E/CC

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W/OIS
Annexes: 4

GENEVA, 21 July 1989

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

4. Automatic marine stations

5. ARGOS monthly status report

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

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO (PR-4380)
Directors of Meteorological Services of non-Member countries (MC-2418)
Presidents and Vice-Presidents of Regional Associations (P.RA-1208)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1326)
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

1. WMC output products

1.1 New Products

6. International Exchange Grids

Annex III - Global Telecommunication System

C. Information on the operation of the GTS

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

1.3 Changes to 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

3. National practices

3.3 Changes to codes

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: June/July 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

47124	SONGMU AB	3624N	12730E	79	79	. . . .	H00-24	. . . . /
93317	HAWERA	3935S	17417E	-	102	X X X X X X X X		. . . . /
93340	WAIOURU	3927S	17539E	-	822	X X . . . . X* X		. . . . /
01484	JELOV	5926N	1036E	-	12	. . X X X . X .		. . . . /
07134	LAVAL	4802N	0123W	101	100	X X X X X X X X	H00-24	. . . . (AUT)/
07632	ALBI	4355N	0207E	178	172	X X X X X X X X	H00-24	. . . . /
11037	GROSSEN-ZERSDORF	4812N	1634E	-	153	. . . .		. . . . /
11186	WECHSEL/SUD SPARBEREGG	4726N	1607E	-	730	. . . .	H06-16	. . . . /

* At 1930 UTC

1.2 Deleted stations

47132 TAEJON AB / 47154 PUSAN E AB / 47191 IRI / 01414 ALFJORDEN /
07270 CHATEAU-CHINON / 07640 ALBI /

1.3 Changes to existing stations

28225	PERM	X X X X X X X X	RW W RW W /
38341	DZAMBUL	X X X X X X X X	RW RW RW RW /
47080	KOJIN AB		. . . . /
47107	KANGNUNG AB		P . . . /
47111	SEOUL E AB		. . . . /
47118	HOENGSONG AB		. P . . /
47187	MOSULPO AB		. . . . /
71955	STEWART, B.C.	X . . . . . X . /	
93766	ASHBURTON	X X X X X X X X	. . . . /
94374	ROCKHAMPTON AIRPORT	23 02 05 08 11 14 17 20	P P P P /
01065	KARASJOK	X X X . X . X . /	
01115	MYKEN	. X X . X . X . /	
01155	BO I VESTERALEN II	. . 07 . X . X X /	
01360	BRATA	. X X X X X X . /	
07003	LE TOUQUET	X X X X X X X X	H00-24 /
07153	MELUN	X X X X X X X X	H00-24 /
07201	QUIMPER	X X X X X X X X	H00-24 /
07530	BERGERAC	X X X X X X X X	H00-24 /
07684	CANNES	X X X X X X X X	H00-24 /
10156	LUEBECK-BLANKENSEE	. . X X X X X X	H05-21 /
10761	WEISSENBURG	. . X X X X X X	H05-21 /
10908	FELDBERG/SCHWARZWALD	. X X X X X X X	H03-21 /
11171	ST.SEBASTIAN/ MARIAZELL	. . . .	/
11172	MARIAZELL	X X X X X X X X	/
22217	KANDALAKSA	X X X X X X X X	RW RW RW RW /
22820	PETROZAVODSK	X X X X X X X X	RW W RW RW /
26406	LIEPAJA	X X X X X X X X	RW RW RW RW /

26477	VLIKIE LUKI	X	X	X	X	X	X	X	X	RW	W	RW	RW /
27707	SUHINICI	X	X	X	X	X	X	X	X	RW	W	RW	W /
27731	RJAZAN	X	X	X	X	X	X	X	X	RW	RW	RW	W /
27962	PENZA	X	X	X	X	X	X	X	X	RW	RW	RW	RW /
33317	SEPETOVKA	X	X	X	X	X	X	X	X	RW	RW	RW	RW /
33791	KRIVOJ ROG	X	X	X	X	X	X	X	X	RW	W	RW	W /
34247	KALAC	X	X	X	X	X	X	X	X	RW	W	RW	W /

1.5 Temporary Changes

Argentina has notified that 12 UTC upper-air observations at stations 87047 Salta Aero, 87155 Resistencia Aero, 87418 Mendoza Aero and 87623 Santa Rosa are temporarily suspended.

Finland has notified that 18 UTC upper-air observations at stations 02836 Sodankyla, 02935 Jyvaskyla and 02963 Jokioinen are temporarily suspended from as from 1 July 1989.

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 Terminals in Edmonton and Toronto and distributed on the GTS using the FM 14-VIII 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	Peak wind gust

Moored buoys (North-east Pacific):

WMO buoy Identifier	Position 21 June 1989	Observed or technical parameters 1	2	3	4	5	6	7	8
46004	50°56'N 135°52'W	*	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°25'W	X	X	X	X	X	X	X	X
46206	48°50'N 126°00'W	X	X	X	X	X	X	X	X

* Sensor/system failure

Moored buoys (North-west Atlantic):

WMO buoy Identifier	Argos Identifier	Position 21 June 1989		Observed or technical parameters 1	2	3	4	5	6	7	8
44137	03448	41°12'N	61°08'W	X	X	X	X	X	X	X	X
44138		44°15'N	53°37'W	.	X	X	X	X	X	X	.
44139		44°20'N	57°21'W	.	X	X	X	X	X	X	.

Moored buoys (Great Lakes):

WMO buoy Identifier	Position 21 June 1989		Observed or technical parameters 1	2	3	4	5	6	7	8
45132	42°17'N	081°08'W	X	X	X	.	X	X	.	.
45135	43°30'N	078°12'W	X	X	X	.	X	X	.	.
45136	48°19'N	086°35'W	X	X	X	.	X	X	.	.

Drifting buoys (Arctic Ice Pack):

WMO buoy Identifier	Argos Identifier	Position 21 June 1989		Observed or technical parameters 1	2	3	4	5	6	7	8
47503	03838	79°04'N	102°16'W	X	X	X	.	.	.	.	X
47504	07406	83°46'N	66°03'W	.	.	X	.	.	.	.	.
48511	03289	75°00'N	126°51'W	.	X	X	.	.	.	.	.
48512	07013	78°13'N	179°56'E	.	X	X	.	.	.	.	.
48513	07014	73°03'N	174°59'E	.	X	X	.	.	.	.	.
48515	07433	74°48'N	175°34'W	.	X	X	.	.	.	.	.
48535	07056	71°03'W	136°34'W	.	X	X	.	.	.	.	.
48535	07407	84°22'N	113°38'W	.	.	X	.	.	.	.	.
48536	07405	87°53'N	90°00'W	.	.	X	.	.	.	.	.
48539	07409	71°53'N	145°34'W	.	.	X	.	.	.	.	.
48554	07412	82°45'N	119°06'W	.	.	X	.	.	.	.	.

Drifting buoys (North-east Pacific):

WMO buoy Identifier	Argos Identifier	Position 21 June 1989		Observed or technical parameters 1	2	3	4	5	6	7	8
46707	07131	45°08'N	154°40'W	.	X	X	.	X	.	.	.
46693	07140	40°22'N	159°58'W	.	X	X	.	X	.	.	.
46694	07141	45°45'N	131°17'W	.	X	X	.	X	.	.	.
46695	07142	44°49'N	138°21'W	.	X	X	.	X	.	.	.
46697	07144	39°32'N	130°43'W	.	X	X	.	X	.	.	.
46698	07145	41°14'N	167°30'W	.	X	X	.	X	.	.	.
46699	07146	46°44'N	159°53'W	.	X	X	.	X	.	.	.
46700	07147	49°29'N	144°15'W	.	X	X	.	X	.	.	.
46701	07148	52°11'N	142°01'W	.	X	X	.	X	.	.	.
46702	07149	30°00'N	163°43'W	.	X	X	.	X	.	.	.

United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the June/July 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 July 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	X	X	X	.	X	X	X
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
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
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°12'N	88°12'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

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

* Sensor/system failure

Moored buoys (continued):

WMO buoy Identifier	Position July 1989		Observed or technical parameters 1	2	3	4	5	6	7
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	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
46010**	46°12'N	124°12'W	X	X	X	.	X	X	X
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	X	X
46014	39°12'N	124°00'W	X	X	X	.	X	X	X
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
46025	33°42'N	119°06'W	*	*	*	.	*	*	*
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	*	*	*	.	*	*	*
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

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

* Sensor/system failure

Drifting buoys:

WMO buoy Identifier	Argos Identifier	Position July 1989		Observed or technical parameters 1	2	3	4	5	6	7	8
15810	08826	28°S	018°W	.	X	X	.	X	.	.	.
16805	08823	46°S	119°E	.	X	X	.	X	.	.	.
17801	08953	40°S	049°E	.	X	X	.	X	.	.	.
17815	08812	25°S	033°W	.	X	X	.	X	.	.	.
17816	08814	44°S	062°E	.	X	X	.	X	.	.	.
17819	08824	35°S	078°E	.	X	X	.	X	.	.	.
17820	08846	28°S	003°E	.	X	X	.	X	.	.	.
17821	08847	28°S	002°W	.	X	X	.	X	.	.	.
17822	08848	40°S	019°E	.	X	X	.	X	.	.	.
17823	08950	43°S	056°E	.	X	X	.	X	.	.	.
17824	08951	54°S	074°E	.	X	X	.	X	.	.	.
17825	08952	57°S	071°E	.	X	X	.	*	.	.	.
31810	08828	30°S	000°W	.	X	X	.	X	.	.	.
32811	09213	27°S	097°W	.	X	X	.	X	.	.	.
32812	09215	36°S	096°W	.	X	X	.	X	.	.	.
32813	09210	23°S	133°W	.	X	X	.	X	.	.	.
33815	08813	34°S	014°E	.	X	X	.	X	.	.	.
33816	08817	48°S	151°E	.	X	X	.	X	.	.	.
33818	08819	40°S	080°E	.	*	X	.	*	.	.	.
33821	08831	44°S	093°E	.	X	X	.	X	.	.	.
33823	08965	51°S	024°W	.	X	X	.	X	.	.	.
33824	08966	47°S	022°W	.	X	X	.	X	.	.	.
34813	08821	48°S	058°E	.	X	X	.	X	.	.	.
34814	09211	24°S	101°W	.	X	X	.	X	.	.	.
41525	08960	34°N	069°W	.	X	X	.	X	.	.	.
41526	08962	30°N	063°W	.	X	X	.	X	.	.	.
41527	09224	33°N	068°W	.	X	X	.	X	.	.	.
42524	07493	26°N	087°W	X	X	X	.	*	.	.	X
42525	07494	25°N	085°W	X	*	*	.	*	.	.	.
46507	05567	57°N	156°W	X	X	X	.	X	.	.	.
54818	06771	25°S	177°W	.	X	X	.	X	.	.	.
54819	06772	37°S	139°W	.	X	X	.	X	.	.	.
54820	08820	53°S	005°E	.	X	X	.	X	.	.	.
54823	09212	30°S	088°W	.	X	X	.	X	.	.	.
54824	09214	31°S	130°W	.	X	X	.	X	.	.	.
54826	08835	38°S	136°W	.	X	X	.	X	.	.	.
54827	08834	24°S	160°W	.	X	X	.	X	.	.	.
54828	08836	38°S	112°W	.	X	X	.	X	.	.	.
55801	09223	48°S	157°W	.	X	X	.	X	.	.	.
55829	06785	54°S	135°W	.	X	X	.	X	.	.	.
56820	06731	38°S	171°E	.	X	X	.	X	.	.	.
56823	06760	61°S	159°W	.	X	X	.	X	.	.	.
56824	08841	10°S	085°E	.	X	X	.	X	.	.	.
56825	08833	48°S	179°W	.	X	X	.	X	.	.	.
56826	08842	26°S	072°E	.	X	X	.	X	.	.	.
71804	08810	55°S	017°E	.	X	X	.	*	.	.	.
71807	08964	54°S	027°W	.	X	X	.	X	.	.	.
73801	08961	58°S	126°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 4 July 1989, the Argos service was handling reports from 622 drifting buoys, 92 moored buoys, 0 balloons, 4 ships, 102 animal trackings, 398 fixed stations, 22 boats and 21 miscellaneous platforms. DRIBU reports from 38 drifting buoys, SHIP reports from 8 selected ships and BATHY reports from 12 selected ships were transmitted to the RTH Paris (1) and DRIBU reports from 163 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:

Operating country	WMO Identifier/call sign	Argos Identifier
Australia	55513	04627
	55520	04626
	55521	02956
	55557	02957
	56541	02946
	56542	02944
	56543	02949
	56544	02935
	56545	02930
	94997	02943
Canada	44694+	08658
	44695+	08659
	44696+	08660
	47552	06600
	47553	06601
	47554	06602
France	44604	05794
	44607	05826
	62508	05793
	62509+	05820
	62512	05824
	62551+	00200
	62552+	00205
	62554+	00216
	62556+	00227
	62558+	00239
	62564+	00329
	62568+	00238
	62590+	00214
	64523	05635

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

(1) Due to a strike at the French Meteorological Office reports have been transmitted by Washington instead of Paris by the end of the month.

Operating country	WMO Identifier/call sign	Argos Identifier
France	DHJW*	
	FNGS*	
	FNJT*	
	FNOM*	
	FNPA*	
	FNQB*	
	FNQC*	
	FNZP*	
	FNZQ*	
	FPID*	
	FPYO*	
	HPEW*	
Netherlands	44613	04179
	64561	04188
	64562	04178
New Zealand	55577	06436
	55578	06437
	55579	06435
	55580	06439
	55581	06438
Norway	17003	01758
	44743	01298
	65581	01299
	71001	01757
Portugal	62691+	01077
	62692	01078
South Africa**	16021	09490
United Kingdom	44728	04039
	62601	03906
	62602+	03907
	62603+	03908
	62604	03909
	64548	03973
	64551	06289

** 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.

* PTT's transmitting BATHY reports at irregular intervals.

Operating country	WMO Identifier/call sign	Argos Identifier
United States of America	15810	08826
	16805	08823
	17801	08953
	17815	08812
	17816	08814
	17819	08824
	17820	08846
	17821	08847
	17822	08848
	17823	08950
	17824	08951
	17825	08952
	23503+	11317
	31810	08828
	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
	33819	08827
	33821	08831
	33823	08965

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

Operating country	WMO Identifier/call sign	Argos Identifier
United States of America (continued)	33824	08966
	34813	08821
	34814	09211
	41525	08960
	41526	08962
	41527	09224
	42521+	03347
	43506	11128
	43507	10814
	43801	06898
	43802	06899
	43804	10816
	43805	10817
	44501	04567
	44502	04570
	44507	04565
	44508	04537
	44509	09879
	44510	09875
	44511	04569
	44512	04568
	44518	08958
	51510	06873
	51511	06883
	51512	06884
	51513	06885
	51518	06857
	51520	06887
	51801	06894
	51809	11156
	51810	11145
	51812	11141
	51813	11135
	51814	11129
	51815	11125
	51816	11047
	51817	11115
	51818	11130
	51819	11032
	51820	11041
	51821	11122
	51822	11139
	51823	11113
	51824	11118

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

Operating country	WMO Identifier/call sign	Argos Identifier
United States of America (continued)	51825	11014
	51826	11140
	51827	11038
	51829	11040
	51830	11037
	51831	11049
	52005	01350
	52507	10581
	52510	10591
	52512	10593
	52515	10575
	52516	10578
	52517	10583
	52520	10590
	52525+	10585
	52527	10596
	52529	10598
	52802	10822
	52805	06851
	52806	06880
	52807	10824
	52808	10830
	52809	10831
	52810	06881
	52812	10833
	52813	10835
	52814	10837
	52815	11146
	52817	10819
	52827	10823
	52833+	10804
	52838	11157
	52839	11148
	52841+	11131
	52848	11023
	52849	11019
	52850	11017
	52851	11010
	53812+	10576
	53813	10577
	53816	10574
	54818	06771
	54819	06772
	54820	08820
	54823	09212
	54824	09214
	54826	08835
	54827	08834

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

Operating country	WMO Identifier/call sign	Argos Identifier
United States of America (continued)	54828	08836
	55801	09223
	55827	06775
	55828	06776
	55829	06785
	56820	06731
	56823	06760
	56824	08841
	56825	08833
	56826	08842
	64539	11240
	64601	11250
	64602	11251
	71804	08810
	71805	08954
	71807	08964
	72807	07037
	73651	03883
	73801	08961

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 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 00	03	06	09	12	15	18	21	Alternate observing station	Remarks
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 II - Global Data-processing System

Date: June/July 1989

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

1. WMC output products

1.1 New Products

WMC Moscow

Thanks to the improvement of the forecasting models, 500 hPa and surface pressure fields valid for 5 - 6 days are made available by WMC Moscow. As from 25 July 1989 the outputs will be broadcast over the GTS in the GRID code form and also in analogue facsimile by the Moscow First radio-facsimile programme (09.55 - 10.48 UTC) on Wednesdays and Saturdays.

6. International Exchange Grids

The first session of the Sub-Group on Data Representation of the CBS Working Group on Data Management (Geneva, 15 - 19 May 1989) agreed on a table of International Exchange Grids which should be distributed to Members and subsequently issued as supplement to Volume B of WMO publication No. 9.

To facilitate efficiency in processing, although the grid description section of GRIB is optional, centres are urged to include it in the message unless there were compelling reasons preventing a centre from doing so. The international exchange grids together with notes agreed to by the session are appended below.

INTERNATIONAL EXCHANGE GRIDS

VALUE Cat. No. NNN	RESOLUTION (degrees) Long X Lat	AREA COVERAGE (degrees)	GRID SHAPE cols	rows	GRID POINTS
021	5.0 X 2.5	0-180E, 0-90N	37	36 + pole	1333
022	5.0 X 2.5	180W-0, 0-90N	37	36 + pole	1333
023	5.0 X 2.5	0-180E, 90S-0	37	36 + pole	1333
024	5.0 X 2.5	180W-0, 90S-0	37	36 + pole	1333
025	5.0 X 5.0	0-355E, 0-90N	72	18 + pole	1297
026	5.0 X 5.0	0-355E, 90S-0	72	18 + pole	1297
061	2.0 X 2.0	0-180E, 0-90N	91	45 + pole	4096
062	2.0 X 2.0	180W-0, 0-90N	91	45 + pole	4096
063	2.0 X 2.0	0-180E, 90S-0	91	45 + pole	4096
064	2.0 X 2.0	180W-0, 90S-0	91	45 + pole	4096

NOTES ON INTERNATIONAL EXCHANGE GRIDS:

(1) The grid points are laid out in a linear array such that the longtitude index is the most rapidly varying. The first point in the record is at the western-most meridian and southern-most circle of latitude. For those familiar with FORTRAN subscripting conventions, longtitude is the first subscript, latitude the second.

(2) The values on the shared boundaries are included in each area.

(3) Data for the pole points are given only once in each grid. (This is not a standard practice, the inclusion of the full set of pole values is strongly encouraged in future grid specifications).

Scalar quantity values will be the same for all pole points on a longitude-latitude grid. Wind components at the poles are given by the formulae :

$$U = -\text{speed} * \sin(dd)$$
$$V = -\text{speed} * \cos(dd)$$

where dd is the direction of the wind as reported according to the specification of wind direction at the poles (refer to WMO Manual on Codes, Publication No. 306, stations within 1° of North Pole use Code Table 0878, stations within 1° of South Pole use Code Table 0877).

Annex III - Global Telecommunication System

Date: June/July 1989

C. Information on the operation of the GTS

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

1.3 Changes to bulletins

USSR

The USSR has notified that in the list of abbreviated headings of the catalogue of meteorological bulletins, numbers (ii) will be changed as follows:

(1) RUMS bulletins with abbreviated headings SMVA, SMVC, SMVF and SMVD will have the following (ii) numbers in each bulletin:
10, 11, 12, 13, 15, 16, 17, 18, 19; those with abbreviated headings SMVB and SMVE will have 10, 12, 13, 15, 16, 19.

(2) RUHB bulletins with abbreviated headings · SMVB, SMVC, SMVD and SMVE will have 10, 12, 14, 15, 16, 17, 18.

(3) RUNW bulletins with abbreviated headings SMVB and SMVF will have 15 and 19.

(4) RUML bulletins with abbreviated headings SMVJ and SMVX will as before have 10.

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

2.3 Changes in schedules/technical specifications

VI-ii BRACKNELL (GFL) RTT broadcast effective 15 June 1989 new schedule.

VI-iii BRACKNELL (GFA) radio-facsimile broadcast effective 29 June 1989 insert following new chart:

97492 at 1602 UTC: SXNT EGRR E SEA ICE.

VI-ii POTSDAM RTT broadcast effective 20 June 1989 changes.

Annex IV - Codes

Date: June/July 1989

B. Manual on codes

3. National practices

3.3 Changes to codes

Volume II - Region VI - Section H - Specifications of zone number of sub-areas/ route segments, notified by Members, for which GAFOR will be provided

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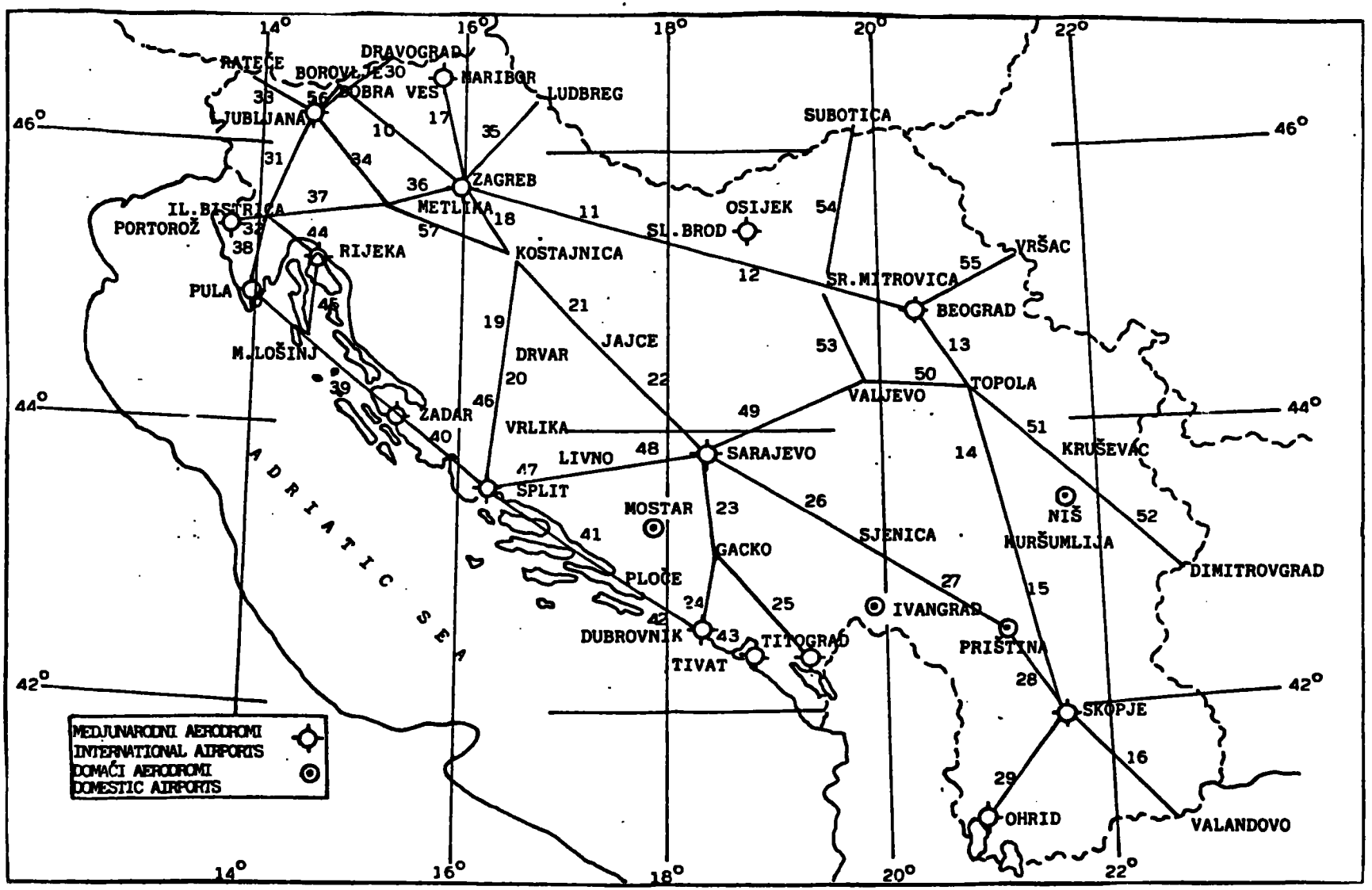
Page II-6-H-12 of WMO Publication No. 306 (1987 Edition) is to be replaced by the following two pages. Route segments are the same as those presently included on page II-6-H-12, with reference height information added.

GAFOR – ROUTE SEGMENTS

$a_g a_g$ ..... Deo rute za koju se daje prognoza
Part of the route for which the forecasting is issued

Referentna visina m(ft)
Reference height m(ft)

10	Dobra Ves	–	Zagreb	430 (1400) Dobra Ves, 120 (400) Zagreb
11	Zagreb	–	Slavonski Brod	120 (400)
12	Slavonski Brod	–	Beograd	90 (300)
13	Beograd	–	Topola	90 (300)
14	Topola	–	Kursumlija	120 (400) Topola, 240 (800) Kursumlija
15	Kursumlija	–	Skopje	210 (700)
16	Skopje	–	Valandovo	210 (700) Skopje, 90 (300) Valandovo
17	Maribor	–	Zagreb	270 (900) Maribor, 90 (300) Zagreb
18	Zagreb	–	Kostajnica	90 (300)
19	Kostajnica	–	Drvar	90 (300) Kostajnica, 450 (1500) Drvar
20	Drvar	–	Split	450 (1500) Drvar, 120 (400) Split
21	Kostajnica	–	Jajce	120 (400
22	Jajce	–	Sarajevo	120 (400) Jajce, 450 (1500) Sarajevo
23	Sarajevo	–	Gacko	450 (1500) Sarajevo, 1200 (4000) Gacko
24	Gacko	–	Dubrovnik	1200 (4000) Gacko, 150 (500) Dubrovnik
25	Gacko	–	Titograd	1200 (4000) Gacko, 100 (350) Titograd
26	Sarajevo	–	Sjenica	450 (1500) Sarajevo, 950 (3100) Sjenica
27	Sjenica	–	Priština	950 (3100) Sjenica, 550 (1800) Priština
28	Priština	–	Skopje	550 (1800) Priština, 210 (700) Skopje
29	Skopje	–	Ohrid	210 (700) Skopje, 670 (2200) Ohrid
30	Dravograd	–	Ljubljana	490 (1600) Dravograd, 330 (1100) Ljubljana
31	Ljubljana	–	Ilirska Bistrica	330 (1100) Ljubljana, 490 (1600) Ilirska Bistrica
32	Ilirska Bistrica	–	Portorož	490 (1600) Ilirska Bistrica, 90 (300) Portorož
33	Rateče	–	Ljubljana	880 (2900) Rateče, 330 (1100) Ljubljana
34	Ljubljana	–	Metlika	330 (1100) Ljubljana, 210 (700) Metlika
35	Ludbreg	–	Zagreb	120 (400)
36	Zagreb	–	Metlika	120 (400)
37	Metlika	–	Ilirska Bistrica	210 (700) Metlika, 490 (1600) Ilirska Bistrica
38	Ilirska Bistrica	–	Pula	490 (1600) Ilirska Bistrica, 60 (200) Pula
39	Pula	–	Zadar	60 (200)
40	Zadar	–	Split	60 (200)
41	Split	–	Ploče	60 (200)
42	Ploče	–	Dubrovnik	60 (200)
43	Dubrovnik	–	Tivat	90 (300)
44	Ilirska Bistrica	–	Rijeka	490 (1600) Ilirska Bistrica, 60 (200) Rijeka
45	Rijeka	–	Mali Lošinj	60 (200)
46	Zadar	–	Vrlika	60 (200)
47	Split	–	Livno	120 (400) Split, 730 (2400) Livno
48	Livno	–	Sarajevo	730 (2400) Livno, 450 (1500) Sarajevo
49	Sarajevo	–	Valjevo	450 (1500) Sarajevo, 120 (400) Valjevo
50	Valjevo	–	Topola	120 (400)
51	Topola	–	Kruševac	120 (400)
52	Kruševac	–	Dimitrovgrad	120 (400) Kruševac, 450(1500) Dimitrovgrad
53	Valjevo	–	S. Mitrovica	90 (300)
54	S. Mitrovica	–	Subotica	90 (300)
55	Beograd	–	Vrtac	90 (300)
56	Borovlje	–	Ljubljana	880 (2900) Borovlje, 490 (1600) Ljubljana
57	Metlika	–	Kostajnica	120 (400)



REGION VI

YUGOSLAVIA

ROUTE SEGMENTS