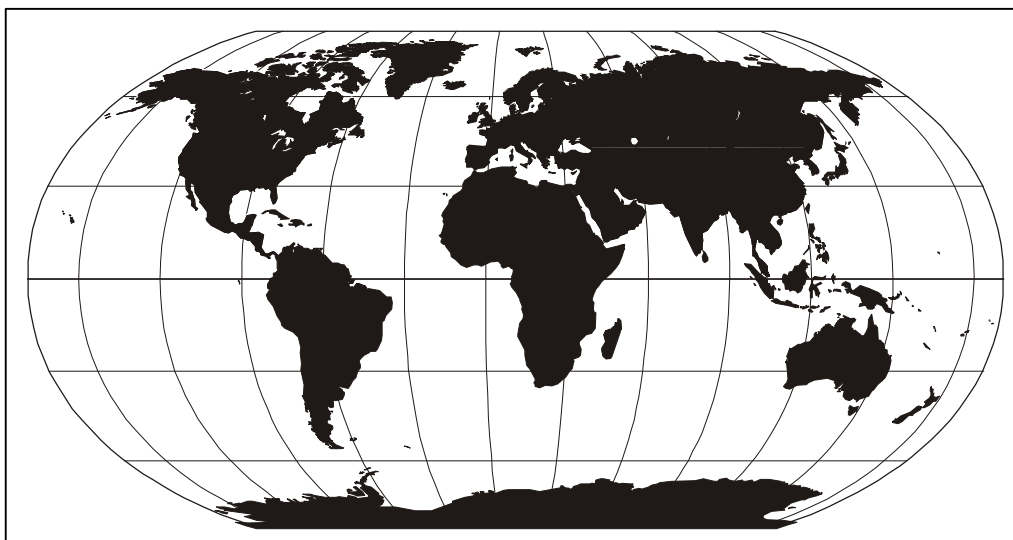




OPERATIONAL NEWSLETTER

World Weather Watch and Marine Meteorological Services



**WORLD METEOROLOGICAL ORGANIZATION
GENEVA
SWITZERLAND**

No. 01/02- 2002
(January/February 2002)

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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

PLEASE check our World Weather Watch home page for the most recent edition. Alternatively send us your email address, and we will contact you when the Newsletter is available.

Internet:

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 on-line service which is available over the internet at the following url:

For access via http:

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

For access via ftp:

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

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To view the Newsletter electronically you require "Adobe Acrobat Reader", which can be downloaded at the following location:

<http://www.adobe.com/prodindex/Acrobat/readstep.html> (full instructions on installation and use are provided).

Subscriptions:

Please contact:

Tel.: +41 22 730 85 89

Or mail to:

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

Internet: Best_J@gateway.wmo.ch



Téléphone: Int'l + 41 (0) 22 730 81 11
Facsimilé: Int'l + 41 (0) 22 730 81 81
Télégrammes: METEOMOND GENEVE
Télex: 41 41 99 OMM CH

SECRÉTARIAT
GENÈVE - SUISSE

7 bis, avenue de la Paix
Case postale No. 2300
CH-1211 Genève 2

Our ref.: 18172-02/WB/SY/T.8

GENEVA, 20 March 2002

Annex: 1

Dear Reader,

The twelfth session of CBS (CBS-XII) (Geneva, 2000) recalled that the objective of the Operational Information Service (OIS) was to collect from and distribute to WMO Members and WWW Centres detailed and up-to-date information on facilities, services and products made available in the day-to-day operation of the WWW. This Service includes *WMO Publication No. 9 – Weather Reporting* - as well as *WMO Publication No. 47 – International List of Selected, Supplementary and Auxiliary Ships*, METNO messages and the *WWW Operational Newsletter*.

The *WMO Publications No. 9 and 47* are distributed on CD-ROMs once a year as from this year, and their updated versions are available on the Internet via the WMO home page at the following site: <http://www.wmo.ch/web/ddbs/publicat.html>. The changes to the *WMO Publication No. 9 - Volumes A, C1, C2 and D* – are weekly distributed on the GTS through METNO/WIFMA messages.

The Operational Newsletter, which is issued every two months, aims at providing a summary of the latest operational information on the GOS, GDPS, GTS, DM, codes and the Marine Meteorological Services. It is available on the Internet at the following site: <http://www.wmo.ch/web/ddbs/jen/Newsletters/index.html>. The Newsletter is also at present distributed on a paper format.

Producing the Newsletter only in an electronic format and accessing it through the Internet allows a new publishing approach for the Newsletter. Relatively static information regularly inserted into the present Newsletter (e.g. lists of buoys) may be excluded from the Newsletter and replaced with a link to the relevant page of the server. The Newsletter should continue to contain summaries of the changes of the operational information since the previous Newsletter edition, such as a summary of the significant changes to *WMO Publication No. 9*, and urgent notifications. The Newsletter will include the URL for all information sets referred to in the Newsletter or relevant otherwise. The size of the Newsletter could be kept within limits (e.g. 200 Ko), with a view to facilitating downloading through the Internet. The principle to issue the Newsletter every two months will be kept for the near future. However, the dispatch of the electronic version through the Internet would make it possible to release the Newsletter at irregular dates. The use of this flexibility can be envisaged in a next phase.

The second session of the CBS Management Group (Sydney, December 2001) agreed that the Newsletter should be distributed via electronic mail and accompanied by an announcement that the latest edition is also available on the WMO Internet Server.

To recipients of the Operational Newsletter

In view of the above and in light of the high cost annotated with the production and dispatch of the Newsletter on paper, it is planned to stop the distribution of the Newsletter on paper as from the May-June 2002 edition. You are invited to confirm your wish to receive or continue receiving the announcement of a new edition of the *Newsletter* through the Internet by filling in the attached form that is also available in the WMO server at:

<http://www.wmo.ch/web/ddbs/jen/Newsletters/index.html>
<ftp://www.wmo.ch/wmo-ddbs/OperationalInfo/Newsletters/2002/01022002>

and by sending the completed form to: Best_J@gateway.wmo.ch.

Yours faithfully,

(D.C. Schiessl)
Director
World Weather Watch, Basic Systems Department



WORLD METEOROLOGICAL ORGANIZATION

**PLEASE complete this form
if you wish to be sent an electronic reminder on availability of
the Newsletter**

First Name: _____

Last Name: _____

Title: _____

Department _____

Meteorological Service: _____

Country _____

Email Address: _____

Select one of the following options:

- I would like to receive an email announcing new editions of the Newsletter and will retrieve the Newsletter from the WMO server.
- I would like to receive an email announcement together with the Newsletter as an email attachment.

(For your information please note that the size of the electronic format of the newsletter would be below 200 Koctets.)

Please return this form to: Best_J@gateway.wmo.ch

MEETINGS SCHEDULED - 2002

Related to: The World Weather Watch and Marine Meteorological Services

Date	Place	Title of the Meeting	
September 2002 (tentative)	(Place to be decided)	OPAG/IOS Expert Team on Requirements for Data from Automatic Weather Stations	WWW-B
3-6.IV.2002	Geneva, WMO Secretariat	JCOMM Services Programme Area 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
22-25.IV.2002	Prague, Czech Republic	CBS Expert Team Meeting on Data Representation and Codes	WWW-B
22-26.IV.2002	Montreal, Canada	CBS Expert Team to Develop a Verification System for Long-range Forecasts	WWW-B
24-27.IV.2002	La Jolla, CA, USA	JCOMM Observations Programme Area Coordination Group - First session	WWW-A
13-17.V.2002	Washington, DC, USA	CBS Expert Team on Migration to Table Driven Code Forms	WWW-B
22-25.V.2002	Paris, France	JCOMM Data Management Coordination Group - First session	WWW-A
27-31.V.2002	Montreal, Canada	ISS Expert Team on Enhanced Utilisation of Data Communication System And Expert Team on the Improved MTN and GTS	WWW-B
13-17 May 2002	Offenbach, Germany	CBS/GCOS Expert Meeting on Coordination of the GSN and GUAN	WWW-B
May 2002 (Date to be decided)	Manila, Philippines	RA V Tropical Cyclone Committee - Ninth session	WWW-A
13-16 May 2002	United Kingdom (Place to be decided) (tentative)	Expert Team on Integrated Data Management - Second session	WWW-B
24-28 June 2002	Reading, UK	Expert Meeting on GDPS Solutions for Data Quality Monitoring Procedures	WWW-B
May/June 2002 (Date to be decided)	Place to be decided	CBS Implementation Coordination Team on Data Processing and Forecasting Systems	WWW-B
24-26.VI.2002	Geneva, WMO Secretariat	JCOMM Capacity Building Programme Area Coordination Group - First session	WWW-A
8-12 April 2002	Nairobi, Kenya (tentative)	RA I Implementation/Coordination Meeting on Strategy for Enhancement of the WWW-Basic Systems	WWW-B
1-5.VII.2002	Oxford, United Kingdom	Expert Team Meeting on Observational Data Requirements and Redesign of the GOS (reduced session)	WWW-B
14-18 October 2002	Geneva, WMO Secretariat	Implementation Coordination Team Meeting on Integrated Observing Systems	WWW-B
8-12.VII.2002	Reading, United Kingdom	Training Seminar on the Application and Interpretation of NWP Products in Aviation Forecasting	WWW-A
July 2002 (Date to be decided)	Tokyo, Japan	Typhoon Operational Forecasting Training at RSMC Tokyo-Typhoon Centre	WWW-A
9-13.IX.2002	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
11-14.IX.2002	Lisbon, Portugal	JCOMM Expert Team on Maritime Safety Services - First session	WWW-A
14-26.IX.2002	Bahrain	Western RA II Regional Training Seminar on Data Processing and Forecasting Systems and Improvement of Public Weather Services	WWW-A/WWW-B
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

September 2002 (Date to be decided)	Geneva, WMO Secretariat	Expert Meeting on GDPS Products Requirements and Delivery Matters	WWW-B
23-27 September 2002	South Africa	Task Team on Future WMO Information Systems - Fourth session	WWW-B
September/October 2002 (Date to be decided)	Melbourne, Australia	Southern Hemisphere Training Course on Tropical Cyclones	WWW-A
Third quarter 2002 (Date to be decided)	Place to be decided	Implementation Coordination Team on Public Weather Services	WWW-B
7-9.X.2002	Geneva, WMO Secretariat	Workshop on Radio Frequencies for Meteorology	WWW-B
14-18.X.2002	Martinique, France	Data Buoy Cooperation Panel - Eighteenth session	WWW-A
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
21-23.X.2002	Martinique, France	ARGOS Joint Tariff Agreement - Twenty-first session	WWW-A
21-25.X.2002	Buenos Aires, Argentina	JCOMM Expert Team on Sea Ice - First session	WWW-A
18-22.XI.2002 November 2002 (Date to be decided)	Chiang Mai, Thailand	ESCAP/WMO Typhoon Committee - Thirty-fifth session	WWW-A
November 2002 (Date to be decided)	Place to be decided	Fourth Tropical Cyclone RSMCs Technical Coordination Meeting	WWW-A
2-3.XII.2002	Cairns, Australia	Conference on Data Processing and Forecasting Systems	WWW-B
4-12.XII.2002	Cairns, Australia	Commission for Basic Systems - Extraordinary session	WWW-B
December 2002 (Date to be decided)	Cairns, Australia	Expert Meeting on the Formulation of TCP Sub-Project 23	WWW-A

TERMINOLOGY USED:

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

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:2 January 2002		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	X	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	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	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:2 January 2002		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	.	.	.	.	.	.	.	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:2 January 2002		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	.	.	.	.	.	.	.	N/A	.	.	.	.	.
45138	3436	49 33' N	065 46' W	.	.	.	.	.	.	.	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	.	.	.	.	.	.	.	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	.	.	.	.	.	.	.	N/A	.	.	.	.	.
45148	N/A	49 42' N	094 31' W	.	.	.	.	.	.	.	N/A	.	.	.	.	.
45149	N/A	43 33' N	082 05' W	.	.	.	.	.	.	.	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	.	.	.	.	.

+ 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:2 January 2002		Observed or Technical Parameters												
		Latitude / Longitude		1	2	3	4	5	6	7	8	9	10	11	12	13
46632	33066	47 42' N	151 54' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46657	33069	47 42' N	163 36' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46660	33070	45 36' N	160 42' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46661	12521	27 30' N	151 36' W	S	S	S	S	S	.	.	X	.	.	.	.	.
46692	33073	46 24' N	158 48' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46695	33068	50 48' N	157 12' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46698	33074	47 36' N	148 42' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46700	12517	50 00' N	143 06' W	X	S	X	X	X	.	.	X	.	.	.	.	.
46701	33071	44 24' N	159 42' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46702	33012	44 12' N	157 00' W	S	.	X	X	X	.	.	X	.	.	.	.	.
46705	33072	42 36' N	162 36' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46707	33067	48 36' N	152 24' W	.	.	X	X	X	.	.	X	.	.	.	.	.
46710	12516	29 00' N	138 06' 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 adrift Nov 12. Recovered Nov 15/01.
 44258 - Buoy serviced Sept 10/01.
 45132 - Buoy removed for Winter Dec 21/01.
 45135 - Buoy redeployed Apr 26/00.
 45136 - Buoy removed for the Winter Dec 8/01.
 45137 - Buoy removed for the Winter Nov 6/01.
 45138 - Buoy removed for the Winter Nov 15/01.
 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 removed for the Winter Nov 18/01.
 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 removed for the Winter Nov 28/01.
 45148 - Buoy removed for the Winter Oct 29/01.
 45149 - Buoy removed for the Winter Nov 29/01.
 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 turned off Oct 19 to Dec 31/01.
 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.
 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. Air Temperature u/s.
 46701 - Woce Drifter deployed Sep 5/01.
 46702 - Woce Drifter deployed Oct 4/01. Wind data not useable.
 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
 46661 - Buoy failed Dec/01.

UNITED STATES OF AMERICA
Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 28 February 2002-7 March 2002		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*		32.36N/	75.46W	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	S	-	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	-	-	-	-	-	S
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*		41.06N/	66.58W	X	X	X	-	X	X	X	-	-	-	-	-	X
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	R	R	R	-	R	R	R	-	-	-	-	-	N

45006*		47.32N/ 89.87W	R	R	R	-	R	R	R	-	-	-	-	-	N
45007*		42.67N/ 87.02W	R	R	R	-	R	R	R	-	-	-	-	-	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	X	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/123.32W	X	X	X	-	X	X	X	-	-	-	-	-	N
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	-	-	-	-	-	N
46026*		37.76N/122.83W	X	X	X	-	X	X	X	-	-	-	-	-	N
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	S	S	S	-	S	S	S	-	-	-	-	-	S
46041*		47.34N/124.75W	S	S	S	-	S	S	S	-	-	-	-	-	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*		44.61N/124.50W	X	X	X	-	X	X	X	-	-	-	-	-	N
46053*		34.24N/119.85W	X	X	X	-	X	X	X	-	-	-	-	-	N
46054		34.27N/120.45W	D	D	D	-	D	D	D	-	-	-	-	-	N
46059*		37.98N/130.00W	D	D	D	-	D	D	D	-	-	-	-	-	N
46060*		60.58N/146.83W	S	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	S	S	S	-	S	S	S	-	-	-	-	-	S
46083*		58.25N/138.00W	S	S	S	-	S	S	S	-	-	-	-	-	S
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:	60
Total Other Buoys :	09
Total Moored Buoys :	69

Remarks: (mm/dd/yy)

42007 - Pressure data failed 01/14/01.
 42020 - Dew point data failed 1/22/02. Intermittent transmission problem.
 45001 - Seasonal recovery 11/6/01. Seasonal redeployment scheduled week of 4/8/02.
 45002 - Seasonal recovery 11/16/01. Seasonal redeployment scheduled week of 3/10/02.
 45003 - Seasonal recovery 11/17/01.

45004 - Seasonal recovery 11/6/01. Seasonal redeployment scheduled week of 4/8/02.
 45005 - Seasonal recovery 12/2/01. Seasonal redeployment scheduled week of 4/15/02.
 45006 - Seasonal recovery 11/6/01. Seasonal redeployment scheduled week of 4/8/02.
 45007 - Seasonal recovery 12/7/01. Seasonal redeployment scheduled 3/12/02.
 45008 - Seasonal recovery 11/17/01. Seasonal redeployment scheduled week of 3/18/02.

46001 - Pressure data power supply problem. Buoy replacement scheduled week of 3/25/02.
 46006 - Wind data failed 11/13/01, restored 3/6/02.
 46023 - Wind direction data failed. Releasing wind speed data only.
 46025 - Replacement buoy deployed 2/28/02. Parity errors in wave data.
 46026 - Dew point data failed 4/4/00.
 46035 - Dew point data failed 12/13/01, all buoy data failed 1/31/02.
 46041 - Buoy data failed 2/21/02.
 46054 - Buoy adrift 1/30/01, recovered to port 1/31/02.

46059 - Buoy adrift 1/02/02, recovered to port, redeployment scheduled week of 3/25/02.
 46060 - Wind data failed 2/18/02.
 46066 - Wind direction data failed, releasing intermittent wind speed data only.
 46079 - Buoy data failed 1/24/02, recovered to port 2/15/02.
 46083 - Buoy data failed 1/1/02.
 51003 - Air temp data failed 1/16/01.
 51028 - Buoy adrift 10/31/01. Redeployment scheduled week of 3/11/02.

AUSTRALIA Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 5 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
52626	2489	-13.216	139.332	X	X	X	X	X	-	-	X	-	-	-	-	-
52627	2945	-15.176	138.823	X	X	X	X	X	-	-	X	-	-	-	-	-

Drifting Buoys

WMO Buoy ID	ARGOS ID	Position: 5 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
53550	8590	-12.844	123.362	X	-	X	X	X	-	-	X	-	-	-	-	-
56511	1869	-26.783	62.679	-	X	X	X	X	-	-	X	-	-	-	-	-
56512	2933	-51.375	151.812	-	X	X	X	X	-	-	X	-	-	-	-	-
56513	2950	-24.608	89.106	X	X	X	X	X	-	-	X	-	-	-	-	-
56514	2935	-54.984	-170.473	-	X	X	X	X	-	-	X	-	-	-	-	-
56515	2936	-48.324	169.905	-	X	X	X	X	-	-	X	-	-	-	-	-
56516	2938	-53.596	-155.255	-	X	X	X	X	-	-	X	-	-	-	-	-
56517	4879	-59.922	113.794	-	X	X	X	X	-	-	X	-	-	-	-	-
56518	2930	-48.293	122.136	-	X	X	X	X	-	-	X	-	-	-	-	-
56519	4878	-52.672	123.514	-	X	X	X	X	-	-	X	-	-	-	-	-
56535	2939	-30.53	76.767	-	X	X	X	X	-	-	X	-	-	-	-	-
74534	4871	-52.093	115.096	-	S	X	X	X	-	-	X	-	-	-	-	-

NEW ZEALAND Drifting Buoys

WMO Buoy ID	ARGOS ID	Position: 1 March 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
55588	8585	37.3S	170.8E	-	X	X	-	X	-	-	X	-	-	-	-	-
55580	21584	38.4S	168.3E	-	X	X	-	X	-	-	X	-	-	-	-	-
55583	2937	41.5S	152.7E	-	X	X	-	X	-	-	X	-	-	-	-	-
55578	21583	42.5S	157.9E	-	X	X	-	X	-	-	X	-	-	-	-	-

55581	21585	34.3S	166.1E	-	X	X	-	X	-	-	X	-	-	-	-
55582	21586	43.1S	149.0E	-	X	X	-	X	-	-	X	-	-	-	-
55579	21587	33.9S	173.5E	-	X	X	-	X	-	-	X	-	-	-	-
55573	22187	30.9S	153.7E	-	X	X	-	X	-	-	X	-	-	-	-

FRANCE
Moored Buoys

WMO Buoy ID	ARGOS ID	Position: 4 March 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
13010*	19101	0.0N	0.0E	S	X	-	-	X	-	-	-	X	-	-	-	
15001*	19097	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-	-	
15002*	12528	0.0N	10.0W	S	S	-	-	S	-	-	-	S	-	-	-	
15006*	6882	6.0S	10.0W	S	X	-	-	S	-	-	-	X	-	-	-	
41096	5833	16.4N	60.9W	-	-	-	-	X	X	.	-	-	-	-	-	
41097	5834	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-	-	
41098	5832	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	S	S	S	S	S	S	.	-	-	S	-	-	
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: 4 March 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
14530*	34151	3.5S	79.3E	-	-	X	X	X	-	-	X	-	-	-	-	
14531*	34152	15.5S	62.4E	-	-	X	X	X	-	-	X	-	-	-	-	
14532*	34153	8.3S	57.4E	-	-	X	X	X	-	-	X	-	-	-	-	
14533*	34154	6.9S	42.5E	-	-	X	X	X	-	-	X	-	-	-	-	
14534*	34156	5.9S	67.6E	-	-	X	X	X	-	-	S	-	-	-	-	
14535*	34159	10.7S	56.7E	-	-	X	X	X	-	-	S	-	-	-	-	
14536	28693	32.5S	65.1E	-	-	X	X	X	-	-	S	-	-	-	-	
14537	28699	32.5S	65.1E	X	-	X	X	X	-	-	X	-	-	-	-	
16536	06428	57.5S	158.9E	-	-	X	X	X	-	-	S	-	-	-	-	
16537	28694	44.6S	72.3E	-	-	X	X	X	-	-	S	-	-	-	-	
16539	06436	37.2S	110.7E	-	-	X	X	X	-	-	S	-	-	-	-	
16540	17927	51.2S	165.2E	-	-	X	X	X	-	-	S	-	-	-	-	
53560*	34150	17.4S	79.6E	-	-	X	X	X	-	-	S	-	-	-	-	
53561*	34157	18.6S	74.0E	-	-	X	X	X	-	-	X	-	-	-	-	
53562*	34158	4.6S	82.3E	-	-	X	X	X	-	-	S	-	-	-	-	

* Cooperation with AOML and Navocean0

Drifting buoys - North Atlantic

WMO Buoy ID	ARGOS ID	Position: 4 March 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
62784*	13060	29.6N	15.0W	-	X	-	-	X	-	-	X	-	-	-	-	

*Reports salinity

EUROPEAN GROUP ON OCEAN STATIONS

Drifting Buoys - North Atlantic

GERMANY

WMO Buoy ID	ARGOS ID	Position: 12 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
44743	4270	58.387	-37.990	-	X	X	X	-	-	-	-	-	-	-	-	-
44779	6669	53.688	-42.190	-	X	X	X	X	-	-	-	-	-	-	-	-
64547	2294	59.630	-14.440	-	X	X	X	X	-	-	-	-	-	-	-	-

IRELAND

WMO Buoy ID	ARGOS ID	Position: 12 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
65602	6667	62.299	-2.400	-	X	X	X	X	-	-	-	-	-	-	-	-

THE NETHERLANDS

WMO Buoy ID	ARGOS ID	Position: 12 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
44627	13698	43.300	-38.539	-	-	X	X	X	-	-	X	-	-	-	-	-
65595	4229	61.700	-20.398	-	X	X	X	X	-	-	-	-	-	-	-	-

NORWAY

WMO Buoy ID	ARGOS ID	Position: 12 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
64549	3678	53.735	-46.030	-	X	X	X	X	-	-	-	-	-	-	-	-

FRANCE

WMO Buoy ID	ARGOS ID	Position: 12 February 2002		Observed or Technical Parameters												
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11	12	13
62501	7139	33.300	-26.112	-	-	X	X	X	-	-	-	-	-	-	-	-
62503	17926	33.100	-18.355	-	-	X	X	X	-	-	-	-	-	-	-	-
62504	17928	37.400	-18.920	-	-	X	X	X	-	-	X	-	-	-	-	-
62510	26748	39.700	-18.109	-	-	-	-	X	-	-	X	-	-	-	-	-
62511	26751	38.500	-20.668	-	-	-	-	X	-	-	X	-	-	-	-	-
62512	28692	44.000	-16.617	-	-	X	X	X	-	-	X	-	-	-	-	-
62516	28696	48.400	-13.712	-	-	X	X	X	-	-	X	-	-	-	-	-
62518	28697	40.100	-13.262	-	-	X	X	X	-	-	X	-	-	-	-	-
62520	32783	59.500	-16.099	X	-	X	X	X	-	-	-	-	-	-	-	-

ARGOS SERVICE

ARGOS monthly status report

Date of Statistics computation: 11 January 2002

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

DRIFTING BUOY	1198
MARINE STATION	-
MOORED BUOY	317
TERRESTRIAL ANIMALS	130
MARINE ANIMALS	271
BIRDS	238
BALLOONS	13
RAFOS FLOATS	77
FIXED STATIONS	666
BOAT(<20KNOTS)	-
SHIPS (>20KN)	-
TEREST VEHICLE	-
TOTAL	2910

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	151
FIXED STATION	22
RAFOS FLOATS	-
MOORED BUOYS	21

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	510
FIXED STATIONS	26
GPS MOBILE	-
MOORED BUOY	68

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

BATHY	327
BUOY	499673
SHIP	6594
SIMPLE	-
STD	6174
SYNOP	36644
TESAC	113
TOTAL	549525

Date of Statistics computation: 1 February 2002

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

DRIFTING BUOY	1152
MARINE STATION	-
MOORED BUOY	283
TERRESTRIAL ANIMALS	118
MARINE ANIMALS	263
BIRDS	256
BALLOONS	14
RAFOS FLOATS	68
FIXED STATION	591
BOAT(<20KNOTS)	-
SHIPS (>20KN)	-
TEREST VEHICLE	-
TOTAL	2745

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	146
FIXED STATION	21
RAFOS FLOATS	-
MOORED BUOYS	19

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	516
FIXED STATIONS	26
GPS MOBILE	-
MOORED BUOY	68

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

BATHY	259
BUOY	554632
SHIP	4389
SIMPLE	-
STD	7612
SYNOP	37122
TESAC	118
TOTAL	604132

Date of Statistics computation: 1 March 2002

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

DRIFTING BUOY	1282
MARINE STATION	
MOORED BUOY	318
TERRESTRIAL ANIMALS	129
MARINE ANIMALS	265
BIRDS	302
BALLOONS	18
RAFOS FLOATS	80
FIXED STATION	649
BOAT(<20KNOTS)	-
SHIPS (>20KN)	-
TEREST VEHICLE	-
TOTAL	3043

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	152
FIXED STATION	20
RAFOS FLOATS	-
MOORED BUOYS	19

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	517
FIXED STATIONS	26
GPS MOBILE	-
MOORED BUOY	66

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

BATHY	385
BUOY	464145
SHIP	5201
SIMPLE	5
STD	8305
SYNOP	31724
TESAC	111
TOTAL	509876

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".

GUIDELINES FOR COMPLETING THE FEEDBACK FORMS

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 official 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 observation 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 ₀ P ₀ P ₀ P ₀
1000 hPa)	Geopotential of the given standard isobaric surface reported using group 4a ₃ hhh
850 hPa)	
700 hPa)	
500 hPa)	

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*)

Correction Type	
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)

Radiation	Description

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: _____

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

Date: _____

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

National Coding Procedures with regard to international Code Forms

Notification from Latvia (effective 1 November 2001)

FM 15-XII METAR and FM 16-XII SPECI bulletins and reports:

Regulation: 15.1.1

The group "METAR YYGGggZ" is not included as the first line of the text of the bulletins. The code name "METAR" is included at the beginning of each report. SPECI reports are not used in Latvia.

Regulation: 15.7.5

Except Riga aerodrome the group RDrDr/VrVrVrVrVVrVrVri is not used.

Regulation 15.8.8 with Note

For Riga aerodrome thunderstorm is reported when thunderstorm is fixed by Automatic Weather Station thunderstorm sensor.

Regulation 15.13.3

Except Riga aerodrome the group WS RWYDrDr is not included.
or
WS ALL RWY

Regulation: 15.14

Except Riga aerodrome the group TREND is not included.

FM 51-XII TAF bulletins and reports:

Regulation: 15.1.1

The code name "TAF" is not included as the first line of the text of the bulletins. The code name "TAF" is included at the beginning of each report.

New Originating Centre (Common Table C-1) approved by President of CBS:

62 U.S. Naval Oceanographic Office

From 1 March 2002, new radiosonde entry in Manual on Codes Volume I.2, Common Code Table C-2 (approved by the President of CBS) as follows:

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

III. MARINE METEOROLOGICAL SERVICES

1. PUBLICATION No. 9 - Volume D – "Information for Shipping"

Notification from Hong Kong, China

Amend Chapter IV – Visual Storm Warning Signals:

There are no visual storm warning signals for Hong Kong, China. The public now have access to the latest storm warning information through local radio and television channels, the Hong Kong Observatory's automatic telephone answering systems and website. Storm warnings are also disseminated to shipping via NAVTEX and International SafetyNET under GMDSS. The hoisting of visual signals has become obsolete. Over 40 signal stations have been closed since the 1970s and the last station was decommissioned on 1 January 2002.

IV. GLOBAL TELECOMMUNICATION SYSTEM

1. Additional Data and Products (Related to Resolution 40 (Cg-XII))

WMO Policy and practice for the exchange of meteorological and related data and products, including guidelines on relationships

EUROPE

Country: SWEDEN

Date: 18 December 2001

National Centre Name: Swedish Meteorological and Hydrological Institute

Compiling Centre: Norrköping

Observation	Grid/ Grib	TTAAii	CCCC	Code Form Used	Time Group (GG)	Content	Remarks
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SISN41	ESWI	FM 12-XI	03,09,15,21	02036 02049 02154 02159 02181 02188 02221 02245 02247 02286 02338 02408 02432 02453 02458 02464 02476 02484 02488 02505 02512 02536 02567 02574 02575 02605 02611 02614 02625 02628 02644 02648 02670	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SMSN41	ESWI	FM 12-XI	00,06,12,18	02036 02049 02154 02159 02181 02188 02221 02245 02247 02286 02338 02408 02432 02453 02458 02464 02476 02484 02488 02505 02512 02536 02567 02574 02575 02605 02611 02614 02625 02628 02644 02648 02670	