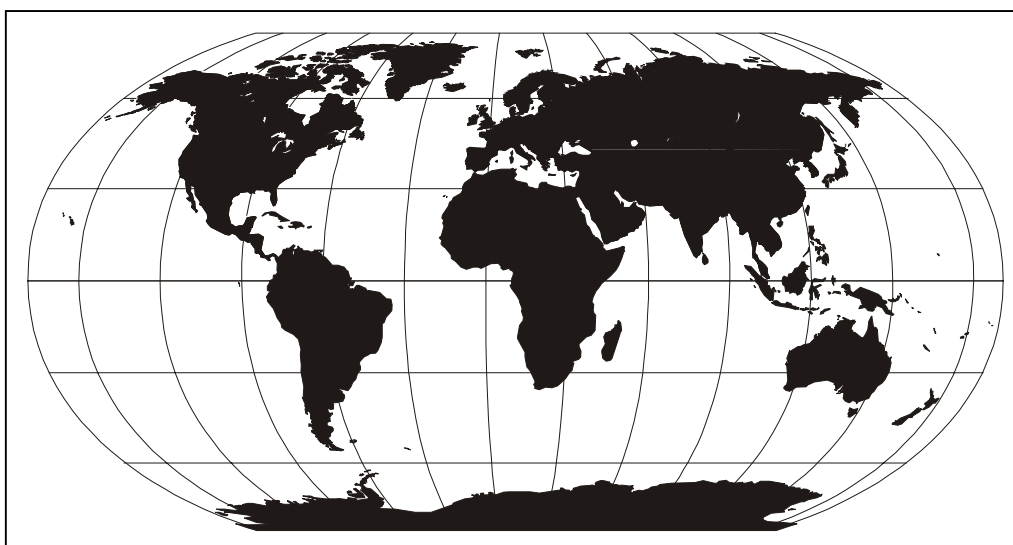




OPERATIONAL NEWSLETTER

World Weather Watch and Marine Meteorological Services



WORLD METEOROLOGICAL ORGANIZATION
GENEVE
SWITZERLAND

No. 3/4 - 1999
(March/April 1999)

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

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1999 MEETINGS

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 (to be published in May 1999).

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
20-21 May 1999	Reading, UK	Regional Association VI (Europe)/RMDCN Operational Committee
20-24 June 1999	Orlando, USA	CBS/OPAG-PWS/Expert Team on Media Issues
23-25 June 1999	Paris, France	Intergovernmental Committee for Global Ocean Observing System (GOOS) - 4 th Session
23-25 June 1999	Madison, Wisconsin, USA	CBS/OPAG -IOS/Expert Team on Observational Data Requirements and Redesign of the Global Observing System
June/July 1999 (date to be decided)	Dakar, Senegal	Expert Meeting on GTS upgrade in Africa
19-23 July 1999	San José, Costa Rica	Regional Training Seminar on the use of GDPS Products with Statistical Adaptations
19-23 July 1999	St. Petersburg, Russian Federation	Commission for Marine Meteorology (CMM) Advisory Working Group - 9 th Session and World Meteorological Organization/Intergovernmental Oceanographic Commission (WMO/IOC) Transition Planning Meeting for Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM)
19-23 July 1999	San José, Costa Rica	Regional Training Seminar on Operational Post-processing Techniques for Application of Numerical Weather Prediction Products (for Regional Association III (South America) and Regional Association IV (North and Central America))
August 1999 (Date to be decided)	Place to be decided	Regional Association V (South-West Pacific) Implementation Coordination Meeting on the GTS
16 -20 August 1999	ECMWF, Reading, UK	CBS/OPAG-DPFS/Expert Meeting on Long Range Verification Systems
September 1999	Beijing, China (tentative)	CBS/OPAG-DPFS/Expert meeting on Environmental Emergency Response
8-15 September 1999	Vancouver, Canada	Workshop on Advances in Marine Climatology (CLIMAR 99) (co-sponsored by WMO)
September 1999 (Date to be decided)	Maputo, Mozambique (tentative)	Regional Association I (Africa) Tropical Cyclone Committee for the South-West Indian Ocean - 14 th Session
27-30 September 1999	Geneva, WMO Secretariat	CBS/OPAG-ISS/Expert Team on Data Communication Systems and Techniques

29 September - 1 October 1999	Norkopping, Sweden	Automated Shipboard Aerological Programme (ASAP) Coordinating Committee, 11 th Session
30 September-5 October 1999	Geneva, WMO Secretariat	CBS/OPAG-ISS/Expert Team on improved MTN
October 1999 (Date to be decided)	Monterey, CA, USA (tentative)	CBS/OPAG-ISS/Expert Meeting on the evolution of Data Formats
6-8 October 1999	Geneva, WMO Secretariat	CBS/OPAG-ISS/Implementation Coordination Meeting on the MTN
18-22 October 1999	St. Raphael, France	International Conference: The Ocean Observing System for Climate
26 October - 3 November 1999	Wellington, New Zealand	Data Buoy Cooperation Panel - 15 th Session and ARGOS Joint tariff Agreement - 19 th Meeting
4-13 October 1999	Nadi, Fiji	The Second Training Workshop on Public Weather and Warning Services
5-11 November 1999 (tentative)	St. Denis, La Réunion (tentative)	Third Tropical Cyclone Regional Specialized Meteorological Centres (RSMCs) Technical Coordination Meeting
8-12 November 1999	Melbourne, Australia	Training Workshop for Port Meteorological Officers in Regions II (Asia) and V (South-West Pacific)
8-12 November 1999	Pretoria, South Africa	CBS/OPAG-DPFS/Implementation Coordination Meeting on Data Processing and Forecasting Systems
8-19 November 1999	St. Denis, La Réunion (tentative)	Regional Association I (Africa) Training course on Tropical Cyclones (co-sponsored by the World Meteorological Organization (WMO))
10-12 November 1999	Geneva, WMO Secretariat	CBS/Steering Group on Radio Frequency Coordination
23-29 November 1999	Seoul, Korea	Economic and Social Commission for Asia and the Pacific/World Meteorological Organization (ESCAP/WMO) Typhoon Committee - 32 nd Session
29 November- 3 December 1999	Hong Kong; China (tentative)	CBS/OPAG-PWS/Expert Team on Product Development and Verification and Evaluation Services
1999 (Date to be decided)	China (Place to be decided)	Regional Workshop on Doppler Tropical Cyclone Radars organized by the Typhoon Committee and Panel on Tropical Cyclones in cooperation with the World Meteorological Organization
1999 (Date to be decided)	Place to be decided	Regional Training Seminar on Operational Post-processing Techniques for Application of Numerical Weather Prediction (NWP) Products (for Regional Association II (Asia) and V (South-West Pacific))
13-16 October 1999	Place to be decided	Working Group on planning and implementation of the WWW in Region II - 3 rd Session and Regional Association II (Asia) Implementation Coordination Meeting on the GTS

Meeting Scheduled in 2000

October 2000 (Date to be decided)	Place to be decided	Commission for Basic Systems - 12 th Session
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END OF SUMMER TIME FOR AUSTRALIA

(27 March 1999)

Australian Summer Time ceased in New South Wales, the Australian Capital Territory, Victoria, South Australia and Tasmania at 1500 UTC 27 March 1999.

Australian Summer time was not implemented in Queensland, Western Australia or the Northern Territory.

Surface observation in New South Wales, the Australian Capital Territory, Victoria, South Australia and Tasmania reverted to normal program on 1500 UTC 27 March 1999.

No changes will be made to the time of surface observations in Queensland, Western Australia or the Northern Territory.

Upper-air observations in all States and Territories will continue their current program i.e. ascents at 2315, 1715, 1115 and 0515 UTC

MOVE TO THE NEW WMO HEADQUARTERS

Most of you are probably already aware that WMO has for the past few years been in the process of having a new building constructed.

Our new Headquarters building was completed as scheduled, and in March of this year we finally made the move from Avenue Giuseppe-Motta to Avenue de la Paix.

Our new address is as follows:

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Case postale No. 2300
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Switzerland

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Telex: International 41 41 99 WMO CH

I. GLOBAL OBSERVING SYSTEM

AUTOMATIC MARINE STATIONS

KEY: Observed or Technical Parameters

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

CANADA

Moored Buoys

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

WMO Buoy Id	ARGOS Id	Position:7 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46004	7180	50°58'N	135°48'W	X	X	X	X	X	X	X	N/A	-	-	-
46036	7195	48°21'N	133°55'W	X	X	X	X	X	X	X	N/A	-	-	-
46131	N/A	49°54'N	124°59'W	X	X	X	X	X	X	X	N/A	-	-	-
46132	7196	49°44'N	127°55'W	X	X	X	X	X	X	X	N/A	-	-	-
46145	7197	54°23'N	132°26'W	X	X	X	X	X	X	X	N/A	-	-	-
46146	N/A	49°20'N	123°44'W	X	X	X	X	X	X	X	N/A	-	-	-
46147	4485	51°49'N	131°12'W	X	X	X	X	X	X	X	N/A	-	-	-
46181	N/A	53°50'N	128°50'W	X	X	X	X	X	X	X	N/A	-	-	-
46183	7186	53°37'N	131°06'W	X	X	X	X	X	X	X	N/A	-	-	-
46184	7182	53°54'N	138°52'W	S	X	X	X	X	X	X	N/A	-	-	-
46185	7194	52°24'N	129°47'W	X	X	X	X	X	X	X	N/A	-	-	-
46204	4484	51°22'N	128°45'W	X	X	X	X	X	X	X	N/A	-	-	-
46205	7183	54°10'N	134°20'W	X	X	X	X	X	X	X	N/A	-	-	-
46206	7187	48°50'N	126°00'W	X	X	X	X	X	X	X	N/A	-	-	-
46207	7193	50°52'N	129°55'W	S	S	S	S	S	S	S	N/A	-	-	-
46208	7184	52°30'N	132°42'W	X	X	X	X	X	X	X	N/A	-	-	-

Moored Buoys

North-west Atlantic Ocean

WMO Buoy Id	ARGOS Id	Position:7 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44137	5579	41°50'N	060°56'W	X	X	X	X	X	X	X	N/A	-	-	-
44138	5577	44°16'N	053°37'W	S	S	S	S	S	S	S	N/A	-	-	-
44139	3448	44°11'N	057°33'W	S	S	S	S	S	S	S	N/A	-	-	-
44140	5576	43°50'N	051°29'W	X	X	X	X	X	X	X	N/A	-	-	-
44141	3449	42°07'N	056°11'W	S	S	S	S	S	S	S	N/A	-	-	-
44142	5578	42°30'N	064°01'W	X	X	X	X	X	X	X	N/A	-	-	-
44251	9234	46°26'N	053°23'W	X	X	X	X	X	X	X	N/A	-	-	-
44255	9233	47°17'N	057°21'W	X	X	X	X	X	X	X	N/A	-	-	-

Moored Buoys

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

WMO Buoy Id	ARGOS Id	Position: 7 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
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	.	.	.	.	.	.	.	N/A	-	-	-
45137	N/A	45°33'N	081°01'W	.	.	.	.	.	.	.	N/A	-	-	-
45138	3436	49°33'N	065°46'W	.	.	.	.	.	.	.	N/A	-	-	-
45139	N/A	43 26'N	079°23'W	S	S	S	S	S	S	S	N/A	-	-	-
45140	8671	50°29'N	096°26'W	.	.	.	.	.	.	.	N/A	-	-	-
45141	N/A	61°07'N	115°11'W	.	.	.	.	.	.	.	N/A	-	-	-
45142	N/A	42°44'N	079°17'W	X	X	X	X	X	X	X	N/A	-	-	-
45143	N/A	44°55'N	080°38'W	.	.	.	.	.	.	.	N/A	-	-	-
45150	3439	61°55'N	113°45'W	.	.	.	.	.	.	.	N/A	-	-	-

Drifting Buoys Pacific Ocean

WMO Buoy Id	ARGOS Id	Position: 1 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	12517	58°24'N	151°36'W	X	X	X	X	X	.	.	X	-	-	-
46661	12521	45°30'N	142°42'W	X	S	X	X	X	.	.	X	-	-	-
46692	12513	42°18'N	132°12'W	S	X	X	X	X	.	.	X	-	-	-
46698	12515	48°06'N	134°48'W	X	S	X	X	X	.	.	X	-	-	-

Remarks:

45132 - Re-deployed Apr 5/99
 45136 - Removed for the winter.
 45137 - Removed for the Winter Nov. 02/98.
 45138 - Removed for the Winter Nov. 25/98.
 45140 - Removed for the Winter Oct. 23/98.
 45141 - Removed for the Winter Oct. 14/98.
 45142 - Re-deployed Apr 4/99
 45143 - Removed for the Winter Nov. 18/98.
 45144 - No deployment in 1998.
 45150 - Removed for the Winter Sept. 23/98.
 46036 - GOES transmitter failed Apr 4/99. Data coming in via Argos backup.
 46184 - Wind #1 u/s Jan. 03. Compass #2 u/s. Wind speed #2 available.
 46206 - Buoy u/s Mar 7 - 14/99.

46207 - Wind sensors failed Feb. 27/99 and were replaced Mar 19/99.
 46661 - Air temp failed Sept. 06/98.
 46692 - Wind failed Nov.20/98.
 46698 - Air temp. failed Oct 05/98

Failed:

44138 - Last transmission Dec.14/98
 44139 - Transmitter failure. Buoy adrift March 1/99.
 44141 - Buoy adrift Mar 10/99
 45139 - Failed Jan 15/99.
 46207 - Failed Apr 6/99.

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 23 April 1999. 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: 15-22 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.68N	72.64W	X	X	X	-	X	X	X	-	-	-	-
41002*		32.28N	75.20W	X	X	X	-	X	X	X	-	-	-	-
41004*		32.51N	79.10W	X	X	X	-	X	X	X	-	-	-	-
41008*		31.40N	80.87W	X	X	X	-	S	X	X	-	-	-	-
41009		28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-
41010		28.89N	78.55W	X	X	X	-	X	X	X	-	-	-	-
42001*		25.93N	89.65W	X	X	X	-	S	X	X	-	-	-	-
42002*		25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-
42003*		25.94N	85.91W	X	X	X	-	X	X	X	-	-	-	-
42007*		30.10N	88.77W	X	X	X	-	X	X	X	-	-	-	-
42019*		27.92N	95.35W	X	X	X	-	X	X	X	-	-	-	-
42020*		26.92N	96.70W	X	X	X	-	X	S	S	-	-	-	-
42035*		29.25N	94.41W	X	X	X	-	X	X	X	-	-	-	-
42036*		28.51N	84.51W	X	X	X	-	X	X	X	-	-	-	-
42039		28.78N	86.04W	X	X	X	-	X	X	X	-	-	-	-
42040		29.18N	88.29W	X	X	X	-	X	X	X	-	-	-	-

44004*		38.46N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44005*		42.90N	68.89W	X	X	X	-	X	X	X	-	-	-	-
44007*		43.53N	70.14W	X	X	X	-	S	X	X	-	-	-	-
44008*		40.50N	69.43W	X	X	X	-	X	X	X	-	-	-	-
44009*		38.46N	74.70W	X	X	X	-	X	X	X	-	-	-	-
44011*		41.08N	66.58W	X	X	X	-	X	X	X	-	-	-	-
44013		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44014		36.58N	74.83W	X	X	X	-	X	X	X	-	-	-	-
44025*		40.25N	73.17W	X	X	X	-	X	X	X	-	-	-	-
45001*		48.06N	87.78W	R	R	R	-	R	R	R	-	-	-	-
45002*		45.31N	86.42W	X	X	X	-	S	X	X	-	-	-	-
45003*		45.35N	82.84W	X	X	X	-	X	X	X	-	-	-	-
45004*		47.56N	86.55W	X	X	X	-	X	X	X	-	-	-	-
45005*		41.67N	82.39W	R	R	R	-	R	R	R	-	-	-	-
45006*		47.32N	89.87W	X	X	X	-	X	X	X	-	-	-	-
45007*		42.67N	87.02W	X	X	X	-	X	X	X	-	-	-	-
45008*		44.28N	82.42W	X	X	X	-	X	X	X	-	-	-	-
46001*		56.30N	148.17W	S	X	X	-	X	X	X	-	-	-	-
46002*		42.53N	130.26W	R	R	R	-	R	R	R	-	-	-	-
46003*		49.59N	154.81W	D	D	D	-	D	D	D	-	-	-	-
46005*		46.08N	131.00W	S	X	X	-	X	X	X	-	-	-	-
46006*		40.84N	137.49W	X	X	X	-	X	X	X	-	-	-	-
46011*		34.88N	120.87W	X	X	X	-	X	X	X	-	-	-	-
46012*		37.39N	122.72W	X	X	X	-	X	X	X	-	-	-	-
46013*		38.23N	123.33W	X	X	X	-	X	X	X	-	-	-	-
46014*		39.22N	123.97W	X	X	X	-	S	X	X	-	-	-	-
46022*		40.74N	124.51W	X	X	X	-	X	X	X	-	-	-	-
46023		34.71N	120.97W	X	X	X	-	X	X	X	-	-	-	-
46025*		33.75N	119.08W	X	X	X	-	X	X	X	-	-	-	-
46026*		37.76N	122.83W	X	X	X	-	X	X	X	-	-	-	-
46027*		41.85N	124.38W	X	X	X	-	X	X	X	-	-	-	-
46028*		35.74N	121.89W	X	X	X	-	X	X	X	-	-	-	-
46029*		46.12N	124.50W	X	X	X	-	X	X	X	-	-	-	-
46030*		40.42N	124.53W	X	X	X	-	X	S	S	-	-	-	-
46035*		56.91N	177.81W	X	X	X	-	X	X	X	-	-	-	-
46041*		47.42N	124.53W	S	S	S	-	S	S	S	-	-	-	-
46042*		36.75N	122.42W	S	S	S	-	S	S	S	-	-	-	-
46045*		33.84N	118.45W	R	R	R	-	R	R	R	-	-	-	-
46050*		44.62N	124.53W	X	X	X	-	S	X	X	-	-	-	-
46053*		34.24N	119.85W	X	X	X	-	X	X	X	-	-	-	-
46054		34.27N	120.45W	X	X	X	-	X	X	X	-	-	-	-
46059*		37.98N	130.00W	X	S	S	-	X	X	X	-	-	-	-
46060*		60.58N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46061*		60.22N	146.83W	X	X	X	-	X	X	X	-	-	-	-
46062		35.10N	121.01W	X	X	X	-	X	X	X	-	-	-	-
46063*		34.25N	120.66W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.40N	162.27W	X	X	X	-	X	X	X	-	-	-	-
51002*		17.19N	157.83W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.17N	160.73W	X	X	X	-	X	X	X	-	-	-	-
51004*		17.44N	152.52W	S	S	X	-	X	X	X	-	-	-	-
51028		.00N	153.88W	X	X	X	-	X	X	X	-	-	-	-

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

Total Base Funded Buoys: 57
 Total Other Buoys 10

 Total Moored Buoys 67

Remarks (d/m/yy):

41008 - Water temp data failed 2/14/99.
 42001 - Water temp data failed 4/6/98, service scheduled week of 5/17/99.
 42020 - Wave data failed 11/10/98.
 44007 - Water temp data failed 8/14/98.
 44008 - Parity errors in data, service scheduled week of 7/12/99.
 45001 - Buoy recovered for winter season 10/21/98, redeployment scheduled week of 5/12/99.
 45002 - Water temp data failed 4/11/99.
 45005 - Buoy recovered for winter season 12/7/98, redeployment scheduled week of 4/26/99.
 45008 - Buoy recovered for winter season 11/16/98, redeployed 4/19/99.
 46001 - Wind data failed 11/13/98.
 46002 - Buoy confirmed adrift 9/24/98, recovered 12/4/98.
 46003 - Buoy confirmed adrift 12/5/98, recovered 4/15/99.
 46005 - Wind data failed 2/12/99.
 46006 - Parity errors in data.

46014 - Water temp data failed 11/22/98.
 46030 - Wave data failed 1/14/99, remaining data failed 4/3/99, restored 4/20/99.
 46035 - Parity errors in data.
 46041 - Station failed 12/1/98, adrift 3/5/99, recovered 3/15/99, service scheduled week of 6/14/99.
 46042 - Station failed 4/4/99.
 46045 - Buoy confirmed adrift 2/10/99, recovered 2/12/99, redeployment scheduled week of 6/14/99.
 46050 - Water temp data failed 3/22/99.
 46059 - Air temp and pressure data failed 12/10/97.
 51004 - Wind and air temp data failed 3/30/99.
 51028 - Parity errors in data.

AUSTRALIA
Drifting Buoys (Drogued/Undrogued)

WMO Buoy Id	ARGOS Id	Position: : 31 March 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
52624	2942	-13.897	138.209	X	X	X	X	X	-	-	-	-	-	-
53551	8097	-13.717	113.316	-	-	X	X	X	-	-	-	-	-	-
55038	2946	-35.184	138.303	X	X	X	X	X	-	-	-	-	-	-
55525	2948	-44.184	153.762	-	X	X	X	X	-	-	-	-	-	-
56529	4873	-31.957	72.046	-	-	X	-	X	-	-	-	-	-	-
56531	4872	-16.907	50.092	-	-	S	-	X	-	-	-	-	-	-
56535	2939	-55.533	-75.056	-	X	X	X	X	-	-	-	-	-	-
56536	4876	-39.644	-169.019	-	-	S	-	X	-	-	-	-	-	-
56537	2930	-22.406	78.843	X	X	X	X	S	-	-	-	-	-	-
56539	8035	-44.1	139.872	-	X	X	X	S	-	-	-	-	-	-
56540	4877	-25.29	103.08	-	-	X	X	X	-	-	-	-	-	-
56541	8037	-61.24	123.182	-	X	X	X	X	-	-	-	-	-	-
56542	8038	-52.827	157.413	-	X	X	X	X	-	-	-	-	-	-
56544	8039	-19.292	94.779	X	X	X	X	X	-	-	-	-	-	-
56545	2693	-39.19	115.543	-	S	X	X	X	-	-	-	-	-	-
56546	2489	-48.035	140.245	-	X	X	X	X	-	-	-	-	-	-
56547	2937	-40.213	90.045	-	X	S	S	X	-	-	-	-	-	-
56548	8098	-43.941	102.97	-	-	X	X	-	-	-	-	-	-	-
56549	8099	-60.194	80.554	-	-	X	X	-	-	-	-	-	-	-

NEW ZEALAND
Drifting Buoys

WMO Buoy Id	ARGOS Id	Position: : 1 March 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
8583	55590	40.1 S	156.1 E	-	X	X	--	X	-	-	X	-	-	-
8584	55587	42.0 S	164.2 E	X	X	X	-	X	-	-	X	-	-	-
8587	55571	38.5 S	162.8 E	-	X	X	-	X	-	-	X	-	-	-
20721	55576	41.3 S	157.9 E	-	X	X	-	X	-	-	X	-	-	-
22187	55573	43.4 S	163.0 E	-	X	X	-	X	-	-	X	-	-	-
22188	55577	42.9 S	154.3 E	-	X	X	-	X	-	-	X	-	-	-
22189	55572	30.3 S	169.7 E	-	X	X	-	X	-	-	X	-	-	-

FRANCE Moored Buoys

WMO Buoy Id	ARGOS Id	Position: : 13 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
15001*	-	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-
15002*	-	0.0	10.0W	X	X	-	-	X	-	-	-	X	-	-
15003*	-	6.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-
41097	05832	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-
41098	05834	14.6N	60.8W	-	-	-	-	X	X	.	-	-	-	-
41100	-	15.9N	57.9W	X	X	X	X	X	X	X	-	-	X	-
41101	-	14.6N	56.2W	X	X	X	X	X	X	X	-	-	X	-
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	S	X	-	-	-	X	-

* Pirata project

** Cooperation UK Met.Office/Meteo-France

Drifting Buoys Indian and Pacific Oceans

WMO Buoy Id	ARGOS Id	Position: : 13 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
14537	29755	13.0S	51.3E	-	-	X	X	X	-	-	X	-	-	-
23584	6574	6.1S	51.5E	-	-	X	X	X	-	-	X	-	-	-
23585	5882	12.3S	44.5E	S	-	B	-	S	-	-	S	-	-	-
23588	29753	6.7S	101.4E	-	-	S	-	X	-	-	X	-	-	-
23589	29754	3.6S	91.7E	-	-	X	X	X	-	-	X	-	-	-
51683	5246	16.1S	157.8W	-	-	X	-	X	-	-	X	-	-	-
51685	5248	13.5S	161.9W	-	-	X	-	X	-	-	X	-	-	-
51686	5249	14.2S	163.9W	-	-	X	-	X	-	-	X	-	-	-

Drifting Buoys Tropical Atlantic Ocean

WMO Buoy Id	ARGOS Id	Position: : 13 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41598	8259	27.0N	45.9W	S	-	X	-	X	-	-	X	-	-	-
41599	8260	29.3N	36.7W	S	-	X	-	X	-	-	X	-	-	-
41636	8717	22.3N	59.5W	X	-	X	-	X	-	-	X	-	-	-
41637	8718	26.3N	48.1W	X	-	X	-	X	-	-	X	-	-	-
41638	8719	25.4N	60.6W	X	-	X	-	X	-	-	X	-	-	-

Drifting Buoys North Atlantic Ocean

WMO Buoy Id	ARGOS Id	Position: : 13 April 1999		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44546	14538	44.8N	39.3W	-	-	X	X	X	-	-	X	-	-	-
44607	6216	52.9N	46.1W	X	-	X	X	X	-	-	X	-	-	-
44608	14540	49.0N	41.9W	-	-	X	X	X	-	-	X	-	-	-
44610	12734	53.0N	40.0W	-	-	X	X	X	-	-	X	-	-	-
62512	12730	44.3N	18.1W	-	-	X	X	X	-	-	X	-	-	-
62515	6569	60.4N	8.8W	-	-	X	X	X	-	-	X	-	-	-
62518	6149	37.8N	13.5W	-	-	S	S	X	-	-	X	-	-	-
62519	6570	33.8N	20.0W	-	-	X	X	S	-	-	X	-	-	-
62520	14431	43.2N	19.3W	-	-	X	X	X	-	-	-	-	-	-

62554	14430	43.1N	14.4W	-	-	X	X	X	-	-	-	-	-	-
62758	15516	35.8N	12.6W	S	-	X	-	X	-	-	-	X	-	-
64516	14176	63.3N	30.1W	-	-	X	X	X	-	-	X	-	-	-
64517	14178	64.2N	33.5W	-	-	X	X	X	-	-	X	-	-	-
64518	14180	64.2N	32.4W	-	-	X	X	X	-	-	X	-	-	-
64519	14183	59.8N	31.1W	-	-	X	X	X	-	-	X	-	-	-

ARGOS SERVICE

ARGOS monthly status report

Date of Statistics computation: 1 March 1999

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

DRIFTING BUOY	997
MARINE STATION	123
MOORED BUOY	274
TERRESTRIAL ANIMALS	100
MARINE ANIMALS	144
BIRDS	167
BALLOONS	16
RAFOS FLOATS	121
FIXED STATION	572
TOTAL	2514

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	137
FIXED STATION	20
MOORED BUOYS	10

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	520
FIXED STATIONS	31
GPS MOBILE	-
MOORED BUOY	71

CODING STATISTICS OF PLATFORMS

Reporting through ARGOS and distributed over the GTS

BATHY	428
BUOY	223516
SHIP	1302
SIMPLE	17207
SYNOP	29849
TOTAL	272302

Date of Statistics computation: 1 April 1999

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

DRIFTING BUOY	915
MARINE STATION	109
MOORED BUOY	246
TERRESTRIAL ANIMALS	99
MARINE ANIMALS	115
BIRDS	140
BALLOONS	4
RAFOS FLOATS	119
FIXED STATION	498
TOTAL	2245

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	142
FIXED STATION	21
MOORED BUOYS	11

INSERTED BY RTH/WMC WASHINGTON

DRIFTING BUOY	548
FIXED STATIONS	32
GPS MOBILE	-
MOORED BUOY	71

CODING STATISTICS OF PLATFORMS

Reporting through ARGOS and distributed over the GTS

BATHY	526
BUOY	262702
SHIP	1899
SIMPLE	50364
SYNOP	36413
TOTAL	351904

Publication No. 9
Volume A "Observing Stations"

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H		Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. H	Obs. S	00	06	12	18	
Region I - CAMEROON																					
64892	BAMENDA	06 03N	10 07E	1239	1239		X	X	X	X	X	X	X	X			
64930	BERTOUA	04 36N	13 44E	668	668		X	X	X	X	X	X	X	X			
Region I - CAPE VERDE																					
08594	SAL ISLAND	16 44N	22 57W	57			X	X	X	X	X	X	X	X	S00-24	.	.	RW	.	A;CLIMAT(CT);SUNDUR;normalized since 9 November 1998	
Region I - EGYPT																					
62306	MERSA MATRUH	31 20N	27 13E	29	28		X	X	X	X	X	X	X	X	H00-24	RW	W	RW	W	A;CLIMAT(CT);M/B;RAD;SOILTEMP;WR	
62337	EL ARISH	31 05N	33 50E	38	37		X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW	C;CLIMAT(C);M/B	
62405	LUXOR	25 40N	32 42E	89	93		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
62414	ASSWAN	23 58N	32 47E	194	193		X	X	X	X	X	X	X	X	H00-24	RW	W	RW	W	A;CLIMAT(CT);M/B;OZONE;RAD;SUNDUR;WR	
62467	DAHAB	28 29N	34 30E	19	18	1000 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	CLIMAT(C)
Region I - NAMIBIA																					
68098	WALVIS BAY INT. AIRPORT	22 59S	14 39E	88	88		.	X	X	X	X	X	X	.		.	.	.	.	EVAP;SOILTEMP;SUNDUR
68114	OMARURU	21 25S	15 56E	1217	1217	850 HPA	.	.	X	.	X	.	X	.		.	.	.	.	SOILTEMP;SUNDUR
Region I - TUNISIA																					
60729	ZAGHOUAN MAGRANE	36 26N	10 46E	156			.	.	X	X	X	.	.	.		.	.	.	.	OPENED 1991
60732	EL KEF	36 08N	08 42W	518			.	.	X	X	X	.	.	.		.	.	.	.	OPENED 1989
Region I - ZIMBABWE																					
67976	RUPIKE	20 33S	31 05E	700	700		.	X	X	X	X	X	X	.		.	.	.	.
Region II - BANGLADESH																					
41852	THAKURGAON	26 01N	88 24E				.	.	.	.	.	.	.	.		.	.	.	.
41858	SAIDPUR	25 45N	88 55E	44	39		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR
41859	RANGPUR	25 44N	89 14E	34	33		X	X	X	X	X	X	X	X	H00-24	P	P	P	P	AGRIMET;CLIMAT(C);EVAP;RAREP	
41863	DINAJPUR	25 39N	88 41E	37	36		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AGRIMET;EVAP
41883	BOGRA	24 51N	89 22E	20	18		X	X	X	X	X	X	X	X	H00-24	RW	P	P	P	AGRIMET;CLIMAT(CT);EVAP	
41884	JAMALPUR	24 56N	89 57E	20	18		.	.	.	.	.	.	.	.		.	.	.	.	AGRIMET;EVAP
41886	MYMENSINGH	24 43N	90 26E	19	18		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
41890	SYLHET A.P.	24 58N	91 53E				.	.	.	.	.	.	.	.	S00-24	.	.	.	.	A;METAR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
41891	SYLHET	24 54N	91 53E	35	34		X	X	X	X	X	X	X	X	H00-24	P	P	P	P	CLIMAT(C);METAR
41895	RAJSHAHI	24 22N	88 42E	20	17		X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR
41898	SERAJGONJ	24 27N	89 42E	16	13		.	.	.	.	.	.	.		.	.	.	.
41907	ISHURDI	24 08N	89 03E	14	13		X	X	X	X	X	X	X	H00-24	P	P	P	P	A;METAR	
41909	TANGAIL	24 19N	89 56E				X	X	X	X	X	X	X	H00-24	.	.	.	.
41915	SRIMANGAL	24 18N	91 44E	23	22		X	X	X	X	X	X	X	H00-24	.	.	.	.	AGRIMET;EVAP
41921	JOYDEVPUR	23 59N	90 25E				.	.	.	.	.	.	.	H00-12	.	.	.	.	AGRIMET;EVAP
41922	KURMITOLADIA	23 51N	90 24E	10	9		.	.	.	.	.	.	.	H00-24; S00-24	.	.	.	.	A;METAR
41923	DHAKA	23 46N	90 23E	9	8		X	X	X	X	X	X	X	H00-24	RW	P	P	P	A;CLIMAT(CT);METAR;RAREP	
41926	CHUADANGA	23 39N	88 49E	12			X	X	X	X	X	X	X	H00-24	.	.	.	.
41929	FARIDPUR	23 36N	89 51E	9	8		X	X	X	X	X	X	X	H00-24	.	.	.	.	AGRIMET;EVAP
41933	COMILLA	23 26N	91 11E	10	9		X	X	X	X	X	X	X	H00-24	.	.	.	.	A;AGRIMET;EVAP;METAR
41936	JESSORE	23 11N	89 10E	7	6		X	X	X	X	X	X	X	H00-24	P	P	P	P	A;CLIMAT(C);METAR	
41939	MADARIPUR	23 10N	90 11E	13	7		X	X	X	X	X	X	X	H00-24	.	.	.	.
41941	CHANDPUR	23 16N	90 42E	7	6		X	X	X	X	X	X	X	H00-24	.	.	.	.
41943	FENI	23 02N	91 25E	8	6		X	X	X	X	X	X	X	H00-24	P	P	P	P	CLIMAT(C)	
41946	SATKHIRA	22 43N	89 05E	6	4		X	X	X	X	X	X	X	H00-24	.	.	.	.
41947	KHULNA	22 47N	89 32E	4	3		X	X	X	X	X	X	X	H00-24	.	.	.	.
41950	BARISAL	22 45N	90 22E	4	3		X	X	X	X	X	X	X	H00-24	P	P	P	P	AGRIMET;CLIMAT(C);EVAP	
41951	BHOLA	22 41N	90 39E	5	4		X	X	X	X	X	X	X	H00-24	.	.	.	.
41953	MAIJDICOURT	22 52N	91 06E	6	5		X	X	X	X	X	X	X	H00-24	.	.	.	.
41958	MONGLA	22 36N	89 30E				X	X	X	X	X	X	X	H00-24	.	.	.	.
41960	PATUAKHALI	22 20N	90 20E	3	2		X	X	X	X	X	X	X	H00-24	.	.	.	.
41963	HATIA	22 26N	91 06E	4	2		X	X	X	X	X	X	X	H00-24	.	.	.	.
41964	SANDWIP	22 29N	91 26E	6	2		X	X	X	X	X	X	X	H00-24	.	.	.	.
41965	SITAKUNDU	23 35N	91 42E	10	6		X	X	X	X	X	X	X	H00-24	.	.	.	.
41966	RANGAMATI	22 32N	92 12E	63	63		X	X	X	X	X	X	X	H00-24	.	.	.	.	AGRIMET;EVAP
41967	KAPTAI	22 29N	92 14E	31	26		.	.	.	.	.	.	.		.	.	.	.
41977	CHITTAGONG (AMBAGAN)	22 21N	91 49E	34	33		.	.	.	.	.	.	.	H00-24	RW	P	P	P	CLIMAT(T);SEISMO
41978	CHITTAGONG (PATENGA)	22 16N	91 49E	6	4		X	X	X	X	X	X	X	H00-24; S00-12	.	.	.	.	A;CLIMAT(C);METAR
41984	KHEPUPARA	21 59N	90 14E	9	2		X	X	X	X	X	X	X	H00-24	.	.	.	.	RAREP
41989	KUTUBDIA	21 49N	91 51E	7	2		X	X	X	X	X	X	X	H00-24	.	.	.	.
41992	COX'S BAZAR	21 26N	91 56E	4	2		X	X	X	X	X	X	X	H00-24	P	P	P	P	A;CLIMAT(C);EVAP;METAR;RAREP	

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
41998	TEKNAF	20 52N	92 18E	6	5		X	X	X	X	X	X	X	X	H00-24	.	.	.	.
Region II - HONG KONG, CHINA																				
45004	KING'S PARK	22 19N	114 10E	66	65		X	X	X	X	X	X	X	X	H00-24	RW	W	RW	W*	CLIMAT(CT);EVAP;RADSAMP;SOILTEMP;SUNDUR;TOT RA;WP (WIND PROFILER UPPER AIR OBS. AT 1800)*
45034	TAI PO	22 27N	114 11E		15		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	AUT;TIDE
Region II - JAPAN																				
47404	HABORO	44 22N	141 42E	13	8		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
47411	OTARU	43 11N	141 01E	26	25		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
47412	SAPPORO	43 03N	141 20E	26	17		X	X	X	X	X*	X	X	X	H00-24	RW	W	RW	W	AUT*;CLIMAT(CT);EVAP;OZONE;PH;RADSAMP;SEISMO;SOLRA;TI/WA/FC;WT
47440	HIROO	42 18N	143 19E	33	32		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
47472	RISHIRI AIRPORT																			
47476	ASAHIKAWA AIRPORT	43 40N	142 27E	214	211		.	.	.	.	.	.	.	.	H22-10	.	.	.	.	A;METAR
47483	NAKASHIBETSU AIRPORT	43 34N	144 58E	68	65		.	.	.	.	.	.	.	.	H00-10	.	.	.	.	A;METAR
47494	OKUSHIRI AIRPORT																			
47569	SENDAI AIRPORT	38 08N	140 55E	5	2		.	.	.	.	.	.	.	.	H20-10	.	.	.	.	A;METAR
47583	ODATE-NOSHIRO AIRPORT	40 11N	140 12E	87	84		.	.	.	.	.	.	.	.	H23-10	.	.	.	.	A;METAR
47677	MIYAKEJIMA	34 07N	139 31E	37	36		X	X*	X	X*	X	X*	X	X*	H00-24	.	.	.	.	AUT*;PH;SEISMO;VOLCANO
47683	CHOFU AIRPORT	35 40N	139 32E	44	41		.	.	.	.	.	.	.	.	H00-07; S2330	.	.	.	.	A;METAR
47687	TOKYO HELIPORT	35 38N	139 51E	8	5		.	.	.	.	.	.	.	.	H00-07; S2330	.	.	.	.	A;METAR
47690	NIKKO	36 44N	139 30E	1298	1292	850 HPA	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
47709	MATSUMOTO AIRPORT	36 10N	137 56E	661	658		.	.	.	.	.	.	.	.	H00-07	.	.	.	.	A;METAR
47790	IZUMO AIRPORT	35 25N	132 54E	5	2		.	.	.	.	.	.	.	.	H22-11; S2130	.	.	.	.	A;METAR
47815	OITA	33 14N	131 37E	13	5		X	X	X	X	X*	X	X	X	H00-24	.	.	.	.	AUT*;CLIMAT(C);PH;SEISMO;SOLRA;VOLCANO
47836	YAKUSHIMA	30 23N	130 40E	38	36		X	X*	X	X*	X*	X*	X*	X*	H00-24	.	.	.	.	A;AUT*;METAR(00-09);PH;SEISMO
47855	NAGASAKI AIRPORT	32 55N	129 55E	5	2		.	.	.	.	.	.	.	.	H20-12	.	.	.	.	A;METAR
47926	MIYAKO AIRPORT	24 47N	125 18E	46	43		.	.	.	.	.	.	.	.	H21-11	.	.	.	.	A;METAR
47929	KUMEJIMA	26 20N	126 48E	5	4		X	X*	X	X*	X*	X*	X*	X*	H00-24	.	.	.	.	A;AUT*;METAR;PH;SEA/SWELL;SEISMO
Region II - MALDIVES																				
43533	HANIMAADHOO	06 44N	73 10E	2			X	.	X	.	X	.	.	.	H00-12	.	.	.	.	METAR
43555	MALE	04 12N	73 32E	2			X	X	X	X	X	X	X	X	H00-24	.	RW	.	.	CLIMAT(C);METAR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
43577	KADHDHOO	01 53N	73 30E	2			X	X	X	X	X	.	.	.	H00-12	.	.	.	.	METAR
43588	KAADEDHDOO	00 29N	72 59E	2			X	X	X	X	X	.	.	.	H00-12	.	.	.	.	CLIMAT(C):METAR
43599	GAN	00 41S	73 09E	2			X	X	X	X	X	X	X	X	H00-12	.	RW	.	.	CLIMAT(C):METAR
Region II - PAKISTAN																				
41516	GILGIT	35 55N	74 20E	1459	1453	850 HPA	X	X	X	X	X	X	X	X		P	P	P	P	
41517	SKARDU	35 18N	75 41E	2181	2180	850 HPA	X	X	X	X	X	X	X	X		P	P	P	P	
41518	BUNJI	35 40N	74 38E	1470	1469	850 HPA	X	X	X	X	X	X	X	X		.	.	.	.
41519	CHILLAS	35 25N	74 06E	1251	1249	850 HPA	X	X	X	X	X	X	X	X		.	.	.	.
41532	MUZAFFAR ABAD	34 22N	73 29E	2303	2301	850 HPA	X	X	X	X	X	X	X	X		P	P	P	P	
41630	FAISAL ABAD	31 26N	73 06E	184	183	1000 HPA	X	X	X	X	X	X	X	X		.	.	.	.
41696	KALAT	29 02N	66 35E	2017	2015	850 HPA	X	X	X	X	X	X	X	X		P	P	P	P	
41764	HYDER ABAD	25 23N	68 35E	30	28	1000 HPA	X	X	X	X	X	X	X	X	H03-09	P	P	P	P	
Region II - SRI LANKA																				
43400	KANKASANTURAT	09 48N	80 04E		15		X	X	X	X	X	X	X	X		.	.	.	.	Not functioning due to unavoidable circumstances in the North
Region II - THAILAND																				
48307	THUNG CHANG	19 25N	100 53E	335	333		.	.	.	.	.	.	.	.		.	.	.	.
48372	SUKHOTHAI	17 06N	99 48E	50	48		X	X	X	X	X	X	X	X		.	.	.	.	EVAP
48374	LOMSAK	16 26N	101 09E	144	143		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48382	KOSUMPHISAI	16 14N	103 04E	154	153		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48385	UMPHANG	16 01N	98 52E	457	454		X	X	X	X	X	X	X	X		.	.	.	.
48390	KAMALASAI	16 20N	103 35E	139	141		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48434	CHOK CHAI	14 43N	102 10E	193	190		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48436	NANG RONG	14 37N	102 43E	181	179		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48437	BURI-RAM	15 14N	103 15E	184	182		X	X	X	X	X	X	X	X		.	.	.	.	A:EVAP;M/B:METAR
48439	KABINBURI	13 59N	101 42E	12	10		X	X	X	X	X	X	X	X		.	.	.	.	EVAP:HYDROMET;RIVCUR;RIVSTG
48440	SRAKAEW	13 47N	102 02E	43	41		.	.	.	.	.	.	.	.		.	.	.	.
48556	PRASANG	08 34N	99 15E	14	12		.	.	.	.	.	.	.	.		.	.	.	.
48557	CHAWANG	08 26N	99 30E	30	28		.	.	.	.	.	.	.	.		.	.	.	.
48574	SA-DAO	06 48N	100 24E	26	24		.	.	.	.	.	.	.	.		.	.	.	.
Region II - VIET NAM																				
48803	LAO CAI	22 30N	103 58E	97	104		X	X	X	X	X	X	X	X		.	.	.	.

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
48806	SON LA	21 20N	103 54E	<u>676</u>	<u>675</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48808	CAO BANG	22 40N	106 15E	<u>243</u>	<u>244</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48820	HA NOI	21 01N	105 48E	<u>7</u>	<u>6</u>		X	X	X	X	X	X	X	X		RW	.	RW	.	CLIMAT(CT)
48823	NAM DINH	20 26N	106 09E	<u>3</u>	<u>2</u>		X	X	X	X	X	X	X	X		.	.	.	.
48826	PHU LIEN	20 48N	106 38E	<u>116</u>	<u>112</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48830	LANG SON	21 50N	106 46E	<u>263</u>	<u>258</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48839	BACH LONG VI	20 08N	107 43E	<u>56</u>	<u>56</u>		X	X	X	X	X	X	X	X		.	.	.	.
48840	THANH HOA	<u>19 45N</u>	105 47E	<u>5</u>	<u>5</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48845	VINH	<u>18 40N</u>	105 41E	<u>6</u>	<u>5</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48848	DONG HOI	<u>17 29N</u>	<u>106 36E</u>	<u>7</u>	<u>6</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48852	HUE	<u>16 26N</u>	<u>107 35E</u>	<u>9</u>	<u>10</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48855	DA NANG	16 02N	<u>108 12E</u>	<u>7</u>	<u>5</u>		X	X	X	X	X	X	X	X		RW	.	.	.	CLIMAT(CT)
48860	HOANG SA (PATTLE)	16 33N	111 37E	<u>6</u>			X	X	X	X	X	X	X	X		.	.	.	.
48870	QUY NHON	13 46N	109 13E	<u>6</u>	<u>4</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48877	NHA TRANG	<u>12 13N</u>	109 13E	<u>4</u>	<u>3</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48887	PHAN THIET	10 56N	108 06E	<u>5</u>	<u>9</u>		X	X	X	X	X	X	X	X		P	.	.	.	CLIMAT(C)
48892	SONG TU TAY (SOUTH WEST CAY)	11 25N	114 20E	<u>5</u>			X	.	X	.	X	.	X	.		.	.	.	.
48900	HO CHI MINH	10 49N	106 40E	<u>10</u>			X	X	X	X	X	X	X	X		RW	.	.	.	
48914	CA MAU	09 11N	<u>105 09E</u>	<u>2</u>	<u>1</u>		X	X	X	X	X	X	X	X		P	.	.	.	CLIMAT(C)
48916	THO CHU	09 17N	103 28E		<u>24</u>		X	.	X	.	X	.	X	.		.	.	.	.
48917	PHU QUOC	10 13N	103 58E	<u>4</u>	<u>4</u>		X	X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
48918	CON SON	<u>08 41N</u>	<u>106 36E</u>	<u>9</u>	<u>6</u>		X	X	X	X	X	X	X	X		.	.	.	.
48919	HUYEN TRAN	08 01N	110 37E	<u>19</u>	<u>22</u>		X	.	X	.	X	.	X	.		.	.	.	.
48920	TRUONG SA	08 39N	111 55E	<u>3</u>	<u>3</u>		X	X	X	X	X	X	X	X		.	.	.	.
Region III - COLOMBIA																				
80035	RIOHACHA/ALMIRANTE PADILLA	11 32N	72 56W		4		X	.	.	.	X	X	X	X	H11-23	.	.	RW	.	A;CLIMAT(T);METAR;SPECI
80222	BOGOTA/ELDORADO	<u>04 42N</u>	74 09W	<u>2546</u>	2547	STATION	X	X	X	X	X	X	X	X	H00-24	RW	.	RW	.	A;CLIMAT(CT);EVAP;METAR;SPECI;SUNDUR;WTR
80398	LETICIA/VASQUEZ COBO	<u>04 33S</u>	<u>69 32W</u>	84	84		X	.	.	.	X	X	X	X	H10-24	.	.	RW	.	A;CLIMAT(CT);EVAP;METAR;SPECI;SUNDUR
Region III - PERU																				
84688	ANDAHUAYLAS	<u>13 43S</u>	<u>73 21W</u>	<u>3</u>	<u>3</u>		.	.	.	.	X	X	X	X		.	.	.	.
84720	NAZCA	<u>14 52S</u>	<u>74 57W</u>	<u>567</u>	<u>567</u>		X	.	.	.	X	X	X	X		.	.	.	.
84773	ILO	<u>17 41S</u>	<u>71 20W</u>	<u>9</u>	<u>9</u>		X	.	.	.	X	X	X	X		.	.	.	.

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	

Region IV - CANADA

71073	CLUFF LAKE AUTO, SASK	58 23N	109 30W		339		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71159	JEAN-MARIE, NT	62 21N	120 47W		227		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71395	HALIFAX INT'L A, NS	44 53N	63 31W	145	145		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71492	TUKTUT NOGAIT, NWT	69 11N	122 21W		552		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71391	HIGH FALLS, QC	45 50N	75 39W		190		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71605	KENTVILLE, NS	45 04N	64 29W		49		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71804	SAGLEK, NFLD.	58 20N	62 35W	501	501		X	.	X	.	X	.	X	.	H00-23	.	.	.	.	AUT
71818	CARTWRIGHT, NFLD.	53 42N	57 02W	14	14		X	.	X	.	X	.	X	.	H09-01	.	.	.	.	ICE;SUNDUR

Region IV - UNITED STATES OF AMERICA

72222	PENSACOLA, FL	30 29N	87 11W	38	36		.	X	.	X	.	X	.	X	H00-24	AUT
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Region V - AUSTRALIA (ADDITIONAL ISLANDS)

94995	LORD HOWE ISLAND AERO	31 32S	159 04E	7	5		23	02	05	08	11	14	17	20	S00-24	RW	W	RW(1)	W	A;C;CLIMAT(CT);(1) R NOT ON 1,2,3,5,6
94996	NORFOLK ISLAND AERO	29 02S	167 56E	110	113		X	X	X	X	X	X	X	X	S00-24	RW	W	W	W	A;AUT;CLIMAT(CT);METAR
94997	HEARD ISLAND (THE SPIT)	53 06S	73 43E	13	12		X	X	X	X	X	X	X	X		.	.	.	.	AUT;IRREG.;VIA ARGOS
94998	MACQUARIE ISLAND	54 30S	158 57E	8	6		X	X	X	X	X	X	X	X	H00-24	RW	.	RW	.	C;CLIMAT(CT);NLC;OZONE;RAD;SOILTEMP;SUNDUR;WR
95997	HEARD ISLAND ATLAS COVE	53 01S	73 23E	3	3		X	X	X	X	X	X	X	X		.	.	.	.

Region V - AUSTRALIA

94101	KALUMBURU MISSION	14 18S	126 39E	24	23		01	.	07	.	.	.	.	X		.	.	.	.	A
94102	TROUGHTON ISLAND	13 45S	126 09E	8	6		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	C;METAR
94116	DUM IN MIRRIE AWS	12 38S	130 22E	4	4		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	AUT;C
94117	MANGO FARM	13 44S	130 41E	16	15		23	02	05	08	.	.	17	20		.	.	.	.	EVAP
94122	CAPE FOURCROY	11 47S	130 01E	6	5		X	X	X	X	X	X	X	X		.	.	.	.	AUT;C
94125	BATCHELOR AERO	13 03S	131 01E	105	104		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94127	POINT STUART	12 14S	131 53E	1	1		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94129	CAPE DON AWS	11 19S	131 46E	20	19		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94135	MCCLUER ISLAND	11 03S	132 59E	2	1		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94137	JABIRU AIRPORT	12 40S	132 54E	28	26		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94139	WARRUWI	11 39S	133 23E	4	19		23	.	05	.	11	.	.	20		.	.	.	.
94140	MILINGIMBI	12 07S	134 54E	5	16		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT
94142	MANINGRIDA	12 03S	134 13E	16	11		23	.	05	08	11	.	.	20		.	.	.	.	C;EVAP
94146	ELCHO ISLAND	12 02S	135 34E	30	18		23	.	05	.	11	.	17	.		.	.	.	.	C;SEA

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94149	ALYANGULA	13 51S	136 25E	22	20		23	02	05	08	.	.	17	20		.	.	.	.	C
94150	GOVE AIRPORT	12 17S	136 49E	53	54		23	02	05	08	11	14	17	20	S00-24	RW	W	W	W	A;AUT;CLIMAT(CT);EVAP;METAR;SOILTEMP;SUNDUR
94151	NORTH EAST ISLAND	13 39S	136 56E	18	17		X	X	X	X	X	X	X	X		.	.	.	.	AUT
94152	BORROLOOLA	16 05S	136 18E	17	16		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
94170	WEIPA AERO	12 41S	141 55E	22	20		23	02	05	08	11	14	17	20	S00-24	P	P	P	P	A;C;M/B;METAR;RSD;WR
94174	HORN ISLAND	10 35S	142 17E	5	4		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;C;METAR
94182	COCONUT ISLAND	10 03S	143 04E	4	4		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94184	COEN AIRPORT	13 46S	143 07E	162	162		23	02	05	08	11	.	.	20		.	.	.	.	A;EVAP
94201	CYGNET BAY	16 27S	123 00E	9	7		01	04	07	10	.	16	19	22		.	.	.	.	C
94202	BIDYADANGA	18 41S	121 47E	12	11		01	.	07	.	.	.	.	22		.	.	.	.
94203	BROOME AIRPORT	17 57S	122 14E	9	17		01	04	07	10	13	16	19	22	S00-24	RW	W	RW	W	A;AUT;CLIMAT(CT);EVAP;METAR;SOILTEMP;SUNDUR
94204	CURTIN AERO	17 35S	123 49E	78	91		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	AUT;O/R
94209	FITZROY CROSSING CADJEBUT	18 43S	125 58E	202	200		01	.	07	.	.	.	.			.	.	.	.
94210	ADELE ISLAND	15 31S	123 09E	5	5		X	X	X	X	X	X	X	X		.	.	.	.	AUT
94212	HALLS CREEK AMO	18 14S	127 40E	424	410		01	04	07	10	13	16	19	22	S00-24	W	W	W	.	A;AUT;CLIMAT(C);EVAP;METAR;SOILTEMP
94213	WARMUN	17 01S	128 13E	205	203		01	.	07	10	.	16	.	22		.	.	.	.
94214	WYNDHAM P.O.	15 29S	128 07E	16	15		01	04	07	10	.	16	.	22		.	.	.	.
94215	DOONGAN	15 23S	126 19E	386	400		01	.	07	.	.	.	.	22		.	.	.	.	A
94217	ARGYLE AERODROME	16 38S	128 27E	165	159		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	A;AUT;C;METAR
94232	VICTORIA RIVER DOWNS	16 24S	131 01E	90	89		23	02	05	.	11	.	17	.		.	.	.	.
94237	LARRIMAH	15 35S	133 13E	186	180		23	02	05	.	11	.	.	20		.	.	.	.
94238	TENNANT CREEK AIRPORT	19 38S	134 11E	377	377		23	02	05	08	11	14	17	20	S00-24	W	W	W	W	A;AUT;CLIMAT(C);EVAP;METAR;SOILTEMP;SUNDUR
94248	CENTRE ISLAND	15 45S	136 48E	13	12		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94255	CAMOOWEAL TOWNSHIP	19 55S	138 07E	231	231		23	02	05	08	11	14	17	20		.	.	.	.	EVAP;(1) Cyclone season only
94256	MORNINGTON ISLAND	16 40S	139 10E	9	10		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	AUT;C
94259	BURKETOWN POST OFFICE	17 45S	139 33E	7	5		23	02	05	08	11	.	17	20		.	.	.	.	C;EVAP
94285	LOW ISLES LIGHTHOUSE	16 23S	145 34E	4	3		23	02	05	08	11	14	17	20		.	.	.	.	C;LH;SEA
94287	CAIRNS AERO	16 53S	145 45E	8	3		23	02	05	08	11	14	17	20	S00-24	W	W	W	W	A;AUT;CLIMAT(C);EVAP;METAR;SUNDUR
94288	ATHERTON TREATMENT PLANT	17 15S	145 29E		752		23	.	05	.	.	.	.			.	.	.	.
94290	FLINDERS REEF	17 43S	148 27E	7	3		X	X	X	X	X	X	X	X		.	.	.	.	AUT;C
94291	INNISFAIL	17 31S	146 02E		4		23	.	05	.	.	.	.	20		.	.	.	.	C
94294	TOWNSVILLE AERO	19 15S	146 46E	9	5		23	02	05	08	11	14	17	20	S00-24	RW	W	W	W	A;CLIMAT(CT);EVAP;M/B;METAR;RAREP;RSD;SOILTEMP;WR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94299	WILLIS ISLAND	16 18S	149 59E	<u>9</u>	6		23	02	05	08	11	14	17	20		RW	W	W	W	C;CLIMAT(CT);SEA;WR
94300	CARNARVON AIRPORT	24 53S	113 40E	<u>8</u>	4		01	04	07	10	13	16	19	22	<u>S00-24</u>	W	W	W	W	A;AUT;EVAP;SOILTEMP
94302	LEARMONTH AIRPORT	22 14S	114 05E	5	6		01	04	07	10	13	16	19	22	<u>S00-24</u>	RW	W	W	W	A;AUT;EVAP
94307	<u>KARRATHA AERO</u>	<u>20 43S</u>	<u>116 46E</u>	<u>6</u>	<u>9</u>		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	AUT
94310	<u>BEDOUT ISLAND</u>	19 35S	119 06E	10	9		<u>01</u>	<u>04</u>	<u>07</u>	<u>10</u>	<u>13</u>	<u>16</u>	<u>19</u>	<u>22</u>		.	.	.	.	AUT;C
94314	PANNAWONICA	21 38S	<u>116 20E</u>		200		<u>01</u>	.	<u>07</u>	.	.	.	.	.		.	.	.	.
94315	MARBLE BAR	21 11S	119 45E	<u>185</u>	<u>182</u>		01	04	07	10	.	16	19	22		.	.	.	.
94316	PARABURDOO AERO	23 10S	117 45E	424	<u>429</u>		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT
94317	NEWMAN AERO	23 25S	119 48E	525	526		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT
94319	<u>TELFER AERO</u>	21 43S	122 13E	294	296		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT
94327	JERVOIS	22 57S	<u>136 25E</u>	323	325		23	02	05	<u>08</u>	11	<u>14</u>	<u>17</u>	20		.	.	.	.
94328	<u>TERRITORY GRAPE FARM</u>	22 27S	133 38E	<u>571</u>	<u>570</u>		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94332	MOUNT ISA AMO	20 41S	139 29E	<u>341</u>	342		23	02	05	08	11	14	17	20	<u>S00-24</u>	RW	W	RW	W	A;AUT;CLIMAT(CT);EVAP;METAR;SOILTEMP;SUNDUR
94340	<u>RICHMOND POST OFFICE</u>	<u>20 44S</u>	<u>143 09E</u>	<u>215</u>	211		23	.	05	.	.	.	.	.		.	.	.	.	EVAP
94343	<u>HUGHENDEN POST OFFICE</u>	20 51S	144 12E	326	324		23	.	05	.	.	.	.	.		.	.	.	.	EVAP
94345	<u>ISISFORD POST OFFICE</u>	24 16S	144 26E		205		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94358	<u>MORANBAH WATER TREATMENT PLANT</u>	22 00S	148 02E	<u>245</u>	<u>240</u>		23	.	05	.	.	.	.	20		.	.	.	.	EVAP
94362	BLACKWATER	<u>23 36S</u>	148 52E		200		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94363	EMERALD AIRPORT	23 34S	<u>148 11E</u>	190	190		23	02	05	08	11	<u>14</u>	17	20		.	.	.	.	A
94365	PROSERPINE AIRPORT	20 30S	148 32E	20	21		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94367	<u>MACKAY MO</u>	21 07S	149 13E	<u>33</u>	30		23	02	05	.	11	14	17	20	<u>S00-24</u>	W	W	W	W	AUT;CLIMAT(C);METAR;SUNDUR
94369	ST LAWRENCE POST OFFICE	22 21S	149 32E	18	17		23	02	05	.	11	.	17	20		.	.	.	.	EVAP
94374	<u>ROCKHAMPTON AERO</u>	23 23S	<u>150 29E</u>	14	10		23	02	05	08	11	14	17	20	<u>S00-24</u>	RW	W	W	W	A;CLIMAT(C);EVAP;MB;METAR;RAD
94378	<u>RUNDLE ISLAND</u>	23 32S	151 17E	20	20		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.
94380	<u>GLADSTONE RADAR</u>	23 51S	151 16E	<u>75</u>	75		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	AUT
94381	<u>GLADSTONE AIRPORT</u>	23 52S	151 13E	17	20		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94386	<u>HERON ISLAND</u>	<u>23 27S</u>	151 55E	<u>5</u>	<u>5</u>		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C;O/R
94387	BUNDABERG AERO	24 54S	152 19E	<u>27</u>	33		23	02	05	08	11	<u>14</u>	17	20	<u>H00-24</u>	.	.	.	.	A
94393	FREDERICK REEF	20 56S	154 24E	<u>13</u>	<u>5</u>		X	X	X	X	X	X	X	X		.	.	.	.	AUT;C
94403	<u>GERALDTON AIRPORT</u>	28 48S	114 42E	<u>35</u>	37		01	04	07	10	13	16	19	22	<u>S00-24</u>	RW	W	RW	W	A;AUT;CLIMAT(CT);EVAP;METAR;RAD;SOILTEMP
94404	PAYNES FIND	29 16S	117 40E	340	339		01	.	07	10	.	16	19	22		.	.	.	.	EVAP
94405	<u>ABROLHOS ISLAND (NORTH ISLAND)</u>	28 18S	<u>113 36E</u>	11	10		<u>01</u>	<u>04</u>	<u>07</u>	<u>10</u>	<u>13</u>	<u>16</u>	<u>19</u>	<u>22</u>		.	.	.	.	AUT;C
94410	<u>GASCOYNE JUNCTION</u>	25 03S	115 13E	145	144		01	.	07	.	.	<u>16</u>	.	<u>22</u>		.	.	.	.

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94411	MULLEWA	28 32S	115 31E		<u>268</u>		01	.	07	.	.	.	.	.		.	.	.	.
94429	MT MAGNET AERO	28 07S	117 50E	409	411		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT
94430	<u>MEEKATHARRA AIRPORT</u>	26 37S	118 33E	<u>519</u>	522		01	04	07	10	13	16	19	22	<u>S00-24</u>	W	W	.	W	A;AUT;CLIMAT(CT);EVAP;METAR;SOILTEMP
94461	GILES	25 02S	128 17E	<u>599</u>	580		23	02	05	08	11	14	17	20	<u>S00-24</u>	RW	W	W	W	A;CLIMAT(CT);EVAP;M/B;SOILTEMP;SUNDUR;WR
94462	<u>YULARA AERO</u>	25 12S	130 59E	493	496		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94476	OODNADATTA AIRPORT	27 35S	135 27E	<u>117</u>	118		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.
94480	MARREE	29 39S	<u>138 04E</u>	<u>51</u>	50		23	<u>02</u>	05	<u>08</u>	11	.	17	20		.	.	.	.
94482	BIRDSVILLE POLICE STATION	25 54S	139 21E	<u>47</u>	47		23	02	05	08	11	.	17	20		.	.	.	.	EVAP
94485	TIBOOBURRA POST OFFICE	<u>29 26S</u>	<u>142 00E</u>	<u>184</u>	183		23	.	05	08	11	.	.	20		.	.	.	.
94511	INJUNE POST OFFICE	25 51S	148 34E	<u>391</u>	390		23	<u>02</u>	05	.	<u>11</u>	.	<u>17</u>	20		.	.	.	.
94515	ROMA AIRPORT	<u>26 33S</u>	<u>148 47E</u>	305	315		23	02	05	08	11	<u>14</u>	17	20		.	.	.	.	A
94520	<u>MUNGINDI POST OFFICE</u>	<u>28 59S</u>	148 59E		160		23	.	<u>05</u>	.	.	.	.	.		.	.	.	.	<u>Observations now 7 days per week</u>
94541	<u>INVERELL RESEARCH CENTRE</u>	<u>29 47S</u>	<u>151 05E</u>	<u>(1)</u>	<u>676</u>		23	.	.	.	.	.	.	.		.	.	.	.	(1) Station without a barometer
94543	<u>GAYNDAH POST OFFICE</u>	25 38S	151 37E	108	106		23	02	05	<u>08</u>	11	.	17	20		.	.	.	.
94552	<u>OAKEY AERO</u>	27 25S	151 44E	407	407		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;EVAP
94555	<u>WARWICK</u>	28 12S	152 06E	476	475		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	A;AUT;METAR
94558	TOOLARA (KELLY)	25 58S	152 52E		80		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94565	<u>HERVEY BAY WILDLIFE PARK</u>	<u>25 17S</u>	152 49E		17		23	.	05	.	.	.	.	.		.	.	.	.
94568	AMBERLEY AMO	<u>27 38S</u>	152 43E	31	28		23	<u>02</u>	05	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.	A;AUT;EVAP
94569	<u>MAROOCHYDORE AERO</u>	26 36S	153 06E	17	3		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94573	CASINO AIRPORT AWS	28 53S	153 03E	22	26		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94574	CASINO AIRPORT	28 53S	153 03E		<u>26</u>		23	.	05	.	.	.	.	.		.	.	.	.	A
94577	<u>HINZE DAM</u>	28 03S	153 17E		110		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94579	BRISBANE AIRPORT AWS NO.2	27 23S	153 07E		4		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>	<u>S00-24</u>	.	.	.	.
94580	<u>GOLD COAST SEAWAY</u>	27 56S	153 26E	3	2		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	AUT;C
94584	DOUBLE ISLAND POINT LIGHTHOUSE	25 56S	153 11E	95	94		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	AUT;C;LH
94589	<u>YAMBA PILOT STATION</u>	29 26S	153 21E	<u>22</u>	<u>30</u>		23	02	05	08	.	.	.	20		.	.	.	.	C;SEA
94592	<u>COOLANGATTA AIRPORT</u>	28 10S	153 30E	6	6		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;C;O/R
94595	CAPE BYRON LIGHTHOUSE	28 38S	153 38E	98	<u>95</u>		23	<u>02</u>	05	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	<u>C;LH;SEA</u>
94596	BALLINA AIRPORT AWS	28 50S	153 34E	2	2		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT
94598	EVANS HEAD RAAF BOMBING RANGE	29 11S	153 24E	63	63		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94600	<u>CAPE NATURALISTE</u>	33 32S	115 01E	110	<u>109</u>		01	04	07	10	13	16	19	22		.	.	.	.	AUT

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94603	<u>BADGINGARRA RESEARCH STN</u>	30 20S	115 32E		<u>275</u>		01	04	07	10	13	16	19	22		.	.	.	.
94606	MARGARET RIVER	33 56S	115 05E	90	88		<u>01</u>	.	<u>07</u>	.	.	.	.	.		.	.	.	.
94609	JANDAKOT AERO	32 06S	115 53E	31	30		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT
94610	<u>PERTH AIRPORT</u>	31 56S	115 58E	<u>20</u>	20		01	04	07	10	13	16	19	22	S00-24	RW	W	RW	W	CLIMAT(CT);EVAP;METAR;OZONE;SOILTEMP;SUNDUR
94612	PEARCE RAAF	31 40S	116 01E	<u>54</u>	45		01	04	07	10	13	16	19	22	<u>S00-24</u>	.	.	.	.	A;AUT;SOILTEMP
94614	<u>SWANBOURNE</u>	31 57S	<u>115 46E</u>		20		<u>01</u>	<u>04</u>	<u>07</u>	<u>10</u>	<u>13</u>	<u>16</u>	<u>19</u>	<u>22</u>		.	.	.	.	AUT;C;IRREG.;O/R
94615	<u>GOOSEBERRY HILL</u>	<u>31 57S</u>	<u>116 03E</u>		220		<u>01</u>	<u>04</u>	<u>07</u>	<u>10</u>	<u>13</u>	<u>16</u>	<u>19</u>	<u>22</u>		.	.	.	.	<u>AUT</u>
94616	<u>BRIDGETOWN POST OFFICE</u>	33 57S	116 08E	151	150		01	.	07	.	.	.	.	22		.	.	.	.
94617	MANJIMUP	<u>34 15S</u>	116 09E		280		01	.	07	.	.	.	.			.	.	.	.
94619	DALWALLINU	<u>30 17S</u>	<u>116 40E</u>	338	335		01	04	07	10	.	.	.	22		.	.	.	.
94622	<u>WONGAN HILLS POST OFFICE</u>	30 54S	116 43E	284	283		01	04	07	10	.	.	.	19	22		.	.	.	.
94624	<u>WANDERING COMPARISON</u>	<u>32 41S</u>	116 40E		<u>280</u>		01	.	07	.	.	.	.			.	.	.	.
94625	BROOKTON	32 22S	117 00E		<u>250</u>		01	.	07	.	.	.	.			.	.	.	.
94630	<u>MOUNT BARKER</u>	<u>34 38S</u>	<u>117 38E</u>		<u>300</u>		01	.	07	.	.	.	.			.	.	.	.
94636	RAVENSTHORPE	33 35S	<u>120 03E</u>	233	232		01	.	07	.	.	.	.			.	.	.	.
94637	<u>KALGOORLIE-BOULDER AIRPORT</u>	30 47S	121 27E	<u>370</u>	367		01	04	07	10	13	16	19	22	S00-24	RW	W	RW	W	A;AUT;EVAP;SOILTEMP;(2) R NOT ON 5; (3) R NOT ON 1,2,4,5,7
94638	<u>ESPERANCE</u>	33 50S	121 53E	<u>27</u>	25		01	04	07	10	13	16	19	22		RW	W	RW	W	AUT;EVAP;SOILTEMP;(4)R NOT ON 1,2,3,5,6
94651	NULLARBOR	31 27S	130 54E	65	64		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94655	<u>TARCOOLA AERO</u>	30 43S	134 35E	<u>124</u>	<u>125</u>		23	02	05	<u>08</u>	11	<u>14</u>	<u>17</u>	20	<u>H00-24</u>	.	.	.	.
94657	<u>KYANCUTTA</u>	33 08S	135 33E	<u>58</u>	<u>61</u>		23	02	05	08	11	.	17	20		.	.	.	.
94658	<u>COLES POINT</u>	34 23S	135 22E	29	28		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C;METAR;O/R
94662	CLEVE AERODROME	33 43S	136 30E	176	<u>175</u>		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
94665	MAITLAND	34 23S	137 40E	186	185		23	02	05	08	11	.	<u>17</u>	20		.	.	.	.
94667	<u>KADINA</u>	<u>33 57S</u>	<u>137 42E</u>	(1)	44		23	.	05	.	.	.	.			.	.	.	.	(1)Station without a barometer
94671	<u>VIRGINIA 3</u>	34 39S	138 32E		12		23	.	.	<u>08</u>	.	.	.			.	.	.	.
94672	ADELAIDE AIRPORT	<u>34 57S</u>	<u>138 32E</u>	4	6		23	02	05	08	11	14	17	20	S00-24	RW	W	RW	W	A;AUT;EVAP;METAR;SOILTEMP;SUNDUR
94674	LEIGH CREEK AIRPORT	<u>30 36S</u>	138 25E	259	261		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.
94678	<u>MOUNT CRAWFORD</u>	34 44S	138 56E	(1)	515		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	AUT;M;(1)Station without a barometer
94679	YONGALA	33 02S	<u>138 45E</u>		515		23	02	05	.	11	.	.	20		.	.	.	.
94683	KUITPO FOREST RESERVE	35 10S	138 40E		365		23	02	05	08	11	14	17	20		.	.	.	.	<u>AUT</u>
94684	<u>YUNTA AIRSTRIP</u>	32 34S	139 34E	<u>313</u>	<u>313</u>		23	02	05	08	11	14	17	20	<u>H00-24</u>	.	.	.	.	A;AUT
94693	<u>MILDURA AIRPORT</u>	34 14S	142 05E	<u>52</u>	51		23	02	05	08	11	14	17	20	S00-24	W	W	W	W	A;AUT;CLIMAT(C);EVAP;METAR;SOILTEMP;SUNDUR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94706	<u>NARRANDERA COUNCIL DEPOT</u>	34 44S	<u>146 34E</u>	174	173		23	02	05	.	.	.	.	.		.	.	.	.
94711	COBAR MO	31 29S	145 50E	<u>264</u>	260		23	02	05	08	11	.	17	20		RW	W	W	W	CLIMAT(CT);EVAP;SOILTEMP;SUNDUR
94712	<u>YOUNG AIRPORT</u>	34 15S	148 15E	381	383		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94715	<u>FORBES AIRPORT</u>	33 22S	147 55E	231	232		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94717	<u>PARKES (MACARTHUR STREET)</u>	<u>33 09S</u>	<u>148 10E</u>	324	324		23	.	05	.	11	.	17	20		.	.	.	.
94718	<u>COONAMBLE COMPARISON</u>	30 59S	148 23E		180		23	.	05	.	.	.	.	.		.	.	.	.
94720	<u>COWRA AIRPORT</u>	<u>33 51S</u>	<u>148 39E</u>		294		23	02	05	08	.	.	.	20		.	.	.	.	A
94721	<u>PEAK HILL POST OFFICE</u>	32 43S	148 11E		<u>285</u>		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94726	<u>ORANGE AIRPORT COMPARISON</u>	33 23S	149 07E	951	950		23	.	05	.	.	.	17	20		.	.	.	.	A
94727	<u>MUDGEES AIRPORT</u>	<u>32 34S</u>	<u>149 37E</u>	472	471		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	<u>AUT</u>
94729	<u>BATHURST AIRPORT</u>	<u>33 25S</u>	149 39E	745	742		23	02	05	08	11	14	17	20	<u>S00-24</u>	.	.	.	.	A;AUT;METAR
94730	<u>BATHURST AGRICULTURAL STATION</u>	33 26S	149 34E		713		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.	EVAP;SOILTEMP
94743	MOUNT BOYCE AWS	33 37S	150 16E	1080	1080		23	02	05	08	11	14	17	20		.	.	.	.	<u>AUT</u>
94750	NOWRA RAN AIR STATION	34 57S	150 32E	110	122		23	02	05	08	11	14	17	20	<u>S00-24</u>	RW	RW	RW	RW	A;C;LIT;M/B;METAR;SOILTEMP;SUNDUR;WR;(2) R & W IRREG
94754	<u>NULLO MOUNTAIN AWS</u>	<u>32 44S</u>	150 14E		1080		23	02	05	08	11	14	17	20		.	.	.	.	<u>AUT</u>
94762	HOLSWORTHY CONTROL RANGE	33 59S	150 55E		40		23	02	05	08	11	14	17	20		.	.	.	.	<u>AUT</u>
94763	PENRITH	33 43S	<u>150 41E</u>		25		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.
94764	<u>PARRAMATTA</u>	33 48S	151 01E		55		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.
94766	<u>CANTERBURY RACECOURSE</u>	33 54S	151 07E	(1)	3		23	02	05	08	11	14	17	20		.	.	.	.	AUT;(1)Station without a barometer
94769	FORT DENISON	33 51S	151 13E		2		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	<u>AUT:C</u>
94770	<u>NORAH HEAD LIGHTHOUSE</u>	33 17S	151 34E	24	27		23	02	05	08	.	.	.	20		.	.	.	.	C;LH;SEA
94773	<u>ARMIDALE UNIVERSITY OF NEW ENGLAND</u>	<u>30 32S</u>	151 40E		<u>987</u>		23	02	05	08	.	.	.	.		.	.	.	.
94775	<u>TOCAL</u>	<u>32 38S</u>	151 35E		30		<u>23</u>	.	<u>05</u>	.	.	.	.	.		.	.	.	.	EVAP;SOILTEMP
94777	GOSFORD (NARARA RESEARCH STATION)	33 24S	151 20E		20		23	<u>02</u>	05	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.
94778	GLEN INNES POST OFFICE	29 44S	151 44E		1062		23	.	05	08	.	.	17	20		.	.	.	.
94784	TAREE RADIO STATION 2RE	31 54S	152 29E	7	5		23	.	05	.	.	.	.	.		.	.	.	.	EVAP
94786	<u>PORT MACQUARIE AIRPORT AWS</u>	<u>31 26S</u>	<u>152 52E</u>	5	4		<u>23</u>	<u>02</u>	<u>05</u>	<u>08</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>		.	.	.	.	A;AUT

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94788	KEMPSEY	31 05S	152 49E		10		23	.	05	.	.	.	.	.		.	.	.	.	C
94790	SMOKY CAPE LIGHTHOUSE	30 55S	153 05E	120	117		23	02	05	08	11	.	17	20		.	.	.	.	C;LH;SEA
94791	COFFS HARBOUR MO	30 19S	153 07E	6	6		23	02	05	08	11	14	17	20	S00-24	RW	W	W	W	A;AUT;CLIMAT(C);EVAP;SOILTEMP;SUNDUR
94803	ALLANDALE	35 46S	137 02E		232		23	.	05	.	.	.	.	20		.	.	.	.
94805	CAPE BORDA LIGHTHOUSE	35 44S	136 35E	144	143		23	02	05	08	11	.	17	20		.	.	.	.	C;LH;SEA
94811	SECOND VALLEY FOREST	35 34S	138 17E	342	341		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94813	CAPE JAFFA AWS	36 58S	139 43E	18	17		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94816	KEITH	36 06S	140 21E	31	29		23	02	05	.	.	.	.	20		.	.	.	.
94820	NARACOORTE AERODROME	36 59S	140 44E	50	50		23	02	05	08	11	14	17	20	H00-24	.	.	.	.
94821	MOUNT GAMBIER AERO	37 44S	140 47E	69	65		23	02	05	08	11	14	17	20	S00-24	RW	W	W	W	A;CLIMAT(CT);EVAP;LIT;M/B;METAR;SOILTEMP;SPECI;SUNDUR;WR
94829	HAMILTON AIRPORT	37 39S	142 04E	242	245		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A
94830	PORT FAIRY AWS	38 24S	142 14E	10	10		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94835	LOOKOUT HILL	37 17S	143 15E		965		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94837	WARRNAMBOOL AIRPORT NDB	38 17S	142 27E	71	74		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT
94843	SWAN HILL AERODROME	35 23S	143 32E	71	71		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94845	COLAC AIRPORT	38 17S	143 43E		120		23	.	05	.	11	.	.	.		.	.	.	.	A
94846	AIREYS INLET	38 27S	144 06E		95		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94847	POINT WILSON	38 06S	144 32E		18		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94850	KING ISLAND AIRPORT	39 25S	143 53E	38	40		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT
94854	AVALON AIRPORT	38 02S	144 28E	9	11		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94855	BENDIGO AIRPORT AWS	36 44S	144 19E	209	215		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A
94857	GEELONG AIRPORT	38 14S	144 20E	35	43		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT
94859	REDESDALE	37 01S	144 32E		290		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94860	KILMORE GAP	37 23S	144 58E	528	528		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94862	YARRAWONGA	36 01S	145 59E		125		23	.	05	.	.	.	.	.		.	.	.	.
94864	COLDSTREAM	37 44S	145 24E	84	76		23	02	05	08	11	14	17	20		.	.	.	.	A;AUT
94865	LAVERTON RAAF	37 52S	144 45E	20	18		23	02	05	08	11	14	17	20	S00-24	RW	W	RW	W	A;CLIMAT(CT);M/B;METAR;OZONE;RAD;SUNDUR;WR
94866	MELBOURNE AIRPORT	37 41S	144 51E	141	132		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;M/B;METAR
94870	MOORABBIN AIRPORT	37 59S	145 06E	13	13		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR;SPECI
94871	FRANKSTON AWS	38 09S	145 07E		6		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94872	DUNNS HILL	37 53S	145 20E		561		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94873	MELBOURNE HARBOUR CONTROL	37 49S	144 56E		40		23	02	05	08	11	14	17	20		.	.	.	.	AUT; WIND ONLY
94878	HUNTERS HILL	36 13S	147 32E		981		23	02	05	08	11	14	17	20		.	.	.	.	AUT

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
94889	WANGARATTA AERO	36 25S	146 18E	153	154		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94890	GUNDAGAI	35 03S	148 06E		250		23	.	05	.	.	.	.	.		.	.	.	.
94907	EAST SALE AIRPORT	38 06S	147 08E	8	7		23	02	05	08	11	14	17	20	S00-24	W	W	W	W	A;AUT;CLIMAT(C);EVAP;METAR;SOILTEMP;SUNDUR
94913	GELANTIPY	37 13S	148 16E		760		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94914	COMBIENBAR	37 20S	149 01E	641	640		23	02	05	08	11	14	17	20		.	.	.	.
94916	CABRAMURRA	35 56S	148 23E	(1)	1475		23	.	.	.	.	.	.	.		.	.	.	.	SUNDUR;(1) Station without a barometer
94921	COOMA AIRPORT	36 18S	148 58E	931	947		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
94922	TINDBINBILLA NATURE RESERVE	35 27S	148 56E		743		23	.	05	.	.	.	.	.		.	.	.	.
94927	BRAIDWOOD RACECOURSE	36 26S	149 47E	666	665		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94928	BOMBALA POST OFFICE	36 55S	149 14E		705		23	.	05	.	.	.	.	.		.	.	.	.
94929	BOMBALA AWS	37 00S	149 14E	762	761		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94934	GREEN CAPE AWS	37 16S	150 02E	20	19		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94935	MALLACOOTA	37 36S	149 44E	23	22		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94937	MORUYA HEADS PILOT STATION	35 55S	150 09E	17	17		23	02	05	08	11	.	17	20		.	.	.	.	C;SEA
94939	MONTAGUE ISLAND LIGHTHOUSE	36 15S	150 13E	54	52		23	02	05	08	11	14	17	20		.	.	.	.	C;LH;SEA/SWELL
94950	MARRAWAH	40 55S	144 42E	108	107		23	.	05	08	.	.	.	20		.	.	.	.
94956	STRAHAN AERODROME	42 09S	145 17E	22	20		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;C
94964	BUSHY PARK	42 43S	146 54E	(1)	35		23	02	05	08	11	14	17	20		.	.	.	.	EVAP;(1) Station without a barometer
94967	CAPE BRUNY LIGHTHOUSE	43 30S	147 09E	53	55		23	02	05	08	11	.	17	20		.	.	.	.	C;LH;SEA
94968	LAUNCESTON AIRPORT	41 32S	147 12E	178	171		23	02	05	08	11	14	17	20	S00-24	W	W	W	W	A;CLIMAT(C);EVAP;MB;METAR;SUNDUR;WR
94971	MELTON MOWBRAY (NORTH STOCKMAN)	42 30S	147 12E		215		23	02	05	.	.	.	.	.		.	.	.	.
94973	MOOGARA	42 47S	146 54E		530		23	.	05	.	.	.	.	.		.	.	.	.
94974	CAPE SORELL	42 12S	145 10E	20	19		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
94975	HOBART AIRPORT	42 50S	147 30E	27	4		23	02	05	08	11	14	17	20	S00-24	RW	W	RW	W	A;C;CLIMAT(CT);MB;METAR;OZONE;RAD;SUNDUR;WR
94977	HARTZ MOUNTAINS	43 12S	146 46E		830		23	02	05	08	11	14	17	20		.	.	.	.	AUT
94980	FLINDERS ISLAND AIRPORT	40 06S	148 00E	10	10		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;C;M/B;METAR
94983	EDDYSTONE POINT	41 00S	148 21E	21	20		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C;SEA
94985	ROSS	42 02S	147 30E		186		23	02	05	.	.	.	.	20		.	.	.	.
95111	PORT KEATS AERO	14 15S	129 32E	29	28		23	02	05	08	11	14	17	20		.	.	.	.	AUT
95205	DERBY AERO	17 22S	123 40E	7	7		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	A;AUT;C;METAR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface OBServations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
95287	<u>NORMAN REEF</u>	16 26S	145 59E		2		.	.	05	.	.	.	.	20		.	.	.	.	C:IRREG:O/R
95288	<u>BOUGAINVILLE REEF</u>	15 30S	147 07E	13	0		X	X	X	X	X	X	X	X		.	.	.	.	AUT;C
95289	<u>GREEN ISLAND</u>	16 46S	145 58E	3	3		23	02	05	08	11	14	17	20		.	.	.	.	AUT;C
95290	<u>MOORE REEF</u>	16 51S	146 14E		2		.	.	05	.	.	.	.	20		.	.	.	.	C:IRREG:O/R
95291	<u>INGHAM COMPOSITE</u>	18 39S	146 11E	13	12		23	.	05	.	11	.	.	20		.	.	.	.
95293	<u>WOOLSHED</u>	19 25S	146 32E	559	559		23	02	05	08	11	14	17	20		.	.	.	.	AUT
95295	<u>AYR DPI RESEARCH STATION</u>	19 37S	147 23E		12		23	02	05	08	11	14	17	20		.	.	.	.	AUT;EVAP;SOILTEMP;SUNDUR
95297	<u>HOOK REEF</u>	19 44S	149 10E	3	3		X	X	X	X	X	X	X	X		.	.	.	.	AUT;C
95308	<u>KING BAY</u>	20 37S	116 45E	55	48		01	04	07	10	13	16	19	22		.	.	.	.
95315	<u>MOUNT PHILLIP</u>	24 24S	116 18E		300		01	.	07	.	.	16	19	22		.	.	.	.
95367	<u>MACKAY AERO</u>	21 10S	149 11E	6	6		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95448	<u>LEINSTER AERO</u>	27 51S	120 42E	498	497		01	04	07	10	13	16	19	22	H00-24	.	.	.	.	A;AUT;METAR
95458	<u>COOBER PEDY AIRORT</u>	29 02S	134 43E	226	226		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95481	<u>MOOMBA AIRPORT</u>	28 06S	140 12E	38	38		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT
95527	<u>MOREE AERO</u>	29 29S	149 51E	219	214		23	02	05	08	11	14	17	20	S00-24	RW	W	W	W	A;AUT;METAR;SOILTEMP;SPECI;SUNDUR;WR
95541	<u>INVERELL (RAGLAN ST)</u>	29 47S	151 07E	588	582		23	.	05	.	.	.	17	20		.	.	.	.
95581	<u>LONGAN CITY</u>	27 42S	153 12E		10		23	.	05	.	.	.	.	.		.	.	.	.
95590	<u>REDCLIFFE</u>	27 15S	153 06E		25		23	.	05	.	.	.	.	.		.	.	.	.
95604	<u>GOSNELLS CITY</u>	32 03S	115 59E		10		01	.	07	.	.	.	.	.		.	.	.	.
95605	<u>EAST FREMANTLE</u>	32 03S	115 46E		15		01	.	07	.	.	.	.	.		.	.	.	.
95610	<u>KALAMUNDA BICLEY</u>	32 01S	116 08E	385	384		01	04	07	10	13	16	19	22		.	.	.	.	AUT
95611	<u>BUSSELTON AERO</u>	33 41S	115 24E	17	17		01	04	07	10	13	16	19	22	H00-24	.	.	.	.	A;AUT;METAR
95612	<u>GINGIN AERO</u>	31 28S	115 52E	75	74		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	A;AUT;METAR
95619	<u>NALYERLUP</u>	34 11S	118 29E		250		01	.	.	.	.	.	.	.		.	.	.	.
95632	<u>BRIDGETOWN</u>	33 57S	116 08E	179	179		01	04	07	10	13	16	19	22		.	.	.	.	AUT
95636	<u>JACUP</u>	33 53S	119 06E	306	305		01	04	07	10	13	16	19	22		.	.	.	.	AUT
95638	<u>ESPERANCE AERO</u>	33 41S	121 50E	144	143		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	A;AUT
95639	<u>SALMON GUMS RES. STN</u>	32 59S	121 37E		249		01	04	07	10	13	16	19	22		.	.	.	.	AUT
95640	<u>WANDERING</u>	32 40S	116 40E	275	275		01	04	07	10	13	16	19	22		.	.	.	.	AUT
95646	<u>FORREST</u>	30 50S	128 07E	160	156		01	04	07	10	13	16	19	22	S00-24	.	.	.	.	A;AUT;METAR
95666	<u>PORT AUGUSTA ARID LANDS</u>	32 29S	137 44E	19	19		23	02	05	08	11	14	17	20		.	.	.	.	A;AUT
95667	<u>CLARE HIGH SCHOOL</u>	33 49S	138 36E	396	395		23	02	05	08	11	14	17	20		.	.	.	.
95670	<u>RAYVILLE PARK</u>	33 47S	138 13E	109	109		23	02	05	08	11	14	17	20		.	.	.	.	AUT
95687	<u>RENMARK AERO</u>	34 12S	140 41E	32	35		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95708	<u>CONDOBOLIN AIRPORT</u>	33 04S	147 13E	194	199		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
95715	WALGETT AIRPORT	30 02S	148 07E	134	133		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95716	GOULBURN AIRPORT	34 49S	149 44E	641	640		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95719	DUBBO AIRPORT	32 13S	148 34E	285	285		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
95726	ORANGE AIRPORT	33 23S	149 08E	948	950		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95753	RICHMOND RAAF	33 36S	150 47E	20	21		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95758	SCONE AIRPORT	32 02S	150 50E	223	227		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	AUT
95764	RIVERVIEW OBSERVATORY	33 50S	151 09E		40		23	.	05	.	.	.	.	.		.	.	.	.
95765	HOME BUSH (OLYMPIC STADIUM)	33 51S	151 04E		28		23	02	05	08	11	14	17	20		.	.	.	.
95771	CESSNOCK AIRPORT	32 48S	151 20E	62	64		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95773	ARMIDALE AIRPORT AWS	30 32S	151 37E	1081	1084		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95774	MANGROVE MOUNTAIN AWS	33 17S	151 13E		305		23	02	05	08	11	14	17	20		.	.	.	.
95807	KINGSTONE AERO	35 43S	137 31E	6	8		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95837	RUTHERGLEN RESEARCH	36 06S	146 30E		168		23	02	05	08	11	14	17	20		.	.	.	.	EVAP;SOILTEMP;SUNDUR
95896	ALBURY AEROPORT	36 04S	146 57E	165	165		23	02	05	08	11	14	17	20	S00-24	.	.	.	.	A;AUT;METAR
95909	THREDBO (CRACKENBACK STATION)	36 30S	148 17E	1958	1957		23	02	05	08	11	14	17	20		.	.	.	.	M
95912	CHARLOTTE PASS (KOSCIUSKO CHALET)	36 26S	148 20E		1755		23	.	05	.	.	.	.	.		.	.	.	.	M
95913	MT MOORNAPA	37 45S	147 08E		486		23	02	05	08	11	14	17	20		.	.	.	.	AUT
95931	BEGA AWS	36 40S	149 49E	42	41		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
95935	NAROOMA RVCP	36 13S	150 08E		25		23	.	05	.	.	.	.	.		.	.	.	.
95952	MOUNT READ	41 51S	145 32E	1120	1120		23	02	05	08	11	14	17	20		.	.	.	.	AUT
95957	WYNYARD AIRPORT	41 00S	145 44E	12	12		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
95958	SCOTTS PEAK DAM	43 03S	146 16E		400		23	02	05	08	11	14	17	20		.	.	.	.
95960	DEVONPORT AIRPORT	41 10S	146 26E	10	10		23	02	05	08	11	14	17	20	H00-24	.	.	.	.	A;AUT;METAR
95973	BRIDPORT (EMMA ST)	41 01S	147 24E		25		23	.	05	.	.	.	.	.		.	.	.	.
95980	SWAN ISLAND LIGHTHOUSE	40 44S	148 07E	9	9		23	02	05	08	11	.	.	20		.	.	.	.	C;LH;SEA
Region V - ISLANDS (96: 995, 996)																				
96995	CHRISTMAS ISLAND AERO	10 27S	105 41E	262	279		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;AUT;METAR
96996	COCOS ISLAND AERO	12 11S	96 50E	4	3		23	02	05	08	11	14	17	20	H00-24	RW	.	RW	.	A;C;CLIMAT(CT);EVAP;METAR;SEA
Region V - COOK ISLANDS																				
91824	NIUE/HANAN AIRPORT	19 05S	169 56W	59	59		X	X	X	X	X	X	X	X		.	.	.	.

Index Number	Name	Latitude	Longitude	Elevation		Pressure Level	Surface Observations								Obs. H	Uper-air				Other Observations and remarks
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12	18	
Region V - FIJI																				
91656	LABASA	16 26S	179 25E	2	2		X	X	X	X	X	X	X	X		.	.	.	.
91680	NADI AIRPORT	17 45S	177 27E	25	20		X	X	X	X	X	X	X	X	H00-24	RW	.	W	.	A:CLIMAT(CT);EVAP;HU/FC;RSD(10 CM);SEISMO;SOILTEMP;SOLRA;SUNDUR;WR
91682	SIGATOKA	18 09S	177 25E	8	8		X	X	X	X	X	X	X	X		.	.	.	.
Region V - PHILIPPINES																				
98546	CATARMAN	12 30N	124 38E	7	6		X	X	X	X	X	X	X	X		.	.	.	.	AGRIMET;CLIMAT(C);SUNDUR
98553	BORONGAN	11 39N	125 26E	3	2		X	X	X	X	X	X	X	X		.	.	.	.
Region VI - BELARUS																				
26745	VILEYKA	54 29N	26 54E	165			X	X	X	X	X	X	X	X		.	.	.	.
33008	BREST	52 07N	23 41E	146			X	X	X	X	X	X	X	X		.	.	.	.
Region VI - DENMARK AND FAROE ISLANDS																				
06143	MARIBO	54 42N	11 27E	5	5		.	.	.	.	.	.	.	.	S*	.	.	.	.	A;METAR/SPECI A/R*
06190	ROENNE	55 04N	14 45E	16	16		X*	X*	X	X	X	X	X	X#	S+	.	.	.	.	A:AUT*;AUT 6#;C:CLIMAT(C);METAR/SPECI A/R+
Region VI - GEORGIA																				
37549*	TBILISI	41 41N	44 57E	490			.	.	.	.	.	.	.	.		.	.	.	.	*PREVIOUSLY 37546
Region VI - GREENLAND																				
04230	SISIMIUT (HOLSTEINSBORG)	66 55N	53 40W	9	12		X	X	X	X	X	X	X	X	H00-24*#	.	.	.	.	A:AUT*;SUNDUR;METAR/SPECI#
04250	NUUK (GODTHAAB)	64 10N	51 45W	70	80		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT:CLIMAT(C)
Region VI - POLAND																				
12140	GDANSK PORT POLNOCNY	54 24N	18 42E	74	2		X	X	X	X	X	X	X	X		.	.	.	.	SEATEMP
Region VI - TURKEY																				
17030	SAMSUN	41 17N	36 18E	4	4		.	.	.	.	.	.	.	.		RW	.	RW	.	CLIMAT(CT);EVAP;PH;SOILTEMP;SOLRA;SUNDUR
17031	CARSAMBA/SAMSUN	41 15N	36 33E	7	5		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI
17054	CORLU	41 08N	27 55E	160	174		.	.	.	.	.	.	.	.	S00-24	.	.	.	.	A;METAR;SPECI
17194	TUZKOY	38 46N	34 32E	945	947		.	.	.	.	.	.	.	.	H06-15	.	.	.	.	A;METAR;SPECI
17289	BODRUM/MILAS	37 14N	27 40E	11	6		.	.	.	.	.	.	.	.	S00-24	.	.	.	.	A;METAR;SPECI
17352	ADANA	36 59N	35 18E	20	20		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	A;METAR;SPECI

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".

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 CCC 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 ₀ P ₀ P ₀ P ₀
1000 hPa	Geopotential of the given standard isobaric surface reported using group 4a3hhh
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		Pressure Level	Remarks	
				Latitude	Longitude	TTAAii CCCC	00	03	06	09	12	15	18	21	HP			H/HA

II. GLOBAL DATA PROCESSING SYSTEM

Information on the Operational Status of the Global Data-Processing System

Update to lists of Radiosonde Stations used in the Standardized
Verification of Numerical Weather Prediction (NWP) for 1998

➤ NORTH AMERICA (25N-60N, 145W-50W)

▪ Remove:

71197	71866	71896	72214	72215
72248	72249	72501	74494	78073

▪ Add:

71815	71908	72456	72476	72562
72572	72632	72634	72672	72694
72712	72764	72776		

➤ EUROPE (25N-70N, 10W-28E)

▪ Remove:

02935	10338	10272	26850	33317
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▪ Add:

03693	08579	10238	10304	11120
14240	16622	26422		

➤ ASIA (25N-65N, 60E-145E)

▪ Remove:

29231	30673	30965	38353	38457
53068	53513	54662	54857	56029
57036	57127	57461	58362	58633

▪ Add:

24908	30230	30372	30715	31300
47158				

➤ AUSTRALIA/NEW ZEALAND (55S-10S, 90E-180E)

▪ Add:

93112

➤ TROPICS (20S-20N)

▪ Remove:

61967	76654	76679	76692	78397
78486	91245	91492	91801	91944
92035				

▪ Add:

41316	48565	48855	61291	61687
63741	91610			

➤ N. HEMISPHERE (20N-90N)

▪ Remove:

02935	10272	10338	17030	17130
20046	20292	23022	25173	25563
26298	26850	27612	29231	30673
30965	33317	33345	38353	38457
40394	40416	41170	41923	53068
53513	54662	54857	56029	57036
57127	57461	58362	58633	59265
59316	71197	71866	71896	71957
72214	72215	72248	72249	72501
74494	76458	76612	76644	78073

▪ Add:

08522	08579	10238	10304	11120
16622	22271	24908	26422	27199
27730	30230	30372	30715	32389
40766	47158	71815	71908	72456
72476	72562	72572	72632	72634
72672	72694	72712	72764	72776

➤ S. HEMISPHERE (90S-20S)

▪ Remove:

68424	85934	89022	89055	91952
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▪ Add:

67197

UPDATED LIST

(the complete list resulting from the updates is listed below)

➤ NORTH AMERICA (25N-60N, 145W-50W)

70361	71109	71119	71203	71600	71603	71722	71801	71811	71815	71816
71823	71836	71845	71867	71906	71907	71908	71913	71934	71945	72201
72202	72206	72208	72210	72230	72233	72235	72240	72250	72251	72261
72265	72274	72293	72305	72317	72327	72340	72357	72363	72364	72365
72387	72393	72402	72403	72440	72451	72456	72469	72476	72518	72520
72528	72558	72562	72572	72582	72597	72632	72634	72645	72659	72662
72672	72681	72694	72712	72747	72764	72768	72776	72786	72797	74389
74455	74560	74794	78016							

➤ EUROPE (25N-70N, 10W-28E)

01152	01241	01400	01415	02185	02365	02527	02836	02963	03005	03026
03240	03496	03502	03693	03743	03808	03882	03920	03953	06011	06181
06260	06447	06610	07110	07145	07180	07481	07510	07645	07761	08001
08023	08160	08221	08301	08430	08495	08579	10035	10184	10200	10238
10304	10393	10410	10486	10548	10618	10739	10771	10868	11035	11120
11520	11952	12120	12374	12425	12843	12982	14240	15120	15420	16044
16080	16245	16320	16429	16560	16622	16716	26038	26422	26629	60155
60630	60715									

➤ ASIA (25N-65N, 60E-145E)

23884	23955	24507	24641	24688	24908	24944	24959	28275	28445	28698
28952	29263	29572	29612	29634	29698	29862	30054	30230	30372	30554
30635	30715	30758	30935	31004	31300	31510	31736	32061	32150	35394
36870	38341	47122	47138	47158	47401	47412	47580	47582	47590	47600
47646	47678	47681	47744	47778	47807	47827	47909	47936	47945	47971
51431	51463	51644	51709	51828	51848	52203	52323	52418	52533	52681
52866	52889	53845	53915	54292	54511	56137	56571	57178	57993	58150
58457	58606	58725	58968							

➤ AUSTRALIA/NEW ZEALAND (55S-10S, 90E-180E)

91592	91680	93112	93417	93844	94120	94150	94203	94294	94299	94302
94312	94326	94332	94374	94403	94430	94461	94510	94578	94610	94637
94638	94647	94659	94672	94711	94776	94802	94821	94865	94910	94975
94995	94996	94998	95527	96996						

➤ TROPICS (20S-20N)

41114	41316	48565	48601	48615	48648	48657	48698	48855	48900	61024
61291	61641	61687	61901	61976	63741	65503	67083	76723	78526	78583
78806	78866	78897	78954	78970	81405	91285	91334	91348	91366	91376
91408	91413	91610	91643	91680	91765	91925	91938	91943	94120	94150
94203	94294	94299	96315	96413	96441	96471	96481	96996	98223	98646

➤ N. HEMISPHERE (20N-90N)

01001	01004	01028	01152	01241	01400	01415	02185	02365	02527	02836
02963	03005	03026	03240	03496	03502	03693	03743	03808	03882	03920
03953	04018	04202	04220	04270	04320	04339	04360	06011	06181	06260
06447	06610	07110	07145	07180	07481	07510	07645	07761	08001	08023
08160	08221	08301	08430	08495	08508	08522	08579	10035	10184	10200
10238	10304	10393	10410	10486	10548	10618	10739	10771	10868	11035
11120	11520	11952	12120	12374	12425	12843	12982	14240	15120	15420
16044	16080	16245	16320	16429	16560	16622	16716	22113	22271	22550
22820	22845	23205	23330	23472	23804	23884	23955	24125	24343	24507
24641	24688	24908	24944	24959	25400	25913	26038	26063	26422	26629
26781	27037	27199	27730	27962	27995	28225	28275	28445	28698	28952
29263	29572	29612	29634	29698	29862	30054	30230	30372	30554	30635
30715	30758	30935	31004	31510	31736	32061	32150	32389	32540	34009
35121	35229	35394	36870	38341	40373	40375	40430	40437	40582	40766
41024	41217	41256	45004	47122	47138	47158	47401	47412	47420	47580
47582	47590	47600	47646	47678	47681	47744	47778	47807	47827	47909
47918	47936	47945	47971	47991	48820	51431	51463	51644	51709	51828
51848	52203	52323	52418	52533	52681	52866	52889	53845	53915	54292
54511	56137	56571	57178	57993	58150	58457	58606	58725	58968	59134
59211	59431	60020	60155	60630	60715	60760	70026	70133	70200	70219
70231	70261	70308	70316	70326	70350	70361	71043	71081	71082	71109
71119	71203	71600	71603	71722	71801	71811	71815	71816	71823	71836
71845	71867	71906	71907	71908	71909	71913	71915	71917	71924	71925
71926	71934	71945	71964	72201	72202	72206	72208	72210	72230	72233
72235	72240	72250	72251	72261	72265	72274	72293	72305	72317	72327
72340	72357	72363	72364	72365	72387	72393	72402	72403	72440	72451
72456	72469	72476	72518	72520	72528	72558	72562	72572	72582	72597
72632	72634	72645	72659	72662	72672	72681	72694	72712	72747	72764
72768	72776	72786	72797	74389	74455	74560	74794	78016	91165	

➤ S. HEMISPHERE (90S-20S)

61995	61996	61998	67197	68174	68263	68442	68512	68538	68588	68842
68906	68994	83780	83840	85442	85543	85799	87155	87576	87623	87860
88889	89002	89532	89564	89571	89611	91592	91958	93112	93417	93844
93986	93997	94302	94312	94326	94332	94374	94403	94430	94461	94510
94578	94610	94637	94638	94647	94659	94672	94711	94776	94802	94821
94865	94910	94975	94995	94996	94998	95527				

III. CODES

WMO Publication No 306 - *Manual on Codes*
Volume I.2, Part C, Common Code Tables

At the request of the Russian Federation the President of the Commission for Basic Systems has approved three additional entries in the Common Code Table C-2 for the Radiosonde/sounding system used in the Manual on Codes, WMO No. 306, Volume I.2, Part C, Common Code Tables:

Code Figure

53	-AVK-RF95
75	-AVK-MRZ-ARMA
76	-AVK-RF95-ARMA

IV. GLOBAL TELECOMMUNICATION SYSTEM

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.

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

We will also be publishing the complete updated list of the "additional" data and products in the next issue of this Newsletter i.e. May/June 1999.

Publication No. 9
Volume C1 "Catalogue of Meteorological Bulletins"

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
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Name of Country: CAPE VERDE
Compiling or Editing Centre: SAL

DATE: 16/03/1999

New:

USCU01 GVAC FM 35-X EXT. 12 08594

Name of Country: BANGLADESH
Compiling or Editing Centre: DHAKA

DATE: 4/03/1999

Complete list:

CABW01	VGDC	FM 41-IV	AS AVAILABLE	AIREP
CSBW01	VGDC	FM 71-XI	MONTHLY	41859 41883 41891 41923 41936 41943 41947 41950 41978 41992
CUBW01	VGDC	FM 75-X	MONTHLY	41883 41923 41977
SMBW01	VGDC	FM 12-XI	00,06,12,18	41859 41883 41891 41907 41923 41936 41943 41950 41978 41992
SMVB01	VGDC	FM 13-XI	00,06,12,18	SHIP/NAVIRE
UEBW01	VGDC	FM 35-X EXT.	00	41883 41923 41977
UHBW01	VGDC	FM 32-IX	00	41859 41891 41907 41936 41943 41950 41992
UHBW01	VGDC	FM 32-IX	06,12,18	41859 41883 41891 41907 41923 41936 41943 41950 41977 41992
UKBW01	VGDC	FM 35-X EXT.	00	41883 41923 41977
ULBW01	VGDC	FM 35-X EXT.	00	41883 41923 41977
UPBW01	VGDC	FM 32-IX	00	41859 41891 41907 41936 41943 41950 41992
UPBW01	VGDC	FM 32-IX	06,12,18	41859 41883 41891 41907 41923 41936 41943 41950 41977 41992
UQBW01	VGDC	FM 32-IX	00	41859 41891 41907 41936 41943 41950 41992
UQBW01	VGDC	FM 32-IX	06,12,18	41859 41883 41891 41907 41923 41936 41943 41950 41977 41992
USBW01	VGDC	FM 35-X EXT.	00	41883 41923 41977
SDBW20	VGDC	PLAIN LANGUAGE	00,06,12,18	41859 41923 41984 41992
SIBW20	VGDC	FM 12-XI	03,09,15,21	41859 41883 41891 41907 41923 41936 41943 41950 41978 41992
UGBW20	VGDC	FM 32-IX	00	41859 41891 41907 41936 41943 41950 41992
UGBW20	VGDC	FM 32-IX	06,12,18	41859 41883 41891 41907 41923 41936 41943 41950 41977 41992
WOBW20	VGDC	PLAIN LANGUAGE	AS REQUIRED	OTHER WARNINGS/AUTRES AVIS
WTBW20	VGDC	PLAIN LANGUAGE	AS REQUIRED	TROPICAL CYCLONE WARNINGS/AVIS DE CYCLONE TROPICAL
WWBW20	VGDC	PLAIN LANGUAGE	AS REQUIRED	WEATHER SUMMARY / RESUME DU TEMPS

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
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Name of Country: HONG KONG, CHINA
 Compiling or Editing Centre: HONG KONG

DATE: 01/04/1999

Amendments:

SMHK01	VHHH	FM 12-XI	00,06,12,18	45004
UEHK01	VHHH	FM 35-X EXT.	00,03,06,09,12, 15,18,21	45004
UHHK01	VHHH	FM 32-IX	00,03,06,09,12, 15,18,21	45004
UKHK01	VHHH	FM 35-X EXT.	00,03,06,09,12, 15,18,21	45004
ULHK01	VHHH	FM 35-X EXT.	00,03,06,09,12, 15,18,21	45004
UPHK01	VHHH	FM 32-IX	00,03,06,09,12, 15,18,21	45004
USHK01	VHHH	FM 35-X EXT.	00,03,06,09,12, 15,18,21	45004
SIHK20	VHHH	FM 12-XI	03,09,15,21	45004
UGHK20	VHHH	FM 32-IX	00,03,06,09,12, 15,18,21	45004
UQHK20	VHHH	FM 32-IX	00,03,06,09,12, 15,18,21	45004

Name of Country: SRI LANKA
 Compiling or Editing Centre: COLOMBO

DATE: 20/03/1999

New Bulletin:

SISB01	VCCC	FM 12-XI	03,09,15,21	43400
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Name of Country: MALDIVES
 Compiling or Editing Centre: MALE INTL

DATE: 01/03/1999

Complete list:

SMMV01	VRMM	FM 12-XI	00,06,12	43533 43577 43588
SMMV01	VRMM	FM 12-XI	00,06,12,18	43555 43599
UHMV01	VRMM	FM 32-IX	06	43555 43599
UPMV01	VRMM	FM 32-IX	06	43555 43599
SIMV20	VRMM	FM 12-XI		43533
SIMV20	VRMM	FM 12-XI	03,09	43577 43588

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
SIMV20	VRMM	FM 12-XI	03,09,15,21	43555 43599
UGMV20	VRMM	FM 32-IX	06	43555 43599
UQMV20	VRMM	FM 32-IX	06	43555 43599

Name of Country: CANADA
 Compiling or Editing Centre: MONTREAL

DATE: 01/04/1999

Amendments:

SMCN20	CWAO	FM 12-XI	00,06,12,18	71032 71044 71046 71048 71049 71055 71056 71059 71064 71073 71074 71075 71084 71085 71087 71088 71096 71097 71103 71107 71113 71115 71116 71118 71127 71132 71133
SMCN21	CWAO	FM 12-XI	00,06,12,18	71134 71137 71139 71142 71143 71144 71147 71150 71151 71153 71154 71158 71159 71160 71161 71162 71163 71164 71165 71166 71167 71168 71170 71176 71177 71179
SMCN24	CWAO	FM 12-XI	00,06,12,18	71377 71378 71379 71381 71382 71383 71384 71385 71386 71391 71395 71402 71406 71408 71414 71415 71417 71418 71419 71423 71424 71425 71426 71427 71428 71429 71431 71434
SMCN26	CWAO	FM 12-XI	00,06,12,18	71477 71478 71479 71481 71482 71483 71484 71485 71486 71487 71488 71490 71492 71498 71499 71501 71502 71505 71506 71507 71511 71512 71513 71514 71515 71516 71520
SMCN27	CWAO	FM 12-XI	00,06,12,18	71521 71522 71523 71524 71550 71551 71552 71553 71554 71555 71556 71557 71558 71599 71605 71611 71612 71614 71616 71617 71618 71619 71629 71634 71642 71675 71703 71710 71712 71713 71721 71723 71724 71732 71734 71736 71737 71750 71751 71760 71761

Name of Country: AUSTRALIA
 Compiling or Editing Centre: MELBOURNE

DATE: 01/04/1999

Delete:

UHKK01	AMMC	FM 32-IX	00, 06, 12	96996
UGKK01	AMMC	FM 32-IX	00, 06, 12	96996
UPKK01	AMMC	FM 32-IX	00, 06, 12	96996

NEW:

UQAU24	AMMC	FM 32-IX	00,12	94693 94767 94907
UQAU24	AMMC	M 32-IX	06	94693 94821 94865 94907 94910 94975
UQAU24	AMMC	FM 32-IX	18	94693 94767 94821 94865 94907 94910 94975

Amendments:

UHAU04	AMMC	FM 32-IX	06,18	94693 94767 94776 94791 94907 94910 94926 94968 94995 95527
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TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
UHAU04	AMMC	FM 32-IX	12	94693 94776 94791 94907 94910 94926 94968 94995 95527
ULAU04	AMMC	FM 35-X EXT.	00	94711 94776 94865 94910 94975 94995 95304 95527
UPAU04	AMMC	FM 32-IX	06,18	94693 94711 94767 94776 94791 94907 94910 94926 94968 94995 95527
UPAU04	AMMC	FM 32-IX	12	94693 94711 94776 94791 94907 94910 94926 94968 94995 95527
SNAU40	AMMC	FM 12-XI	01,04,07,10,13, 16,19,22	92100 94101 94201 94202 94204 94206 94208 94209 94213 94215 94216 94217 94245 94303 94304 94305 94306 94308 94309 94311 94314 94315 94316 94318 94320 94401 94402 94404 94410 94411 94414 94415 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU41	AMMC	FM 12-XI	01,04,07,10,13, 16,19,22	94416 94417 94422 94429 94439 94440 94444 94457 94600 94602 94603 94604 94605 94606 94608 94609 94611 94612 94614 94615 94616 94617 94618 94619 94620 94621 94622 94623 94641 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU42	AMMC	FM 12-XI	01,04,07,10,13, 16,19,22	94449 94625 94626 94627 94628 94629 94630 94631 94632 94633 94636 94639 94640 94641 94644 94645 95204 95304 95305 95312 95315 95316 95400 95448 95600 95606 95611 95612 95613 95614 95618 95624 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU45	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94658 94684 94685 94687 94688 94777 94803 94805 94806 94807 94809 94810 94811 94812 94813 94814 94815 94816 94817 94818 94819 94820 94822 95655 95656 95658 95660 95661 95662 95664 95669 95671 95677 95678 95687 95806 95807 95812 95814 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU47	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94174 94182 94186 94187 94256 94259 94268 94269 94276 94285 94286 94288 94291 94292 94293 94295 94321 94324 94329 94335 94337 94339 94341 94343 94350 94351 94355 94356 94358 94359 94360 94362 94364 94368 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU48	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94369 94370 94372 94373 94374 94375 94376 94377 94378 94380 94381 94384 94386 94387 94390 94494 94513 94514 94517 94521 94525 94529 94530 94543 94548 94549 94550 94552 94553 94555 94558 94566 94577 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU49	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94345 94511 94564 94567 94568 94569 94570 94575 94579 94580 94581 94592 94593 94594 94762 95181 95289 95291 95293 95295 95296 95362 95366 95367 95527 95529 95533 95551 95565 95566 95572 95573 95574 95590 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU50	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94520 94541 94544 94556 94571 94573 94574 94582 94583 94585 94586 94587 94588 94589 94595 94596 94598 94689 94692 94694 94695 94696 94697 94698 94699 94701 94703 94704 94705 94706 94707 94708 94709 94714 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU51	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94715 94716 94717 94721 94722 94723 94724 94727 94728 94729 94730 94731 94732 94734 94735 94736 94737 94739 94740 94741 94742 94743 94744 94746 94747 94748 94749 94752 94754 94755 95715 95753 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU52	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94756 94758 94760 94761 94763 94764 94765 94766 94768 94770 94771 94772 94773 94774 94775 94778 94779 94780 94781 94783 94784 94786 94787 94788 94789 94790 94792 94869 94876 94877 94878 94890 94896 94915 94916 94918 94919 94921 94922 94923 94925 94927 94928 94929 94938 94940 95770 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU53	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94497 94498 94710 94733 94937 94939 94940 94941 94942 95485 95512 95520 95541 95706 95707 95708 95709 95710 95716 95717 95718 95719 95720 95723 95726 95727 95735 95746 95750 95758 95764 95765 95768 95771 95772 95773 95774 95775 95778 95784 95869 95895 95896 95908 95909 95911 95912 95916 95931 95935 95936 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU54	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94824 94825 94826 94828 94829 94830 94831 94832 94834 94835 94836 94837 94840 94841 94843 94844 94845 94846 94847 94849 94852 94853 94854 94855 94857 94860 94861 94862 94863 94864 94866 94868 94870 94871 94872 94874 94879 94880 94883 NOTE: AS AVAILABLE/SELON DISPONIBILITE
SNAU55	AMMC	FM 12-XI	02,05,08,11,14, 17,20,23	94738 94859 94881 94882 94889 94891 94892 94894 94895 94898 94899 94903 94906 94911 94912 94913 94914 94930 94932 94935 95829 95831 95833 95834 95835 95836 95837 95838 95839 95843 95853 95854 95855 95867 95871 95873 95881 95901 95904 95913 NOTE: AS AVAILABLE/SELON DISPONIBILITE

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
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Name of Country: FIJI
 Compiling or Editing Centre: NADI

DATE: 15/04/1999

Amendments:

SMFJ01	NFFN	FM 12-XI	00	91650 91652 91656 91659 91660 91669 91670 91676 91678 91679 91680 91682 91683 91689 91691 91693 91697 91699 91753 91754 91822 91960
SMFJ01	NFFN	FM 12-XI	06,12	91650 91652 91656 91659 91660 91669 91670 91676 91679 91680 91682 91683 91689 91691 91693 91697 91699 91753 91754 91822
SMFJ01	NFFN	FM 12-XI	18	91650 91652 91656 91659 91660 91669 91670 91676 91679 91680 91682 91683 91689 91691 91693 91697 91699 91753 91754 91822 91960
SIFJ20	NFFN	FM 12-XI	03,09,15	91650 91652 91656 91659 91660 91669 91670 91676 91679 91680 91682 91683 91689 91691 91693 91697 91699 91822
SIFJ20	NFFN	FM 12-XI	21	91650 91652 91656 91659 91660 91669 91670 91676 91678 91679 91680 91682 91683 91689 91691 91693 91697 91699 91822

Name of Country: SAMOA
 Compiling or Editing Centre: APIA

DATE: 15/04/1999

Complete List:

CSTK01	NSAP	FM 71-XI	MONTHLY	91762
SMTK01	NSAP	FM 12-XI	00,06	91720 91723 91724 91727 91756 91759 91762
SMTK02	NSAP	FM 12-XI	00,06,12,18	91723
SMTK01	NSAP	FM 12-XI	12,18	91756 91759
SITK20	NSAP	FM 12-XI	03,09	91723 91724 91756 91762
SITK20	NSAP	FM 12-XI	15	91723 91756 91762
SITK20	NSAP	FM 12-XI	21	91720 91723 91724 91727 91756 91762
SITK21	NSAP	FM 12-XI	03,09,15,21	91723

Name of Country: NETHERLANDS
 Compiling or Editing Centre: DE BILT

DATE: 01/01/1999

Amendments:

SINL53	EHDB	FM 12-XI	01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23	06244 06247 06248 06251 06253 06254 06255 06267 06269 06273 06277 06278 06279 06283 06285 06286 06299
SINL53	EHDB	FM 12-XI	03,09,15,21	06229 06244 06247 06248 06251 06253 06254 06255 06267 06269 06273 06277 06278 06279 06283 06285 06286
SINL54	EHDB	FM 12-XI	03,09,15,21	06308 06311 06312 06313 06315 06316 06319 06320 06321 06323 06324 06331 06343 06348 06356 06379 06391
SMNL53	EHDB	FM 12-XI	00,06,12,18	06229 06244 06247 06248 06251 06253 06254 06255 06267 06269 06273 06277 06278 06279 06283 06285 06286

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
SMNL54	EHDB	FM 12-XI	00,06,12,18	06308 06311 06312 06313 06315 06316 06319 06320 06321 06323 06324 06331 06343 06348 06356 06379 06391
SNL54	EHDB	FM 12-XI	01,02,03,04,05, 06,07,08,09,10, 11,12,13,14,15, 16,17,18,19,20, 21,22,23	06308 06311 06312 06313 06315 06316 06319 06320 06321 06323 06324 06331 06343 06348 06356 06379 06391

Name of Country: POLAND
 Compiling or Editing Centre: WARSZAWA

DATE: 06/04/1999

Amendments:

SIPL20	SOWR	FM 12-XI	03,09,15,21	12120 12140 12155 12205 12250 12295 12330 12375 12424 12465 12560 12695
SMPL20	SOWR	FM 12-XI	00,06,12,18	12140 12155 12205 12465 12560 12695
SNPL40	SOWR	FM 12-XI	00,03,06,09,12, 15,18,21	12140

Name of Country: TURKEY
 Compiling or Editing Centre: ANKARA

DATE: 05/03/1999

Complete List

CSTU10	LTAA	FM 71-XI		17022 17030 17034 17040 17050 17062 17074 17084 17090 17092 17096 17098
CSTU11	LTAA	FM 71-XI		17112 17116 17123 17130 17152 17170 17188 17190 17196 17199 17210 17220
CSTU12	LTAA	FM 71-XI		17240 17244 17250 17255 17270 17280 17285 17292 17300 17340 17351
CUTU10	LTAA	FM 75-X		17030 17062 17130 17220 17240 17280 17351
SETU10	LTAA	SPECIAL CODE	AS AVAILABLE	SEISMIC DATA/DONNEES SISMIQUES
SITU10	LTAA	FM 12-XI	03,09,15,21	17022 17031 17038 17050 17060 17096 17124 17128 17170 17195 17200 17219 17240 17244 17280 17350
SITU11	LTAA	FM 12-XI	03,09,15,21	17026 17034 17070 17084 17090 17098 17150 17160 17184 17190 17210 17234 17260 17290 17370
SITU12	LTAA	FM 12-XI	03,09,15,21	17024 17056 17067 17092 17112 17115 17116 17188 17202 17248 17292 17300 17310 17330
SMTU10	LTAA	FM 12-XI	00,06,12,18	17022 17031 17038 17050 17060 17096 17124 17128 17170 17195 17200 17219 17240 17244 17280 17350
SMTU11	LTAA	FM 12-XI	00,06,12,18	17026 17034 17070 17084 17090 17098 17150 17160 17184 17190 17210 17234 17260 17290 17370
SMTU12	LTAA	FM 12-XI	00,06,12,18	17024 17056 17067 17092 17112 17115 17116 17188 17202 17248 17292 17300 17310 17330
UETU10	LTAA	FM 35-X EXT.	00,12	17030 17062 17130 17220 17240 17280 17351
UKTU10	LTAA	FM 35-X EXT.	00,12	17030 17062 17130 17220 17240 17280 17351
ULTU10	LTAA	FM 35-X EXT.	00,12	17030 17062 17130 17220 17240 17280 17351
USTU10	LTAA	FM 35-X EXT.	00,12	17030 17062 17130 17220 17240 17280 17351

TTAA (ii)	CCCC	Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
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Name of Country: BULGARIA
 Compiling or Editing Centre: SOFIA

DATE: 08/02/1999

Complete List

CSBU01	LZSO	FM 71-XI		15502 15552 15614 15730
CUBU01	LZSO	FM 75-X		15614
SEBU01	LZSO	SPECIAL CODE	AS AVAILABLE	SEISMIC DATA/DONNEES SISMIQUES
SMBU01	LZSO	FM 12-XI	00,06,12,18	15502 15525 15549 15552 15614 15615 15625 15627 15640 15655 15712 15730
UEBU01	LZSO	FM 35-X EXT.	12	15614
UHBU01	LZSO	FM 32-IX	12	15614
UKBU01	LZSO	FM 35-X EXT.	12	15614
ULBU01	LZSO	FM 35-X EXT.	12	15614
UPBU01	LZSO	FM 32-IX	12	15614
USB000	LZSO	FM 35-X EXT.	12	15614
SIBU20	LZSO	FM 12-XI	03,09,15,21	15502 15525 15549 15552 15614 15615 15625 15627 15640 15655 15712 15730
SIBU40	LZSO	FM 12-XI	03,09,15,21	15501 15505 15511 15514 15526 15530 15533 15535 15550 15561 15562 15600 15601 15605 15613 15628 15635
				15642 15661 15725 15741
SMBU40	LZSO	FM 12-XI	00,06,12,18	15501 15505 15511 15514 15526 15530 15533 15535 15550 15561 15562 15600 15601 15605 15613 15628 15635
				15642 15661 15725 15741
UGBU20	LZSO	FM 32-IX	12	15614
UQBU20	LZSO	FM 32-IX	12	15614

Name of Country: CROATIA
 Compiling or Editing Centre: ZAGREB

DATE: 23/12/1998

Amendments:

SMRH10	LDZM	FM 12-XI	00,06,12,18	14240 14258 14279 14307 14330 14445 14474
SMRH21	LDZM	FM 12-XI	00,06,12,18	14240 14241 14258 14279 14307 14330 14431 14444 14445 14474