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W/OIS

GENEVA, 2 January 1992

Annexes: 3

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

**5. ARGOS service**

- 5.1 ARGOS monthly status report**

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

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

**To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4703)**  
**Directors of Meteorological Services of non-Member countries (MC-2460)**  
**Presidents and Vice-Presidents of Regional Associations (P.RA-1283)**  
**Presidents and Vice-Presidents of Technical Commissions (P.TC-1400)**  
**Chairmen of CBS Working Groups**  
**Secretary-General of ICAO**  
**Director-General of IATA**  
**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. RSMC output products

**Annex III - Global Telecommunication System**

- C. Information on the operation of the GTS
  - 2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
    - 2.3 Changes in schedules/broadcasts

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: December 1991

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

**1. Publication No. 9. Volume A - Stations**

**1.1 New stations**

01085	RANA BASMOEN	66°20' N	14°06' E	-	39	X . X . . . X .	. . . . .
01108	VEGA-VALLJO	65°42' N	11°51' E	-	2	. . X . X . X .	. . . . .
01196	TENNEVOLL	68°44' N	17°48' E	-	22	. . X . X . X .	. . . . .
01344	REIMEGREND	60°41' N	06°45' E	-	-	. . X . X . X .	. . . . .
71207	SQUAMISH AIRPORT, B.C.	49°47' N	123°10' W	60	-	X . X . X . X .	. . . . . AUT
74468	JEFFERSON PROVING GROUND, MADISON, IN.	38°50' N	85°25' W	265	-	. . . . .	. . RW .
93546	NELSON AERODROME AWS	41°18' S	173°13' E	4	-	X X X X X X X X	. . . . . AUT
93929	ENDERBY ISLAND	50°29' S	166°18' E	40	-	X X X X X X X X	. . . . . AUT
98442	PILI	13°34' N	123°16' E	35	34	X X X X X X X X	. . . . .
98746	COTABATO	07°10' N	124°13' E	62	-	X X X X X X X X	. . . . .

**1.2 Deleted stations**

01017 GIBOSTAD  
 01115 MYKEN  
 01168 KLEIVA I SORTLAND  
 01203 KRAKENES FYR  
  
 01412 OBRESTAD  
 01445 SKAFSA  
 40153 MT. KENAAN  
 40165 RAMAT-DAVID  
  
 71098 KILLINEK, N.W.T.

**1.3 Changes to existing stations**

01360	BRATA	. X X X X X X X	. . . . .
98134	BASCO RADAR	. . . . .	. . . . .
98135	BASCO	X X X X X X X X	P . P .
98223	LAOAG	X X X X X X X X	RW . P .

**1.3 Changes to existing stations**

98328	BAGUIO	X X X X X X X X	P . P .
98430	SCIENCE GARDEN	X X X X X X X X	. . . .
98437	SAN FRANCISCO	X . X . X . X .	. . . .
98444	LEGASPI	X X X X X X X X	P . RW .
98618	PUERTO PRINCESA	X X X X X X X X	W . P .
98630	CUYO	X X X X X X X X	P . P .
98645	LAHUG	X . X . X . X .	. . . .
98646	MACTAN	X X X X X X X X	RW . P .
98653	SURIGAO	X X X X X X X X	P . P .
98712	BUGSUK	X X X X X X X X	. . . .
98753	DAVAO AIRPORT	X X X X X X X X	W . P .
98836	ZAMBOANGA	X X X X X X X X	RW . P .

**1.5 Temporary changes**

**Notification from Ethiopia:** Temporary changes in the following observing stations, until further notice:

a.	63021	ASMARA	} not transmitting into the GTS at standard times
	63043	ASSAB	
b.	63478	GODE	} not operational
	63533	NEGHELLI	

**4. Automatic marine stations****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 14-VIII DRIBU code.

**Legend**

<u>Column</u>	<u>Observed or technical parameters</u>	<u>Column</u>	<u>Observed or technical parameters</u>
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

**Moored Buoys (North-east Pacific Ocean):**

<u>WMO buoy Identifier</u>	<u>Argos Identifier</u>	<u>Position</u> 11 December 1991		<u>Observed or technical parameters</u>								
				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	.
46182*	N/A	49°29'N	123°18'W	X	X	X	X	X	X	X	X	.
46183	07192	53°37'N	131°06'W	X	X	X	X	X	X	X	X	.
46184	07182	53°56'N	138°48'W	X	X	X	X	X	X	X	X	.
46185	07187	52°25'N	129°48'W	X	X	X	X	X	X	X	X	.

\* Removed from service on 20 November 1991

**Moored Buoys (North-east Pacific Ocean) (continued):**

WMO buoy Identifier	Argos Identifier	Position 11 December 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
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	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	.

**Moored Buoys (North-west Atlantic Ocean):**

WMO buoy Identifier	Argos Identifier	Position 6 December 1991		Observed or technical parameters								
				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	.
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	X	.
44141	03449	42°04'N	56°09'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	.

**Moored Buoys (Great Lakes):**

WMO buoy Identifier	Argos Identifier	Position 11 December 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
45135	N/A	43°48'N	76°53'W	X	X	X	X	.	.	.	.	.
45136	3477D	48°32'N	86°57'W	X	X	X	X	X	X	X	X	.
45137	N/A	45°33'N	81°01'W	X	X	X	X	.	.	.	.	.
45138	08249	49°32'N	65°43'W	X	X	X	X	X	X	X	X	.
45139	N/A	43°16'N	79°33'W	X	X	X	X	X	X	X	X	.
45140	08671	50°51'N	96°44'W	.	.	.	.	.	.	.	.	.

**Drifting Buoys (North-east Pacific Ocean):**

WMO buoy Identifier	Argos Identifier	Position 3 December 1991		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
46632	12511	39°54'N	129°18'W	.	X	X	X	X	.	.	X	.
46681	07135	58°06'N	141°18'W	.	X	X	X	X	.	.	X	.
46682	07136	44°54'N	157°30'W	.	X	X	X	X	.	.	X	.
46684	07137	43°30'N	150°18'W	.	X	X	X	X	.	.	X	.
46687	07138	31°36'N	149°54'W	.	X	X	X	X	.	.	X	.
46692	07139	46°12'N	140°30'W	.	.	X	X	X	.	.	X	.
46704	07128	37°36'N	133°30'W	.	X	X	X	X	.	.	X	.
46705	07129	54°00'N	133°18'W	.	X	X	X	X	.	.	X	.
46706	07130	32°54'N	138°18'W	.	X	X	X	X	.	.	X	.
46708	07132	51°12'N	152°48'W	.	X	X	X	X	.	.	X	.
46709	07133	51°54'N	173°54'W	.	X	X	X	X	.	.	X	.

**Drifting Buoys (Arctic Icepack):**

WMO buoy Identifier	Argos Identifier	Position 6 December 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8

NIL

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the December 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>	<u>Column</u>	<u>Observed or technical parameters</u>
1	Wind direction and speed	5	Sea-surface temperature
2	Air temperature	6	Wave period and height
3	Pressure	7	Wave spectra
4	Pressure tendency	8	Drogued

Moored Buoys:

WMO buoy Identifier	Position		Observed or technical parameters						
	19-26 December 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	73°00'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
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	.	.
42019	27°54'N	95°00'W	*	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
44004**	38°30'N	70°42'W	X	X	X	X	X	X	X
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
44025	40°18'N	73°12'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	X	X
45003**	45°18'N	82°42'W	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
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

\*\* 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						
	19-26 December 1991		1	2	3	4	5	6	7
46001**	56°18' N	148°18' W	X	X	X	X	X	X	X
46002**	42°30' N	130°24' W	*	*	*	*	*	*	*
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	*	*	*	*	*	*	*
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
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	*	*	*	*	*	*	*
46029**	46°12' N	124°12' W	X	X	X	X	X	X	X
46030	40°24' N	124°30' W	X	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
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
46045	33°48' N	118°24' W	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
46050	44°36' N	124°30' 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
52009	13°42' N	144°42' E	X	X	X	X	X	X	X

Drifting Buoys:

WMO buoy Identifier	ARGOS Identifier	Position		Observed or technical parameters							
		25-26 December 1991		1	2	3	4	5	6	7	8
14804	08845	29°S	37°E	.	X	X	.	X	.	.	.
16807	05133	50°S	70°E	.	X	X	.	X	.	.	.
16809	12314	43°S	03°W	.	X	X	.	X	.	.	.
16810	12309	50°S	10°W	.	X	X	.	X	.	.	.
17804	12300	28°S	105°E	.	*	X	.	X	.	.	.
17805	12304	21°S	74°E	.	*	X	.	X	.	.	.
17809	05125	37°S	62°E	.	X	X	.	X	.	.	.
17811	05569	41°S	03°E	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 25-26 December 1991		Observed or technical parameters							
				1	2	3	4	5	6	7	8
17825	05129	42°S	59°E	.	X	X	.	X	.	.	.
33301	12310	56°S	28°W	.	X	X	.	.	.	.	.
33509	12307	42°S	07°E	.	X	X	.	X	.	.	.
33510	12308	44°S	59°E	.	X	X	.	X	.	.	.
33511	12302	44°S	37°W	.	X	X	.	X	.	.	.
33826	12296	57°S	90°E	.	X	X	.	X	.	.	.
33827	12297	47°S	138°E	.	X	X	.	X	.	.	.
33828	12298	35°S	99°E	.	X	X	.	X	.	.	.
33831	01967	46°S	31°W	.	X	X	.	X	.	.	.
53822	05132	11°S	122°E	.	X	X	.	X	.	.	.
54829	06762	35°S	144°W	.	*	X	.	X	.	.	.
54830	06763	40°S	100°W	.	*	X	.	X	.	.	.
54833	06586	45°S	139°W	X	X	X	.	X	.	.	X
54835	06731	36°S	139°W	.	X	X	.	X	.	.	.
54836	05128	34°S	155°W	.	X	X	.	X	.	.	.
54837	05135	26°S	155°W	.	X	X	.	X	.	.	.
54838	08823	45°S	147°W	.	X	X	.	X	.	.	.
54839	12312	40°S	142°W	.	X	X	.	X	.	.	.
54840	05120	54°S	134°W	.	X	X	.	X	.	.	.
54842	05122	50°S	153°W	.	X	X	.	X	.	.	.
54843	05134	49°S	133°W	.	X	X	.	X	.	.	.
54844	05123	52°S	135°W	.	X	X	.	X	.	.	.
55803	05136	55°S	103°W	.	X	X	.	X	.	.	.
56834	09218	15°S	47°E	.	X	X	.	X	.	.	.
56835	12291	29°S	87°E	.	X	X	.	X	.	.	.
56836	12293	27°S	101°E	.	X	X	.	X	.	.	.
56837	05116	08°S	99°E	.	*	X	.	X	.	.	.
56838	12294	18°S	82°E	.	X	X	.	X	.	.	.

**5. ARGOS service****5.1 ARGOS monthly status report**

As at 3 December 1991 the Argos service was handling reports from 791 drifting buoys, 204 moored buoys, 5 balloons, 34 ships, 146 animal trackings, 415 fixed stations, 189 boats and 48 miscellaneous platforms. DRIBU reports from 58 drifting buoys and BATHY reports from 20 selected ships were transmitted to the RTH Paris and DRIBU reports from 283 drifting and moored 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:

\* Sensor / system failure.



## 5.1 ARGOS monthly status report (continued)

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>		
Australia	55511+	00418	France (continued)	GQEK *	04708		
	55512	00416		HPEW *	04720		
	56001	04873		ZDAZ *	04714		
	56501	02934		ZDBE *	04718		
	56502	02936		Germany	48601	11240	
	56503	08035	48602		11241		
	56504	08036	48603		11242		
	56505	08037	48604		11243		
	56506	04875	48605		11244		
	56548	04871	48606		11245		
	56549	04872	48607		11246		
	9VUU *	09190	71524		03315		
	9VWM *	09191	71545		09353		
	GYSE *	09199	71546		09354		
	S6FK *	09193	71547	09355			
	VJBQ *	09196	71549	09361			
	VJDP *	09198	Iceland	54608+	04185		
	Canada	21552		01315	Japan	46601	04780
		44755		03319		46602	04781
46644		01198		46603		04782	
46645		01199		Netherlands	44761	06669	
46649		01313			64111	08521	
46650		01424			64112	08522	
46656		08090			64113	08523	
47552		09784			64114	08524	
47558		11249		New Zealand	55580	06439	
France		13531	05832		55582	07175	
	62504+	05825	55583		07179		
	62513	05829	55584		07178		
	62514	05831	55586		07176		
	62520+	10103	Norway	17001	01591		
	64516	05796		17003	01758		
	C6HL *	04705		62694	03670		
	FNCZ *	08744		63004+	09403		
	FNED *	08748		65591	06666		
	FNGB *	04733	65592	03039			
FNGS *	04707	South Africa**	17521	14058			
FNJT *	04722		17522	14063			
FNOM *	04701		17523	14065			
FNQB *	04726		17525	14064			
FNZO *	04717		17526	14067			
FPYO *	04729		17527	14060			
			17536	14066			

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

\* PTT's transmitting at irregular intervals

\*\* 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 (continued)

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United Kingdom	62805 64043	06285 06271	United States of America (continued)	32517	15093
United States of America***	11318	14356		32518	15091
	13003	01649		32519	11905
	13004	01654		32522	15598
	13007	01643		32523	10809
	13901	14455		32525	11192
	13902	14456		32528	11930
	13903	14457		32529	15028
	13904	14445		32531	15011
	13906	14460		32532	11897
	13907	14461		32533	15017
	13908	14462		32534	15018
	13909	14463		32535	15025
	13911	14448		32536	15026
	14464	14464		32538	15602
	14804	08845		32540	11904
14986	14986	32541		15595	
16807	05133	32542		15596	
17804	12300	32544		11908	
17805	12304	32545		10849	
17809	05125	32546		11160	
17825	05129	32547		15597	
21522	14309	32548		15599	
21527	14592	32549		11163	
21529	14599	32551		15600	
21531	14603	32552		11195	
21534	14311	32553		15603	
21535	14312	32554		15601	
22512	12497	32555		15625	
22901	14980	32556		11934	
22902	14981	32557		15626	
22904	14971	32558		09276	
22905	14972	32559		15627	
22906	14984	33301	12310		
25537	12805	33509	12307		
31502	09844	33510	12308		
32439	15604	33511	12302		
32512	11920	33826	12296		
32513	11917	33827	12297		
32514	11948	33828	12298		
32516	11927	33831	01967		
		34901	15123		
		34902	15125		
		43501	11919		

\*\*\* Due to technical difficulties experienced at SAI, the actual list of platforms having actually reported on GTS from the USGPC cannot be produced. The list which is here provided under "Transmissions to NWS Washington" corresponds in fact to the list of PTTs which should have been reporting on GTS according to Principal Investigators' wishes. This list should not however differ very much from the actual list.

5.1 ARGOS monthly status report (continued)

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	43504	11198	United States of America (continued)	51519	15100
	43508	11171		51520	15592
	43512	14637		51801	14433
	43513	14638		51802	11915
	44513	04645	51803	15593	
	44514	04646	51804	14434	
	44520	09856	51805	15106	
	44552	11362	51806	15635	
	44553	11363	51807	15094	
	44555	11365	51809	14435	
	44559	15138	51810	15594	
	44560	15142	51813	11924	
	46531	15618	51816	15616	
	46532	15615	51817	15617	
	46533	15619	51818	15110	
	46534	15624	51819	15116	
	46535	15607	51820	15122	
	46536	15609	51821	11690	
	46537	15612	51822	11870	
	46538	15613	51823	15095	
	46539	15622	51824	11685	
	46540	15605	51825	15620	
	46541	15643	51826	11578	
	46542	15639	51827	11688	
	46543	15642	51828	15015	
	46544	15637	51829	11202	
	46545	15640	51830	15088	
	46546	15641	51833	11872	
	47553	11248	51834	15124	
	47556	11247	51835	09271	
	48518	12800	51836	09270	
	48520	12801	51837	15621	
	48554	12802	51839	11700	
	48555	12806	51840	15090	
	48557	12808	51842	11702	
	51025	12878	51843	11703	
	51503	14646	51844	09275	
	51504	14648	51845	15107	
	51506	14650	51846	11692	
	51507	14613	51847	15027	
	51508	14651	51849	15097	
	51511	15117	51850	15608	
	51512	15089	51853	15610	
	51513	11663	51855	11705	
	51515	14432	51856	15082	
	51516	11949	51857	11667	
	51517	11676	51858	15611	
	51518	15077	51859	15606	

5.1 ARGOS monthly status report (continued)

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	51861	15099	United States of America (continued)	52877	11883
	51862	11670		53802	14965
	51863	15636		53803	14966
	51865	15638		53804	14979
	51866	15644		53806	14991
	51867	15645		53809	11886
	51868	11669		54531	14642
	51869	11674		54532	14645
	51870	11679		54829	06762
	51872	11696		54830	06763
	51873	11699		54835	06731
	51874	11701		54836	05128
	51875	11704		54837	05135
	51876	11683		54838	08823
	51877	15073		54839	12312
	51878	15072		54840	05120
	51879	15074		54842	05122
	51880	15078		54843	05134
	51881	15080		54844	05123
	51882	15081		54901	15049
	51883	15083		54902	15115
	51884	15084		54903	15118
	51885	15086		54904	15020
	52506	15031		54905	15024
	52507	15037		54906	15032
	52508	15104		54907	15044
	52509	15109		54908	15129
	52512	15023		54909	15120
	52513	15034		54910	15033
	52514	15040		54911	15036
	52517	15108		54912	15101
	52518	15114		54913	15112
	52520	15121		54914	15119
	52521	14584		54915	15628
	52616	15021		54916	15630
	52801	15035		54917	15631
	52803	15029		54918	15632
	52804	15051		54919	15634
	52805	15012		54920	15633
	52807	09278		55803	05136
	52808	15014		56834	09218
	52809	15016		56835	12291
	52811	15111		56836	12293
	52812	15126		56837	05116
	52866	11887		65504	14627
	52867	11893			
	52868	11876			
	52872	11890			

5.1 ARGOS monthly status report (continued)

<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>	<u>Operating country</u>	<u>WMO Identifier / call sign</u>	<u>Argos Identifier</u>
Atlas Buoys	32315	06380	Atlas Buoys (continued)	51021	06369
	32316	06799		51022	12523
	32317	15808		51023	06517
	32318	06478		52001	12526
	43001	06473		52002	06795
	51006	06798		52003	12524
	51007	15814		52004	06515
	51008	06370		52006	06796
	51009	15811		52007	06797
	51010	06375		52010	06460
	51011	12529		52011	06472
	51014	06521		52012	06471
	51017	12527		52302	12525
	51018	15809			
	51019	06475			
	51020	06518			

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-based sub-system1. Status of geostationary satellitesa. Regions III and IV

**GOES-7:** Prime operational satellite. Position 104.3°W inclination 0.07°. Currently supports GOES-East operations, simultaneous east WEFAX broadcast. East WEFAX broadcast schedule is contained in the 10:55 UTC WEFAX transmission. Spacecraft is drifting at 0.18° per day and will be on station at 108°W on 12 December 1991.

b. Regions I and VI

**METEOSAT-4** is currently the operational satellite at the nominal position.

**METEOSAT-3** is currently located at 49°W and commenced the Atlantic Data Coverage on 1 August 1991 beginning at 00:02 UTC. There is one channel containing a mixture of WEFAX and digital image data using the frequency 1691 MHz. Information on the dissemination schedule can be obtained from EUMETSAT.

2. Status of NOAA polar orbiting satellites (updated 1 December 1991)

NOAA Satellite	Status	Launched (D/M/Y)	Ascent/ Descent	Frequencies		
				HRPT	APT	BCN
NOAA-9	In standby	12.12.84	afternoon ascending	1707 (HSB)	137.62(VTX2)	137.77(BTX2)
NOAA-10	In standby	17.09.86	morning descending	1698 (LSB)	137.50(VTX1)	136.77(BTX1)
NOAA-11	Operational	24.09.88	afternoon ascending	1707 (HSB)	137.62(VTX2)	137.77(BTX2)
NOAA-12	Operational	14.05.91	morning descending	1698 (LSB)	137.50(VTX1)	136.77(BTX1)

3. Summary of U.S.S.R. meteorological satellite activity (as at 29 November 1991)a. 137.300 MHz

**METEOR 3-4** has been switched back on again. This matches with the announcement in the recent FANAS bulletin. Good visible mode imagery is being received on 137.300 MHz during daytime north to south passes in the early afternoon.

**METEOR 3-5** has been switched off.

b. 137.850 MHz

**METEOR 2-19** is transmitting regular 120 line visible mode APT imagery on 137.850 MHz.

**METEOR 2-20** has been switched off.

c. Summary

**METEOR 3-4** has resumed regular service on 137.300 MHz with early afternoon north to south passes available.

**METEOR 2-19** is also active, transmitting daytime visible mode imagery on 137.850 MHz.

**METEOR 2-20** and **METEOR 3-5** have both been switched off recently.

**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		
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 II - Global Data-processing System

Date: December 1991

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

### 2. RSMC output products

#### RSMC-BUENOS AIRES

With effect from 1 December 1991, RSMC-Buenos Aires will implement the processing of a 5-level numerical baroclinic model at the regional level.

Processed products will be based on data from 00 UTC and 12 UTC and will include analysis and prognosis charts of 1000, 850, 700, 500, 300 and 200 hPa with isotachs and 1000/500 hPa thickness. These charts will be transmitted in GRID code and by facsimile. Products will also include analysis and prognosis charts of vertical motions at the level of 600 hPa, a chart of the tropopause and maximum wind, precipitable water, equivalent potential temperature at 850 hPa and instability indices. These products will be transmitted by facsimile.

# Annex III - Global Telecommunication System

Date: December 1991

## C. Information on the operation of the GTS

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

#### 2.3 Changes in schedules/broadcasts

##### Notification from Argentina:

New schedule for III-iii Buenos Aires radio-facsimile broadcasts, with effect from 1 December 1991.