARGOS Service
List of monthly collected ARGOSs platforms sorted by type of platform

DRIFTING BUOY	1183
MARINE STATION	132
MOORED BUOY	292
TERRESTRIAL ANIMALS	113
MARINE ANIMALS	195
BIRDS	205
BALLOONS	8
RAFOS FLOATS	117
FIXED STATION	596
TOTAL	**2841**

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 BUOY	126
FIXED STATION	24
MOORED BUOYS	14

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	653
FIXED STATIONS	29
GPS MOBILE	-
MOORED BUOY	66

CODING STATISTICS OF PLATFORMS

Reporting through ARGOS and distributed over the GTS

BATHY	442
BUOY	306256
SHIP	2848
SIMPLE	242
STD	442
SYNOP	37664
TOTAL	**347894**

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, 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"*.

3. 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;

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:

Station	Pressure at station level reported using group $3P_oP_oP_oP_o$
1000 hPa	Geopotential of the given standard isobaric surface reported using group $4a_3hhh$
850 hPa	
700 hPa	
500 hPa	

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:

World Meteorological Organization
Public Weather and Operational
Information Unit
7 bis, Avenue de la Paix
Case postale No. 2300
CH-1211 GENEVA 2
Switzerland

BEFORE the 15th of the month

for inclusion in the

"OPERATIONAL NEWSLETTER"

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

Country: _____ Date effective: _____

Type of Exchange	Type of station	(A)		(B)		(C)	(D)								(E)		(F)	(G)
G=Global R=Regional	S=SYNOP T=TEMP P=PILOT	Index No.	Station Name	Position		Bulletin Identification	Implementation of Observing Programme								Elevation		Pres-sure Level	Remarks
				Lati tude	Longitude	TTAAii CCCC	00	03	06	09	12	15	18	21	HP	H/HA		

II. CODES

1. Volume II - Regional Codes

Section D - National Coding Procedures with regard to International Code Forms

Region VI

Notification from Estonia

Replace page II-6-D-11 (page numbering refers to the English version only). The information came into effect on 1 March 2000.

Under:

ESTONIA

15.5.1, 15.5.3, 15.5.5	The averaging period for wind observations for Kuressaare and Tartu/ aerodromes is 2 min.
15.5.3	The group $d_nd_nd_nVd_xd_xd_x$ not in use for reports for Kuressaare and Tartu/ Ülenurme aerodromes.

III. GLOBAL TELECOMMUNICATION SYSTEM

1. "Additional" Data and Products

Related to Resolution 40 (Congress-XII)

World Meteorological Organization's policy and practice for the
exchange of meteorological and related data and products,
including guidelines on relationships in commercial meteorological activities

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE
COMPILING CENTRE: TOULOUSE

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2$ii	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIFR21	LFPW	SYNOP	03, 09, 15, 21	07005, 07015, 07020, 07027, 07070, 07100, 07110, 07117, 07130, 07149, 07180, 07190, 07207, 07222, 07240, 07255, 07265, 07280, 07299, 07314, 07434, 07460, 07481, 07510, 07535, 07558, 07577, 07591, 07621, 07627, 07630, 07643, 07650, 07661, 07690, 07747, 07761, 07790
SIFR22	LFPW	SYNOP	03, 09,1 5, 21	07037, 07139, 07335, 07471, 07607
SMFR41	LFPW	SYNOP	00, 06, 12, 18	07002, 07010, 07028, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169, 07197, 07288, 07292
SMFR42	LFPW	SYNOP	00, 06, 12, 18	07120, 07143, 07147, 07153, 07157, 07200, 07205, 0723O, 07235, 07249, 07300, 07306, 07354
SMFR43	LFPW	SYNOP	00,06,12,18	07260, 07379, 07385, 07482, 07486, 07491, 07497, 07549
SMFR44	LFPW	SYNOP	00, 06, 12, 18	07315, 07330, 07360, 07412, 07502, 07524, 07530, 07602, 07610, 07622, 07632
SMFR45	LFPW	SYNOP	00, 06, 12, 18	07560, 07579, 07588, 07635, 07645, 07667, 07675, 07680, 07749, 07754, 07765, 07770, 07785
SIFR41	LFPW	SYNOP	03, 09, 15, 21	07002, 07010, 07028, 07038, 07040, 07055, 07061, 07075, 07090, 07168, 07169,

				07197, 07288, 07292
SIFR42	LFPW	SYNOP	03, 09, 15, 21	07120, 07143, 07147, 07153, 07157, 07200, 07205, 07230, 07235, 07249, 07300, 07306, 07354
SIFR43	LFPW	SYNOP	03, 09, 15, 21	07260, 07379, 07385, 07471, 07482, 07486, 07491, 07497, 07549
SIFR44	LFPW	SYNOP	03, 09, 15, 21	07315, 07330, 07360, 07412, 07502, 07524, 07530, 07602, 07610, 07622, 07632
SIFR45	LFPW	SYNOP	03, 09, 15, 21	07560, 07579, 07588, 07635, 07645, 07667, 07675, 07680, 07749, 07754, 07765, 07770, 07785
SIAA21	LFPW	SYNOP	03, 09, 15, 21	89642

"Global" Bloc

Header Format	$HT_2A_lA_2$ii LFPW
Code (T_1)	GRIB (T_1=H)
Data Times	00,12 UTC
Available about:	0345 UTC and 1545 UTC
Length of each bulletin:	8.5 koctets
Elements (T_2) and Levels (ii)	(T_2=T, ii=25) (T_2=U/V, ii=25)
Grid/Zone (A_1)	(A_1=N/S)
Available times (A_2)	(A_2=A/E/I)
Remarks	Latitude-longitude: 180°W-180°E (from west to east), 90°N-20°S and 20°N-90°S (from north to south) Resolution: 2°5x2°5, 144x45 points

"ACMAD" Bloc

Header Format	HT_2HA_2ii LFPW
Code (T_1)	GRIB (T_1=H)
Data Times	00,12 UTC
Available about:	0345 UTC and 1545 UTC
Length of each bulletin:	6 koctets
Elements (T_2) and Levels (ii)	(T_2=P, ii=89) (T_2=H, T,R,U/V, ii=95/92/85/70/50/40/30/25/20/15/10) (T_2=G, ii=92/20) (T_2=O, ii=92/85/70/50)
Grid/Zone (A_1)	(A_1=H).
Available times (A_2)	(A_2=A-K) For 00 UTC (A_2=L/M)
Remarks	Latitude-longitude: 30°W-60°E (from west to east), 45°N-45°S (from north to south) Resolution: 1°5x1°5, 61x61 points

"European" Bloc

Header Format	$GT_2A_1A_2$ii LFPW
Code (T_1)	GRID (T_1=G)
Data Times	00,12 UTC
Available about:	0415 UTC and 1615 UTC
Length of each bulletin:	2 koctets
Elements (T_2) and Levels (ii)	(T_2=P, ii=98) (T_2=H, ii=99/85*/70/50*/40/30/20) (T_2=T, R, U/V, ii=99/85*/70/50/40/30/20) (T_2=O, ii=99/85/70/50)
Grid/Zone (A_1)	(A_1=O/M)
Available times (A_2)	(A_2=A to E/G/I) (A_2=J/K) for 00 UTC
Remarks	Latitude-longitude: 75°N-25°N, 50°W-0°E et 0°E-50°E : NNN=010 and 011 Resolution: 2°5x2°5, 21x21 points

Nota: The GRID code is obsolete and its products are gradually being withdrawn from the Catalogue. Users are invited to use the same information diffused in GRIB code.

Header Format	HT_2UA_2ii LFPW
Code (T_1)	GRIB (T_1=H)
Data Times	00,12 UTC
Available about:	0345 UTC and 1545 UTC
Length of each bulletin:	11 koctets
Elements (T_2) and Levels (ii)	(T_2=P; ii=89); (T_2=H,T,U/V,R,O ii=92/85/70/50/40/30) (T_2=Q ii=85/70/50/30) (T_2=W ii=50).
Grid/Zone (A_1)	(A_1=U)
Available times (A_2)	(A_2=A - K) For 00 UTC (A_2=L/M)
Remarks	Latitude-longitude: 60°W-65°E (west-east) 75°N-10°N (north-south) Resolution: 1°x1°, 126x66 points

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE
COMPILING CENTRE: ST. DENIS (REUNION, COMOROS)

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2ii$	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIRE20	FMEE	SYNOP	03, 09, 15, 21	61968, 61970, 61972, 61976, 61980, 67005
SIRE21	FMEE	SYNOP	03, 09, 15	61996, 61997, 61998

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE, TOULOUSE
COMPILING CENTRE: FORT-DE-FRANCE/LE LAMENTIN (MARTINIQUE)

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2ii$	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIMR20	TFFF	SYNOP	03,09,15,21	78925
SIMR21	TFFF	SYNOP	09,15,21	78922

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE, TOULOUSE
COMPILING CENTRE: LE RAIZET (GUADELOUPE, ST. BARTHELEMY, ST. MARTIN)

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2ii$	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIMF20	TFFR	SYNOP	03	78897
SIMF20	TFFR	SYNOP	09,15,21	78894, 78897

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE, TOULOUSE
COMPILING CENTRE: CAYENNE/ROCHAMBEAU (FRENCH GUIANA)

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2ii$	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIFG20	SOCA	SYNOP	03	81405
SIFG20	SOCA	SYNOP	09, 15, 21	81401, 81405, 81408, 81415

COUNTRY: FRANCE
NATIONAL CENTRE: METEO FRANCE, TOULOUSE
COMPILING CENTRE: ST. PIERRE AND MIQUELON (FRENCH GUIANA)

Date of Notification: 22 March 2000
Date of Implementation: 22 March 2000

ADDITIONAL DATA

$T_1T_2A_1A_2ii$	CCCC	Code Form	Time Group (GG)	Content of Bulletin
SIFP20	LFVP	SYNOP	09,15,21	71805

2. Volume C1 - *Catalogue of Meteorological Bulletins*

Implementation of the comprehensive catalogue of meteorological bulletins

1. Following the decisions and recommendations of the extraordinary session of the CBS (Karlsruhe, 1998), the WMO Secretariat developed an application to update the complete catalogue of meteorological bulletins (Volume C1), and to prepare the METNO messages including the advanced notifications of the changes to the Volume C1, on the basis of the information provided by the Main Telecommunication Network (MTN) centres. The application was developed using the software Microsoft Access-97. The comprehensive catalogue of meteorological bulletins (Volume C1) will be made available on the WMO FTP server as from 1 June 2000.

2. At the time of the preparation of the newsletter, the six following MTN centres transferred their parts of the catalogue into the WMO FTP server: Melbourne, Nairobi, Offenbach, Sofia, Tokyo and Toulouse. The Secretariat carried out tests to use these parts for updating the complete catalogue of meteorological bulletins (Volume C1) and to prepare the METNO messages.

3. Those MTN centres, which are not yet in a position to transfer ***both*** their parts of the catalogue and the advanced notifications into the WMO FTP in accordance with the agreed electronic formats, should compile the changes to the catalogues from their zone of responsibility and send the advanced notifications to the Secretariat in accordance with the format of the advanced notifications approved by CBS. The advanced notifications should preferably be sent in the form of a file, e.g. attached to an Internet message. The WMO Secretariat will provisionally maintain the relevant parts of the catalogue as long as the MTN centres will not maintain their own parts.

Procedures

1. SEMI-ANNUAL UPDATES

Each RTH on the MTN transfers, at least twice per year, its part of Volume C1 into the WMO FTP server. Each RTH on the MTN informs the Secretariat of the transfer by an Internet message. The update is compared with the existing valid Volume C1. When there are differences, those differences are listed and the administrator has to decide on the follow-up action.

A history file is created for the semi-annual updates. It includes information on the date of implementation of the update and the references of the transmitting centre. This file is named HISTYYYY.txt (YYYY being the year) and is available in the WMO FTP server.

2. ADVANCED NOTIFICATIONS

The advanced notifications are transferred into the WMO FTP server by each RTH on the MTN in the form of a file. Each RTH on the MTN informs the Secretariat of the transfer of those files by an Internet message. The system checks the sequence number of the advanced notifications. In the event of problem, the intervention of the administrator will be necessary. The administrator can introduce advanced notifications.

The advanced notifications are stored in the WMO data base up to their date of validity. Each day the system prepares the lists of advanced notifications of changes entering into force that day and updates accordingly the Volume C1 at 01 UTC. The administrator is informed of each update.

With a view to keeping a trace of each advanced notification, two history files are created. These files are stored on the FTP server. The first (HIANBEYY.txt, YY being the last two figures of the year) will include all the advanced notifications before their date of validity, the second (HIANAFYY.txt) after their date of validity.

3. METNO MESSAGES

The program prepares the METNO messages. These messages contain the advanced notifications received by the Secretariat from the RTHs on the MTN since the last METNO message. They will be created from the history file HIANBEYY.txt.

The METNO Messages will be sent at 8h00 U.T, every Tuesday. In order to differentiate METNO messages related to Volume C1 from those related to Volume A, the following abbreviated headings are used:

NOXX01 LSSW YYGGgg for a METNO message related to Volume A
NOXX02 LSSW YYGGgg for a METNO message related to Volume C1

The first line of the text of the METNO message will include a sequence number CXXYY (XX: number of the week, YY: Year).

The METNO message has the following format:

NOXX02 LSSW YYGGgg
METNO CXXYY
Sequence No./Change Type/Change Date/Region/RTH/Country/Centre/…
etc.

Note: The sequence No. is the sequence number of the relevant advanced notification prepared by the RTH or the Secretariat.

Example of a METNO message prepared on Tuesday 28 September 1999 (C3999):

NOXX02 LSSW 280999
METNO C3999
0344 DD 17/08/1999 5 WELLINGTON NEW ZEALAND WELLINGTON…
0345 DD 17/08/1999 5 WELLINGTON NEW ZEALAND..WELLINGTON…
etc.

All the METNO messages will be kept on the WMO FTP server for one year (e.g.: /... /METNO/MC3999.txt).

If there is no advanced notification for a week, a METNO message with a text “NIL” is sent. With this procedure each GTS centre can check that it received the sequence (current week number and year) of METNO messages.

5. ACCESS TO THE INFORMATION IN THE WMO FTP SERVER

An example of the structure of the part of the WMO FTP server accessible by the WWW user centres is given in the following page. The valid catalogue of meteorological bulletins, as compiled by the Secretariat, will be available on the WMO FTP server in the file " VOLC1.txt ". A zipped version (VOLC1.zip) and a zipped executable version (VOLC1.exe) will also be available.

All the information contained in the database (Volume C1) is in English. However a glossary will be made available for the translation into the other languages.

6. MISCELLANEOUS

- The files will be in the form of a text file (*.txt). The fields of each record will be separated by commas and surrounded by quotation marks (ex: "field1","field2",etc.).
- A backup of the database will be carried out daily (backup).
- A site " mirror " of the WMO FTP server for the catalogue will be maintained by RTH Offenbach.

- As a principle, the MTN centres are responsible for their part of the catalogue that they maintained. In this respect, the secretariat may inform the MTN centres of any "anomalies" found, but will not modify any information provided, and expect that the MTN centres will amend themselves the catalogue.

Example of the structure of the part of the WMO FTP server accessible by the WWW users centres: