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Annexes: 4

GENEVA, 30 September 1991

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) September 1991

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

4. Automatic marine stations

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4672)
Directors of Meteorological Services of non-Member countries (MC-2453)
Presidents and Vice-Presidents of Regional Associations (P.RA-1277)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1395)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

5. ARGOS

5.1 ARGOS monthly status report

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

Annex III - Global Telecommunication System

A. GTS regulatory or guidance material

3. Amendments to the Manual on the Global Telecommunication System

C. Information on the operation of the GTS

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

1.1 New bulletins

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

2.3 Changes in schedules/technical specifications

Annex IV - Codes

B. Manual on codes

1. Global practices

1.3 Changes to codes

2. Regional practices

2.3 Changes to codes

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

C. Information on the operation of Marine Meteorological Services

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

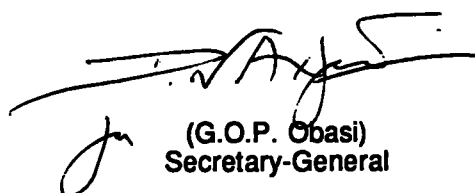
1.2 Deleted broadcasts

1.3 Changes in schedules/technical specifications

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

1.1 New stations (continued)

93223	TAUMARUNUI AFFCO	38°53'S	175°18'E	—	210	.	.	X	.	X	X	.	.	.	.	/
93224	MANUNUI	38°53'S	175°19'E	—	207	X	X	.	.	.	.	X	X	.	.	/
93245	TAUPO AERODROME AWS	38°44'S	176°04'E	—	400	X	X	X	X	X	X	X	X	.	.	AUT/
93292	GISBORNE AERODROME AWS	38°39'S	177°59'E	—	4	X	X	X	X	X	X	X	X	.	.	AUT/
93314	NORMANBY EDR	39°30'S	174°15'E	—	122	X	X	X	X	X	X	X	X	.	.	AUT/
93377	HAVELOCK NORTH EDR	39°39'S	176°52'E	—	9	X	X	X	X	X	X	X	X	.	.	AUT/
93404	PALMERSTON NORTH AWS	40°19'S	175°36'E	—	39	X	X	X	X	X	X	X	X	.	.	AUT/
93477	MARTINBOROUGH	41°13'S	175°27'E	—	22	.	.	.	.	.	.	X	X	.	.	/
93658	CULVERDEN AIRFIELD	42°46'S	172°53'E	174	173	.	.	.	.	.	.	.	X	.	.	/
93747	TARA HILLS EDR	44°31'S	169°54'E	—	488	X	X	X	X	X	X	X	X	.	.	AUT/
93853	LAUDER EDR	45°02'S	169°41'E	---	370	X	X	X	X	X	X	X	X	.	.	AUT/
93864	GORE EDR	46°06'S	168°53'E	---	123	X	X	X	X	X	X	X	X	.	.	AUT/
93883	INVERMAY EDR	45°51'S	170°23'E	---	30	X	X	X	X	X	X	X	X	.	.	AUT/

1.2 Deleted stations

02144	SUDESJAUR
02427	BOFORS
02532	VASTERPLANA
06659	PILATUS
06746	GRIMSEL
06787	TINZEN
71103	QUESNEL, B.C.
71124	PRIMEROSE LAKE, ALTA.
71450	ELBOW, SASK.
71821	MATAGAMI, QUE.
71873	CORONATION, ALTA.
71875	PINCHER CREEK, ALTA.

1.2 Deleted stations (continued)

71882	REVELSTOKE, B.C.
71900	HOPEDALE
82108	TAPURUCUARA
82113	BARCELOS
83722	BAURU
93058	WHANGAREI AERODROME
93066	MARSDEN POINT
93115	AUCKLAND
93190	WHAKATANE AERODROME
93230	ARAPUNI
93325	WANGANUI AERODROME
93407	MANGAHAO
93434	WELLINGTON
93465	EKETAHUNA
93474	WAINGAWA
93543	COBB POWER STATION
93556	MOLESWORTH
93585	BROTHERS ISLAND
93607	GREYMOUTH
93652	HANMER
93657	CULVERDEN
93677	KAIKOURA
93728	WANAKA
93744	LAKE TEKAPO
93749	ST BATHANS
93751	AVIEMORE
93904	OBAN

1.3 Changes to existing stations

04221	JAKOBHAVN	X	X	X	X	X	X	X	X	.	.	.	.	/
	FLYVEPLADS													
04260	FREDERIKSHAB	X	.	.	X	X	X	X	X	.	.	.	.	/
06604	NEUCHATEL	.	.	X	X	X	X	X	.	.	.	.	.	/
06612	LA CHAUX-DE-FONDS	.	.	X	.	X	.	X	.	.	.	.	.	/
06632	GRENCHEN	.	.	.	.	.	.	.	.	.	.	.	.	/
06639	NAPF	.	.	.	.	.	.	.	.	.	.	.	.	/
06657	GISWIL	.	X	X	X	X	X	X	.	.	.	.	.	/
06660	ZURICH (TOWN/VILLE)	.	.	X	X	X	X	X	.	.	.	.	.	/
06669	LAEGERN	.	.	.	.	.	.	.	.	.	.	.	.	/
06680	SAENTIS	.	X	X	X	X	X	X	X	.	.	.	.	/
06681	ST. GALLEN	.	.	X	X	X	X	X	.	.	.	.	.	/
06702	LA DOLE	.	04	X	.	X	.	X	.	.	.	.	.	/

1.3 Changes to existing stations (continued)

06712	AIGLE	.	X	X	X	X	X	X	.	.	.	.	.	/
06721	FIONNAY	.	.	X	X	X	X	.	.	.	.	.	.	/
06724	MONTANA	.	.	X	X	X	X	X	.	.	.	.	.	/
06730	JUNGFRAUJOCH	.	.	X	X	X	X	X	.	.	.	.	.	/
06756	COMPROVASCO	.	.	.	.	.	.	.	.	.	.	.	.	/
06759	CIMETTA	.	.	.	.	.	.	.	.	.	.	.	.	/
06760	LOCARNO-MONTI	.	.	X	X	X	X	X	.	.	.	.	.	/
06770	LUGANO	.	.	X	.	X	.	X	.	.	.	.	.	/
06771	STABIO	.	.	.	.	.	.	.	.	.	.	.	.	/
06782	DISENTIS	.	04	X	.	X	.	X	.	.	.	.	.	/
06791	CORVATSCH	.	.	.	X	.	X	.	.	.	.	.	.	/
06792	SAMEDAN-FLUGPLATZ	.	.	X	X	X	X	X	.	.	.	.	.	/
41640	LAHORE CITY	X	X	X	X	X	X	X	X	H00-24	RW	P	P	P	/
62360	SHEBIN EL KOM	X	X	X	X	X	X	X	X	H00-24	/
71866	SASKATOON, SASK.	X	.	X	.	X	.	X	.	.	.	P	.	/	
71874	LETHBRIDGE, ALTA.	X	.	X	.	X	.	X	.	.	.	P	.	/	
71877	CALGARY, INTL. ALTA.	X	.	X	.	X	.	X	.	.	.	.	P	/
71897	MCINNES IS., B.C.	X	.	.	.	X	.	X	.	.	.	.	.	/
71899	LANGARA, B.C.	X	.	.	.	X	.	X	.	.	.	.	.	/
71917	EUREKA, N.W.T.	X	.	X	.	X	.	X	.	.	.	.	.	/
71917	EUREKA UA, N.W.T.	.	.	.	.	.	.	.	.	RW	.	RW	.	/
84008	SAN CRISTOBAL (GALAPAGOS)	X	X	X	X	X	X	X	X	.	.	RW	.	/	
91701	KANTON ISLAND	X	.	X	.	X	.	X	.	RW	.	.	.	/	
93172	HAMILTON AERODROME	.	.	.	.	.	.	.	.	H18-06	.	.	.	/
93405	PALMERSTON NORTH AERODROME	.	.	.	.	.	.	.	.	H20-06	.	.	.	/

1.5 Temporary changes

Changes in observing hours due to daylight saving time in Australia

Tasmania will introduce one hour daylight saving (summer time) from 1600 UTC 5 October 1991 until 1500 UTC 28 March 1992 and Victoria, New South Wales, Australian Capital Territory, South Australia and Queensland from 1600 UTC 26 October 1991 until 1500 UTC 29 February 1992. Western Australia and Northern Territory will not be implementing summer time. Surface observations at stations in those states implementing summer time will be made one hour earlier. Surface observations at stations in Western Australia and Northern Territory will continue on the present schedule. All upper-air stations in Tasmania will make ascents one hour earlier. Times of release will be 1615, 2215, 0415 and 1015 UTC. They will commence on 5 October 1991 and will cease on 28 March 1992 and in all other upper-air stations of the Australian continent from 26 October 1991 until 29 February 1992. Other stations under Australian control will adopt the following schedules:

94299	Willis Island	will follow Queensland practice
94995	Lord Howe Island	will follow New South Wales practice
94996	Norfolk Island	

94998	Macquarie Island.....	entire observation programme one hour earlier
96996	Cocos Island.....	will follow Western Australian practice

Surface and upper-air programmes of Antarctic stations operated by Australia remain unchanged.

Temporary suspension of observing stations in Brazil

Due to technical problems the observations of following stations are being temporarily suspended until further notice:

(a) Surface observations:

82024	BOA VISTA
82141	SOURE
82317	TEFE
82392	SOBRAL
82418	CARAUARI
82425	COARI
82493	JAGUARUANA
82583	CRATEUS
82590	APODI
82723	LABREA
82771	URUCUI
82789	TRIUNFO
82792	MONTEIRO
82807	TARAUACA
83242	LENCOIS
83467	LIMEIROS
83470	RIO VERDE
83550	SAO MATEUS
83574	FRUTAL
83618	TRES LAGOAS
83654	PORTO MURTINHO
83669	SAO SIMAO
83719	CABO FRIO
83742	VASSOURAS
83828	TOLEDO
83874	SAO FRANCISCO DO SUL
83924	LANGUNA
83931	ALEGRETE

(b) Upper-air observations

82022	BOA VISTA (AEROPORTO)
82280	SAO LUIZ
82765	CAROLINA
82965	ALTA FLORESTA
82983	PETROLINA
83229	SALVADOR
83650	TRINDADE (ILHA)

4. Automatic marine stations

Canada

Data from moored and drifting buoys are collected via geostationery 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 Terminal in Edmonton and distributed on the GTS using the FM 14-VIII DRIBU code.

Drifting Buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position 20 August 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
46632	12511	43°30'N	135°12'W	.	X	X	X	X	.	.	.
46681	07135	52°54'N	146°36'W	.	X	X	X	X	.	.	.
46682	07136	45°42'N	165°24'W	.	X	X	X	X	.	.	.
46684	07137	42°24'N	154°06'W	.	X	X	X	X	.	.	.
46687	07138	31°24'N	141°24'W	.	X	X	.	X	.	.	.
46692	07139	42°24'N	153°24'W	.	.	X	X	X	.	.	.
46693	07140	35°24'N	147°12'W	.	X	X	X	X	.	.	.
46696	06267	41°24'N	144°30'W	.	X	X	X	X	.	.	.
46704	07128	41°36'N	129°24'W	.	X	X	X	X	.	.	.
46705	07129	50°48'N	140°06'W	.	X	X	X	X	.	.	.
46706	07130	34°54'N	134°06'W	.	X	X	X	X	.	.	.
46707	07131	25°24'N	154°24'W	.	X	X	X	X	.	.	.
46709	07133	50°12'N	170°36'W	.	X	X	X	X	.	.	.
46710	07134	51°26'N	170°12'W	.	X	X	X	X	.	.	.

Drifting Buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position 20 August 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
48523	01107	73°12'N	136°54'W	.	X	X	X	.	X	.	.
48540	07414	73°18'N	153°36'W	X	X	X	.	.	X	X	.

- Sensor/system failure

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the September 1991 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 DRIBU code.

Legend

<u>Column</u>	<u>Observed or technical parameters</u>
1	Wind direction and speed
2	Air temperature
3	Pressure
4	Pressure tendency
5	Sea-surface temperature
6	Wave period and height
7	Wave spectra
8	Drogued

Moored Buoys:

WMO buoy Identifier	Position		Observed or technical parameters						
	12-19 September 1991		1	2	3	4	5	6	7
32302	18°00'S	85°06'W	X	X	X	X	X	X	X
41001**	34°54'N	72°54'W	X	X	X	X	X	X	X
41002**	32°18'N	75°12'W	X	X	X	X	X	X	X
41006**	29°18'N	77°24'W	*	*	*	*	*	*	*
41008	30°42'N	81°06'W	X	X	X	X	X	X	X
41009	28°30'N	80°12'W	X	X	X	X	X	X	X
41010	28°54'N	78°30'W	X	X	X	X	X	X	X
41017	35°24'N	75°06'W	X	X	X	X	X	X	X
42001**	25°54'N	89°42'W	X	X	X	X	X	X	X
42002**	25°54'N	93°36'W	X	X	X	X	X	X	X
42003**	25°54'N	85°54'W	X	X	X	X	X	X	X
42007	30°06'N	88°48'W	X	X	X	X	X	.	.
42019	27°54'N	95°00'W	X	X	X	X	X	X	X
42020	27°00'N	96°30'W	X	X	X	X	X	X	X
42025	24°54'N	80°24'W	.	X	.	X	X	X	X
44026	36°00'N	73°30'W	X	X	X	X	X	X	X
44004**	38°30'N	70°36'W	*	*	*	*	*	*	*
44005**	42°42'N	68°36'W	X	X	X	X	X	X	X
44007**	43°30'N	70°06'W	X	X	X	X	X	X	X
44008**	40°30'N	69°24'W	X	X	X	X	X	X	X
44009**	38°24'N	74°42'W	X	X	X	X	X	X	X
44011**	41°06'N	66°36'W	X	X	X	X	X	X	X
44012**	38°48'N	74°36'W	X	X	X	X	X	X	X
44013**	42°24'N	70°48'W	X	X	X	X	X	X	X
44014	36°36'N	74°48'W	X	X	X	X	X	X	X
44025	40°18'N	73°12'W	X	X	X	X	X	X	X
44026	36°00'N	73°30'W	X	X	X	X	X	X	X
45001**	48°00'N	87°48'W	X	X	X	X	X	X	X
45002**	45°18'N	86°24'W	*	X	X	X	X	*	*
45003**	45°18'N	82°42'W	X	X	X	X	X	X	X
45004**	47°30'N	86°30'W	X	X	X	X	X	X	X
45005**	41°42'N	82°24'W	*	*	*	*	*	*	*
45006**	47°18'N	89°54'W	X	X	X	X	X	X	X
45007**	42°42'N	87°06'W	X	X	X	X	X	X	X
45008**	44°18'N	82°24'W	X	X	X	X	X	X	X
46001**	56°18'N	148°18'W	X	X	X	X	X	X	X
46002**	42°30'N	130°24'W	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
46006**	40°48'N	137°42'W	*	*	*	*	*	*	*
46011	34°54'N	120°54'W	X	X	X	X	X	X	X
46012	37°24'N	122°42'W	X	X	X	X	X	X	X
46013	38°12'N	123°18'W	X	X	X	X	X	X	X
46014	39°12'N	124°00'W	X	X	X	X	X	X	X

** Primarily for National Weather Service (NWS) support; however, all stations report data to NWS
 • Sensor/system failure

Moored Buoys (continued):

WMO buoy Identifier	Position		Observed or technical parameters						
	12-19 September 1991		1	2	3	4	5	6	7
46022	40°42'N	124°30'W	X	X	X	X	X	X	X
46023	34°18'N	120°42'W	X	X	X	X	X	X	X
46025	33°42'N	119°06'W	X	X	X	X	X	X	X
46026**	37°42'N	122°42'W	X	X	X	X	X	X	X
46027**	41°48'N	124°24'W	X	X	X	X	X	X	X
46028	35°48'N	121°54'W	X	X	X	X	X	X	X
46030	40°24'N	124°30'W	X	X	X	X	*	X	X
46035	57°00'N	177°42'W	X	X	X	X	X	X	X
46040	44°48'N	124°18'W	X	X	X	X	X	X	X
46041	47°24'N	124°30'W	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
51001**	23°24'N	162°18'W	X	X	X	X	X	X	X
51002**	17°12'N	157°48'W	X	X	X	X	*	X	X
51003**	19°18'N	160°48'W	X	X	X	X	X	X	X
51004**	17°24'N	152°30'W	X	X	X	X	X	X	X

Drifting Buoys:

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		8-18 September 1991		1	2	3	4	5	6	7	8
14803	08844	33°S	030°E	.	*	X	.	*	.	.	.
14804	08845	30°S	048°E	.	X	X	.	X	.	.	.
16807	05133	51°S	042°E	.	X	X	.	X	.	.	.
17803	05571	36°S	103°E	X	*	X	.	*	.	.	X
17804	12300	33°S	101°E	.	*	X	.	X	.	.	.
17805	12304	26°S	079°E	.	*	X	.	X	.	.	.
17809	05125	42°S	040°E	.	X	X	.	X	.	.	.
17825	05129	45°S	035°E	.	X	X	.	X	.	.	.
33301	12310	56°S	028°W	.	X	X	.	.	.	.	.
33509	12307	43°S	009°W	.	X	X	.	X	.	.	.
33510	12308	45°S	039°E	.	X	X	.	X	.	.	.
33826	12296	59°S	065°E	.	X	X	.	X	.	.	.
33827	12297	47°S	113°E	.	X	X	.	X	.	.	.
33828	12298	38°S	085°E	.	X	X	.	X	.	.	.
33830	12305	40°S	070°E	.	X	X	.	X	.	.	.
54829	06762	36°S	147°W	.	*	X	.	X	.	.	.
54830	06763	40°S	106°W	.	*	X	.	X	.	.	.
54833	06586	48°S	138°W	X	X	X	.	X	.	.	X
54835	06731	36°S	145°W	.	X	X	.	X	.	.	.
54836	05128	34°S	162°W	.	X	X	.	X	.	.	.

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

* Sensor/system failure

Drifting Buoys (continued):

WMO buoy Identifier	Argos Identifier	Position 8-18 September 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
54837	05135	31°S	151°W	.	X	X	.	X	.	.	.
54838	08823	42°S	155°W	.	X	X	.	X	.	.	.
54839	12312	40°S	147°W	.	X	X	.	X	.	.	.
54840	05120	51°S	155°W	.	X	X	.	X	.	.	.
54842	05122	47°S	159°W	.	X	X	.	X	.	.	.
54843	05134	48°S	140°W	.	X	X	.	X	.	.	.
56844	05123	51°S	161°W	.	X	X	.	X	.	.	.
56845	12311	49°S	155°W	.	X	X	.	X	.	.	.
55803	05136	57°S	121°W	.	X	X	.	X	.	.	.
56832	09219	11°S	078°E	.	X	X	.	X	.	.	.
56834	09218	15°S	069°E	.	X	X	.	X	.	.	.
56835	12291	31°S	089°E	.	X	X	.	X	.	.	.
56836	12293	31°S	103°E	.	X	X	.	X	.	.	.
56837	05116	17°S	108°E	.	X	X	.	X	.	.	.

5. ARGOS service5.1 ARGOS monthly status report

As at 2 October 1991 the Argos service was handling reports from 745 drifting buoys, 189 moored buoys, 11 balloons, 32 ships, 148 animal trackings, 394 fixed stations, 434 boats and 45 miscellaneous platforms. DRIBU reports from 58 drifting buoys and BATHY reports from 21 selected ships were transmitted to the RTH Paris and DRIBU reports from 284 drifting 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:

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Australia	55511	00418
	55512	00416
	56001	04873
	56501	02934
	56502	02936
	56503	08035
	56504	08036
	56505	08037
	56506	04875
	56547	04870
	56548	04871
	56549	04872
	9VUU *	09190
	9VWM *	09191
	GYSA *	09189
	S6FK *	09193
	VJDI *	09188
	VJDP *	09198

* PTT's transmitting at irregular intervals

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
Canada	21551	01314	
	21552	01315	
	21553	01316	
	46644	01198	
	46645	01199	
	46646	01310	
	46649	01313	
	46650	01424	
	46656	08090	
	47559	04004	
	France	13531	05832
		62504	05825
		62513	05829
		62514	05831
62516		05833	
62518+		10104	
62520		10103	
64516		05796	
C6HL *		04705	
DIDA *		08742	
FITA *		04723	
FNCZ *		08744	
FNED *		08748	
FNGS *		04707	
FNJT *		04722	
FNOM *		04701	
FNQB *		04726	
FNZO *		04717	
FPYO *		04729	
HPEW *		04720	
ZDAZ *		04714	
ZDBE *		04718	
Germany	48601	11240	
	48602	11241	
	48603	11242	
	48604	11243	
	48605	11244	
	48606	11245	
	48607	11246	
	71524	03315	
	71543	08055	
	71544	08062	
	71545	09353	
	71546	09354	
	71547	09355	
	71549	09361	

* PTT's transmitting at irregular intervals

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Iceland	64608	04185
Japan	46601	04780
	46602	04781
	46603	04782
Netherlands	44760	06668
	44761	06669
New Zealand	55582	07175
	55583	07179
	55584	07178
	55585	07177
	55586	07176
Norway	17001	01591
	17003	01758
	62694	03670
	63002	09407
	65591	06666
	65592	03039
	74001	09405
South Africa**	17525	14064
	17526	14067
	17527	09087
	17536	14066
	17537	14057
United Kingdom	62805	06285
	64043	06271
United States of America	12501	14568
	12502	14577
	13003	01649
	13004	01654
	13007	01643
	13502+	14341
	13503+	14343
	13506+	14347
	13505	14345
	14803	08844
	14804	08845
	16807	05133
	17803+	05571
	17804	12300
	17805	12304
	17806	12306

** 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.

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
United States of America (continued)	17809	05125	
	17811	05569	
	17825	05129	
	22511	12493	
		22512	12497
		22153	14334
		23502+	14300
		23503	14569
		23505	14573
		23506	14330
		25537	12805
		31502	09844
		32316+	06520
		32317+	06519
		32318+	06478
		32512	11920
		32513	11917
		32514	10836
		32515	11898
		32516	11927
		32517	15093
		32518	15091
		32519	11905
		32520	11918
		32521	11928
		32522	15598
		32523	10809
		32524	11921
		32525	11192
		32526	11923
		32528	11930
		32529+	11931
		32530	11933
		32531	15011
		32532	11897
		32533	15017
		32534	15018
		32535	15025
		32536	15026
		32537	10839
		32538	15602
		32540	11904
		32541	15595
	32542	15596	
	32543	11015	
	32544	11908	
	32545	10849	
	32546	11160	

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	32547	15597
	32548	15599
	32549	11163
	32550	11894
	32551	15600
	32552	11195
	32553	15603
	32558	09276
	33301	12310
	33509	12307
	33510	12308
	33826	12296
	33827	12297
	33828	12298
	33830	12305
	41503	14578
	41504	14579
	41505	14580
	41506	14294
	43501	11919
	43502	11168
	43504	11198
	43508	11171
	44501+	09173
	44502+	09174
	44503+	04568
	44507+	04566
	44508+	09171
	44509+	09165
	44510+	09176
	44511+	09177
	44512+	09178
	44513	04645
	44514	04646
	44520	09856
	44530	12737
	44535	12732
	44536	12730
	44537	12731
	44539	12733
44541	12734	
44542	12735	
44543	12736	
48518	12800	
48520	12801	
48554	12802	
48555	12806	
48557	12808	

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51006+	06798
	51011+	06476
	51014+	06521
	51502	14582
	51503	14575
	51504	14576
	51506	14583
	51510	11671
	51511	15117
	51512	15089
	51513	11663
	51514	11675
	51515	14432
	51516	09274
	51517	11676
	51518	15077
	51519	15100
	51801	14433
	51802	11915
	51803	15593
	51804	14434
	51806	09279
	51807	15094
	51808	15085
	51809	14435
	51811	11644
	51812	15079
	51813	11924
	51814	11682
	51816	15616
	51818	15110
	51819	15116
	51820	15122
	51821	11690
	51822	11870
51823	15095	
51824	11685	
51825	15620	
51826	11578	
51827	11688	
51828+	11695	
51829	11202	
51830	15088	
51831	11689	
51832	11691	
51833	11872	
51834	15124	
51835	09271	

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51836	09270
	51839	11700
	51840	15090
	51841	15623
	51842	11702
	51843	11703
	51844	09275
	51846	11692
	51847+	11706
	51849	15097
	51853+	11694
	51855	11705
	51856	15082
	51857	11667
	51858	11668
	51861	15099
	51862	11670
	51868	11669
	51869	11674
	51870	11679
	51871	11693
	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+	06799
	52002+	06795
	52003+	12522
	52004+	06515
	52006+	06796
	52051+	09272
	52052+	09278
	52053+	15014
	52054+	15016
	52056+	15039
	52057+	52059+
	52506	15031
	52507	15037

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
United States of America (continued)	52508	15104	
	52509	15109	
	52510	15127	
	52511	15019	
		52512	15023
		52513	15034
		52514	15040
		52515	15043
		52517	15108
		52518	15114
		52520	15121
		52521	14584
		52522	14585
		52523	12439
		52524	12495
		52527	12704
		52528	14320
		52801	15035
		52802	15047
		52806	09272
		52807	09278
		52809	15016
		52810	15039
		52811	15111
		52812	15126
		52827	10823
		52866	11887
		52867	11893
		52868	11876
		52872	11890
		52877	11883
		53501	11738
		53502	14333
		53801+	14967
		53802	14965
		53803	14966
		53804	14979
		53805	14985
		53806	14991
		53809	11886
		54829	06762
		54830	06763
		54831	06764
	54832+	06585	
	54833+	06586	
	54835	06731	
	54836	05128	
	54837	05135	

+ PTT's which were removed from GTS during the month

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
United States of America (continued)	54838	08823	
	54839	12312	
	54840	05120	
	54842	05122	
	54843	05134	
	54844	05123	
	54845	12311	
	55803	05136	
	56832	09219	
	56834	09218	
	61521	14336	
	61522	14342	
	61525	14349	
	61531	14338	
	62672	09859	
	64581	12804	
	64595	14317	
	Atlas Buoys	32315	06380
		32316	06520
		32317	06519
32318		06478	
51006		06798	
51007		06371	
51008		06370	
51009		06461	
51010		06375	
51011		06476	
51014		06521	
52002		06795	
52004		06515	
52006		06796	

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.

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 (Iliii) 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 (Iliii) 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 III - Global Telecommunication System

Date: September 1991

A. GTS regulatory or guidance material

3. Amendments to the Manual on the Global Telecommunication System

Member countries expressed difficulties in implementing as from 1 November 1991 the parts of Resolution 4/2 (EC-XLIII) given in EC-XLIII/PINK 2, REV. 1, APPENDIX B relating to a new Table D (level designator ii) of Attachment II.5 (previously II.6) (data designators in abbreviated headings) of the Manual on the GTS. Considering these difficulties and after consultation with the President of CBS, the President of WMO approved to defer the implementation of those parts of the Resolution 4/2 (EC-XLIII) relating to a new Table D. Therefore, Table D at present in operation as given in the 1986 edition of the Manual on the GTS shall continue to be used pending the review of this question by CBS (and in particular its Working Group on the GTS) and any further decision on this matter.

C. Information on the operation of the GTS

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

1.1 New bulletins

Notification from the Deutscher Wetterdienst that as a temporary measure, RTH Offenbach will insert into the GTS the following bulletins including SYNOP, TEMP and PILOT reports transmitted through a METEOSAT DCP from Kuwait:

SMKW01	EESA	USKW01	EESA	UPKW01	EESA
SIKW21	EESA	UKKW01	EESA	UGKW21	EESA
		ULKW01	EESA	UHKW01	EESA
		UEKW01	EESA	UQKW21	EESA

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

2.3 Changes in schedules/technical specifications

VI-iii Moskva radio-facsimile broadcasts delete the following charts:
Programme 1: at 0835 UTC, ASXX RUMS 97615
Programme 2: at 2035 UTC, AUXX RUMS 97756

Annex IV - Codes

Date: September 1991

B. Manual on Codes

1. Global practices

Notification from the WMO Secretariat that:

The new aeronautical codes and changes hereto contained in supplement No. 2 to The Manual on Codes - Volume I - are for use as from 1 July 1993. They will be subject to any agreed to improvements based on on-going ICAO consultations.

The following pages of the 1988 edition of Volume I of The Manual should therefore be retained for use until the implementation date of the new codes:

<u>Pages:</u>	I-A-49	to	I-A-60
	I-A-139	to	I-A-158
	I-D-79	to	I-D-83
	I-D-165	to	I-D-168

In the new supplement No. 2 (VII.1991) on pages I-A-164, I-A-175, I-A-183, I-D-80 and I-D-166 insert asterisks with a footnote similar to that for METAR and SPECI (*for use as from 1 July 1993) against each title of code forms: FM 51-IX EXT., FM 53-IX EXT., FM 54-IX EXT. and code tables 1864 and 4678. Note also that current specifications of CC will remain in force in Code Tables 0500, 1690 and 2700 until implementation of new METAR/SPECI.

In supplement No. 3 (VIII.1991) on page I-Bi-8, update content of octet No. 25 to read as follows:

Octet No.	Content
25	First two digits of the year eg. '19' (until 1 January 2000)

2. Regional practices

2.3 Changes to codes

This notification refers to amendments to regional coding procedures adopted by:

- (i) X-RA VI in Resolution 6 for FM 12-IX SYNOP, FM32-IX PILOT, FM 33-IX PILOT SHIP, FM 35-IX TEMP and FM 36-IX TEMP SHIP (to be implemented by Members effective 1 November 1991) see Abridged Final Report of the Tenth Session of RA-VI - WMO No. 736.
- (ii) X-RA I in Resolution 9 for Revised Code RF 1/02 AGRO are (to be implemented by Members effective 1 November 1991) see Abridged Final Report of the Tenth Session of RA-I - WMO.
- (iii) EC-XLIII, as annex to Resolution 15, modifications to FM 12-IX EXT SYNOP in Regulations 7/12.8 and 7/12.12.2 (to be implemented by Members effective 1 November 1991) in Antarctic, as indicated below : Standardization of regional cloud matters and prevailing wind reporting practice with global procedures:

Volume II - Manual on Codes

Chapter VII - The Antarctic

A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS

FM 12-IX SYNOP

(c) Section 3

Changes as follows (page II - 7 - A - 3):

- 7/12.8 Groups (5₁1₂3₄ (5₆7₈9))
- 7/12.8.1 In the form 5EEEI_E, 55SSS (j₅F₂₄F₂₄F₂₄F₂₄), these groups shall be included at 0600 UTC by all stations capable of doing so.
- 7/12.8.2 In the form 56D_LD_MD_H, this group shall be included whenever the direction of movement of clouds reported for C_L C_M and/or C_H can be determined.

Add a new Regulation 7/12.12.2 and renumber Regulations 7/12.12.2 and 7/12.12.3 as follows (page II - 7 - A - 4):

- 7/12.12.2 A group 915dd shall be included in the report when the prevailing wind direction during the preceding 6 hours is significantly different from the current wind direction (e.g. a difference of 45° is considered significant).
- 7/12.12.3 A group 931ss shall be used, when appropriate, to report the depth of the snow freshly fallen since the last 0000 UTC observation and shall be included at 0000, 0600, 1200 and 1800 UTC when precipitation has occurred since the last 0000 UTC report.
- 7/12.12.4 Each time the phenomenon whiteout is observed, the appropriate group 9S_pS_pw₁w₁ shall be included.

Note: In the absence of hydrometeors and blowing snow, and with a completely overcast sky over an unbroken snow cover, contours of landscape may vanish because all shadows disappear and the horizon cannot be distinguished. This phenomenon is called whiteout.

It is also notified that as a result of changes to global regulations all regional coding practices for group SnFnFnFnFn and 55SSS will change to 55SSS (j₅F₂₄F₂₄F₂₄F₂₄) effective 1 November 1991, following Recommendation 13 of CBS EXT 90, amending Regulations: 12.4.7.1.1 to 12.4.7.4.5 of FM 12 - IX EXT SYNOP, the corresponding texts in the Manual on Codes, Volume II are given below :

REGION I - AFRICA

A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS

FM 12-IX SYNOP and FM 13-IX SHIP

(c) Section 3

Changes as follows (page II - 1 - A - 3):

- 1/12.10.1 In the form 5EEEI_E and 55SSS (j₅F₂₄F₂₄F₂₄F₂₄), these groups shall be included at 0600 UTC by all stations capable of doing so.

Region II - ASIA**A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS**

FM 12-IX SYNOP and FM 13-IX SHIP

(c) Section 3

Changes as follows (page II - 2 - A - 4):

- 2/12.12.2 (a) In the form 5EEEi_E and 55SSS (j₅F₂₄F₂₄F₂₄F₂₄) these groups shall be included in synoptic reports by all stations where the corresponding measurements are carried out.
- (b) If these groups are included in the synoptic report, the values of EEE (evaporation or evapotranspiration), j₅F₂₄F₂₄F₂₄F₂₄ (amount of convection) and SSS (duration of sunshine) shall refer to the 24 hours preceding the observation time of that report.
- (c) Groups 5EEEi_E and 55SSS (j₅F₂₄F₂₄F₂₄F₂₄) shall be transmitted at least once daily at one of the main observation times, preferable at 0000 UTC (the morning observation time over most of Region II).

Region III - SOUTH AMERICA**A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS**

FM 12-IX SYNOP and FM 13-IX SHIP

(b) Section 3

Changes as follows (page II - 3 - A - 3 / 4):

- 3/12.9 Groups (5j₁j₂j₃j₄ (j₅j₆j₇j₈j₉)
- 3/12.9.1 These groups may be used in the Region in the form 5EEEi_E, 55SSS (j₅F₂₄F₂₄F₂₄F₂₄), 56D_LD_MD_H, 57CD_ae_c and 58p₂₄p₂₄p₂₄ or 59p₂₄p₂₄p₂₄ as provided for under Regulation 12.4.7.
- 3/12.9.2 When data are available and it is appropriate to do so, these groups shall be included in the form 5EEEi_E and 55SSS (j₅F₂₄F₂₄F₂₄F₂₄) at least once daily at one of the main observation times, preferable at 1200 UTC. SSS (duration of sunshine) shall be for the 24 hours of the calendar day immediately preceding the reporting time.

Region IV - NORTH AND CENTRAL AMERICA**A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS**

FM 12-IX SYNOP and FM 13-IX SHIP

(b) Section 3

Changes as follows (page II - 4 - A - 3):

- 4/12.9.1 In the form 5EEEi_E, 55SSS (j₅F₂₄F₂₄F₂₄F₂₄), these groups shall be included by all stations capable of doing so, when appropriate.

Region V - SOUTH-WEST PACIFIC

A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS

FM 12-IX SYNOP and FM 13-IX SHIP

(c) Section 3

Changes as follows (page I I - 5 - A - 3):

- 5/12.10.1 In the form 5EEE_E, 55SSS (₅F₂₄F₂₄F₂₄F₂₄), these groups shall be included by all stations capable of doing so at least once daily at either 0000, 0600 or 1200 UTC, whenever data are available

Region VI - EUROPE

A-1 - INTERNATIONAL CODE FORMS, NOTES AND REGULATIONS

FM 12-IX SYNOP and FM 13-IX SHIP

(b) Section 3

Changes as follows (page I I - 6 - A - 4):

- 6/12.9.2 (a) In the form 5EEE_E, 55SSS (₅F₂₄F₂₄F₂₄F₂₄), these groups shall be included by all stations carrying out the corresponding measurements.
- (b) If these groups are included, the values of EEE (evaporation or evapotranspiration) and ₅F₂₄F₂₄F₂₄F₂₄ (amount of radiation), shall be for the 24 hours preceding the observation time of the synoptic report, and SSS (duration of sunshine) shall be for the 24 hours of the calendar day immediately preceding the reporting time.
- (c) Groups 5EEE_E, 55SSS (₅F₂₄F₂₄F₂₄F₂₄) shall be transmitted at least once daily at one of the main observation times, preferably at 0600 UTC (the morning observation time over most of Region VI).

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

Date: September 1991

C. Information on the operation of Marine Meteorological Services

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

1.2 Deleted broadcasts

Ai-V - Group A, B Awarua-ZLB, all broadcasts effective 30.08.91

Ai-V - Group B Chatham Islands-ZLC, all broadcasts effective 08.08.91

1.3 Changes in schedules/technical specifications

Ai-V - Group A Auckland-ZKLF effective 30.08.91 delete:
0500, 1800: IAC FLEET

Ai-V - Group B Auckland-ZLD effective 30.08.1991 read:

(2207, 4417, 6224) kHz, H3E/J3E, 1 kW

0133-0143 }
0733-0743 }
1933-1943 }

- Plain language weather reports from New Zealand stations.

0533-0545 }
1133-1145 }
1733-1745 }
2133-2145 }
2333-2345 }

- Gale/storm warnings: area within 300 miles of New Zealand and Chatham Is.
- Statement of situation affecting New Zealand waters.
- Forecast for New Zealand northern coastal waters.

1033-1045 }
}

- Gale/storm warnings: SW Pacific, 15°S-40°S, 160°E-170°W.
- Statement of situation and forecast.

0433-0443 }
1033-1043 }
2233-2243 }
}

- Warnings for Chatham Is. and waters between Chatham Is. and New Zealand coast from East Cape to Stewart Is.
- Statement of situation affecting Chatham Is. waters.
- Forecast.

Ai-V - Group B Wellington-ZLW effective 30.08.1991 read:

(2153, 2423, 4417) kHz, H3E/J3E, 1 kW

0203-0213 }
0803-0813 }
2003-2013 }

- Plain language weather reports from New Zealand stations.

0503-0515 }
1103-1115 }
1903-1915 }
2303-2315 }

- Gale/storm warnings: area within 300 miles of New Zealand and Chatham Is.
- Statement of situation affecting New Zealand waters.
- Forecast for New Zealand central coastal waters.

0403-0413 }
1003-1013 }
2203-2213 }
}

- Gale/storm warnings for Chatham Is. and waters between Chatham Is. and New Zealand coast from East Cape to Stewart Is.
- Statement of situation affecting Chatham Is. waters.
- Forecast.

Ai-V - Group B Port Vila, Vanuatu effective 16.08.1991 read:

**YJM, 2133 (winter) 2033 (summer), 2182 kHz, J3E, 500 W, Vanuatu coastal waters.
YJM, 0533 (winter) 0433 (summer), 6215 kHz, J3E, 500 W, Vanuatu coastal waters.**

Normal watchkeeping hours are 1900 to 0700 (winter) 1800 to 0600 (summer) full 24 hour coverage during cyclone warnings.

Frequencies are 4385.3 kHz (transmit) and 4090.9 kHz (receive)

Gale warnings are broadcast on receipt and every 3 hours.

Storm warnings are broadcast every 2 hours.

Hurricane warnings are broadcast every hour.