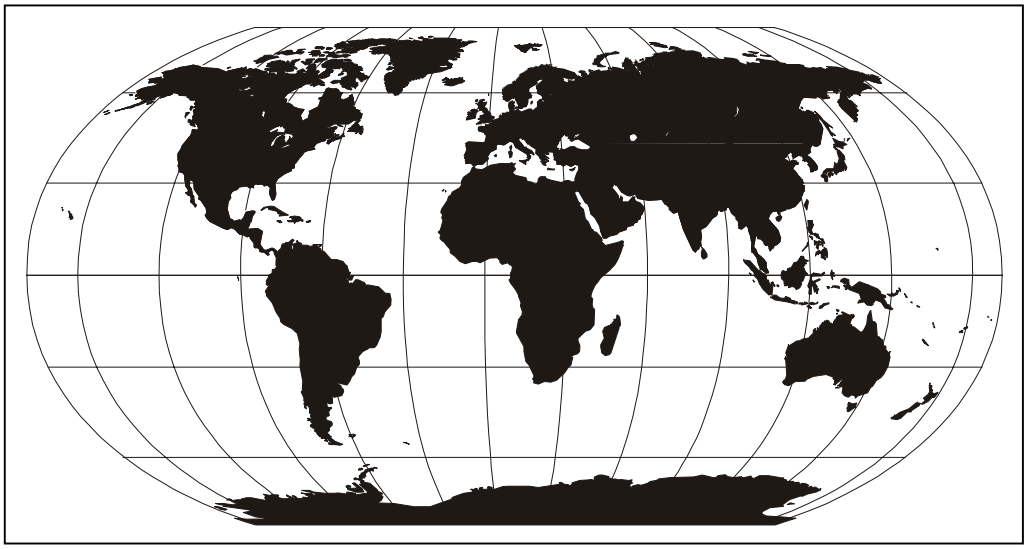
OPERATIONAL NEWSLETTER

World Weather Watch and Marine Meteorological Services



WORLD METEOROLOGICAL ORGANIZATION
GENEVA
SWITZERLAND

No11/12- 2001
(November/December 2001)

… *inside this issue*

CONTENTS

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.

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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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MEETINGS SCHEDULED - 2002

Related to: The World Weather Watch and Marine Meteorological Services

Date	Place	Title of the Meeting	
7-10 January 2002	New Delhi	Implementation Coordination Meeting on the GTS in Region II	WWW-B
1st quarter 2002	Bahrain	Regional Training Seminar on Objective Interpretation of GDPS Products and Improvement of Public Weather Services	WWW-A, WWW-B
21-25.I.2002	Geneva, WMO Secretariat	CIMO Advisory Working Group	WWW-B
28.I.-1.II.2002	Geneva, WMO Secretariat	OPAG/IOS Expert Team on Observational Data Requirements and Redesign of the GOS	WWW-B
29.I.-1.II.2002	Boulder, CO, USA (tentative)	International Expert Workshop on Advances in the Use of Historical Marine Data (co-sponsored by WMO)	WWW-A
6-8.II.2002	Geneva, WMO Secretariat	CBS Steering Group on Radio Frequency Coordination	WWW-B
6-9.II.2002	Geneva, WMO Secretariat	JCOMM Management Committee - First session	WWW-A
25.II.-1.III.2002	Hong Kong, China	OPAG/PWS Expert Team on Warnings and Forecasts Exchange, Understanding and Use	WWW-A
25.II-2.III.2002	Goa, India	JCOMM Ship Observations Team - First session	WWW-A
12-18.III.2002	Yangon, Myanmar	WMO/ESCAP Panel on Tropical Cyclones - Twenty-ninth session	WWW-A
March/April 2002	(Date and place to be decided)	CBS Expert Team to Develop a Verification System for Long-range Forecasts	WWW-B
3-6.IV.2002	Geneva, WMO Secretariat	JCOMM Services Coordination Group - First session	WWW-A
3-10.IV.2002	Orlando, FL, USA	RA IV Hurricane Committee - Twenty-fourth session	WWW-A
15-27.IV.2002	Miami, FL, USA	RA IV Workshop on Hurricane Forecasting and Warning	WWW-A
April 2002 (Date to be decided)	Montreal, Canada (tentative)	CBS ISS Expert Team on Enhanced Utilization of Data Communication Systems	WWW-B
22-25.V.2002	Paris, France	JCOMM Data Management Coordination Group - First session	WWW-A
May/June 2002	(Date and place to be decided)	CBS Implementation Coordination Team on Data Processing and Forecasting Systems	WWW-B
June/July 2002 (Date to be decided)	Geneva, WMO Secretariat	CBS Implementation Coordination Team on Information Systems and Services	WWW-B
9-27.IX.2002	Montreal, Canada (tentative)	Commission for Aeronautical Meteorology - Twelfth session (conjoint session with ICAO MET Division)	WWW-A
23-25.IX (a.m.).2002	Bratislava, Slovakia	Technical Conference on Meteorological and Environmental Instruments and Methods of Observation (TECO-2002)	WWW-B
25.IX. (p.m.)-3.X.2002	Bratislava, Slovakia	Commission for Instruments and Methods of Observation - Thirteenth session	WWW-B
14-25.X.2002	Lima, Peru	RA III / RA IV Regional Training Seminar on Data Processing and Forecasting Systems and Improvement of Public Weather Services	WWW-A/WWW-B
2-6.XII.2002	(Place to be decided)	Wave and Storm Surge Forecasting Workshop	WWW-A
4-13 December 2002	(Place to be decided)	Commission for Basic Systems - Extraordinary session	WWW-B

TERMINOLOGY USED:

ARGOS	Data relay and platform location system (Sat.)
ASAP	Automated Shipboard Aerological Programme
CBS	Commission for Basic Systems
CIMO	Commission for Instruments and Methods of Observation
CMM	Commission for Marine Meteorology
DBCP	Data Buoy Cooperation Panel
DPFS	Data-processing and Forecasting Systems
GDPS	Global Data-processing System
GOS	Global Observing System
GOOS	Global Ocean Observing System
GTS	Global Telecommunication System
IDNDR	International Decade for Natural Disaster Reduction
IOC	Intergovernmental Oceanographic Commission
IOS	Integrated Observing Systems
ISS	Information Systems and Services
JCOMM	Joint WMO/IOC Commission for Oceanography and Marine Meteorology
JTA	ARGOS Joint Tarif Agreement
NOAA	National Oceanic and Atmospheric Administration
NWP	Numerical weather prediction
OPAG	Open Programme Area Group
PWS	Public Weather Services
RA I	Regional Association I (Africa)
RA II	Regional Association II (Asia)
RA III	Regional Association III (South America)
RA IV	Regional Association IV (North and Central America)
RA V	Regional Association V (South-West Pacific)
RA VI	Regional Association VI (Europe)
WWW	World Weather Watch Department

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:7 November 2001	Observed or Technical Parameters												
		Latitude / Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
46004	7191	50 55' N 136 05' W	X	S	X	X	X	X	X	N/A	-	-	-	-	-
46036	7190	48 21' N 133 56' 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	8678	49 44' N 127 56' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46145	7185	54 23' N 132 27' 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 50' N 131 14' 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	7191	53 37' N 131 07' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46184	5324	53 56' N 138 53' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46185	7183	52 25' N 129 47' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46204	7184	51 22' N 128 45' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46205	7186	54 10' N 134 17' W	S	S	S	S	S	S	S	N/A	-	-	-	-	-
46206	7140	48 50' N 126 00' W	S	S	S	S	S	S	S	N/A	-	-	-	-	-
46207	7187	50 53' N 129 55' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
46208	7194	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:7 November 2001	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	X	X	X	X	X	X	N/A	-	-	-	-	-
44138	5577	44 16' N 053 37' W	S	S	S	S	S	S	S	N/A	-	-	-	-	-
44139	3448	44 16' N 057 23' W	S	S	S	S	S	S	S	N/A	-	-	-	-	-
44140	5576	43 45' N 051 44' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
44141	3449	42 06' N 056 13' W	S	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	-	-	-	-	-
44258	9232	44 30' N 063 24' 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 ID	ARGOS ID	Position:7 November 2001	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	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45135	N/A	43 47' N 076 52' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45136	N/A	48 32' N 086 57' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45137	N/A	45 33' N 081 01' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45138	3436	49 33' N 065 46' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45139	N/A	43 24' N 079 27' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45140	N/A	50 47' N 096 44' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45141	N/A	61 11' N 115 19' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45142	N/A	42 44' N 079 21' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45143	N/A	44 57' N 080 38' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45144	8671	53 12' N 098 50' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45145	N/A	51 27' N 096 42' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45147	N/A	42 26' N 082 41' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45148	N/A	49 42' N 094 31' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-
45149	N/A	43 33' N 082 05' W	X	X	X	X	X	X	X	N/A	-	-	-	-	-
45150	N/A	61 59' N 114 08' 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	-	-	-	-	-
45158	N/A	59 00' N 094 00' W	+	+	+	+	+	+	+	N/A	-	-	-	-	-

+ Buoy removed from station due to seasonal shutdown, mooring failure or badly damaged

Drifting Buoys - Pacific Ocean (SSVX04 CWEG)

WMO Buoy ID	ARGOS ID	Position:7 November 2001	Observed or Technical Parameters												
		Latitude / Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
46632	33066	47 54' N 155 54' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46657	33069	48 54' N 167 36' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46660	33070	46 30' N 166 54' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46661	12521	28 18' N 150 24' W	S	S	X	X	X	+	+	X	-	-	-	-	-
46692	33073	47 42' N 163 54' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46695	33068	50 48' N 158 42' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46698	33074	47 36' N 156 12' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46700	12517	49 00' N 148 12' W	X	X	X	X	X	+	+	X	-	-	-	-	-
46701	33071	45 48' N 166 06' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46702	33012	45 36' N 161 24' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46705	33072	43 54' N 165 36' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46707	33067	49 12' N 156 30' W	+	+	X	X	X	+	+	X	-	-	-	-	-
46710	12516	30 12' N 139 54' W	X	X	X	X	X	+	+	X	-	-	-	-	-

+ Buoy removed from station due to seasonal shutdown, mooring failure or badly damaged

Remarks:

44137 - Buoy serviced Oct 21/00. Missing messages. Winds failed Aug 11/01 12Z.
44140 - Buoy deployed June 17/01.
44141 - Buoy serviced Oct 24/00. Winds failed April 16/01 05Z.
44142 - Buoy serviced May 19/01.
44251 - Buoy xmitting weather messages using ARGOS. Switched back to GOES May 7/01
44255 - Buoy serviced June 02/01.
44258 - Buoy serviced Sept 10/01.
45132 - Buoy deployed May 20/01 15Z.
45135 - Buoy redeployed Apr 26/00.
45136 - Buoy deployed May 22/01 18Z.
45137 - Buoy removed for the Winter Nov 6/01.
45138 - Buoy deployed May3/01 19Z.
45139 - Buoy back in service Jul 16/01 19Z.
45140 - Buoy removed for the Winter Nov 2/01.
45141 - Buoy removed for the Winter Oct 22/01.
45142 - Buoy deployed May/01 21Z.

45143 - Buoy removed for the Winter Oct 31/01.
45144 - Buoy removed for the winter Nov 10/00.
45145 - Buoy removed for the Winter Nov 3/01.
45147 - Buoy deployed May 07/01 19Z.
45148 - Buoy removed for the Winter Oct 29/01.
45149 - Buoy deployed April 25/01 19Z.
45150 - Buoy removed for the Winter Oct 22/01.
45151 - Buoy removed for the Winter Oct 16/01.
45152 - Buoy removed for the Winter Oct 30/01.
45154 - Buoy removed for the Winter Nov 4/01.
45158 - Buoy removed for the Winter Oct 11/01.
46004 - Buoy serviced May 9/01. Air Temperature u/s since Oct 19/01.
46036 - Buoy serviced May 9/01.
46131 - Buoy serviced Feb 21/01.
46132 - Buoy serviced May 4/01.
46145 - Buoy serviced May 12/01.
46146 - Buoy serviced Feb 22/01.
46147 - Buoy serviced May 15/01.
46183 - Buoy serviced May 17/01.
46184 - Buoy serviced May 10/01.
46185 - Back in service Jan 12/01. Wind sensors replaced May 15/01.
46204 - Buoy serviced May 6/01.
46207 - Buoy serviced May 5/01.
46208 - Buoy serviced May 14/01.
46632 - Woce Drifter deployed Sep 6/01.
46657 - Woce Drifter deployed Sep 5/01.
46660 - Woce Drifter deployed Sep 5/01.
46661 - Toga Drifter deployed Sep 12/98. Air temp. u/s Sep/98. Wind u/s Oct 9/01.
46692 - Woce Drifter deployed Jul 16/01.
46695 - Woce Drifter deployed Sep 6/01.
46698 - Woce Drifter deployed Jul 17/01.
46700 - Toga Drifter deployed Jul 16/01.
46701 - Woce Drifter deployed Sep 5/01.
46702 - Woce Drifter deployed Oct 4/01.
46705 - Woce Drifter deployed Sep 5/01.
46707 - Woce Drifter deployed Sep 6/01.
46710 - Toga Drifter deployed Jan 7/00.

Failed:

44138 - Argos transmitter failed Dec/00.
44139 - Payload failed Dec 8/00.
46205 - Stopped transmitting Aug 25/01
46206 - Stopped transmitting Sept 6/01

UNITED STATES OF AMERICA

Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 29 November – 6 December 2001		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
41001*		34.68N	72.23W	X	X	X	-	X	X	X	-	-	-	-	-	N
41002*		32.27N	75.42W	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		28.91N	78.55W	X	X	X	-	X	X	X	-	-	-	-	-	N
42001*		25.92N	89.68W	X	X	X	-	X	X	X	-	-	-	-	-	X
42002*		25.90N	93.59W	X	X	X	-	X	X	X	-	-	-	-	-	X
42003*		25.88N	85.95W	X	X	X	-	X	X	X	-	-	-	-	-	X
42007*		30.09N	88.77W	X	X	X	-	X	X	X	-	-	-	-	-	X
42019*		27.92N	95.36W	X	X	X	-	X	X	X	-	-	-	-	-	X
42020*		26.95N	96.70W	X	X	X	-	X	X	X	-	-	-	-	-	X
42035*		29.25N	94.42W	X	X	X	-	X	X	X	-	-	-	-	-	X
42036*		28.51N	84.51W	X	X	X	-	X	X	X	-	-	-	-	-	X
42039		28.80N	86.06W	X	X	X	-	X	X	X	-	-	-	-	-	X
42040		29.21N	88.20W	X	X	X	-	X	X	X	-	-	-	-	-	X
44004*		38.50N	70.47W	X	X	X	-	X	X	X	-	-	-	-	-	N
44005*		43.17N	69.22W	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	-	-	-	-	-	X
44011*		41.09N	66.59W	X	X	X	-	X	X	X	-	-	-	-	-	N
44013*		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-	-	X
44014		36.58N	74.84W	X	X	X	-	X	X	X	-	-	-	-	-	X
44025*		40.25N	73.17W	X	X	X	-	X	X	X	-	-	-	-	-	X
45001*		48.06N	87.78W	R	R	R	-	R	R	R	-	-	-	-	-	N
45002*		45.33N	86.42W	R	R	R	-	R	R	R	-	-	-	-	-	N
45003*		45.35N	82.84W	R	R	R	-	R	R	R	-	-	-	-	-	N
45004*		47.56N	86.55W	R	R	R	-	R	R	R	-	-	-	-	-	N

45005*		41.68N	82.40W	X	X	X	-	X	X	X	-	-	-	-	-	N
45006*		47.32N	89.87W	R	R	R	-	R	R	R	-	-	-	-	-	N
45007*		42.67N	87.02W	X	X	X	-	X	X	X	-	-	-	-	-	N
45008*		44.28N	82.42W	R	R	R	-	R	R	R	-	-	-	-	-	N
46001*		56.30N	148.17W	X	X	X	-	X	X	X	-	-	-	-	-	N
46002*		42.52N	130.32W	X	X	X	-	X	X	X	-	-	-	-	-	N
46005*		46.05N	131.02W	X	X	X	-	X	X	X	-	-	-	-	-	N
46006*		40.84N	137.49W	S	X	X	-	X	X	X	-	-	-	-	-	N
46011*		34.88N	120.87W	X	X	X	-	X	X	X	-	-	-	-	-	X
46012*		37.45N	122.70W	X	X	X	-	X	X	X	-	-	-	-	-	X
46013*		38.23N	123.33W	X	X	X	-	X	X	X	-	-	-	-	-	S
46014*		39.22N	123.97W	X	X	X	-	X	X	X	-	-	-	-	-	N
46022*		40.72N	124.52W	X	X	X	-	X	X	X	-	-	-	-	-	N
46023		34.71N	120.97W	X	X	X	-	X	X	X	-	-	-	-	-	X
46025*		33.75N	119.08W	X	X	X	-	X	X	X	-	-	-	-	-	S
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	124.51W	X	X	X	-	X	X	X	-	-	-	-	-	X
46030*		40.42N	124.53W	X	X	X	-	X	X	X	-	-	-	-	-	N
46035*		57.08N	177.71W	X	X	X	-	X	X	X	-	-	-	-	-	X
46041*		47.34N	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	-	-	-	-	-	N
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*		60.22N	146.83W	X	X	X	-	X	X	X	-	-	-	-	-	N
46062		35.10N	121.01W	X	X	X	-	X	X	X	-	-	-	-	-	X
46063*		34.28N	120.67W	X	X	X	-	X	X	X	-	-	-	-	-	N
46066*		52.65N	155.00W	X	X	X	-	X	X	X	-	-	-	-	-	N
46079*		59.05N	152.23W	X	X	X	-	X	X	X	-	-	-	-	-	X
46083*		58.25N	138.00W	X	X	X	-	X	X	X	-	-	-	-	-	X
51001*		23.40N	162.27W	X	X	X	-	X	X	X	-	-	-	-	-	N
51002*		17.15N	157.79W	X	X	X	-	X	X	X	-	-	-	-	-	N
51003*		19.16N	160.74W	X	S	X	-	X	X	X	-	-	-	-	-	N
51004*		17.44N	152.52W	X	X	X	-	X	X	X	-	-	-	-	-	N
51028		0.00N	153.88W	D	D	D	-	D	D	D	-	-	-	-	-	N

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

Total Base Funded Buoys:	49
Total Other Buoys :	08
Total Moored Buoys :	57

Remarks: (mm/dd/yy)

41010 - Parities in wave data.
41004 - Intermittent transmission problem.
42007 - Wind direction failed 11/7/01. Releasing wind speed data only.
44004 - Water temp data failed 12/1/01, restored 12/3/01.
44008 - Buoy data failed 9/4/01, serviced and restored 12/4/01.
45001 - Seasonal recovery 11/6/01.
45002 - Seasonal recovery 11/16/01.
45003 - Seasonal recovery 11/17/01.
45004 - Seasonal recovery 11/6/01.
45005 - Seasonal recovery 12/2/01.
45006 - Seasonal recovery 11/6/01.
45008 - Seasonal recovery 11/17/01.
46006 - Wind data failed 11/13/01.

46013 - Dew point data failed 7/12/01.
46023 - Wind direction data failed. Releasing wind speed data only.

46025 - Dew point data failed 11/27/00.
46026 - Dew point data failed 4/4/00.
46029 - Intermittent transmission problem.
46030 - Air temp data failed 11/29/01.
46050 - Buoy adrift 11/28/01.
46066 - Wind direction data failed, releasing wind speed data only.

51003 - Air temp data failed 1/16/01.
51028 - Buoy adrift 10/31/01.

AUSTRALIA

Drifting Buoys

WMO Buoy ID	ARGOS ID	Position: 16 November 2001		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
56511	1869	-25.013	67.095	-	X	X	X	X	-	-	X	-	-	-	-	-
56512	2933	-49.428	128.089	-	X	X	X	X	-	-	X	-	-	-	-	-
56513	2950	-22.074	95.373	X	X	X	X	X	-	-	X	-	-	-	-	-
56514	2935	-57.502	170.894	-	X	X	X	X	-	-	X	-	-	-	-	-
56515	2936	-50.883	166.453	-	X	X	X	X	-	-	X	-	-	-	-	-
56516	2938	-54.781	-170.781	-	X	X	X	X	-	-	X	-	-	-	-	-
56535	2939	-32.381	86.288	-	X	X	X	X	-	-	X	-	-	-	-	-
74534	4871	-54.006	98.825	-	S	X	X	X	-	-	X	-	-	-	-	-

FRANCE

Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 18 December 2001		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
13010*	01741	0.0N	0.0E	X	X	-	-	X	-	-	-	X	-	-	-	-
15001*	19097	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-	-	-
15002*	12528	0.0N	10.0W	X	X	-	-	X	-	-	-	X	-	-	-	-
15006*	06882	6.0S	10.0W	S	X	-	-	S	-	-	-	X	-	-	-	-
41096	05833	16.4N	60.9W	-	-	-	-	X	X	.	-	-	-	-	-	-
41097	05834	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-	-	-
41098	05832	14.5N	61.1W	-	-	-	-	X	X	.	-	-	-	-	-	-
41100	-	15.9N	57.9W	X	X	X	X	X	X	X	-	-	X	-	-	-
61001	-	43.4N	7.8E	X	X	X	X	X	X	X	-	-	X	-	-	-
61002	-	42.1N	4.7E	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	-	-	-	-	-	-	-	-
62052	-	48.5N	5.6W	X	X	X	X	X	X	.	-	-	X	-	-	-
62163**	-	47.5N	8.5W	X	X	X	X	X	X	-	-	-	X	-	-	-

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

Drifting Buoys - Indian Ocean

WMO Buoy ID	ARGOS ID	Position: 18 December 2001		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
14530*	34151	6.7S	72.7E	-	-	X	X	X	-	-	X	-	-	-	-	-
14531*	34152	14.7S	70.0E	-	-	X	X	X	-	-	X	-	-	-	-	-
14532*	34153	10.2S	59.6E	-	-	X	X	X	-	-	X	-	-	-	-	-
14533*	34154	7.7S	52.8E	-	-	X	X	X	-	-	X	-	-	-	-	-
14534*	34156	8.6S	61.8E	-	-	X	X	X	-	-	X	-	-	-	-	-
14535*	34159	8.4S	65.9E	-	-	X	X	X	-	-	X	-	-	-	-	-
14536	28693	33.9S	68.7E	-	-	X	X	X	-	-	X	-	-	-	-	-
16536	06428	57.5S	158.9E	-	-	X	X	X	-	-	S	-	-	-	-	-

16537	28694	43.7S	52.3E	-	-	X	X	X	-	-	S	-	-	-	-	-
16539	06436	40.7S	111.1E	-	-	X	X	X	-	-	S	-	-	-	-	-
16540	17927	47.3S	150.1E	-	-	X	X	X	-	-	S	-	-	-	-	-
53560*	34150	16.1S	85.5E	-	-	X	X	X	-	-	X	-	-	-	-	-
53561*	34157	13.6S	78.0E	-	-	X	X	X	-	-	X	-	-	-	-	-
53562*	34158	6.6S	80.5E	-	-	X	X	X	-	-	X	-	-	-	-	-

* Cooperation with AOML and Navoceano

Drifting buoys - North Atlantic

WMO Buoy ID	ARGOS ID	Position: 18 December 2001		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
62553	15503	23.5N	29.0W	X	-	X	-	S	-	-	-	S	-	-	-	-
62569	15525	34.1N	11.2W	S	-	-	-	X	-	-	-	X	-	-	-	-
62782*	03739	29.1N	15.9W	-	X	-	-	X	-	-	X	-	-	-	-	-
62784*	13060	29.5N	15.1W	-	X	-	-	X	-	-	X	-	-	-	-	-

*Reports salinity

EUROPEAN GROUP ON OCEAN STATIONS

EGOS Operational buoys by the end of November 2001

WMO	ARGOS	Owner	Buoy	PP	TW	dp	dd	ff	TA	DR	LUT	DepDate
62501	7139	FR	SVP-B	OK	OK	OK	-	-	-	-	TS	28.02.01
62503	17926	FR	SVP-B	OK	OK	OK	-	-	-	-	TS	03.03.01
62553	15503	FR	MS-GT	OK	-	OK	-	-	-	-	T	11.02.01
62504	17928	FR	SVP-BW	OK	OK	OK	-	-	-	OK	TS	27.02.01
62511	26751	FR	SVP-BS	OK	OK	OK	-	-	-	OK	T	19.04.01
62510	26748	FR	SVP-BS	-	OK	-	-	-	-	OK	T	25.04.01
62516	28696	FR	SVP-B	OK	OK	OK	-	-	-	OK	TS	09.09.01
62512	28692	FR	SVP-B	OK	OK	OK	-	-	-	OK	TS	10.09.01
62518	28697	FR	SVP-B	OK	OK	OK	-	-	-	OK	TS	10.09.01
62519	28698	FR	SVP-B	OK	-	OK	-	-	-	OK	TS	10.09.01
62520	32783	FR	SVP-BW	OK	OK	OK	OK	OK	-	-	T	15.11.01
64551	6669	GE	C/B-GPS	OK	OK	OK	-	-	OK	-	T	15.11.01
64547	2294	GE	C/B-GPS	OK	OK	OK	-	-	OK	-	T	21.11.01
65662	9307	GE	C/B-GPS	OK	OK	OK	-	-	OK	-	OTS	15.11.00
65602	6667	IR	C/S-GPS	OK	OK	OK	-	-	OK	-	OTS	18.03.00
65581	6666	IR	C/B-GPS	OK	OK	OK	-	-	OK	-	OTS	20.06.01
62596	16391	NL	SVP-B	OK	OK	OK	-	-	-	-	TS	25.11.99
65595	4229	NL	C/S	OK	OK	OK	-	-	OK		OT	06.03.01
44627	13698	NL	SVP-B	OK	OK	OK	-	-	-	OK	TS	04.07.01
65516	3677	NO	C/B	OK	OK	OK	-	-	OK	-	OTS	19.06.01
64549	3678	NO	C/S	-	OK	OK	-	-	OK	-	OTS	25.07.01
44613	28467	UK	MO	OK	-	OK	-	-	OK	-	T	17.04.98
44765	28466	UK	MO	OK	-	OK	-	-	OK	-	TS	11.03.99
44612	27619	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	05.03.00
44724	27922	UK	SVP-BW	-	-	OK	-	-	-	OK	T	05.03.00
44623	27624	UK	SVP-B	OK	OK	OK	-	-	-	-	T	06.03.00
44729	25375	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	16.03.00
65603	27618	UK	SVP-B	-	OK	-	-	-	-	-	T	11.04.00
44761	27615	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	09.06.00
44771	25377	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	31.07.00
44775	25372	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	22.10.00
44776	25371	UK	SVP-B	OK	OK	OK	-	-		-	TS	24.10.00
44778	25370	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	26.10.00
44546	25374	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	03.12.00

44548	27617	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	05.12.00
44549	22648	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	27.02.01
44550	23703	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	28.02.01
44722	18706	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	05.04.01
44614	17147	UK	SVP-B	-	OK	OK	-	-	-	-	T	05.04.01
44721	18702	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	05.04.01
44616	17149	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	06.04.01
44621	17150	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	06.04.01
44624	17151	UK	SVP-BS	OK	-	OK	-	-	-	-	T	06.04.01
44625	17153	UK	SVP-B	OK	OK	OK	-	-	-	-	TS	06.04.01
44726	23460	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	11.09.01
44723	21562	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	17.09.01
44728	23553	UK	SVP-B	OK	-	OK	-	-	-	OK	TS	22.10.01
44730	23856	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	22.10.01
44742	21667	UK	SVP-B	OK	OK	OK	-	-	-	OK	TS	29.10.01

Explanation to the fields:

Buoy types:

SVP-B **S**urface **V**elocity **P**rogramme – **B**arometer Drifter. Small Spherical drogue carrying buoy. Barometer type (May vary): Low-precision barometer type AIR SB-2A or Vaisala PTB-100. Does not provide air temperature. Nominal lifetime: 1 year

SVP-BW As above, but fitted with acoustic wind speed sensor and a fixed vane for wind direction measurements

SVP-BS As above, but with Salinity (i.e. conductivity) sensor

MO **M**et**O**cean Buoy- Also Called TOGA or FGGE type. Large, aluminium hull, high precision barometer, type Paroscientific or medium precision type Solartron. Measures all parameters including wind speed and direction where indicated in the ff and dd column. Nominal lifetime: 2 years or more.

MO-W Metocean Buoy As above, but with rotor based wind speed sensor, and fixed vane wind direction sensor.

C/S ConMar buoy. Large, Glass Fibre Reinforced hull. High precision barometer, type Paroscientific. Measures all parameters, except wind. Nominal Lifetime: 2 years or more.

C/S-GPS As above, but with GPS positioning.

C/B ConMar buoy. As above but with medium precision Solartron barometer

C/B-GPS As above, but with GPS positioning. PTT repetition interval 200 or 90 seconds.

MS Marisonde buoy. Medium size, polyethylene hull, medium precision barometer type Vaisala PT201A or Air DB-2A. Nominal lifetime 1 year.

MS-Gt As above for MS, but fitted with thermistor chain.

MS-Gi Marisonde Gi (Interaction measurements) measures Air Pressure, Sea Surface Temperature, Wind Direction, wind speed, Air Temperature.

MS-G As above, but fitted with a vane for wind direction measurements

CMOD Compact Meteorological and Oceanographic Drifter). Small, cylindrical aluminium hull with gas inflated flotation collar on top Diameter of flotation collar is 36 cm.. 43 cm telescopic mast on top carrying AT sensor and air inlet. Total length 134 cm, low precision barometer. Measures AT, SST and AP and TZ

Measured Parameters:

PP Air Pressure

TW Sea Surface Temperature. Depth of probe = 0.6 m (C/S (-GPS), C/B (-GPS), MO), 0.1 m (SVP-B (W)),0.5m, MS-( )

Dp Air Pressure tendency, Dp= PP (t)-PP (t-3), t=time in hours.

dd Wind Direction

ff Wind speed

ta Air temperature.

Other parameters

DR Drogue

Local User Terminals (LUT):

LUT **L**ocal **U**ser **T**erminal. Earth Station for ARGOS data, used to improve timeliness and quantity of data. Positions of the LUTs are indicated at the front-page map.

O,T,S O = **O**slo (or ENMI), T= Lannion via **T**oulouse (or LFPW) S= **S**øndre Strømfjord (or BGSF).

ARGOS SERVICE
ARGOS monthly status report

Date of Statistics computation: 2 November 2001

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

DRIFTING BUOY	1231
MARINE STATION	140
MOORED BUOY	315
TERRESTRIAL ANIMALS	140
MARINE ANIMALS	265
BIRDS	275
BALLOONS	6
RAFOS FLOATS	79
FIXED STATION	622
BOAT(<20KNOTS)	-
SHIPS (>20KN)	-
TEREST VEHICLE	-
TOTAL	**3073**

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	147
FIXED STATION	22
RAFOS FLOATS	-
MOORED BUOYS	16

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	535
FIXED STATIONS	27
GPS MOBILE	
MOORED BUOY	68

CODING STATISTICS OF PLATFORMS
Reporting through ARGOS and distributed over the GTS

BATHY	431
BUOY	459171
SHIP	5360
SIMPLE	12
STD	1430
SYNOP	36788
TESAC	35
TOTAL	**503227**

Date of Statistics computation: 3 December 2001

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

DRIFTING BUOY	1123
MARINE STATION	129
MOORED BUOY	300
TERRESTRIAL ANIMALS	142
MARINE ANIMALS	251
BIRDS	245
BALLOONS	9
RAFOS FLOATS	70
FIXED STATION	601
BOAT(<20KNOTS)	-
SHIPS (>20KN)	-
TEREST VEHICLE	-
TOTAL	**2870**

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	150
FIXED STATION	22
RAFOS FLOATS	-
MOORED BUOYS	18

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	510
FIXED STATIONS	27
GPS MOBILE	-
MOORED BUOY	71

CODING STATISTICS OF PLATFORMS
Reporting through ARGOS and distributed over the GTS

BATHY	263
BUOY	448428
SHIP	5499
SIMPLE	16
STD	1478
SYNOP	36615
TESAC	69
TOTAL	**492368**

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"*.

1. Index Number:
The station index number is composed of the block number (II) and the station number (iii). The block number defines the area in which the reporting station is situated.

For example: 60360, 60 is the block number for Algeria and 360 is the station number for Annaba.

2. Station Name:
Name of the station.

3. Position:
Latitude/Longitude: Latitude/Longitude of the station in degrees and minutes. The positions of stations north (N) or south (S) of the Equator and east (E) or west (W) of the Greenwich meridian are indicated by the appropriate letters after the minutes figures.

4. Bulletin Identification:
The TTAAii CCCC of the abbreviated headings of the meteorological bulletins which contain reports from the station should be inserted.

5. Surface Observations:
Use the symbol "X" to indicate that the surface observations are made regularly in accordance with a fixed schedule. In cases where the observations fall outside the fixed schedule, the officicial observation time should be stated. The symbol "-" should be inserted, as appropriate, for non-implementation.

6. Elevation:

HP
HP = Elevation of the station in metres. It is the datum level to which barometric pressure reports at the station refer; such current barometric values being termed "station pressure" and understood to refer to the given level for the purpose of maintaining continuity in the pressure records.

H/HA

H = elevation of the ground in metres (average level of terrain in immediate vicinity of station), is given for stations **not** located on aerodromes**.** It is normally also the height of the radiosonde release point.

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;

Note: The symbol "#" indicates that the elevation figures are approximate.

7. Upper-air Observations:
This column indicates the official observation time fixed by the service for the release of a balloon, parachute or rocket.

Upper-air observations are indicated by means of the use of one or more appropriate letters *(see Table 1)* below the corresponding standard observation time of 0000 UTC, 0600 UTC, 1200 UTC and 1800 UTC. If the official observation time falls within the period of 45 minutes immediately before the corresponding standard time, the appropriate letters are placed below the standard time. In cases where it does not fall within the standard time, the official observation time should be stated.

Symbol	Meaning
P	Pilot balloon; observation of upper-wind obtained by optical tracking of a free balloon
R	Radiosonde; observation of atmospheric pressure, temperature and humidity in the upper-air obtained by electronic means.
W	Radiowind; upper-wind observation obtained by tracking a free balloon by electronic means
X	The symbol may be used to indicate an upper-air obervation of unspecified type. The symbol "X" is replaced by a time (eg. 23, 02 etc...) when the observation is carried out at a non-standard time.

Note: The letters P, R and W are combined as necessary to indicate simultaneous observations (PR or RW)

Table 1

8. Pressure Level
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) 850 hPa) 700 hPa) 500 hPa)	Geopotential of the given standard isobaric surface reported using group $4a_3hhh$

9. Remarks

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.

10. CLIMAT:

Indicate whether the station is used to generate CLIMAT messages.

CT = Station for which monthly climatological means of both surface and upper-air elements are transmitted.

T = Station for which monthly climatological means of upper-air elements are transmitted.

11. GUAN (GCOS):

Indicate whether the station is a station of the Global Climate Observing Upper-air Network (GUAN).

Y = Yes; N = No

12. Geo. ht. calc. AUTO/MAN:

Indicate how the geopotential height calculation will be done:

AUTO = automated; MAN = Manual

13. Radiation Correction

Y/N: Indicate if radiation correction is applied or not: Y=Yes; N = No

Type: If radiation correction is applied indicate the type of identification if known *(see Table 2)*

Radiation Correction Type	Description
V82	Vaisala RS80 radiation correction 1982
V86	Vaisala RS80 radiation correction 1986
V93	Vaisala RS80 radiation correction 1993
NIR	Vaisala RS80 solar correction (86) but no Infra-Red correction
?with above	Some doubt concerning accuracy

Table 2

14. Ground Equipment Type

Type of ground equipment in use at the station

15. Radio Frequency:

The approximate radiosonde transmitter frequency (MHz) or frequency range regularly used at the station.

16. Radiosonde *(see table 3)*

Regular: Type of radiosonde regularly used.

Alternative: Alternative type of radiosonde used.

RADIOSONDE TYPES

SONDE ABBREVIATION	SONDE DESCRIPTION
Blank	Unknown
AIR	Air Intellisonde (USA)
ELIN	ELIN (Austria)
IM-MK3	Indian Met. Services Mark 3
J/YANG	JINYANG radiosonde (VIZ type)
MARS/MET	Meteorit 1 or 2 system (former USSR)
MEIR91/MEIR80	Meisei (Japan)
MES	Mesural (French)
MRZ	AVK system (Former USSR)
MRZ-T	AVK prototype system
MSS	Space Data Corp. (USA)
ML-SRS	Meteolabor (Switzerland)
SDC	Space Data Corp. (USA)
SHANG	Shanghai Radio (China)
VIZ	V.I.Z. (USA)
VIZA/B VIZII	V.I.Z. (USA)
VRS80*	Vaisala RS80 (PTU)
VRS80N*	Vaisala RS80 (VLF)
VRS80L*	Vaisala RS80 (LORAN)
VRS80G*	Vaisala RS80 (GPS)
?	Some doubt on accuracy

* Add in addition to "VRS80" the letters "H" or "A" depending on the application of the H- or A-Humicap sensors for humidity measurement.

Table 3

17. Windfinding

System/Method: Windfinding system or method in use at station

Equipment: Windfinding equipment in use at station.

18. Remarks:

Any other information pertaining to the station..

These tables should be sent to:

World Meteorological Organization
World Weather Watch - Basic Systems
Operational Information Services
7 bis, Avenue de la Paix
Case postale No. 2300
CH-1211 GENEVA 2
Switzerland

FEEDBACK FORM

For Publication No. 9, Volume A *"Observing Stations"* and Volume C1 *"Catalogue of Meteorological Bulletins"*

*(For upper-air stations **ALSO** complete the form at the back of this page)*

Country: _____

Date: _____

Type of Exchange (delete as appropriate): Global / Regional

Type of Station (delete as appropriate): SYNOP / TEMP / PILOT

1	2	3		4		5								6		7				8	9
Index Number	Station Name:	Position		Bulletin Identification		Surface Observations								Elevation		Upper-Air				Pressure Level	Remarks:
		Latitude	Longitude	TTAAii	CCCC	00	03	06	09	12	15	18	21	HP	H/HA	00	06	12	18		

FEEDBACK FORM

Catalogue of Radiosondes and Upper-air Windfinding Systems

(This form should **only** be completed for Upper-Air stations)

1	10	11	12	13		14	15	16		17		18
Index Number	CLIMAT (CT/T)	GUAN (GCOS) Y=Yes/N=No	Geo Ht Calc Auto/Man	Radiation Correction		Ground Equipment	Radio Frequency (MHz)	Radiosonde		Windfinding		Remarks
				Y=Yes/N=No	Type			Regular	Alternative	Equipment	System/Method	

II. CODES

1. MANUAL ON CODES

International Codes

Effective 1 March 2002, add the following new radiosonde entry to the *"Manual on Codes Volume I.2"*, Common Code Table C-2. The entry has been approved by the President of CBS:

Code figure:	55
Name:	Meisei RS-01G (Japan)

III. GLOBAL TELECOMMUNICATION SYSTEM

1. "Additional" Data and Pruducts

Related to Resolution 40 (Cg-XII)

REGION I - AFRICA

Country: REUNION, COMOROS (France) Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: St. Denis

TTAAii	CCCC	Code Form	Time Group (GG)	Content
SIRE19	FMEE	FM 12-XI	03,09,15,21	61996, 61997, 61998
SIRE20	FMEE	FM 12-XI	03,09,15,21	61968, 61970, 61972, 61976, 61980, 67005

REGION III - SOUTH AMERICA

Country: FRENCH GUIANA Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: Cayenne/Rochambeau

TTAAii	CCCC	Code Form	Time Group (GG)	Content
SIFG20	SOCA	FM 12-XI	03,09,15,21	81401 81405 81408 81415

REGION IV - NORTH AND CENTRAL AMERICA

Country: GUADELOUPE, ST. BARTHELEMY, ST. MARTIN (France) Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: Le Raizet

TTAAii	CCCC	Code Form	Time Group (GG)	Content
SIMF20	TFFR	FM 12-XI	03,09,15,21	78890 78894 78897

Country: MARTINIQUE (France) Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: Fort-de-France/Le Lamentin

TTAAii	CCCC	Code Form	Time Group (GG)	Content
SIMR20	TFFF	FM 12-XI	03,09,15,21	78922, 78925

Country: ST. PIERRE AND MIQUELON (France) Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: Saint-Pierre

TTAAii	CCCC	Code Form	Time Group (GG)	Content
SIFP20	LFVP	FM 12-XI	09,15,21	71805

REGION VI - EUROPE

Country: FRANCE Date: 11 December 2001
National Centre: Météo France, Toulouse
Compiling Centre: Saint-Pierre

TTAAii	CCCC	Code Form	Time Group (GG)	Content	
G(TUVROM)(A-EGI-K)(99,70,50,40,30,20)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as

					soon as possible.
G(TUVROM)(A-EI-K)(99,70,50,40,30,20)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GH(OM)(A-EGI-K)(99,70,40,30,20)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GH(OM)(A-EGI-K)(99,70,40,30,20)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GO(OM)(A-EGI-K)(99,85,70,50)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GO(OM)(A-EGI-K)(99,85,70,50)	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GP(OM)(A-EGI-K)98	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
GP(OM)(A-EGI-K)98	LFPW	FM 47-IX Ext.	00,12	(2.5°x2.5° 21x21 points) (75°N-25°N 50°W-0°E & 0°E-50°E)	European block. 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 as soon as possible.
H(HTUVR)H(ACEGI-M)(95,92,85,70,50,40,30,25,20,15,10)	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to South)	ACMAD block
H(HTUVR)H(ACEGI-M)(95,92,85,70,50,40,30,25,20,15,10)	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to South)	ACMAD block
H(HTUVRO)U(A-M)(92,85,70,50,40,30)	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
H(HTUVRO)U(A-M)(92,85,70,50,40,30)	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
H(TUV)(NS)(AEI)25	LFPW	FM 92-X Ext.	00,12	(2.5°x2.5° 144x45 points) (180°W-180°E: West to East; 90°N-20°S and 20°N-90°S: North to South)	Global block
H(TUV)(NS)(AEI)25	LFPW	FM 92-X Ext.	00,12	(2.5°x2.5° 144x45 points) (180°W-180°E: West to East; 90°N-20°S and 20°N-90°S: North to South)	Global block
HGH(ACEGI-M)(92,20)	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to South)	ACMAD block
HGH(ACEGI-M)(92,20)	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to	ACMAD block

				South)	
HOH(ACEGI-M)50	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to South)	ACMAD block
HOH(ACEGI-M)50	LFPW	FM 92-X Ext.	00,12	(1.5°x1.5° 61x61 points) (30°W-60°E: West to East; 45°N-45°S: North to South)	ACMAD block
HPU(A-M)89	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
HPU(A-M)89	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
HQU(A-M)(85,70,50,30)	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
HQU(A-M)(85,70,50,30)	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
HWU(A-M)50	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
HWU(A-M)50	LFPW	FM 92-X Ext.	00,12	(1°x1° 126x66 points) (60°W-65°E: West to East 75°N-10°N: North to South)	European block
SIAA21	LFPW	FM 12-XI	03,09,15,21	89642	
SIFR21	LFPW	FM 12-XI	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	FM 12-XI	03,09,15,21	07037 07139 07335 07471 07607	
SIFR41	LFPW	FM 12-XI	03,09,15,21	07002 07010 07028 07038 07040 07055 07061 07075 07090 07168 07169 07197 07288 07292	
SIFR42	LFPW	FM 12-XI	03,09,15,21	07120 07143 07147 07153 07157 07200 07205 07230 07235 07249 07300 07306 07354	
SIFR43	LFPW	FM 12-XI	03,09,15,21	07260 07379 07385 07471 07482 07486 07491 07497 07549	
SIFR44	LFPW	FM 12-XI	03,09,15,21	07315 07330 07360 07412 07502 07524 07530 07602 07610 07622 07632	
SIFR45	LFPW	FM 12-XI	03,09,15,21	07560 07579 07588 07635 07645 07667 07675 07680 07749 07754 07765 07770 07785	
SMFR41	LFPW	FM 12-XI	00,06,12,18	07002 07010 07028 07038 07040 07055 07061 07075 07090 07168 07169 07197 07288 07292	
SMFR42	LFPW	FM 12-XI	00,06,12,18	07120 07143 07147 07153 07157 07200 07205 07230 07235 07249 07300 07306 07354	
SMFR43	LFPW	FM 12-XI	00,06,12,18	07260 07379 07385 07482 07486 07491 07497 07549	
SMFR44	LFPW	FM 12-XI	00,06,12,18	07315 07330 07360 07412 07502 07524 07530 07602 07610 07622 07632	
SMFR45	LFPW	FM 12-XI	00,06,12,18	07560 07579 07588 07635 07645 07667 07675 07680 07749 07754 07765 07770 07785	