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No. W/DIS

Geneva, 15 January 1983

Annexes: 4

Subject: Monthly letter on the operation of the World Weather Watch (WWW)
and Marine Meteorological Services (MMS) (January 1983)

Action required: To be noted and brought to the attention of appropriate operational
units

Dear Sir/Madam,

As indicated in my letter PR-3398 of 26 March 1982, all the information on changes to the operation of the World Weather Watch is now to be assembled and distributed by the Secretariat on a monthly basis to facilitate updating and follow-up action.

It has been found convenient to include in the monthly letter a new annex (Annex V) providing operational information in respect of the Marine Meteorological Services (MMS) and related oceanographic activities in view of their close relationship with the WWW programme.

Attached, you will find annexes providing the latest WWW operational information on WWW and MMS. Those items and sub-items for which information is provided are listed below:

Annex I - Global Observing System

- A. GOS regulatory or guidance material
 2. Guidance material on instruments and observing methods
- B. Changes in global or regional components of WWW plan
 1. Regional basic synoptic networks
 - 1.1 New stations
- C. Information on operational status of elements of the surface-based sub-system
 1. Publication No. 9, Volume A - Stations
 - 1.1 New stations
 - 1.2 Deleted stations
 - 1.3 Changes to existing stations

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-3516)
Directors of Meteorological Services of non-Member countries (MC-2240)
Presidents and Vice-Presidents of Regional Associations (P.RA-1026)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1099)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

Annex II - Global Data-processing System

- B. Information on operational status of GDPS including changes to WMO Publication No. 9 - Volume B
 - 2. RMC output products
 - 2.1 New products

Annex III - Global Telecommunication System

- A. GTS regulatory or guidance material
 - 1. Guidance material on meteorological telecommunications
- B. Updating of Manual on GTS in respect of exchange lists
 - 1. Global exchange lists (Manual on the GTS, Volume I, Part I, Attachment I-4)
 - 2. Regional exchange lists (Manual on the GTS, Volume II, Region II, Attachment AI-I)
- C. Information on the Operations of GTS
 - 1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)
 - 1.3 Changes to bulletins
 - 2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
 - 2.3 Changes in schedules/technical specifications
 - 6. Coastal radio stations (Publication No. 9, Volume D, Part B)
 - 6.1 New stations

Annex V - Marine Meteorological Services (MMS)
and related oceanographic activities

A. Regulatory material

1. Updating of the Manual on MMS

B. Guidance material


1. Updating of the Guide to MMS
2. Reports on MMS
3. Other publications

C. Information on the operation of Marine Meteorological Services

1. Broadcasts for shipping and other marine activities
(Publication No. 9, Volume D, Part A)
 - 1.3 Changes in schedules/technical specifications

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated. If you wish to receive additional copies of the monthly circular letter, please inform me accordingly.

Yours faithfully,



for the Secretary-General
(G.K. Weiss)
Director
World Weather Watch Department

Annex I - Global Observing System

Date: 15 January 1983

A. GOS regulatory or guidance material

2. Guidance material on instruments and observing methods

The following reports are the latest issued in the series "Instruments and Observing Methods" in the framework of the activities of the Commission for Instruments and Methods of Observation (CIMO). Copies may be obtained from the WMO Secretariat on request.

- No. 9 - Papers presented at the Second WMO Technical Conference on Instruments and Methods of Observation (TECIMO-II), Mexico City, 13-17 October 1981
- No. 10 - Humidity Measurement - Radiation Effects on the WMO Reference Psychrometer in the field
- No. 11 - Upper-air Data Compatibility - WMO Catalogue of Radiosondes in use by Members
- No. 13 - Meteorological Balloons - The use of Hydrogen for inflation of Meteorological Balloons

B. Changes in global or regional components of WWV plan

1. Regional basic synoptic networks

1.1 New stations

Region III

84347	HUAMBOS	(06°27'S, 78°58'W)	
84505	SANTIAGO DE CHUCO	(08°08'S, 78°10'W)	
84545	LLATA	(09°33'S, 76°47'W)	
84567	PUERTO BERMUDEZ	(10°18'S, 74°54'W)	
84570	CERRO DE PASCO	(10°41'S, 76°15'W)	(surface observations)
84600	MATUCANA	(11°50'S, 76°23'W)	
84670	QUILLABAMBA	(12°53'S, 72°44'W)	
84680	CASTROVIRREYNA (SINTO)	(13°17'S, 75°19'W)	
84695	ANTABAMBA	(14°22'S, 72°53'W)	
84710	YAURI	(14°47'S, 71°25'W)	

C. Information on operational status of elements of the surface-based sub-system

1. Publication No. 9, Volume A - Stations

1.1 New stations

47136	ANDONG	3634N	12842E	142	139	X X X X X X X X /
47170	WANDO	3418N	12633E	12	15	X X X X X X X X /
06169	GNIBEN	5600N	1117E	-	4	X X X X X X X X /
07107	BRIGNOGAN	4841N	0420W	22	20	. . X . X . X /
07624	MAUROUX	4355N	0051E	253	252	. . X X X X X /

1.2 Deleted stations

07442 PUY DE DOME /

1.3 Changes to existing stations

02446	VASTERAS/HASSLO	. . X X X X X X /
87450	LA CRUZ AERO /
87572	MARIANO MORENO AERO /

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5. Information on operational status of GDPS including changes to WMO Publication No. 9 - Volume B

2. RMC output products

2.1 New products

The RMC Bracknell has introduced operationally new forecast models (15 levels) for use on its Cyber 205 computer. Thus new forecast products can be made available every day:

- (a) from a limited area fine-mesh model (grid length approximately 75 km) at about 0330 and 1530 GMT;
- (b) from a global coarse-mesh model (grid length approximately 150 km) at about 0500 and 1700 GMT

The new products can be distributed on the GTS in GRID code form as from 1 February 1983. The RMC Bracknell also makes available, for distribution by facsimile, subjective forecast charts based on numerical guidance.

The table below shows the series of new products that the RMC Bracknell will be in a position to distribute as from 1 February 1983. To enable RMC Bracknell to assess the demand for these products, RMCs and NMCs in Region VI are invited to make known their requirements to the following address with a copy to the WMO Secretariat (WMO circular letter EUR-462 of 14 January 1983 refers):

Mr. C. R. Flood
AD Met O (CF)
Meteorological Office
London Road
Bracknell
Berkshire RG12 2SZ
England

List of Forecast Products available from RMC Bracknell

Legend: * represents a field currently broadcast
x represents a field which could be made available if required

1. FINE-MESH

Field	Level	Validation Times						
		0	6	12	18	24	30	36
Pressure	Surface	x	x	x	x	x	x	x
Precipitation	Surface	x	x	x	x	x	x	x
Height	850 hPa	x	x	x	x	x	x	x
	500	x	x	x	x	x	x	x
Wind	850 hPa	x	x	x	x	x	x	x
	500	x	x	x	x	x	x	x
Temperature	850 hPa	x	x	x	x	x	x	x
	500	x	x	x	x	x	x	x

Coded bulletins will cover two areas spanning 32.5°N to 75°N, from 35°W to 0° (area X) and from 0° to 35°E (area Y), on a latitude-longitude grid with a resolution of 2.5°.

2. COARSE-MESH

Validation Times

Field	Level	0	12	18	24	30	36	48	72	96	120
Pressure	Surface	*	•	x	•	x	*	*	*	x	x
Height	850 hPa	x	•	x	•	x	*				
	700	x	•	x	•	x	*				
	500	*	x	x	•	x	*	•	•	x	x
	400			x	x						
	300	•	x	*	*	x	x				
	250	*		•	•						
	100	x	x	x	x	x	x				
Wind	850 hPa	x	x	x	x	x	x				
	700	x	x	x	x	x	x				
	500	x	x	x	x	x	x				
	400			x	x						
	300	x	x	x	x	x	x				
	250			x	x						
	100	x	x	x	x	x	x				
Temperature	850 hPa	x	x	x	x	x	x				
	700	x	x	x	x	x	x				
	500	x	x	x	x	x	x				
	400			x	x						
	300	x	x	x	x	x	x				
	250			x	x						
	100	x	x	x	x	x	x				

Coded bulletins cover two areas spanning 25°N to 75°N, from 45°W to 0° (area N) and 0° to 45°E (area O), on a latitude-longitude grid with a resolution of 2.5°.

3. SUBJECTIVE FORECAST CHARTS

(a) 24-hour forecasts

	Data Time	Validation Time
	GMT	24
Surface pressure	0000	*
	0600	*
	1200	•
	1800	•

(b) Longer period forecasts

	Data Time	Validation Times			
	GMT	48	72	96	120
Surface pressure and 1000-500 hPa thickness	0000	*	*		
	1200	x	x	x	x

Charts cover Europe, the North Atlantic, Greenland and eastern Canada.

A. GTS regulatory or guidance material

1. Guidance material on meteorological telecommunications

The following additional contributions for guidance material on meteorological telecommunications, which will assist Members in developing their meteorological telecommunication centres and circuits, are now available in the Secretariat. Contributions of a length up to 10 pages could be ordered from the WMO Secretariat. Contributions of a length exceeding 10 pages should be ordered directly from the source.

<u>Distribution No.</u>	<u>Topic</u>	<u>Source</u>	<u>Available in (Language)</u>	<u>No. of Pages</u>
12	Description of Automated Centres	Japan Meteorological Agency	English	16
13	Coded Digital Facsimile (Chart) Transmitter and Receiver	Japan Meteorological Agency	English	12
14	Telecommunications aspects of the geostationary Meteorological Satellite (GMS) system of Japan	Japan Meteorological Agency	English	11

B. Updating of Manual on GTS in respect of exchange lists

1. Global exchange lists (Manual on the GTS, Volume I, Part I, Attachment I-4)

2. Regional exchange lists (Manual on the GTS, Volume II, Region II, Attachment AI-I)

New index numbers came into effect as from 1 January 1983 for all synoptic stations in the Arabian peninsula, except Saudi Arabian stations north of latitude 23°N. A consolidated list showing old and new index numbers was given in the September 1982 monthly letter, Annex I, Item A.1. Consequent changes to the global and regional exchange lists are incorporated in Amendment No. 28 to the GTS Manual issued in January 1983.

C. Information on the operations of GTS

1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)

1.3 Changes to bulletins

Insert station index numbers: 47136 and 47170
in the following bulletins:

SMK020 RKSL (23000)
SIK021 RKSL (23011) /.

2. Transmission schedules (Publication No. 9, Volume C, Chapter II)

2.3 Changes in schedules/technical specifications

(i) changes in schedules

VI-iii Bracknell (GFA and GFE) radio-facsimile broadcasts effective 1.2.83 :

(a) Surface analysis charts ASXX EGRR (0000,0600,1200,1800) will be transmitted at 0341, 0941, 1541 and 2141 GMT instead of 0345, 0945, 1545 and 2145 GMT.

(b) Surface prognosis charts FSXX EGRR (0000,0600,1200,1800) will be transmitted at 0431, 1031, 1631, 2231 GMT instead of 0433, 1036, 1636 and 2233 GMT /

VI-iii Bracknell (GFE) radio-facsimile broadcast effective 1.2.83 :

chart AXXX EGRR (5-day mean sea temp.) will be transmitted at 1021 GMT instead of 1025 GMT /

6. Coastal radio stations (Publication No. 9, Volume D, Part B)6.1 New stations

DAMMAM RADIO (Saudi Arabia) (HZG) (26°26'N, 50°06'E)

Accepting ships' weather reports and oceanographic reports addressed to METEO Jeddah

Hours of operations: 0000-2400

<u>Class of emission</u>	<u>Receiving frequencies</u>	<u>Transmitting frequencies</u>	
A1A	500 kHz	500 kHz	
A1A	channels 6,15	4253.5 kHz	
A1A	channels 6,15	6364.5 kHz	
A1A	channels 6,15	8484.5 kHz	
A1A	channels 6,15	12658.2 kHz	
A1A	channels 6,15	16860.8 kHz	
A1A	channels 6,15	22338.2 kHz	
F1B	2107.3 kHz	2616.3 kHz	
F1B	4172.5 kHz	4352 kHz	
F1B	6260.5 kHz	6498.5 kHz	
F1B	8346 kHz	8707 kHz	
F1B	12496 kHz	13076 kHz	
F1B	16664.5 kHz	17201.5 kHz	
F1B	22220.2 kHz	22571 kHz	
J3E	1956.6 kHz	1780 kHz	
J3E	2002 kHz	1825 kHz	
A2H	2170.5 kHz	2170.5 kHz	
A2H, A3E, H3E	2182 kHz	2182 kHz	
A3E, J3E	4078.5 kHz	4372.9 kHz	
	4087.8 kHz	4382.2 kHz	
	4125 kHz	4419.4 kHz	
A3E, J3E	6200 kHz	6506.4 kHz	
	6206.2 kHz	6512.6 kHz	
	6215.5 kHz	6521.9 kHz	
A3E, J3E	8216.7 kHz	8740.6 kHz	
	8226 kHz	8749.5 kHz	
	8257 kHz	8780.9 kHz	
A3E, J3E	12333.1 kHz	13103.9 kHz	
	12392 kHz	13162.8 kHz	
	12398.2 kHz	13169 kHz	
A3E, J3E	16463.1 kHz	17236 kHz	
	16484.8 kHz	17257 kHz	
	16522.0 kHz	17294.9 kHz	
A3E, J3E	22062 kHz	22658 kHz	
	22065.1 kHz	22661.1 kHz	
	22093 kHz	22689 kHz	
F3E	156.80 MHz	156.80 MHz	(Dammam Radio)
	157.25 MHz	161.85 MHz	
	157.40 MHz	162.00 MHz	
F3E	157.20 kHz	161.80 MHz	(Jubail Radio)
	157.30 kHz	161.90 MHz	
F3E	157.15 MHz	161.75 MHz	(Khafji Radio)
	157.35 MHz	161.95 MHz	

Date: 15 January 1983

A. Regulatory material

1. Updating of the Manual on MMS

Areas of responsibility for the issue of weather and sea bulletins for high seas

Effective 1 July 1982 responsibility for the following area is transferred from Sri Lanka to Mauritius:

"Equator to 05°S between 60°E and 95°E and from 05°S to 15°S between 70°E and 95°E"

Ref. Paragraph 3.2.3 of the General Summary of EC-XXXIV

B. Guidance material

The following guidance material, issued in the framework of the activities of the Commission for Marine Meteorology (CMM), will assist Members in developing their national programmes.

1. Updating of the Guide to MMS

The second edition of the Guide to Marine Meteorological Services will be distributed to Members in the near future. The Guide, which has been completely revised, contains many examples of national marine meteorological products.

2. Reports on MMS

The following reports have so far been published in the series "Marine Meteorology and related oceanographic activities." Copies may be obtained from the WMO Secretariat on request.

- No. 1 - Precipitation Measurement at Sea (G. Olbrück)
- No. 2 - Investigation of Contemporary Methods of Measuring Sea Surface and Surface-Layer Temperatures (F.S. Terziev)
- No. 3 - Review of Reference Height for and Averaging Time of Surface Wind Measurements at Sea (F.W. Dobson)
- No. 4 - Intercalibration of Surface-Based and Remotely Sensed Data (Except Sea Surface Temperature Data) to be Used in Marine Applications (E. Paul McClain)
- No. 5 - The Automation of Observational Methods on Board Ship (M. Yasui)
- No. 6 - Report on the Results of an Enquiry on Marine Meteorological Services Products
- No. 7 - Proceedings of WMO Technical Conference on Automation of Marine Observations and Data Collection
- No. 8 - Summary of WMO Technical Conference on Automation of Marine Observations and Data Collection

3. Other publications

Copies of the reports of the following meetings may be obtained from the WMO Secretariat on request:

- First WMO/INMARSAT Consultative Meeting, London 14-16 September 1982
- Study Group Meeting on the Provision of Marine Meteorological Information to Shipping, Geneva, 20-24 September 1982
- Fourth session of the CMM Working Group on Sea Ice, Geneva, 25-29 October 1982
- Second Meeting on Argos Joint Tariff Agreement, Geneva, 23-26 November 1982

C. Information on the operation of Marine Meteorological Services

1. Broadcasts for shipping and other marine activities (Publication No. 9, Volume D, Part A)

1.3 Changes in schedules/technical specifications

(i) changes in schedules:

Ai-VI Group D, Quickborn/Pinneberg also broadcasts in clear (German) weather and sea bulletins for the Mediterranean, in Morse at 1448-1510, 2030-2050 GMT and by RTT at 1500-1515, 2030-2045 GMT
