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W/OIS

GENEVA, 31 March 1992

Annexes: 5

Subject: Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) – March 1992

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

Dear Sir/Madam,

As you are aware, all the information on changes to the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) is being assembled and distributed by the Secretariat on a monthly basis to facilitate updating and follow-up action.

In this connection, please find attached the annexes providing the latest operational information on WWW and MMS. Those items and sub-items for which information is provided are listed below:

### ANNEX I – Global Observing System

#### **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
  - 1.5 Temporary changes

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4724)  
 Directors of Meteorological Services of non-Member countries (MC-2464)  
 Presidents and Vice-Presidents of Regional Associations (P.RA-1288)  
 Presidents and Vice-Presidents of Technical Commissions (P.TC-1405)  
 Chairmen of CBS Working Groups  
 Secretary-General of ICAO  
 Director-General of IATA  
 Secretary of IOC  
 Director-General of ASECNA  
 Director of ECMWF

**ANNEX I – Global Observing System (cont.)**

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

4. Automatic marine stations
  - 4.1 Canada
    - 4.1.1 Moored Buoys
    - 4.1.2 Drifting Buoys
  - 4.2 United States of America
    - 4.2.1 Moored Buoys
    - 4.2.2 Drifting Buoys
5. ARGOS service
  - 5.1 ARGOS monthly status report
  - 5.2 TOGA programme
7. Feed-back from Members to the Secretariat on any changes in the observing network

**D. Information on operational status of space sub-system**

**ANNEX II – Global Data-processing System**

**A. GDPS regulatory or guidance material**

**ANNEX III – Global Telecommunication System**

**C. Information on the operation of the GTS**

1. Catalogue of Meteorological Bulletins (Publication No. 9, Volume C, Chapter I)
  - 1.5 Bulletins for oceanographic data

**E. Status report on WWW implementation**

**ANNEX IV – Codes**

**B. Codes**

1. Global practices
2. Regional practices
  - 2.3 Changes to codes
3. National practices
  - 3.3 Changes to codes or procedures

**ANNEX V – Marine Meteorological Services (MMS)**  
**and related oceanographic activities**

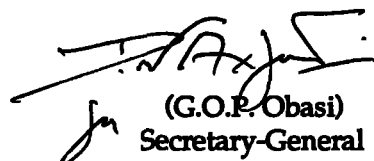
**C. Information on the operation of Marine Meteorological Services**

2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C<sub>1</sub>)

The CBS Advisory Working Group recommended that a special table should be added to the monthly letter to report changes of the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations. You will note, therefore, that a new item, number 7, "Feed-back from Members to the Secretariat on any changes in the observing network" has been added to Annex I - Global Observing System.

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 the Secretariat accordingly.

Yours faithfully,

  
(G.O.P. Obasi)  
Secretary-General

# ANNEX I - Global Observing System

Date: March 1992

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

### 1. Publication No. 9, Volume A - Stations

#### 1.1 *New stations*

Index No.	Name	Latitude	Longitude	Elevation		Pressure Level	Surface observations							Obs. H	Upper-air				Re- marks	
				HP	H/HA		00	03	06	09	12	15	18	21	Obs. S	00	06	12		18
10267	KYRITZ	52° 56 'N	12° 25 'E	42	40		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
10286	WOLDEGK	53° 28 'N	13° 37 'E	-	118		.	.	X	X	X	.	.	.		.	.	.	.	
10551	SUHL	50° 37 'N	10° 40 'E	505	505		.	.	X	X	X	.	.	.	H05-14	.	.	.	.	
10671	COBURG	50° 17 'N	10° 59 'E	323	322		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
10838	ULM	48° 23 'N	09° 57 'E	571	567		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
10870	MUENCHEN, FLUGHAFEN (effective 17.5.92)	48° 21 'N	11° 47 'E	448	448		X	X	X	X	X	X	X	X	S00-24	.	.	.	.	
38353	BISHKEK	42° 48 'N	74° 30 'E	756	-	850hPa	X	X	X	X	X	X	X	X		RW	.	RW	.	
65378	KOUMA-KONDA	06° 57 'N	00° 35 'E	641	643		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
74001	REDSTONE ARSENAL, AL	34° 36 'N	86° 38 'W	175	-		.	.	.	.	.	.	.	.		.	.	.	.	
89002	NEUMAYER (effective 1.4.92)	70° 40 'S	08° 15 'W	50	50		X	X	X	X	X	X	X	X		.	.	RW	.	
93026	WHANGARURU	35° 20 'S	174° 19 'E	-	20		.	.	.	.	.	.	.	X		.	.	.	.	
93113	MUSICK-POINT	36° 50 'S	174° 54 'E	-	18		X	X	X	.	.	.	X	X		.	.	.	.	
93173	HAMILTON AWS	37° 51 'S	175° 20 'E	53	53		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
93194	ORETE POINT AWS	37° 36 'S	177° 54 'E	6	6		X	X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
93556	MOLESWORTH	42° 05 'S	173° 16 'E	-	893		.	.	.	.	.	.	.	X		.	.	.	.	
93732	TASMAN AERO	43° 46 'S	170° 08 'E	-	656		.	.	.	.	.	.	X	.		.	.	.	.	
93772	TIMARU AERODROME	44° 18 'S	171° 13 'E	-	27		.	.	.	.	.	.	.	.	H19-02	.	.	.	.	

**1.2 Deleted stations**

Index No.	Name
10318	BORGHOLZHAUSEN
10411	GELSENKIRCHEN ERLE
10671	COBURG
10714	ZWEIBRUECKEN
10838	ULM
10862	SIEGENBURG
10866	MUENCHEN-RIEM (effective 17.5.92)
38353	FRUNZE
89002	GEORG VON NEUMAYER (effective 1.4.92)
93188	PONGAKAWA
93221	TAUMARUNUI
93311	NEWPLYMOUTH
93641	LAKE COLERIDGE

**1.3 Changes to existing stations**

Index No.	Name	Surface observations								Obs. H Obs. S	Upper-air				Re- marks
		00	03	06	09	12	15	18	21		00	06	12	18	
02049	GALLIVARE FLYGPLATS	.	.	.	.	.	.	.	.		.	.	.	.	
02267	ORNSKOLDSVIK FLYGPLATS	.	.	.	.	.	.	.	.		.	.	.	.	
02293	SKELLEFTEA FLYGPLATS	.	.	.	.	.	.	.	.		.	.	.	.	
04260	FREDERIKSHAAB	X	X	.	.	X	X	X	X		.	.	.	.	
08348	CIUDAD REAL	X	X	X	X	X	X	X	X		.	.	.	.	
10156	LUEBECK-BLANKENSEE	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10184	GREIFSWALD	X	X	X	X	X	X	X	X	H00-24	RW	RW	RW	RW	
10235	SOLTAU	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10325	BAD SALZUFLEN	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10365	GENTHIN	.	.	X	X	X	.	.	.		.	.	.	.	
10384	BERLIN-TEMPELHOF (UPPER-AIR STATION)	.	.	.	.	.	.	.	.		.	.	RW	.	
10444	GOETTINGEN	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10486	DRESDEN-WAHNSDORF	.	.	.	.	.	.	.	.		RW	W	RW	.	
10552	SCHMUECKE	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10742	OEHRINGEN	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
10818	KLIPPENECK	.	.	X	X	X	X	X	X	H05-21	.	.	.	.	
10908	FELDBERG/ SCHWARZWALD	X	X	X	X	X	X	X	X	H03-24	.	.	.	.	
10980	WENDELSTEIN	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
38613	DZALAL-ABAD	X	X	X	X	X	X	X	X		.	.	.	.	
65361	SOKODE	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
65387	LOME	X	X	X	X	X	X	X	X	H00-24	P	.	P	.	
68029	KASANE	.	X	X	X	X	X	.	.		.	.	.	.	
93127	ROTOROA ISLAND	.	.	.	.	.	.	.	X		.	.	.	.	
93149	ONEMANA	X	X	.	.	.	.	X	X		.	.	.	.	

**1.3 Changes to existing stations (cont.)**

Index No.	Name	Surface observations								Obs. H Obs. S	Upper-air				Re- marks
		00	03	06	09	12	15	18	21		00	06	12	18	
93185	TAURANGA AERODROME	.	.	.	.	.	.	.	.	H19-06	.	.	.	.	
93210	TE KUITI	X	X	.	.	.	.	.	X		.	.	.	.	
93223	TAUMARUNUI AFFCO	.	.	X	X	X	X	.	.		.	.	.	.	
93243	TAUPO AERODROME	X	X	.	.	.	.	.	X	H20-07	.	.	.	.	
93246	ROTORUA AERODROME	.	.	.	.	.	.	.	.	H18-06	.	.	.	.	
93291	GISBORNE AERODROME	.	.	.	.	.	.	.	.	H19-08	W	.	W	W	
93308	NEWPLYMOUTH AERO.	.	.	.	.	.	.	.	.	H17-07	W	.	W	W	
93332	TUROA MT RUAPEHU	.	07	.	.	.	.	.	.		.	.	.	.	
93374	NAPIER HARBOUR	X	.	X	X	X	X	X	.		.	.	.	.	
93383	MOHAKA	X	X	.	.	.	.	X	X		.	.	.	.	
93401	OHAKEA	X	X	X	.	.	.	X	X	H17-06	.	.	.	.	
93460	WAIONE	X	.	X	.	.	.	X	X		.	.	.	.	
93477	MARTINBOROUGH	X	.	.	.	.	.	X	X		.	.	.	.	
93490	PORANGAHAU	.	.	X	.	.	.	X	X		.	.	.	.	
93497	CASTLEPOINT	.	.	X	.	.	.	X	.		.	.	.	.	
93516	WESTPORT HARBOUR	X	X	.	.	.	.	.	X		.	.	.	.	
93545	NELSON AERODROME	.	.	.	.	.	.	.	.	H18-08	.	.	.	.	
93561	STEPHENS ISLAND	X	.	X	.	.	.	X	X		.	.	.	.	
93614	HOKITIKA AERODROME	.	.	.	.	.	.	.	.	H17-00	W	.	W	W	
93761	HORORATA	X	.	.	.	.	.	X	.		.	.	.	.	
93830	QUEENSTOWN AERODR.	X	X	.	.	.	.	.	X	H19-06	.	.	.	.	
93865	GORE	.	.	.	.	.	X	X	.		.	.	.	.	
93890	DUNEDIN AERODROME	.	.	.	.	.	.	.	.	H00-18	.	.	.	.	
93986	CHATHAM ISLAND	X	.	.	.	.	.	X	X		RW	.	.	.	

**1.5 Temporary changes**

- *Notification from Portugal:*

As from 1 March 1992 the 0000 UTC upper-air observations were resumed at station 08579 LISBOA/GAGO COUTINHO. However, due to technical problems the transmission failed on March 1st, 2nd, 9th and 10th.

**4. Automatic marine stations**

**4.1 Canada**

Data from moored and drifting buoys are collected via geostationary and polar orbiting satellites respectively. Meteorological reports from moored buoys using FM 13-IX SHIP code are distributed on the GTS from the Direct Readout Station located in Vancouver, B.C. Reports from drifting buoys are received at the ARGOS Local User Terminals in Edmonton and Toronto and distributed on the GTS using the FM 18-IX DRIFTER code.

Legend - Observed or technical parameters

Column	Parameters	Column	Parameters
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Air pressure	7	Wave spectra
4	Pressure tendency	8	Peak wind gust

4.1.1 *Moored Buoys*

## • North-east Pacific Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 4 February 1992		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
46004	07180	50°56'N	135°52'W	X	X	X	X	X	X	X	X	.
46036	07181	48°18'N	133°51'W	X	X	X	X	X	X	X	X	.
46145	08676	54°23'N	132°26'W	X	X	X	X	X	X	X	X	.
46181	07185	53°49'N	128°51'W	X	X	X	X	X	X	X	X	.
46183	07192	53°37'N	131°06'W	X	.	X	X	X	X	X	X	.
46184	07182	53°56'N	138°48'W	X	.	X	X	.	X	X	X	.
46185	07187	52°25'N	129°48'W	X	X	X	X	X	X	X	X	.
46204	07195	51°23'N	128°45'W	X	X	X	X	X	X	X	X	.
46205	07196	54°10'N	134°20'W	X	X	X	X	X	X	X	X	.
46206	07193	48°50'N	126°00'W	X	X	.	.	X	X	X	X	.
46207	08677	50°52'N	129°55'W	X	X	X	X	X	X	X	X	.
46208	07194	52°30'N	132°42'W	X	X	X	X	X	X	X	X	.

## • North-west Atlantic Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 30 January 1992		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
44131	03479	45°54'N	51°00'W	X	X	X	X	X	X	X	X	.
44137	05579	41°12'N	61°08'W	X	X	X	X	X	X	X	X	.
44138	05577	44°14'N	53°38'W	X	X	X	X	X	X	X	X	.
44139	03448	44°19'N	57°21'W	X	X	X	X	X	X	X	X	.
44140	05576	42°44'N	50°36'W	.	X	X	X	X	X	X	X	.
44141	03449	42°04'N	56°09'W	X	X	X	X	X	X	X	X	.
44142	05578	42°30'N	64°12'W	X	X	X	X	X	X	X	X	.
44143	03434	45°54'N	49°59'W	X	X	X	X	X	X	X	X	.

## • Great Lakes:

WMO buoy Identifier	ARGOS Identifier	Position: 29 January 1992		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
45135#	N/A	43°51'N	78°20'W	.	.	.	.	.	.	.	.	.
45137	N/A	45°20'N	80°02'W	X	X	X	X	.	.	.	.	.
45132#	N/A	42°06'N	83°05'W	X	X	X	X	.	.	.	.	.

4.1.2 *Drifting Buoys*

## • North-east Pacific Ocean:

WMO buoy Identifier	ARGOS Identifier	Position: 29 January 1992		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
46632	12511	40°42'N	129°54'W	.	X	X	X	X	.	.	X	.
46681	07135	56°06'N	152°48'W	.	X	X	X	X	.	.	X	.
46682	07136	45°12'N	151°36'W	.	X	X	X	X	.	.	X	.
46684	07137	44°12'N	145°42'W	.	X	.	.	X	.	.	X	.

4.1.2 *Drifting Buoys (cont)*

- North-east Pacific Ocean (cont.):

WMO buoy Identifier	ARGOS Identifier	Position: 29 January 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
46687	07138	31°36'N	149°24'W	.	X	X	X	X	.	.	X
46692	07139	48°54'N	133°12'W	.	.	X	X	X	.	.	X
46704	07128	37°48'N	127°54'W	.	X	X	X	X	.	.	X
46706	07130	31°12'N	135°06'W	.	X	X	X	X	.	.	X
46708	07132	51°30'N	149°24'W	.	X	X	X	X	.	.	X
46699	07146	50°36'N	156°54'W	.	X	X	X	X	.	.	X

- Arctic Icepack:

WMO buoy Identifier	ARGOS Identifier	Position: 4 February 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
NIL	-	-	-								

4.2 *United States of America*

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the March 1992 Data Platform Status Report of the Data Buoy Centre of the National Oceanic and Atmospheric Administration (NOAA). Data from moored buoys and platforms are collected by geostationary meteorological satellites 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.

Legend - Observed or technical parameters

Column	Parameters	Column	Parameters
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Air pressure	7	Wave spectra
4	Pressure tendency	8	Peak wind gust

4.2.1 *Moored Buoys*

WMO buoy Identifier	ARGOS Identifier	Position: 5-12 March 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
32302		18°00'S	85°06'W	X	X	X	X	X	X	X	X
41001**		34°54'N	73°00'W	X	X	X	X	X	X	X	X
41002**		32°18'N	75°12'W	.	.	.	.	.	.	.	.
41006**		29°18'N	77°24'W	X	X	X	X	X	X	X	X
41008		30°42'N	81°06'W	X	X	X	X	X	X	X	X
41009		28°30'N	80°12'W	X	X	X	X	X	X	X	X
41010		28°54'N	78°30'W	X	X	X	X	X	X	X	X
42001**		25°54'N	89°42'W	X	X	X	X	X	X	X	X
42002**		25°54'N	93°36'W	X	X	X	X	X	X	X	X
42003**		25°54'N	85°54'W	X	X	X	X	X	X	X	X
42007		30°06'N	88°48'W	X	X	.	X	X	.	.	.
42019		27°54'N	95°00'W	X	X	X	X	X	X	X	X

\*\* Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

\* Sensor / system failure.



## 4.2.1 Moored Buoys (cont.)

WMO buoy Identifier	ARGOS Identifier	Position: 5-12 March 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
42020		27°00'N	96°30'W	X	X	X	X	X	X	X	X
42025		24°54'N	80°24'W	.	X	.	X	X	X	X	X
44004**		38°30'N	70°42'W	X	X	X	X	X	X	X	X
44005**		42°36'N	68°36'W	X	X	X	X	X	X	X	X
44007**		43°30'N	70°06'W	.	.	.	.	.	.	.	.
44008**		40°30'N	69°24'W	X	X	X	X	X	X	X	X
44009**		38°24'N	74°42'W	X	X	X	X	X	X	X	X
44011**		41°06'N	66°36'W	.	.	.	.	.	.	.	.
44012**		38°48'N	74°36'W	X	X	X	X	X	X	X	X
44013**		42°24'N	70°48'W	X	X	X	X	X	X	X	X
44014		36°36'N	74°48'W	X	X	X	X	X	X	X	X
44025		40°18'N	73°12'W	X	X	X	X	X	X	X	X
45001**		48°00'N	87°48'W	X	X	X	X	X	X	X	X
45002**		45°18'N	86°24'W	.	X	X	X	X	X	X	X
45003**		45°18'N	82°42'W	X	X	X	X	X	X	X	X
45004**		47°30'N	86°30'W	.	.	.	.	.	.	.	.
45005**		41°42'N	82°24'W	X	X	X	X	X	X	X	X
45006**		47°18'N	89°54'W	X	X	X	X	X	X	X	X
45007**		42°42'N	87°06'W	X	X	X	X	X	X	X	X
45008**		44°18'N	82°24'W	X	X	X	X	X	X	X	X
46001**		56°18'N	148°18'W	X	X	X	X	X	X	X	X
46002**		42°30'N	130°18'W	X	X	X	X	X	X	X	X
46003**		51°54'N	155°54'W	.	X	X	X	X	X	X	X
46005**		46°06'N	131°00'W	X	X	X	X	X	X	X	X
46006**		40°48'N	137°42'W	.	.	.	.	.	.	.	.
46011		34°54'N	120°54'W	.	.	.	.	.	.	.	.
46012		37°24'N	122°42'W	X	X	X	X	X	X	X	X
46013		38°12'N	123°18'W	X	X	X	X	X	X	X	X
46014		39°12'N	124°00'W	.	.	.	.	.	.	.	.
46022		40°42'N	124°30'W	X	X	X	X	X	X	X	X
46023		34°18'N	120°42'W	X	X	X	X	X	X	X	X
46025		33°42'N	119°06'W	X	X	X	X	X	X	X	X
46026**		37°42'N	122°42'W	X	X	X	X	X	X	X	X
46027**		41°48'N	124°24'W	X	X	X	X	X	X	X	X
46028		35°48'N	121°54'W	.	.	.	.	.	.	.	.
46029**		46°12'N	124°12'W	X	X	X	X	X	X	X	X
46030		40°24'N	124°30'W	.	.	.	.	.	.	.	.
46035		57°00'N	177°42'W	X	X	X	X	X	X	X	X
46040		44°48'N	124°18'W	.	.	.	.	.	.	.	.
46041		47°24'N	124°30'W	X	X	X	X	X	X	X	X
46042		36°48'N	122°24'W	X	X	X	X	.	X	X	X
46045		33°48'N	118°24'W	X	X	X	X	X	X	X	X
46047		32°42'N	119°36'W	.	X	X	X	X	X	X	X
46048		32°54'N	117°54'W	X	X	X	X	X	X	X	X
46050		44°36'N	124°30'W	X	X	X	X	X	X	X	X
46051		34°30'N	120°42'W	.	.	.	.	.	.	.	.
51001**		23°24'N	162°18'W	X	X	X	X	X	X	X	X
51002**		17°12'N	157°48'W	X	X	X	X	.	X	X	X
51003**		19°18'N	160°48'W	X	X	X	X	X	X	X	X
51004**		17°24'N	152°30'W	X	X	X	X	X	X	X	X
52009		13°42'N	144°42'E	X	.	X	X	X	X	X	X

• Sensor / system failure.

\*\* Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

4.2.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 11-12 March 1992		Observed or technical parameters								
		Latitude	Longitude	1	2	3	4	5	6	7	8	
16807	05133	52°S	095°E	.	X	X	.	X	.	.	.	.
16810	12309	51°S	022°E	.	X	X	.	X	.	.	.	.
17804	12300	27°S	099°E	.	*	X	.	X	.	.	.	.
17805	12304	20°S	070°E	.	*	X	.	X	.	.	.	.
17809	05125	35°S	058°E	.	X	X	.	X	.	.	.	.
17811	05569	41°S	022°E	.	*	X	.	X	.	.	.	.
17812	01981	56°S	013°E	.	X	X	.	X	.	.	.	.
17813	01978	51°S	019°E	.	X	X	.	X	.	.	.	.
17814	01968	47°S	019°E	.	X	X	.	X	.	.	.	.
17815	01965	39°S	010°E	.	X	X	.	X	.	.	.	.
17825	05129	37°S	068°E	.	X	X	.	X	.	.	.	.
33509	12307	39°S	025°E	.	X	X	.	X	.	.	.	.
33510	12308	42°S	075°E	.	X	X	.	X	.	.	.	.
33511	12302	44°S	022°W	.	X	X	.	X	.	.	.	.
33826	12296	56°S	111°E	.	X	X	.	X	.	.	.	.
33827	12297	45°S	150°E	.	X	X	.	X	.	.	.	.
33828	12298	31°S	095°E	.	X	X	.	X	.	.	.	.
33831	01967	43°S	008°W	.	X	X	.	X	.	.	.	.
53822	05132	09°S	117°E	.	X	X	.	X	.	.	.	.
54829	06762	34°S	140°W	.	*	X	.	X	.	.	.	.
54830	06763	38°S	093°W	.	*	X	.	X	.	.	.	.
54833	06586	44°S	136°W	X	X	X	.	X	.	X	X	.
54835	06731	37°S	136°W	.	X	X	.	X	.	.	.	.
54836	05128	34°S	154°W	.	X	X	.	X	.	.	.	.
54837	05135	26°S	163°W	.	X	X	.	X	.	.	.	.
54838	08823	43°S	143°W	.	X	X	.	X	.	.	.	.
54839	12312	39°S	137°W	.	X	X	.	X	.	.	.	.
54840	05120	53°S	122°W	.	X	X	.	X	.	.	.	.
54842	05122	49°S	143°W	.	X	X	.	X	.	.	.	.
54843	05134	47°S	125°W	.	X	X	.	X	.	.	.	.
54844	05123	49°S	121°W	.	X	X	.	X	.	.	.	.
54846	01969	50°S	173°W	.	.	.	.	.	.	.	.	.
55803	05136	53°S	088°W	.	X	X	.	X	.	.	.	.
56835	12291	27°S	086°E	.	X	X	.	X	.	.	.	.
56836	12293	29°S	098°E	.	X	X	.	X	.	.	.	.
56837	05116	06°S	107°E	.	*	X	.	*	.	.	.	.
56838	12294	18°S	082°E	.	X	X	.	X	.	.	.	.
56839	05124	26°S	087°E	.	X	X	.	X	.	.	.	.
56840	12292	54°S	075°E	.	X	X	.	X	.	.	.	.
74801	01980	74°S	041°W	.	X	X	.	*	.	.	.	.
74802	01983	68°S	012°W	.	X	X	.	X	.	.	.	.
74803	01966	60°S	004°E	.	X	X	.	X	.	.	.	.

\* Sensor / system failure.

## 5. ARGOS service

### 5.1 ARGOS monthly status report

As at 2 March 1992 the ARGOS service was handling reports from 900 drifting buoys, 225 moored buoys, 2 balloons, 32 ships, 324 animal trackings, 411 fixed stations, 93 boats and 100 miscellaneous platforms. DRIFTER reports from 88 drifting buoys and BATHY reports from 25 selected ships were transmitted to the RTH Paris and DRIFTER reports from 396 drifting and moored buoys (including ATLAS Buoys) were transmitted to the WMC Washington for insertion into the GTS. The list of platforms reporting through ARGOS and distributed over the GTS follows:

Operating country	WMO Identifier/ Call sign	ARGOS Identifier	Operating country	WMO Identifier/ Call sign	ARGOS Identifier
Australia	55512	00416	Canada (continued)	46646	01186
	55513	00421		46647	01187
	55514	00413		46648	01188
	55515	00415		46649	01311
	55516	00417		46650	01424
	56001	04873		46651	01318
	56501	02934		46652	01319
	56502	02936		46655	01334
	56503	08035		46656	08090
	56504	08036		47554	02469
	56505	08037		47558	11249
	56506	04875	47559	04004	
	56507	04876	France	13531	05832
	56508	04877		44601	10103
	56548	04871		62501	10115
	56549	04872		62502	10106
	9VBZ *	09194		62503	05834
	9VUU *	09190		62514	05831
	9VWM *	09191		64516	05796
	GYRW *	09197		C6HL *	04709
	GYSA *	09189		DIDA *	08742
	GYSE *	09199		ELEH *	08747
	S6FK *	09193		ELIL *	04719
	VJBQ *	09192	ELIS *	04703	
	VJDP *	09198	FITA *	04734	
	Canada	21551	01333	FNCZ *	08744
21552		01315	FNED *	08748	
21553		01332	FNGB *	04733	
44682		01057	FNGS *	04707	
44684		03321	FNZO *	04717	
44685		10054	FNZP *	04715	
44686		10056	FPYO *	04729	
44755		03319	HPEW *	04720	
44756		03320	ZDAZ *	04714	
46643		01185	ZDBE *	04718	
46644		01198			
46645		01199			

\* PTT's transmitting at irregular intervals

## 5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier	Operating country	WMO Identifier/ Call sign	ARGOS Identifier	
Germany	48601	11240	United States of America (continued)	13005	05141	
	48602	11241		13901	14455	
	48604	11243		13902	14456	
	48605	11244		13903	14457	
	48606	11245		13904	14445	
	48607	11246		13905	14447	
	71042	03317		13906	14460	
	71524	03315		13907	14461	
	71545	09353		13908	14462	
	71546	09354		13909	14463	
	71547	09355		13911	14448	
	71549	09361		13912	14449	
	71550	09356		13913	14450	
	71551	09357		13914	14452	
	71553	09359		14464	14464	
				14804	08845	
	Netherlands	44761		06669	15103	15103
		64611		08521	15700	15700
		64612		08522	16807	05133
64613		08523	16809	12314		
64614		08524	16810	12309		
			17804	12300		
New Zealand	55580	06439	17805	12304		
	55582	07175	17809	05125		
	55583	07179	17811	05569		
	55584	07178	17812	01981		
	55585	07177	17813	01978		
	55586	07176	17814	01968		
			17815	01965		
			17825	05129		
Norway	63531	03704	21524	12701		
	65591	06666	21525	12711		
	65592	03039	21530	14292		
	65593	03038	21532	12696		
			21533	12695		
South Africa**	14523	06730	21573	04648		
	17522	14063	21574	14290		
	17523	14065	21575	14594		
	17525	14064	21576	14595		
	17526	14067	21577	14596		
	17536	14066	21901	15537		
	33021	09087	21902	15536		
			22901	14980		
			22902	14981		
			22905	14972		
United Kingdom	62805	06285	22906	14984		
	62695	01250	23502	14661		
	64043	06271	23503	14601		
			23505	14598		
United States of America	11318	14356	23507	14620		
	12505	14652	23508	14593		
	12506	14619	23510	14623		
	13003	01649				

\*\* The Government of the Republic of South Africa has been suspended by Resolution 38 (Cg-VII) from exercising its rights and enjoying its privileges as a Member of WMO.

## 5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	23511	14624
	25537	12805
	31502	09844
	31503	14284
	31504	14649
	32315	06380
	32316	06799
	32318	06478
	32439	15604
	32512	11920
	32513	11917
	32514	11948
	32515	15648
	32516	11927
	32517	15093
	32518	15091
	32519	11905
	32520	15649
	32521	15651
	32522	15598
	32523	10809
	32524	15695
	32525	11192
	32526	15696
	32527	15697
	32529	15028
	32530	15699
	32531	15011
	32532	11897
	32533	15017
	32534	15018
	32535	15025
	32536	15026
	32538	15602
	32540	11904
	32541	15595
	32542	15596
	32544	11908
	32546	11160
	32547	15597
	32548	15599
	32549	11163
	32551	15600
	32552	11195
	32553	15603
	32554	15601
	32555	15625
	32556	11934
	32557	15626
	32558	09276
	32559	15627
	33509	12307

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	33510	12308
	33511	12302
	33826	12296
	33827	12297
	33828	12298
	33831	01967
	34901	15123
	34902	15125
	41501	14663
	41502	14664
	41506	14634
	41520	14643
	43001	06473
	43501	11919
	43502	11168
	43503	15656
	43504	11198
	43505	15657
	43506	15698
	43508	11171
	43512	14637
	43513	04645
	44514	04646
	44520	09856
	44553	11363
	44559	15138
	44560	15142
	46531	15618
	46532	15615
	46533	15619
	46534	15624
	46535	15607
	46536	15609
	46537	15612
	46538	15613
	46539	15622
	46540	15605
	46541	15643
	46542	15639
	46543	15642
	46544	15637
	46545	15640
	46546	15641
	46547	15070
	46548	15075
	46549	15076
	46550	01135
	46901	15655
	47553	11248
	48518	12800
	48520	12801
	48554	12802

5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	48555	12806
	48557	12808
	51006	06798
	51007	15814
	51008	06370
	51009	15811
	51010	06375
	51011	12529
	51014	06521
	51015	15813
	51016	15812
	51017	12527
	51018	15809
	51019	06475
	51020	06518
	51021	06369
	51023	06517
	51501	02050
51502	02051	
51504	14648	
	51506	14291
	51510	15042
	51511	15117
	51512	15089
	51513	11663
	51515	14432
	51516	11949
	51517	11676
	51518	15077
	51801	14433
	51803	15593
	51804	14434
	51805	15106
	51806	15635
	51807	15094
	51808	15647
	51809	14435
	51811	15653
	51812	15654
	51813	11924
	51814	11946
	51816	15616
	51817	15617
	51818	15110
	51819	15116
	51820	15122
	51821	11690
	51822	11870
	51823	15095
	51825	15620
	51827	11688
	51828	15015

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51829	11202
	51830	15088
	51833	11872
	51834	15124
	51835	09271
	51836	09270
	51837	15621
	51839	11700
	51840	15090
	51841	11950
	51842	11702
	51843	11703
	51844	09275
	51845	15107
	51846	11692
	51847	15027
	51849	15097
	51850	15608
	51853	15610
	51855	11705
	51856	15082
	51857	11667
	51858	15611
	51859	15606
	51861	15099
	51862	11670
	51863	15636
	51865	15638
	51866	15644
	51867	15645
	51868	11669
	51869	11674
	51870	11679
	51871	15646
	51872	11696
	51873	11699
	51874	11701
	51875	11704
	51876	11683
	51877	15073
	51878	15072
	51879	15074
	51880	15078
	51881	15080
	51882	15081
	51883	15083
	51884	15084
	51885	15086
	52001	12526
	52002	06476
	52003	12524
	52004	12528

## 5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	52006	06519
	52007	06797
	52010	06460
	52012	06471
	52302	12525
	52506	15031
	52507	15037
	52508	15104
	52509	15109
	52510	11939
	52511	11943
	52512	15023
	52513	15661
	52514	15040
	52515	15041
	52517	15108
	52518	15114
	52520	15121
	52616	15021
	52801	15035
	52802	11944
	52803	15029
	52804	15051
	52805	15012
	52807	09278
	52808	15014
	52809	15016
	52810	15701
	52811	15111
	52812	15126
	52814	15659
	52815	15660
	52816	15664
	52817	15665
	52818	15670
	52826	15668
	52866	11887
	52868	11876
	52872	11890
	52877	11883
	53801	11940
	53802	14965
	53804	14979
	53806	14991
	53807	11941
	53808	11942
	53809	11886
	53822	05132
	54829	06762
	54830	06763
	54833	06586
	54835	06731

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	54836	05128
	54837	05135
	54838	08823
	54839	12312
	54840	05120
	54842	05122
	54843	05134
	54844	05123
	54846	01969
	54901	15049
	54902	15115
	54903	15118
	54904	15020
	54905	15024
	54906	15032
	54907	15044
	54908	15129
	54909	15120
	54910	15033
	54911	15036
	54912	15101
	54913	15112
	54914	15119
	54916	15630
	54917	15631
	54918	15632
	54919	15634
	54920	15633
	55803	05136
	56835	12991
	56836	12293
	56837	05116
	56838	12294
	56839	05124
	56840	12292
	61523	14589
	61524	14614
	61525	14662
	61526	14631
	61527	14635
	61528	13654
	61529	14617
	61530	14633
	61531	14656
	61532	01724
	71561	01430
	71562	01431
	71563	01432
	71564	01433
	74801	01980
	74802	01983
	74803	01966

**5.2 TOGA programme**

List of buoys operated by France from which reports were transmitted into the GTS by the Centre for Marine Meteorology of Météo-France during March 1992, under the following abbreviated headings:

SSVX51 LFPW North Atlantic  
 SSVX55 LFPW Equatorial Pacific

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
France	51890	01620
	51891	01621
	51898	12093
	52881	01626
	52882	06650
	52883	06651
	62501	10115
	62505	14412
	62506	10119

**7. Feed-back from Members to the Secretariat on any changes in the observing network**

In view of the difficulties experienced at present in identifying non-implemented observing stations or implemented stations which are closed or suspended for a certain period, or stations making observations but not reaching their NMCs, the ninth session of the CBS Advisory Working Group recommended that a special table be added to the WWW monthly operational letter to 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.

The special table, accompanied by explanatory notes overleaf, is attached as an appendix to this annex. Members are urged to fill in this appendix, as and when appropriate, and to return it to the Secretariat before the 1st of each month to enable changes to be included in the next monthly letter.

**D. Information on operational status of space sub-system**

At 1200 UTC on 12 February 1992, NESDIS begin deriving GOES-7 SATOB winds, which are distributed from Washington on the GTS, using a new automated procedure that included assigning pressure altitude based on VAS radiance measurements and the objective analysis assimilation with the NWS numerical forecasts. The new technique provides a significantly greater number of wind measurements at the mid-level altitudes, along with increase measurements at the higher altitudes. The new wind procedure was extensively evaluated by NESDIS and the National Meteorological Center (NMC). The SATOB winds will be screened by both objective and manual quality control. This procedure replaces the manual tracking with infrared histogram pressure altitude assignment and manual quality control practiced heretofore.



## Feed-back from Members to the Secretariat on any changes in the observing network

(Explanatory Notes overleaf)

Global Exchange / Regional Exchange (delete as appropriate)

Country: \_\_\_\_\_

Station index number	Bulletin identification TTAAii CCCC	Implementation of observing programme						Alternate observing station	Remarks	
		00	03	06	09	12	15	18	21	

1. SYNOP

2. TEMP

3. PILOT

**Explanatory notes for  
Feed-back  
from Members to the Secretariat  
on any changes in the observing network**

1. 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 given in Attachment I-4 of the Manual on the GTS, Volume I for global exchange and, as applicable, Attachments AF-I, AI-1, SA-1, NA-1, PS-1 and EU-1 of the Manual on the GTS, Volume II for regional exchange.
2. For entries in these tables, the following should be taken into account:
  - (a) In the column "Station index number", the index number (IIiii) of each station should be entered in case of any changes in the observing programmes of the stations;
  - (b) In the column "Bulletin identification", the TTAAii CCCC of the abbreviated heading of the meteorological bulletins which contains reports from the station should be inserted;
  - (c) In the column "Implementation of observing programme", "X" for implementation and "-" for non-implementation should be inserted as appropriate. In order to easily identify changes in the programme, this should be marked in red;
  - (d) In the column "Alternate observing station", the index number (IIii) of an alternate observing station should be inserted in case another station is available with a view to filling gaps which are caused by suspension of observing programmes of the original station;
  - (e) The required information concerning the observing programme of the alternate station should be inserted in the next horizontal line of the original station;
  - (f) In the column "Remarks", reasons of 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.
3. These tables should be sent to the Secretariat before the 1st of the month for inclusion of the changes in the monthly operational letter, as appropriate.

## ANNEX II - Global Data-processing System

Date: March 1992

### A. GDPS regulatory or guidance material

- *Generation and Exchange of Status Messages (see also Annex III)*

1. At its first session (Geneva, 1990) the CBS Working Group on Data Management further developed the Distributed Databases Concept. In the framework of this concept the working group decided to initiate the generation and exchange of status information of NWP centres on a trial basis. CBS-Ext.(90) welcomed and supported this trial which should also investigate which data representation form should best be used for the information exchange. Although a "plain-language-message" form was seen necessary for non- or less automated centres, it is quite ill-suited for computer processing and could create problems with language barriers. In this respect the use of BUFR or BTAB might be a promising approach.

2. The working group agreed to concentrate, for the purpose of a practical demonstration, on status messages containing information about delays or non-availability of products from NWP centres. There are a variety of circumstances which might trigger status messages, e.g.:

- (a) A delay in the NWP production process caused by a serious data deficiency or a system failure in the data processing component;
- (b) An emergency, such as a failure of the environmental control, fire, flood, etc.;
- (c) A planned outage.

3. Again, for the purpose of a practical demonstration, the working group considered it best to focus on one aspect, namely (a) delays to the NWP process, and to include (b) and (c) to the extent possible. It was also decided that the delay be at least one hour in order to trigger a status message.

4. It is not feasible to issue a message in respect of each and every product in a set from a particular NWP run. Experience suggests that one product in the set should be selected as representative of the whole, or alternatively a statement concerning the delay of a model that produces the product. It would then be up to recipients to infer the delay to other products in the same set. The transmissions out of sequence of delayed products across the GTS may also add further delay at intermediate nodes; the originating NWP centre can only indicate the delay at the source. The expected length of the delay should also be contained in the status message.

5. It was agreed that Washington, Moscow, Bracknell and ECMWF (plus any other NWP centre which wishes to participate) would start to issue such status messages. Meanwhile Hong Kong, Melbourne, Prague, and Tokyo have joined and Beijing has expressed its intention to join later. The details (e.g. of which model run, etc.) must be left to their judgement. The messages are either in BTAB (with explanations given below) or plain language, at the choice of the originating centre.

6. The abbreviated bulletin heading NPXX10 CCCC YYGGgg should be used, with YYGGgg giving date/time of the origin of the message. For a BTAB message this will be followed by the BTAB identifier.

**Example of a BTAB message:**

```

NPXX10 EGRR 100115
BTAB A020
TYEA  TTAAB  CCCC  TD T1 T2 XT T1PD2
1990  XXXXXX  EGRR  10 02 15 04 //150
7777

```

**Meaning:**

The product XXXXXX, normally disseminated by EGRR on the 10th at 0215 UTC, will be delayed by 2 hours and 30 minutes.

**Where:**

A020	reference to FM 94-BUFR table A
TYEA	defines the year
TTAAB	defines a representative product
CCCC	defines the 4-letter indicator of the originating centre
TD	defines days ) of the schedules
T1	defines hours ) time of the
T2	defines minutes ) dissemination
XT	defines time significance (derived from BUFR table B and associated code table 08 021 with 04 being selected to indicate an estimated delay in time)
T1PD2	defines estimated displacement in time in minutes (selected for this example)
	T1PDD defining displacement in time in days
	T1PD1 defining displacement in time in hours

**Example of a plain-language message:**

```
NPXX10 CCCC YYGGgg
```

The [name of centre] is experiencing problems in the production of the [name of model] model. The problem is believed to be [.....].

The [name of the model], which is normally scheduled to run at [time] UTC, is now delayed until [time] UTC.

7. The trial commenced on 1 December 1990 and more than 150 status messages have since been exchanged. Meanwhile, the Joint Implementation Co-ordination Meeting on the MTN/GTS and Data Management (Geneva, April 1991) and the RA III/IV (Washington, D.C., June 1991) and the RA VI (Reading, U.K., October 1991) Implementation Co-ordination Meetings on WWW Data Management reviewed the trial. These meetings concluded that the purpose to provide timely information on problems at GDPS centres in a concise and efficient way is achievable through this procedure. There was consent at these meetings that the information exchanged is useful to the operators in WWW centres and that the number of participating centres should be increased, if possible. Hence, other WWW centres are invited and encouraged to participate in this trial.

# Annex III - Global Telecommunication System

Date: March 1992

## C. Information on the operation of the GTS

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

#### 1.5 *Bulletins for oceanographic data*

- *France: GTS Bulletin Headers used for GTS distribution of Drifting Buoy data*

Reports in code DRIFTER from meteorological and oceanographic buoys are being transmitted from the Centre for Marine Meteorology of Météo-France, Brest into the GTS in the following meteorological bulletins:

Bulletins are routed to the Service Central d'Exploitation de la Météorologie (SCEM) of Météo-France, Toulouse and actually distributed globally from this source.

T <sub>1</sub> T <sub>2</sub> A <sub>1</sub> A <sub>2</sub> ii	Approximate region or programme
SSVX51 LFPW SSVX55 LFPW	North Atlantic. Equatorial Pacific

## E. Status report on WWW implementation

- *Exchange of Status Messages (see also Annex II)*

Some GDPS centres issue status messages relating to delays to their numerical weather prediction process on a trial basis since 1 December 1991. The abbreviated headings are as follows:

ORIGINATING CENTRE:	ABBREVIATED HEADING:
WMC MELBOURNE	NPXX10 AMMC YYGGgg
RSMC TOKYO	NPXX10 RJTD YYGGgg
WMC MOSCOW	NPXX10 RUMS YYGGgg
WMC WASHINGTON	NPXX10 KWBC YYGGgg
RSMC BEIJING	NPXX10 BABJ YYGGgg
RSMC BRACKNELL	NPXX10 EGRR YYGGgg
RSMC ECMWF	NPXX10 ECMF YYGGgg
NMC HONG KONG	NPXX10 VHHH YYGGgg
RTH PRAGUE	NPXX10 OKPR YYGGgg

RTHs are requested to update their routing directories with a view to making routing arrangements for the status information messages congruent with those for the processed information issued by the respective GDPS centres.

# Annex IV - Codes

Date: March 1992

## B. Manual on Codes

### 1. Global practices

- *Notification from Ireland*

Due to technical reasons, the Irish Meteorological Service will be unable to implement regulation 12.2.4 for group 3P<sub>0</sub>P<sub>0</sub>P<sub>0</sub>P<sub>0</sub> in FM 12-IX Ext. SYNOP, until the second half of 1992.

- *Notification from France:*

The modifications to codes FM 35-IX Ext. TEMP and FM 36-IX Ext. TEMP SHIP, which were to be implemented on 1 November 1991, occurred during the month of March 1992 for French stations in Regional Association VI (identification starting by 07). They will be implemented during the months of March or April 1992 for French stations in RA III, IV and V and on ships equipped with system SARE. For RA I stations (61996 Amsterdam Islands and 61998 Kerguelen Island) and for Antarctic station 89642 Dumont D'Urville, modifications will be applied progressively when the new software will be delivered during the second half of 1992.

### 2. Regional practices

#### 2.3 *Changes to codes*

According to the adoption of the 925 hPa as a standard isobaric surface as per revised Regulation 35.2.2.1 of FM 35-IX Ext. TEMP, the regional regulations relating to the 925 hPa level have been superseded since 1 November 1991. The consequential updates to Volume II of the Manual on Codes are as follows:

<p>Manual on Codes Volume II REGIONAL CODES AND NATIONAL CODING PRACTICES</p>
---

REGION I, page II-1-A-6 in regulation 1/35.1 delete the entry "92h9h9h9 T9T9T<sub>a9</sub>D9D9 d9d9f9f9f9":

<b>FM 35-IX Ext. TEMP and FM 36-IX Ext. TEMP SHIP</b>				
1/35.1	<i>Part B, Section 9</i>			
	Section 9 shall be used in the Region in the following form:			
	51515	77h7h7h7	T7T7T <sub>a7</sub> D7D7	d7d7f7f7f7
		60h6h6h6	T6T6T <sub>a6</sub> D6D6	d6d6f6f6f6

### 2.3 Changes to codes (cont.)

REGION II, page II-2-A-7: delete regulation 2/35.2 and renumber regulation 2/35.3 as 2/35.2:

**FM 35-IX TEMP and FM 36-IX TEMP SHIP**

- 2/35.1 *Part A, Section 4*  
The inclusion of group 4v<sub>b</sub>v<sub>b</sub>v<sub>a</sub>v<sub>a</sub> shall be left to national decision. However, Members are recommended to include this group in reports as often as possible.
- 2/35.2 *Requirements for international exchange*  
Parts A, B, C and D shall all be included in international exchanges.

REGION III, page II-3-A-6: delete regulations 3/35.1.1 to 3/35.1.3 and include the text of regulation 3/35.2 as part of regulation 3/35.1:

**FM 35-IX TEMP, FM 36-IX TEMP SHIP and FM 37-VII TEMP DROP**

- 3/35.1 *Part B, Section 9*  
*Requirements for international exchange*  
Parts A, B, C and D shall all be included in international exchanges.

REGION V, page II-5-A-5, delete regulations 5/35.1.1 to 5/35.1.3 and include the text of regulation 5/35.2 as part of regulation 5/35.1:

**FM 35-IX TEMP, FM 36-IX TEMP SHIP and FM 37-VII TEMP DROP**

- 5/35.1 *Part B, Section 9*  
*Requirements for international exchange*  
Parts A, B, C and D shall all be included in international exchanges.

ANTARCTIC, page II-7-A-6, delete regulations 7/35.1.1 to 7/35.1.3 and include text of regulation 7/35.2 as part of regulation 7/35.1:

**FM 35-IX TEMP, FM 36-IX TEMP SHIP and FM 37-VII TEMP DROP**

- 7/35.1 *Part B, Section 9*  
*Requirements for international exchange*  
Parts A, B, C and D shall all be included in international exchanges and in exchanges within the Antarctic

Delete specifications of symbolic letters related to 925hPa as follows for Regions: I, II, III, V, VI and ANTARCTIC:

D<sub>9</sub>D<sub>9</sub>

d<sub>9</sub>d<sub>9</sub>

f<sub>9</sub>f<sub>9</sub>f<sub>9</sub>

h<sub>9</sub>h<sub>9</sub>h<sub>9</sub>

T<sub>a9</sub>

T<sub>9</sub>T<sub>9</sub>

### 3. National practices

#### 3.3 *Changes to codes or procedures*

**Manual on Codes  
Volume II  
REGIONAL CODES  
AND  
NATIONAL CODING PRACTICES**

AUSTRALIA, page II-5-E-4, replace "Note on hours of observation" by the following text:

**FM 32-IX PILOT**

**AUSTRALIA**

**Note on hours of observation:**

During SUMMER TIME, Australian standard times for upper wind synoptic observations are 0500, 1100, 1700 and 2300 UTC. These standard times apply in all Australian states and at island stations operated by Australia, but they do not apply to Australian Antarctic stations.

WMO standard times of 0000, 0600, 1200 and 1800 UTC apply in all Australian states and island stations operated by Australia, at all other times, except in Western Australia, where 1700 UTC flights will replace 1800 UTC flights throughout the year.

**The Western Australian stations involved are:**

94203	Broome	94212	Halls Creek
94300	Carnarvon	94302	Learmonth
94312	Port Hedland	94403	Geraldton
94430	Meekatharra	94610	Perth
94637	Kalgoorlie	94638	Esperance
94646	Forrest	94802	Albany



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

Date: March 1992

## C. Information on the operation of Marine Meteorological Services

### 2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C<sub>1</sub>)

- **France - Port Meteorological Officers:**

Page D-C<sub>1</sub>-VI-4, amend entry for (5) and (6) to read:

FRANCE - FRANCE (28.II.1992)

(1)	(2)	(3)
Bordeaux	Capitainerie du Port, 110 bis, quai des Chartrans	56.90.91.21
	(4) Storm warnings, analyses and forecasts for 24 hours for South and North Gascogne. / Avis de tempête, analyse et prévisions à 24 heures pour le Sud et Nord Gascogne.	
	(5) Squall warnings and forecasts to harbour master for dissemination to services at the port and for display; specific assistance to port works and activities; telephone responses for forecasts of coastal area from Les Sables d'Olonne to the Spanish border (36.65.08.08). / Avis de coup de vent et prévisions à la Capitainerie pour diffusion et affichage aux services du port; assistance spécifique pour tous travaux et études portuaires; répondeur téléphonique pour les prévisions pour la zone côtière des Sables d'Olonne à la frontière espagnole (36.65.08.08).	
	(6) For forecasts, warnings and other weather information contact the South-West Interregional Meteorological Service cindex Airport - Nr. 52 33700 MERIGNAC (56.34.20.11 - 56.34.36.05). / Pour les prévisions, les avis et autres renseignements météorologiques contacter le Service météorologique interrégional du Sud-Ouest cindex Aéroport - Nr. 52 33700 MERIGNAC (56.34.20.11 - 56.34.36.05).	

Page D-C<sub>1</sub>-VI-4, amend entry for (2) and (3) to read:

(1)	(2)	(3)
Boulogne-sur-mer	Centre Départemental de la Météorologie Nausicaa 17, Bvd Ste Beuve 62200 BOULOGNE-SUR-MER	21.33.24.25

**2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C1) (cont.)**

Page D-C1-VI-5, amend entry for (3) and (5) to read:

(1)	(2)	(3)
Brest	Bureau météorologique, Direction du Port 16, quai de la Douane	98.44.60.21
(4)	Storm warnings and forecasts for English Channel, West Irish Sea and adjoining areas. / Avis de tempête et prévisions pour Manche, mer d'Irlande Ouest et zones adjacentes.	
(5)	Off-shore forecasts and warnings for strong winds to maritime agencies, towing operations, Chamber of Commerce, naval docks; warnings and forecasts to harbour master for dissemination display and signals; telephonic responses for forecasts of coastal area from Aberwrach to Pointe du Raz (36.65.08.29). / Prévisions pour le large et avis de vent fort aux agences maritimes, remorquage, Chambre de Commerce, chantier naval. Avis de coup de vent et prévisions pour le large à la Capitainerie du port pour diffusion affichage et signalisation; répondeur téléphonique pour les prévisions pour la zone côtière des côtes d'Aberwrach à la Pointe du Raz (36.65.08.29).	
(6)	For forecasts, warnings and other weather information contact the harbour master or the Meteorological Office, 16, Quai de la Douane. / Pour les prévisions, les avis et autres renseignements météorologiques contacter la Capitainerie ou le Bureau météorologique, 16, Quai de la Douane .	

Page D-C1-VI-5, amend entry for (3) to read:

(1)	(2)	(3)
La Rochelle	Station météorologique, Le Bout Blanc	46.50.62.32

Page D-C1-VI-6, amend entry for (2), (3) and (5) to read:

(1)	(2)	(3)
Rouen	Centre Départemental de la Météorologie, Aérodrome de Rouen-Boos	35.79.41.45
(4)	Storm warnings, coastal and off-shore; forecasts valid for 24 to 48 hours twice daily. / Avis de tempête pour la zone côtière et le large; prévisions bi-quotidiennes valables de 24 à 48 heures.	
(5)	Provision of forecasts to harbour master for dissemination to services at port and display; specific assistance to all kinds of port activities (36.65.08.08). / Fourniture de prévisions à la Capitainerie pour diffusion et affichage aux services du port; assistance pour toutes activités portuaires (36.65.08.08).	
(6)	For warnings, forecasts and other weather information contact the harbour master or the Meteorological Office. / Pour les avis, les prévisions et autres renseignements météorologiques contacter la Capitainerie ou le Bureau météorologique.	

**2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C<sub>1</sub>) (cont.)**

Page D-C<sub>1</sub>-VI-7, amend entry for (2), (3) and (5) to read:

(1)	(2)	(3)
Toulon	Centre Départemental de la Météorologie, 449, Avenue de la Mitre Mourillon	94.36.01.15, 94.41.45.49
(4)	Storm warnings and forecasts for Western Mediterranean Sea. / Avis de tempête et prévisions pour la méditerranée occidentale.	
(5)	Storm warnings to harbour master for dissemination to port services at port, display and signals; telephone responses for marine forecasts for the coastal area from Marseille to Cannes (36.65.02.83). / Avis de tempête à la Capitainerie pour diffusion, signalisation et affichage aux services du port; répondeur téléphonique pour prévisions pour la zone côtière de Marseille à Cannes (36.65.02.83).	
(6)	For warnings, forecasts and other weather information contact the Meteorological Office. / Pour les avis, les prévisions et autres renseignements météorologiques contacter le Bureau météorologique.	