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Téléphone: National (022) 730 81 11  
 International + 41 22 730 81 11  
 Télégrammes: METEOMOND GENÈVE  
 Téléx: 23 260 OMM CH  
 Facsimilé: 41 22 734 23 26

SECRETARIAT  
 GENÈVE - Suisse

41, Giuseppe-Motta  
 Case postale N° 2300  
 CH - 1211 Genève 2

W/OIS

Annexes: 3

GENEVA, 14 July 1989

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) (April/May 1989)

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

2. WMO Catalogue of Radiosondes in use by Members

4. Automatic marine stations

5. ARGOS monthly status report

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4376)  
 Directors of Meteorological Services of non-Member countries (MC-2417)  
 Presidents and Vice-Presidents of Regional Associations (P.RA-1207)  
 Presidents and Vice-Presidents of Technical Commissions (P.TC-1325)  
 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 (continued)

6. 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
    - 1.3 Changes to bulletins
  2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
    - 2.3 Changes in schedules/technical specifications
  6. Coastal radio stations (Publication No. 9, Volume D, Part B)
    - 6.1 New stations

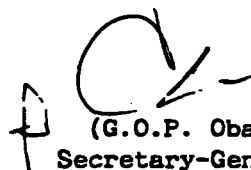
Annex V - Marine Meteorological Services (MMS) and related oceanographic activities

- C. Information on the operation of Marine Meteorological Services
  1. Broadcasts for shipping and other marine activities (Publication No. 9, Volume D, Part A)
    - 1.3 Changes in schedules/technical specifications

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 6, "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: April/May 1989

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

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

#### 1.1 New stations

47695	TOKYO/KASHIWA	3551N	1395E	-	19	. . . . .		. . . . . /
60723	BEJA	3644N	0911E	159	158	. . X X X X X .	H06-18	. . . . . /
60764	KEBILI	3342N	0858E	46	44	. . X X X X X .	H06-18	. . . . . /
63687	KAKAMEGA	0017N	3447E	-	-	X X X X X X X X	H00-23	. . . . . /
63709	KISII	0040S	3447E	-	-	X X X X X X X X	H00-23	. . . . . /
93472	MASTERTON	4058S	17539E	-	101	. . . . . X .		. . . . . /
93868	EDIEVALE	4547S	16921E		270	. . . . . X . . /		
94743	MOUNT BOYCE AWS	3337S	15016E	1080	1080	X X X X X X X X	H00-24	. . . . (AUT) /
94929	BOMBALA AWS	3700S	14914E	751	750	X X X X X X X X	H00-24	. . . . (AUT) /
01298	NORDLI-HOLAND	6427N	1343E	-	438	. . X . X . X .		. . . . . /
01414	ALFJORDEN	5935N	0530E	-	22	X X X X X X X X		. . . . . /
01496	HOLAND-LOKEN	5948N	1128E		139	. . X . X . X .		. . . . . /
03039	KILCHOAN	5642N	0607W	-	10	. .07 X X X X X		. . . . . /
03080	ABOYNE	5705N	0250W	-	140	X X X X X X X X	H00-24	. . . . (AUT) /
03144	STRATHALLAN	5619N	0344W	-	35	X X X X X X X X	H00-24	. . . . (AUT) /
03387	EASINGTON	5340N	0007E	-	10	X X X X X X X X		. . . . . /
03701	GAWLISH	5101N	0430W	-	126	. . . X X X X X		. . . . . /
03712	TIVINGTON	5112N	0332W	-	83	X . X X X X X X		. . . . . /
03800	SCILLY, ST. MARYS AIRPORT	4955N	0617W	-	45	. .07 X X X X .	H09-17	. . . . . /
03873	TOTLAND	5041N	0132W	-	20	. . . X X X X X		. . . . . /
06731	WIMIS	4646N	0739E	-	630	X X X X X X X X		. . . . . /
06756	COMPROVASCO	4628N	0856E	574	575	X X X X X X X X		. . . . . /
10127	WILHELMSHAVEN	5332N	0815E	-	21	. . . . .		. . . . . /
10141	HAMBURG-SASEL	5339N	1007E	49	49	. . . . .		. . . . . /
10146	QUICKBORN	5344N	0953E	17	13	. . . . .		. . . . . /

#### 1.2 Deleted stations

63738 MAGADI / 93312 STRATFORD / 93316 HAWERA / 93755 FAIRLIE / 93871 RANFURLY /  
 93889 NUGGET POINT / 03029 ARDNAMURCHAN / 03131 MULL OF GALLOWAY /  
 03167 BASS ROCK / 03393 DONNA NOOK / 03598 ALDEBURGH / 03612 TRECATTLE /  
 03704 HARTLAND / 03709 MINEHEAD / 01439 KONSAMO-EIKELAND / 06732 SPIEZ /  
 06755 OLIVONE / 10146 AHRENSBURG /

#### 1.3 Changes to existing stations

60714	BIZERTE						P	P	P	. /
60715	TUNIS-CARTHAGE						RW	P	P	. /
60738	THALA						P	P	P	. /
60748	SIDI BOUZID						.	.	.	. /
60775	REMADA						.	P	P	. /
60780	EL BORMA						.	P	P	. /
93012	KAITAIA						RW	.	RW	W /
93337	WAIOURU						.	.	.	. /
93417	PARAPARAUMU AERODROME						RW	.	RW	W /
93844	INVERCARGILL AERODROME						RW	.	RW	W /

94374	ROCKHAMPTON AIRPORT	23 02 05 08 11 14 17 20	H00-24 /						
94527	MOREE							PR	P PR P /
94802	ALBANY AIRPORT	01 04 07 10 13 16 19 22	H16-13	RW	W RW	W /			
01065	KARASJOK	X . X . X . X .	/						
01238	FOKSTUA	. . X X X X X X	/						
01306	HELLISOY	X . X X X X X X	/						
01406	SLATTEROY FYR	. X X X X X X X	/						
01436	LINDESNES FYR	. . X X X X . X	/						
10113	NORDERNEY	X X X X X X X X	H00-24 /						
10203	EMDEN-HAFEN	. . X X X X .	H05-15 /						
10253	LUECHOW	. . X X X X . .	H05-15 /						
10430	BAD LIPPSPRINGE	. . X X X X . .	H05-15 /						
10501	AACHEN	X X X X X X X X	H00-24 /						
10526	BAD MARIENBERG	. . X X X X . .	H05-15 /						
10635	KLEINER FELDBERG/TAUNUS	. . X X X X X X	H05-21 /						
10727	KARLSRUHE	. . X X X X . .	H05-15 /						
10729	MANNHEIM	X X X X X X X X	H00-24 /						
10742	OEHRINGEN	. . X X X X . .	H05-15 /						
10761	WEISSENBURG	. . X X X X . .	H05-15 /						
10791	GROSSER ARBER	. . X X X X X X	H05-21 /						
10815	FREUDENSTADT	. . X X X X X X	H05-21 /						
10836	STOETTEN	X X X X X X X X	H00-24 /						
10961	ZUGSPITZE	X X X X X X X X	H03-24 /						
10980	WENDELSTEIN	. . X X X X X X	H05-21 /						
13275	BEOGRAD KOSUTNJAK	. . . . . . . .		RW	. . . . /				
13388	NIS	X X X X X X X X			. . . . /				
63710	KERICHO	X X X X X X X X	H00-23 /						
63717	NYERI	X X X X X X X X	H00-23 /						
63741	NAIROBI/DAGORETTI	X X X X X X X X	H00-23 /						

### 1.5 Temporary Changes

01203	KRAKENES FYR	- Inoperative from 1 June to 30 June 1989
01304	YTTEROYAN FYR	- Inoperative from 29 May to 8 July 1989
01306	HELLISOY FYR	- Inoperative from 4 June to 1 July 1989
02049	GALLIVARE FLYGPLATS	- Surface observations at 18 UTC on 6 and H06-09 on 7
02122	STENUDDEN	- H05 on 1-5
02128	GUNNARN	- H04-16 on 1-5, H05 and H10-17 on 6-7
02144	SUDESJAUR	- H04-08 on 1-5
02160	NATTAVARA	- H04, 05, 10 on 1-5
02206	STORLIEN-VISJOVALEN	- H04-08 on 1-5 and H05-07 on 6-7
02267	ORNSKOLDSVIK FLYGPLATS	- Surface observations at 21 UTC on 1-5, 7
02296	BJUROKLUBB	- H05, 10 on 1-5
02407	GALLEUDDE	- Surface observations at 05 and 17 instead of 06 and 18 UTC
02474	SINGO	- H04-10 on 1-5, and H04-08 on 6-7
02543	FAGRE	- H02-07 on 1-5, H10, 16 on 4
02556	HAGSHULT	- H04-08 on 1-6
02662	VISSEFJARDA	- Surface observations at 03, 06, 09 UTC on 1-4, at 03, 06 UTC on 5, H04-11 on 1-4, on 5, H04-11 on 1-4, H04-08 on 5

2. WMO Catalogue of Radiosondes in use by MembersNew Zealand

Upper-air stations 93012 KAITAIA and 93844 INVERCARGILL AERODROME are using radiosondes of the type VAISALA RS 80-15 and PP11 ground station interfaces. Solar corrections are applied.

4. Automatic marine stationsCanada

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 stations located in Vancouver and Toronto. 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>
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	Peak wind gust

## Moored buoys (North-east Pacific):

<u>WMO buoy Identifier</u>	<u>Position 26 April 1989</u>		<u>Observed or technical parameters</u>							
			<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
46004	50°56'N	135°52'W	X	X	X	X	X	X	X	X
46036	48°18'N	133°51'W	X	X	X	X	X	X	X	X
46181	53°49'N	128°51'W	X	X	X	X	X	X	X	X
46182	49°29'N	123°18'W	X	X	X	X	X	X	X	X
46184	53°57'N	138°45'W	X	X	X	X	X	X	X	X
46205	54°17'N	133°24'W	X	X	X	X	X	X	X	X
46206	48°50'N	126°00'W	X	X	X	X	X	X	X	X

## Moored buoys (North-west Atlantic):

44137	41°36'N	61°08'W	X	X	X	X	X	X	X
44138	44°15'N	53°37'W	.	X	X	X	X	X	.
44139	44°20'N	57°21'W	.	X	X	X	X	X	.

## Drifting buoys (Arctic Ice Pack):

WMO buoy Identifier	Argos Identifier	Position 26 April 1989		Observed or technical parameters							
				1	2	3	4	5	6	7	8
47503	03838	79°17'N	102°03'W	X	X	X	X	.	.	.	X
48511	03289	75°57'N	126°45'W	.	X	X	.	.	.	.	.
48512	07013	77°17'N	175°44'E	.	X	X	.	.	.	.	.
48513	07014	72°56'N	175°42'E	.	X	X	.	.	.	.	.
48515	07433	74°08'N	175°23'W	.	X	X	.	.	.	.	.
48532	07054	70°08'N	143°51'W	.	.	*	.	.	.	.	.
48535	07056	71°36'W	133°02'W	.	X	X	.	.	.	.	.
48539	07056	71°32'N	142°36'W	.	.	X	.	.	.	.	.

## Drifting buoys (North-east Pacific):

WMO buoy Identifier	Argos Identifier	Position 26 April 1989		Observed or technical parameters							
				1	2	3	4	5	6	7	8
48540	03831	74°25'N	163°06'W	.	.	X	.	.	.	.	.
46694	07141	46°42'N	132°12'W	.	X	X	.	X	.	.	.
46695	07142	46°15'N	143°08'W	.	X	X	.	X	.	.	.
46696	07143	50°26'N	159°26'W	.	X	X	.	X	.	.	.
46697	07144	42°29'N	131°50'W	*	X	X	.	X	.	.	X
46698	07145	40°01'N	168°02'W	.	X	X	.	X	.	.	.
46699	07146	47°09'N	162°28'W	.	X	X	.	X	.	.	.
46700	07147	48°29'N	150°09'W	.	X	X	.	X	.	.	.
46701	07148	50°58'N	144°32'W	.	X	X	.	X	.	.	.
46702	07149	32°53'N	163°14'W	X <sup>1/</sup>	X	X	.	X	.	.	X

1/ Wind speed only

\* Sensor/system failure

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the May 1989 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

Column	Observed or technical parameters
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 May 1989		Observed or technical parameters						
			1	2	3	4	5	6	7
32302	18°00'S	85°06'W	X	X	X	.	X	X	X
41001	34°54'N	72°54'W	X	X	X	.	X	X	X
41002	32°12'N	75°18'W	*	*	*	.	*	*	*
41006	29°18'N	77°24'W	X	X	X	.	X	X	X
41008	30°42'N	81°06'W	X	X	X	.	X	X	X
41009	28°30'N	80°12'W	X	X	X	.	X	X	X
41010	28°54'N	78°30'W	X	X	X	.	X	X	X
42001	25°54'N	89°42'W	X	X	X	.	X	X	X
42002	26°00'N	93°30'W	X	X	X	.	X	X	X
42003	25°54'N	85°54'W	X	*	X	.	X	X	X
42007	30°06'N	88°48'W	X	X	X	.	X	X	X
42015	30°06'N	88°06'W	X	X	X	.	X	X	X
42016	30°12'N	88°06'W	X	X	X	.	X	X	X
42017	27°54'N	90°54'W	X	X	X	.	X	.	.
44004	38°30'N	70°36'W	X	X	X	.	X	X	X
44005	42°42'N	68°36'W	X	X	X	.	X	X	X
44007	43°30'N	70°06'W	X	X	X	.	X	X	X
44008	40°30'N	69°30'W	X	X	X	.	X	X	X
44009	38°30'N	74°36'W	X	X	X	.	X	X	X
44011	41°06'N	66°36'W	X	X	X	.	X	X	X
44012	38°48'N	74°36'W	X	X	X	.	X	X	X
44013	42°24'N	70°48'W	X	X	X	.	X	X	X
45001	48°00'N	87°42'W	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
45004	47°36'N	86°30'W	X	X	X	.	X	X	X
45005	41°42'N	82°24'W	X	X	X	.	X	X	X
45006	47°18'N	89°54'W	X	X	X	.	X	X	X
45007	42°42'N	87°06'W	X	*	*	.	X	X	X
45008	44°18'N	82°24'W	X	X	X	.	X	X	X
46001	56°18'N	148°18'W	X	X	X	.	X	X	X
46002	42°30'N	130°24'W	X	X	X	.	X	X	X
46003	51°54'N	155°54'W	*	*	*	.	*	*	*
46005	46°06'N	131°00'W	X	X	X	.	X	X	X
46006	40°48'N	137°36'W	X	X	X	.	X	X	X
46010	46°12'N	124°12'W	*	*	*	.	*	*	*
46011	34°54'N	120°54'W	X	X	X	.	X	X	X
46012	37°24'N	122°42'W	X	X	X	.	X	X	X
46013	38°12'N	123°18'W	X	X	X	.	X	*	*
46014	39°12'N	124°00'W	*	*	*	.	*	*	*
46022	40°48'N	124°30'W	X	X	X	.	X	X	X
46023	34°18'N	120°42'W	X	X	X	.	X	X	X

\* Sensor/system failure

## Moored buoys (continued):

WMO buoy Identifier	Position May 1989		Observed or technical parameters						
			1	2	3	4	5	6	7
46025	33°42'N	119°06'W	X	X	*	.	X	X	X
46026	37°48'N	122°42'W	X	X	X	.	X	X	X
46027	41°48'N	124°24'W	X	X	X	.	X	X	X
46028	35°48'N	121°54'W	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
46040	44°48'N	124°18'W	X	X	X	.	X	X	X
46041	47°24'N	124°30'W	X	X	X	.	X	X	X
46042	36°48'N	122°24'W	X	X	X	.	X	X	X
51001	23°24'N	162°18'W	X	X	X	.	X	X	X
51002	17°12'N	157°48'W	X	X	X	.	X	X	X
51003	19°12'N	160°48'W	X	X	X	.	X	X	X
51004	17°30'N	152°36'W	X	X	X	.	X	X	X

## Drifting buoys:

WMO buoy Identifier	Argos Identifier	Position May 1989		Observed or technical parameters								
				1	2	3	4	5	6	7	8	
15810	08826	26°S	013°W	.	X	X	.	X	.	.	.	.
16804	08811	35°S	067°E	.	X	X	.	X	.	.	.	.
16805	08823	44°S	112°E	.	X	X	.	X	.	.	.	.
17801	08953	41°S	037°E	.	X	X	.	X	.	.	.	.
17815	08812	25°S	029°W	.	X	X	.	X	.	.	.	.
17816	08814	39°S	045°E	.	X	X	.	X	.	.	.	.
17819	08824	37°S	077°E	.	X	X	.	X	.	.	.	.
17820	08846	30°S	003°E	.	X	X	.	X	.	.	.	.
17821	08847	30°S	002°E	.	X	X	.	X	.	.	.	.
17822	08848	39°S	015°E	.	X	X	.	X	.	.	.	.
17823	08950	44°S	047°E	.	X	X	.	X	.	.	.	.
17824	08951	54°S	057°E	.	X	X	.	X	.	.	.	.
17825	08952	57°S	053°E	.	X	X	.	*	.	.	.	.
31810	08828	28°S	003°E	.	X	X	.	X	.	.	.	.
32517	06863	28°N	148°W	.	.	.	.	X	.	.	.	X
32521	10806	18°S	096°W	.	.	.	.	X	.	.	.	X
32522	10808	17°S	127°W	.	.	.	.	X	.	.	.	X
32523	10809	10°S	104°W	.	.	.	.	X	.	.	.	X
32524	10810	13°S	092°W	.	.	.	.	X	.	.	.	X
32527	10818	10°S	119°W	.	.	.	.	X	.	.	.	X
32528	10820	20°N	126°W	.	.	.	.	X	.	.	.	X
32531	10812	16°N	122°W	.	.	.	.	X	.	.	.	X
32532	11124	06°S	109°W	.	.	.	.	X	.	.	.	X
32533	11110	09°N	117°W	.	.	.	.	X	.	.	.	X
32534	11152	09°S	104°W	.	.	.	.	X	.	.	.	X
32535	11158	05°N	110°W	.	.	.	.	X	.	.	.	X
32536	11149	06°S	120°W	.	.	.	.	X	.	.	.	X
32539	06866	01°N	082°W	.	.	.	.	X	.	.	.	X
32541	10845	05°S	100°W	.	.	.	.	X	.	.	.	X

\* Sensor/system failure



## Drifting buoys (continued)

WMO buoy Identifier	Argos Identifier	Position May 1989		Observed or technical parameters							
				1	2	3	4	5	6	7	8
32543	11133	05°N	091°W	.	.	.	.	X	.	.	X
32544	11029	05°N	119°W	.	.	.	.	X	.	.	X
32551	06889	16°S	148°W	.	.	.	.	X	.	.	X
32552	06890	06°N	084°W	.	.	.	.	X	.	.	X
32555	06893	17°N	122°W	.	.	.	.	X	.	.	X
32811	09213	28°S	097°W	.	X	X	.	X	.	.	.
32812	09215	37°S	102°W	.	X	X	.	X	.	.	.
32813	09210	22°S	133°W	.	X	X	.	X	.	.	.
33815	08813	39°S	013°E	.	X	X	.	X	.	.	.
33816	08817	49°S	140°E	.	X	X	.	X	.	.	.
33818	08819	40°S	068°E	.	*	X	.	*	.	.	.
33819	08827	42°S	045°E	.	*	X	.	*	.	.	.
33821	08831	46°S	085°E	.	X	X	.	X	.	.	.
33822	08815	33°S	044°E	.	*	X	.	*	.	.	.
33823	08965	52°S	042°W	.	X	X	.	X	.	.	.
33824	08966	48°S	029°W	.	X	X	.	X	.	.	.
34813	08821	47°S	047°E	.	X	X	.	X	.	.	.
34814	09211	26°S	099°W	.	X	X	.	X	.	.	.
41525	08960	33°N	067°W	.	X	X	.	X	.	.	.
41526	08962	31°N	069°W	.	X	X	.	X	.	.	.
41527	09224	33°N	068°W	.	X	X	.	X	.	.	.
42524	07493	25°N	089°W	X	X	X	.	*	.	.	X
42525	07494	26°N	086°W	X	*	*	.	*	.	.	.
43506	11128	06°N	108°W	.	.	.	.	X	.	.	X
43507	10814	13°N	118°W	.	.	.	.	X	.	.	X
43801	06898	06°S	094°W	.	.	.	.	X	.	.	X
43802	06899	10°N	157°W	.	.	.	.	X	.	.	X
43804	10816	13°N	109°W	.	.	.	.	X	.	.	X
43805	10817	03°N	109°W	.	.	.	.	X	.	.	X
44501	04567	45°N	047°W	.	.	.	.	X	.	.	X
44507	04565	50°N	046°W	.	.	.	.	X	.	.	X
44508	04537	44°N	047°W	.	.	.	.	X	.	.	.
44509	09879	52°N	047°W	.	.	X	.	X	.	.	.
44510	09875	52°N	043°W	.	.	X	.	X	.	.	X
44511	04569	50°N	050°W	.	.	.	.	X	.	.	X
44512	04568	47°N	047°W	.	.	.	.	X	.	.	X
44518	08958	63°N	002°W	.	X	X	.	X	.	.	.
46507	05567	57°N	151°W	X	X	X	.	X	.	.	.
51510	06873	15°N	144°W	.	.	.	.	X	.	.	X
51511	06883	21°S	157°W	.	.	.	.	X	.	.	X

\* Sensor/system failure

## Drifting buoys (continued):

WMO buoy Identifier	Argos Identifier	Position March 1989		Observed or technical parameters							
				1	2	3	4	5	6	7	8
51512	06884	03°S	152°E	.	.	.	.	X	.	.	X
51513	06885	18°N	159°W	.	.	.	.	X	.	.	X
51518	06557	24°N	154°W	.	.	.	.	X	.	.	X
51520	06887	04°S	157°E	.	.	.	.	X	.	.	X
51801	06894	11°S	172°E	.	.	.	.	X	.	.	X
51809	11156	15°N	154°W	.	.	.	.	X	.	.	X
51810	11145	09°N	153°W	.	.	.	.	X	.	.	X
51813	11135	15°S	157°W	.	.	.	.	X	.	.	X
51814	11129	08°N	147°W	.	.	.	.	X	.	.	X
51816	11047	04°N	126°W	.	.	.	.	X	.	.	X
51821	11122	06°S	144°W	.	.	.	.	X	.	.	X
51822	11139	17°N	159°W	.	.	.	.	X	.	.	X
51823	11113	09°N	145°W	.	.	.	.	X	.	.	X
51824	11118	07°S	146°W	.	.	.	.	X	.	.	X
51825	11014	09°N	161°W	.	.	.	.	X	.	.	X
51826	11140	06°S	163°W	.	.	.	.	X	.	.	X
52005	01350	09°N	145°E	X	*	X	.	.	.	.	.
52501	08955	10°N	127°E	.	*	X	.	*	.	.	.
52504	08972	14°N	124°E	X <sup>1/</sup>	X	X	.	X	.	.	.
52507	10581	14°N	130°E	.	.	.	.	X	.	.	X
52510	10591	18°N	132°E	.	.	.	.	X	.	.	X
52512	10593	04°S	150°E	.	.	.	.	X	.	.	X
52515	10575	24°N	132°E	.	.	.	.	X	.	.	X
52516	10578	19°N	127°E	.	.	.	.	X	.	.	X
52517	10583	09°N	136°E	.	.	.	.	X	.	.	X
52520	10590	17°N	139°E	.	.	.	.	X	.	.	X
52525	10585	03°S	149°E	.	.	.	.	X	.	.	X
52527	10596	01°S	143°E	.	.	.	.	X	.	.	X
52529	10598	08°S	165°E	.	.	.	.	X	.	.	X
52805	06851	23°S	156°W	.	.	.	.	X	.	.	X
52806	06880	15°N	172°E	.	.	.	.	X	.	.	X
52818	06870	12°N	151°E	.	.	.	.	X	.	.	X
52833	10804	09°S	151°E	.	.	.	.	X	.	.	X
52838	11157	11°N	155°E	.	.	.	.	X	.	.	X
52839	11148	06°S	168°E	.	.	.	.	X	.	.	X
52848	11023	03°S	154°E	.	.	.	.	X	.	.	X
52849	11019	17°S	169°E	.	.	.	.	X	.	.	X

\* Sensor/system failure

1/ Wind speed only

## Drifting buoys (continued):

WMO buoy Identifier	Argos Identifier	Position May 1989		Observed or technical parameters							
				1	2	3	4	5	6	7	8
52850	11017	01°N	148°E	.	.	.	.	X	.	.	X
52851	11010	09°S	164°W	.	.	.	.	X	.	.	X
53802	06874	06°N	133°E	.	.	.	.	X	.	.	X
53812	10576	05°N	126°E	.	.	.	.	X	.	.	X
53813	10577	22°N	122°E	.	.	.	.	X	.	.	X
53816	10574	11°N	126°E	.	.	.	.	X	.	.	X
53818	10570	33°N	133°E	.	.	.	.	X	.	.	X
54818	06771	25°S	179°E	.	X	X	.	X	.	.	.
54819	06772	38°S	144°W	.	X	X	.	X	.	.	.
54820	08820	54°S	004°W	.	X	X	.	X	.	.	.
54821	08838	46°S	075°W	.	*	X	.	X	.	.	.
54823	09212	32°S	090°W	.	X	X	.	X	.	.	.
54824	09214	31°S	131°W	.	X	X	.	X	.	.	.
54826	08835	38°S	140°W	.	X	X	.	X	.	.	.
54827	08834	27°S	162°W	.	X	X	.	X	.	.	.
54828	08836	37°S	118°W	.	X	X	.	X	.	.	.
55801	09223	50°S	165°W	.	X	X	.	X	.	.	.
55827	06775	22°S	166°E	.	*	X	.	*	.	.	.
55829	06785	56°S	156°W	.	X	X	.	X	.	.	.
56820	06731	39°S	170°E	.	X	X	.	X	.	.	.
56823	06760	62°S	179°E	.	X	X	.	X	.	.	.
56824	08841	11°S	096°E	.	X	X	.	X	.	.	.
56825	08833	52°S	171°E	.	X	X	.	X	.	.	.
56826	08842	27°S	077°E	.	X	X	.	X	.	.	.
64539	11240	62°N	036°W	.	X	X	.	X	.	.	X
71804	08810	56°S	005°E	.	X	X	.	*	.	.	.
71807	08964	56°S	035°W	.	X	X	.	X	.	.	.
72807	07037	68°S	178°W	.	.	X	.	.	.	.	.
72809	07038	68°S	163°W	.	.	X	.	.	.	.	.
73651	03883	74°S	178°W	.	.	X	.	.	.	.	.
73801	08961	57°S	145°W	.	X	X	.	X	.	.	.

- Sensor/system failure

Note:

- 215 drifting buoys have been deployed in support of the Tropical Ocean Global Atmosphere (TOGA) project; 49 are operational.

5. Argos monthly status report

5.1 As at 1 May 1989, the Argos service was handling reports from 630 drifting buoys, 103 moored buoys, 1 balloon, 8 ships, 97 animal trackings, 421 fixed stations, 25 boats and 19 miscellaneous platforms. DRIBU reports from 41 drifting buoys, SHIP reports from 19 selected ships and BATHY reports from 13 selected ships were transmitted to the RTH Paris and DRIBU reports from 189 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 is given below.

DRIBU code:

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Australia	55011	02963
	55012+	02954
	55013	04628
	55512	02956
	55513	04627
	55518	05254
	55557	02957
	56541	02946
	56542	02944
	56543	02949
	56544	02935
	94997	02943
	Canada	44231+
44673		03324
44682		08646
44683		08647
44690		08654
44691		08655
44692		08656
44693		08657
44694		08658
44695		08695
France	44696	08660
	47550	04651
	44604	05794
	62060+	00231
	62508	05793
	62509	05820
	62551	00200
	62552	00205
	62553	00213
	62554	00216
	62555	00222
	62556	00227
62557	00232	
62558	00239	
62559	00242	
62560	00243	

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

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
France	62561	00244
	62562	00245
	62563	00328
	62564	00329
	62565	00334
	62566	00358
	62567	00365
	62579+	00249
	64523	05635
	3BBA*	
	DHJW*	
	FNGS*	
	FNJT*	
	FNOM*	
	FNPA*	
	FNQC*	
	FNZP*	
FNZQ*		
FPID*		
FPYO*		
HPEW*		
JPJX*		
Netherlands	44613	04179
	64561	04188
	64562	04178
New Zealand	55577	06436
	55578	06437
	55579	06435
	55580	06439
	55581	06438
Norway	17003	01758
	44727	02294
	65581	01299
	71001	01757
	64528+	01298
Portugal	62691	01077
	62692	01078
South Africa**	16021	09490
United Kingdom	44728	04039
	44742	06292
	62601	03906
	62602	03907
	62603	03908

\*\* 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.

\* PTTs transmitting BATHY reports at irregular intervals.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United Kingdom (continued)	62604	03909
	64043	06271
	64548	03973
	64551	06289
United States of America	15810	08826
	16804	08811
	16805	08823
	17801	08953
	17815	08812
	17816	08814
	17817	08822
	17819	08824
	17820	08846
	17821	08847
	17822	08848
	17823	08950
	17824	08951
	17825	08952
	23501	11314
	31810	08828
	32315	06461
	32316	06460
	32317	06379
	32318	06372
	32517	06863
	32521	10806
	32522	10808
	32523	10809
	32524	10810
	32525	10811
	32527	10818
	32528	10820
	32531	10812
	32532	11124
	32533	11110
	32534	11152
	32535	11158
	32536	11149
	32539	06866
	32541	10845
	32543	11133
	32544	11029
	32551	06889
	32552	06890
	32555	06893
	32557	06850
	32559+	11119
32811	09213	
32812	09215	
32813	09210	
33815	08813	
33816	08817	
33818	08819	

+ 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)	33819	08827
	33821	08831
	33822	08815
	33823	08965
	33824	08966
	34813	08821
	34814	09211
	41525	08960
	41526	08962
	41527	09224
	42521	03347
	42522+	03553
	42523	03345
	42524+	07493
	42525+	07494
	43506	11128
	43507	10814
	43801	06898
	43802	06899
	43804	10816
	43805	10817
	44507	04565
	44508	04537
	44509	09879
	44510	09875
	44511	04569
	44512	04568
	44518	08958
	44564	11425
	44569	11430
	44574	11440
	44576	11442
	44579	11447
	44580	11448
	44581	11449
	44583	11444
	44738	05438
	46505	08967
	46506	08968
	46507+	05567
	46508+	05568
	51006	06371
	51009	06369
	51010	06471
	51011	06381
	51510	06873
	51511	06883
	51512	06884
	51513	06885
	51518	06857
	51520	06887
51801	06894	
51809	11156	

+ 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)	51810	11145
	51812+	11141
	51813	11135
	51814	11129
	51815	11125
	51816	11047
	51821	11121
	51822	11139
	51823	11113
	51824	11118
	51825	11014
	51826	11140
	52001	06376
	52002	06516
	52003	06380
	52005	01350
	52501	08955
	52504	08972
	52507	10581
	52510	10591
	52512	10593
	52515	10575
	52516	10578
	52851	11010
	52517	10583
	53520	10590
	52525	10585
	52527	10596
	52529	10598
	52805	06851
	52806	06880
	52818+	06870
	52831+	10802
	52833	10804
	52837	11138
	52838	11157
	52839	11148
	52840	11132
	52841	11131
	52848	11023
	52849	11019
	52850	11017
	52851	11010
	53812	10576
	33813	10577
	53816	10574
	53818	10570
54818	06771	
54819	06772	
54820	08820	
54821	08838	
54823	09212	
54824	09214	
54826	08835	
54827	08834	

+ PTTs 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)	54828	08836
	55801	09223
	55815	06773
	55827	06775
	55828	06776
	55829	06785
	55830	09216
	56820	06731
	56823	06760
	56824	08841
	56825	08833
	56826	08842
	64533+	06392
	71804	08810
	71807	08964
	72807	07037
	72809	07038
	73651	03883
	73801	08961

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

Note

Members operating Argos Local Users Terminals (LUTs) are invited to submit to the Secretariat by telex, the list of platforms entering reports into the GTS through their LUTs, effective on or around the 20th of each month.

6. 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 WWV 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 TTAA11 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 (IIiii) 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: April/May 1989

## A. GTS regulatory or guidance material

### 3. Amendments to the Manual on the Global Telecommunication System

In Volume II - Regional Aspects - Region VI - Europe, Part II - Table A, the information concerning Switzerland is to be amended as follows:

Telex call number : 816 816  
AFTN address : LSZWYT  
Telecopier call number : 256 93 93

## C. Information on the operation of the GTS

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

#### 1.1 New Bulletins

##### New Zealand

New Zealand has notified that new public weather bulletin of Fiji FPFJ40 NFFN will be relayed through WELLINGTON RTH and transmitted on the GTS.

#### 1.3 Changes to bulletins

##### New Zealand

Synoptic stations 93337 and 93434 are being replaced by synoptic stations 93334 and 93436 respectively in all meteorological bulletins SMNZ01 NZKL and SINZ20 NZKL.

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

#### 2.3 Changes in schedules/technical specifications

I-iii NAIROBI radio-facsimile broadcast effective 1 May 1989 changes.

V-iii MELBOURNE radio-facsimile broadcast effective 1 July 1989 replace respectively (AXM37) 19690 kHz by (AXM37) 20469 kHz. Insert temporarily for 12 months the new frequency (AXM31) 2628 kHz.

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

#### 6.1 New stations

##### USSR

The USSR has notified that as from 1 April 1989 the INMARSAT coast earth station Odessa accepts ships' weather reports free of charge to the ship in WMO zones VI-B and VI-C and in the Indian Ocean between 30° E and 80° E North of 60° S. Reports are routed to meteo Odessa by automatic service code (41).

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

Date: April/May 1989

C. Information on the operation of Marine Meteorological Services

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

1.3 Changes in schedules/technical specifications

Aii-VI OFFENBACH (MAIN) - HAMBURG/PINNEBERG (DDH3/DDK3/DDK6) radio-facsimile broadcast for shipping effective 24.4.89 chart 97909 : wave prediction (H+36) North Atlantic is again transmitted at 1520 and 2140 UTC.

Aii-VI OFFENBACH (MAIN)/MAINFLINGEN (DCF37) radio-facsimile broadcast effective 10.5.89 changes as follows:

- replace the transmission times and the number of the following charts:

98548	0941	by	0953	UTC,	No.	32	by	No.	33
98521	0953	by	0941	UTC,	No.	33	by	No.	32
98593	1501	by	1601	UTC,	No.	48	by	No.	50C
98557	1513	by	1549	UTC,	No.	49	by	No.	50B
98558	1525	by	1613	UTC,	No.	50	by	No.	50D

- insert the following new charts:

98551	at	1501	UTC:	FUAF	LFPW	FL	300	(VT 0000)	No.	48
98552	at	1513	UTC:	FUAF	LFPW	FL	390	(VT 0000)	No.	49
98555	at	1525	UTC:	FBAF	LFPW			(VT 0000)	No.	50