



Téléphone: National (022) 730 81 11
International + 41 22 730 81 11
Télégrammes: METEOMOND GENÈVE
Télex: 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, 30 September 1990

Subject : Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) (September 1990)

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

Dear Sir/Madam,

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

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

Annex I - Global Observing System

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

1. Publication No. 9, Volume A - Stations

- 1.1 New stations
- 1.2 Deleted stations
- 1.3 Changes to existing stations
- 1.5 Temporary changes

To: Permanent Representatives (or Directors of Meteorological or Hydro-meteorological Services) of Members of WMO (PR-4547)
Directors of Meteorological Services of non-Member countries (MC-2436)
Presidents and Vice-Presidents of Regional Associations (P.RA-1258)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1376)
Chairmen of CBS Working Groups
Secretary-General of ICAO
Director-General of IATA
Secretary of IOC
Director-General of ASECNA
Director of ECMWF

4. Automatic marine stations
 5. ARGOS service
 - 5.1 ARGOS monthly status report
 6. Feed-back from Members to the Secretariat on any changes in the observing network
- D. Information on operational status of space sub-system

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
 6. Coastal radio stations (Publication No. 9, Volume D, Part B)
 - 6.1 New stations
 8. Bulletins relating to the state of the Ozone Layer over Antarctica
- E. Status Report on WWV implementation

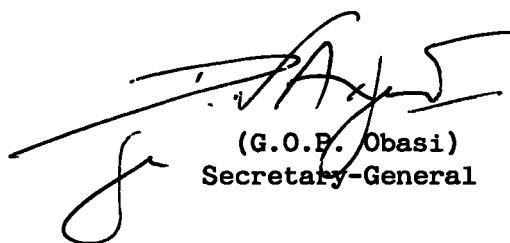
Annex IV - Codes

- B. Manual on Codes
2. Regional practices
 - 2.3 Changes to codes
 3. National practices
 - 3.2 Deleted codes
 - 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

1.2 Deleted stations

33759 ZATIS'E / 33887 BOLGRAD / 34717 BERDJANSK / 37116 KARATCHAEVSK /
 37515 BORZOMI / 37639 AKSTAFI / 37936 NAHICEVAN / 93199 EAST CAPE AWS /
 94730 BATHURST /

1.3 Changes to existing stations

94129	CAPE DON AWS	23	02	05	08	11	14	17	20	.	.	.	.	AUT/
94142	MANINGRIDA	23	.	05	08	11	.	17	20	.	.	.	.	/
94146	ELCHO ISLAND	23	02	05	08	.	.	.	.	.	.	.	.	/
94232	VICTORIA RIVER DOWNS	23	02	05	.	.	.	17	.	.	.	.	.	/
94236	ELLIOTT	23	02	05	.	11	.	17	.	.	.	.	.	/
94324	YUENDUMU	23	02	05	.	11	.	17	.	.	.	.	.	/
94359	CLERMONT	23	.	05	.	.	.	17	20	.	.	.	.	/
94369	ST LAWRENCE	23	.	05	.	.	.	17	.	.	.	.	.	/
94384	TOWN OF 1770	23	02	05	08	11	.	.	20	.	.	.	.	/
94686	KIRRA	23	02	05	.	.	.	.	.	.	.	.	.	/

1.5 Temporary changes

New Zealand has notified that with effect from 1 August 1990 SYNOP station Canton Island 91701 has resumed reporting daily upper messages at 0000 UTC.

Changes in observing hours due to daylight saving time in Australia and New Zealand

Australian states of New South Wales, Australian Capital Territory and Queensland will introduce one hour daylight saving (summer time) from 1600 UTC 27 October 1990 until 1500 UTC 02 March 1991 and Victoria, Tasmania and South Australia from 1600 UTC 27 October 1990 until 1500 UTC 16 March 1991. 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 the Australian continent will make ascents one hour earlier. Times of release will be 1615, 2215, 0415 and 1015 UTC. All states will commence on 27 October 1990 and will cease on 16 March 1991. Other stations under Australian control will adopt the following schedules:

94299 Willis Island will follow Queensland practice
 94995 Lord Howe Island)
 94996 Norfolk Island) will follow New South Wales practice
 94998 Macquarie Island entire observation programme one hour earlier
 96996 Cocos Island will follow Western Australia practice

Moored Buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters								
		01	August 1990	1	2	3	4	5	6	7	8	
44137	03449	41°12'N	061°08'W	.	X	X	X	X	X	X	X	X
44138	03434	44°13'N	053°36'W	X	X	X	X	X	X	X	X	X
44139	03448	44°19'N	057°22'W	X	X	X	X	X	X	X	X	X
44140	05576	42°44'N	050°36'W	X	X	X	X	X	X	X	X	X

Moored Buoys (Great Lakes):

WMO buoy Identifier	Position		Observed or technical parameters								
	01	August 1990	1	2	3	4	5	6	7	8	
45132	42°28'N	081°13'W	X	X	X	X	X	X	X	X	X
45135	43°51'N	078°20'W	X	X	X	X	X	X	X	X	
45136	48°32'N	086°57'W	X	X	X	X	X	X	X	X	
45137	45°33'N	081°01'W	X	X	X	X	X	X	X	X	

Drifting buoys (Arctic Icepack):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		20	July 1990	1	2	3	4	5	6	7	8
48536	07405	60°25'N	052°05'W	.	.	X	.	.	.	.	.
48544	07412	84°30'N	078°58'W	.	.	X	.	.	.	.	.

Drifting buoys (North-east Pacific Ocean):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		20	July 1990	1	2	3	4	5	6	7	8
46632	12511	44°21'N	148°97'W	*	X	X	.	X	.	.	*
46687	07138	42°40'N	146°11'W	.	X	X	.	X	.	.	.
46693	07140	37°24'N	142°11'W	.	X	X	.	X	.	.	.
46694	07141	25°17'N	136°15'W	.	X	X	.	X	.	.	.

* Sensor/system failure

Drifting buoys (North-east Pacific Ocean) continued:

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		20 July	1990	1	2	3	4	5	6	7	8
46695	07142	29°44'N	140°21'W	.	X	X	.	X	.	.	.
46697	07144	27°25'N	144°45'W	*	X	X	.	X	.	.	*
46705	07129	48°06'N	157°21'W	.	X	X	X	X	.	.	.
46706	07130	45°07'N	140°45'W	.	X	X	X	X	.	.	.
46707	07131	40°26'N	127°13'W	.	X	X	X	X	.	.	.

Drifting buoys (North-west Atlantic Ocean):

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		20 July	1990	1	2	3	4	5	6	7	8
44663	03448	44°33'N	057°47'W	.	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 1990 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						
	10 September 1990		1	2	3	4	5	6	7
32302	18°00'S	085°06'W	*	*	*	*	*	*	*
41001**	34°54'N	073°00'W	X	X	X	X	X	X	X
41002**	32°18'N	075°12'W	X	X	X	X	*	X	X
41006**	29°18'N	077°24'W	X	X	X	X	X	X	X
41008	30°42'N	081°06'W	X	X	X	X	X	X	X
41009	28°30'N	080°12'W	X	X	X	X	X	X	X
41010	28°54'N	078°30'W	X	X	X	X	X	X	X
42001**	25°54'N	089°42'W	X	X	X	X	X	X	X
42002**	25°54'N	093°18'W	X	X	X	X	X	X	X
42003**	25°54'N	085°54'W	X	X	X	X	X	X	X
42007	30°06'N	088°48'W	X	X	X	X	X	.	.
42015	30°12'N	088°12'W	X	X	X	X	X	X	X
42016	30°12'N	088°06'W	X	X	X	X	X	X	X
42019	27°54'N	095°00'W	X	X	X	X	X	X	X
42020	27°00'N	096°30'W	X	X	X	X	X	X	X
44004**	38°30'N	070°36'W	X	X	X	X	X	X	X
44005**	42°42'N	068°36'W	X	X	X	X	X	X	X
44007**	43°30'N	070°06'W	X	X	X	X	X	X	X
44008**	40°30'N	069°30'W	X	X	X	X	X	X	X
44009**	38°30'N	074°36'W	X	X	X	X	X	X	X
44011**	41°06'N	066°36'W	X	X	X	X	X	X	X
44012**	38°48'N	074°36'W	X	X	X	X	X	X	X
44013**	42°24'N	070°48'W	X	X	X	X	X	X	X
45001**	48°00'N	087°42'W	X	X	X	X	X	X	X
45002**	45°18'N	086°24'W	X	X	X	X	X	X	X
45003**	45°18'N	082°42'W	X	X	X	X	X	X	X
45004**	47°30'N	086°30'W	X	X	X	X	X	X	X
45005**	41°42'N	082°24'W	*	*	*	*	*	*	*
45006**	47°18'N	089°54'W	X	X	X	X	X	X	X
45007**	42°42'N	087°06'W	X	X	X	X	X	X	X
45008**	44°18'N	082°24'W	X	X	X	X	X	X	X
46001**	56°18'N	148°18'W	X	X	X	X	X	X	X

* Sensor/system failure.

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

Moored buoys (continued):

WMO buoy Identifier	Position		Observed or technical parameters						
	10 September 1990		1	2	3	4	5	6	7
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	*	*	*	*	*	*	*
46006**	40°48'N	137°42'W	X	X	X	X	X	X	X
46010**	46°12'N	124°12'W	X	X	X	X	X	X	X
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	*	*
46014	39°12'N	124°00'W	X	X	X	X	X	X	X
46022	40°48'N	124°30'W	*	*	*	*	*	*	*
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°48'N	122°42'W	X	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	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
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
51001**	23°24'N	162°18'W	X	X	X	X	X	X	X
51002**	17°12'N	157°48'W	*	*	*	*	*	*	*
51003**	19°12'N	160°48'W	X	X	X	X	X	X	X
51004**	17°30'N	152°36'W	X	X	X	X	X	X	X

Drifting buoys:

WMO buoy Identifier	Argos Identifier	Position		Observed or technical parameters							
		5 September 1990		1	2	3	4	5	6	7	8
14803	08844	25°S	052°E	.	X	X	.	X	.	.	.
14804	08845	21°S	061°E	.	X	X	.	X	.	.	.
17803	05571	42°S	083°E	X	*	X	.	X	.	.	X
17804	12300	44°S	034°E	.	*	X	.	X	.	.	.

* Sensor/system failure.

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

Drifting buoys (continued):

WMO buoy Identifier	Argos Identifier	Position 5 September 1990		Observed or technical parameters							
				1	2	3	4	5	6	7	8
17805	12304	44°S	039°E	.	*	X	.	X	.	.	.
32814	07491	18°S	085°W	.	X	X	.	X	.	.	.
33823	08965	29°S	041°E	.	X	X	.	X	.	.	.
33824	08966	42°S	020°E	.	X	X	.	X	.	.	.
33826	12296	55°S	021°W	.	X	X	.	X	.	.	.
33827	12297	47°S	006°W	.	X	X	.	X	.	.	.
33828	12298	47°S	002°E	.	X	X	.	X	.	.	.
54829	06762	36°S	159°W	.	*	X	.	X	.	.	.
54830	06763	50°S	150°W	.	X	X	.	X	.	.	.
54831	06764	50°S	142°W	.	X	X	.	X	.	.	.
54832	06585	45°S	168°W	X	X	X	.	X	.	.	X
54833	06586	49°S	146°W	X	X	X	.	X	.	.	X
54834	06583	37°S	163°W	X	X	X	.	X	.	.	X
54835	06731	32°S	157°W	.	X	X	.	X	.	.	.
55802	08843	17°S	075°E	.	X	X	.	X	.	.	.
56829	09222	18°S	061°E	.	X	X	.	X	.	.	.
56830	12290	25°S	091°E	.	X	X	.	X	.	.	.

* Sensor/system failure.

5. ARGOS service

5.1 ARGOS monthly status report

As at 4 September 1990, the Argos service was handling reports from 611 drifting buoys, 136 moored buoys, 3 balloons, 0 ships, 124 animal trackings, 388 fixed stations, 480 boats and 22 miscellaneous platforms. DRIBU reports from 63 drifting buoys, SHIP reports from 1 selected ship and BATHY reports from 21 selected ships were transmitted to the RTH Paris and DRIBU reports from 243 moored and 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:

DRIBU code:

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
Australia	55558	00416	
	56001	04873	
	56501	02934	
	56541	02946	
	56542	02944	
	56544	02935	
	56546	02951	
	56547	04870	
	56548	04871	
	56549	04872	
	9VUU*		
	VJBQ*		
	France	44607	05826+
		44609	05799
		62503	05790
		62512	05824
		62513	05829
62515		05832	
62516		05833	
62517		05821+	
62582		00363+	
64516		05796	
64527		05822	
A3BZ*			
ARGO*			
C6HL*			
FNCZ*			
FNGS*			
FNJT*			
FNOM*			
FNQB*			
FNZO*			
FNZQ*			
FPYO*			
GYS A*			
HPEW*			

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

• ARGOS Id-numbers which had their WMO numbers changed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>	
France (continued)	JQNY*		
	S6FK*		
	VMAP*		
	ZCLS*		
	3EBD*		
	A3BZ*		
Germany, Federal Republic of	71524	03315	
	71528	08056	
	71529	08057	
	71530	08058	
	71531	08059	
	71532	08060	
	71536	08064	
	71537	08065	
	71540	08068	
	Japan	52060	08718
52064		08724	
Netherlands	44615	03037	
	64564	03036	
New Zealand	55578	06437	
	55579	06435	
	55580	06439	
	55582	07175	
	55583	07179	
	55584	07178	
	55585	07177	
	55586	07176	
	Norway	17001	01591
		17003	01758
44624		03722	
63002		09407	
63004		09403	
63512		01792	
64504		03674	
71001		01757	
74001		09405	

* ARGOS Id-numbers which had their WMO numbers changed during the month.

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
Portugal	62692	01078
South Africa**	17512	09096
	17514	08263
	17517	08268+
	17520	09097
United Kingdom	44728	04039
	44729	06305
	44730	06298
	62606	03916
	62607	03917
	62803	06299
	64043	06271+
	64552	06306
United States of America	12847	11191
	13501	12412
	13502	12413
	13503	12414
	13504	12415
	13505	12417
	13507	12421
	13508	12422
	13509	12416
	13510	12418
	13512	11714
	14803	08844
	14804	08845
	17803	05571
	17804	12300
	17805	12304
	17820	08846
	25536	12780
	25537	12789
	31502	09844

** 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)	32514	10836
	32518	11167
	32520	11577
	32522	10808
	32523	10809
	32524	10842
	32525	11192
	32526	11193
	32527	10818
	32528	10820
	32529	11194
	32530	11546
	32531	10812
	32537	10839
	32538	11172
	32539	11875
	32541	11656
	32542	11153
	32545	10849
	32546	11160
	32547	11201
	32549	11163
	32550	11894
	32551	06889+
	32553	10841
	32554	10840
	32556	11538+
	32560	11572
	32814	07491
	33823	08965
	33824	08966
	33825	12301
	33826	12296
	33827	12297
	33828	12298
	41510	09845
	41511	09846
	41512	09857
	41513	09853
	41514	09854

+ 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)	41525	08960
	43502	11168
	43503	11874
	43504	11198
	43505	11200
	43508	11171
	43510	11628
	43511	03078
	43801	06898
	43805	10817
	43810	11165
	44502	04570
	44504	04561
	44505	09878
	44506	04542
	44510	04530
	44514	12408
	44515	12409
	44517	12411
	44518	09841
	44519	09851
	44520	09856
	44521	12730
	44523	12732
	44524	12733
	44525	12734
	44526	12735
	44527	12736
	44528	12737
	44529	12738
	44530	12740
	44531	12741
	44532	12739
	44533	12742
44534	12745	
44535	12749	
44536	12744	
44537	12747	
44538	12748	
44539	12751	

<u>Operating country</u>	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
United States of America (continued)	47601	12785
	48518	12782
	48519	12783
	48536	07405
	48544	07412+
	51511	06883
	51512	06884
	51514	11568
	51516	11632
	51519	11646
	51520	11653
	51801	11197
	51802	11650
	51803	11652
	51804	11660
	51805	11622
	51806	11625
	51807	11641
	51808	11651
	51809	11199
	51811	11644
	51812	11657
	51813	11569
	51815	11571
	51816	11620
	51817	11655
	51818	11630
	51819	11645
	51821	11647
	51822	11870
	51823	11648
	51826	11871
	51828	11136
	51829	11202
	51833	11872
	51834	11170
	51835	11638
	51836	11174+
	51837	11642
	51838	11177
	51840	11536
	51842	11540
	51844	11542
	51845	11548

+ PTTs'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)	51847	11551
	51848	11557
	51849	11539
	51850	11544+
	51851	11547
	51852	11549
	51856	11559
	51857	11570
	51859	11581
	51861	11558
	51863	11564
	51864	11566
	51865	11623
	52005	01350
	52501	11760
	52502	11761
	52503	11762
	52504	11763
	52512	10593
	52520	10590
	52521	11736
	52522	11737
	52523	11290
	52525	11729
	52526	11730
	52527	11731
	52530	11732
	52802	10822
	52806	06880
	52807	10824
	52813	10835
	52827	10823
	52842	11186+
	52852	11629
52853	11624	
52854	11626	
52855	11631	
52857	11640	
52858	11649	
52859	11654+	

+ 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)	52860	11659
	52861	11637
	52862	11560
	52864	11565
	52865	11567
	52866	11887
	52867	11893
	52868	11876
	52869	11880
	52870	11884
	52871	11889
	52872	11890
	52873	11892
	52874	11878
	52875	11896
	52876	11881
	52877	11883
	52878	11885
	53807	11877
	53809	11886
	54829	06762
	54830	06763
	54831	06764
	54832	06585
	54833	06586
	54834	06583
	54835	06731
	55802	08843
	56825	08833
	56829	09222
	56830	12290
	62671	09847
	62672	09859
	64533	12786
	64539	12787
	64540	12788
	73651	03883

	<u>WMO Identifier/call sign</u>	<u>Argos Identifier</u>
<u>ATLAS buoys</u>	32315	06379
	32316	06520
	32317	06478
	32318	06795
	42502	11502
	42504	11504
	42505	11505
	42506	11506
	51005	06798
	51007	06796
	51009	06514
	51010	06369
	51012	06515
	51013	06476
	52001	06380
	52002	06471
	52003	06375
	52006	06472
	52301	06381
	52302	06460

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.

D. Information on operational status of space sub-system

China

A polar-orbiting meteorological satellite was successfully launched on 3 September 1990. It is designated FY-1B and is still experimental and part of China's polar-orbiting meteorological satellite series. The satellite is three-axis stabilized and its altitude is 900 km with a 102.86 minute orbit period and an inclination of 98.9 degrees. The main instrument is a multichannel scanning radiometer with five channels, four visible (0.48-0.53 μm ; 0.53-0.58 μm ; 0.58-0.68 μm and 0.725-1.1 μm) and an IR channel at 10.5-12.5 μm . The real-time cloud imager functions at two resolutions, 4 km and 1.1 km. Data dissemination of APT is at frequencies 137.035 (or 137.795) MHz and dissemination of HRPT at 1695.5 (or 1704.5) MHz. Data format of FY-1B is almost identical to the NOAA satellite. China will issue orbital prediction information via the GTS according to international practice. Feedback concerning the performance of FY-1B reception and data will be greatly appreciated and should be forwarded to:

Mr. Xu Jiamin
Director of Satellite Meteorological Centre
State Meteorological Administration
No. 46 Baishiaqiaolu
Beijing
People's Republic of China

Feed-back from Members to the Secretariat on any changes in the observing network
 (explanatory notes overleaf)

Global Exchange/Regional Exchange (delete as appropriate)

Country: _____

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

1. SYNOP

2. TEMP

3. PILOT

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

1. Separate tables should be prepared for global exchange and regional exchange respectively. These tables should contain information concerning any changes of the present state of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations given in Attachment I-4 of the Manual on the GTS; Volume I for global exchange and, as applicable, Attachments AF-I, AI-1, SA-1, NA-1, PS-1 and EU-1 of the Manual on the GTS, Volume II for regional exchange.
2. For entries in these tables, the following should be taken into account:
 - (a) In the column "Station index number", the index number (IIiii) of each station should be entered in case of any changes in the observing programmes of the stations;
 - (b) In the column "Bulletin identification", the TAAii 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: September 1990

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

Oman

The refurbishment of the moored buoy 23051 has been completed. It has been redeployed in this position on 27 June 1990. All its synoptic reports are transmitted to RTH Jeddah as follows:

SMVA20 ØØMS FM 13-IX	at	00, 06, 12, 18 UTC
SIVA21 ØØMS FM 13-IX	at	03, 09, 15, 21 UTC

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

2.3 Changes in schedules/technical specifications

VI-iii Roma radio-facsimile broadcast effective 1 September 1990 new schedule.

VI-iii Offenbach (Main/Mainflingen) (DCF54) radio-facsimile broadcast effective 29 August 1990 changes as follows:

- (1) Charts 97854 at 0440 UTC (No. 12) and 97856 at 1646 UTC (No. 55) replace D30 by D60 in column 7 and amend to read in column 8 as follows:

Analysis, prognosis (H+12, H+24)
Vorticity advection 500 hPa
Thickness advection 500/950 hPa
Divergence Q 700 hPa
Frontogenetic parameter 850 hPa

- (2) Replace all entries in column 3 of charts with drum speed index of cooperation 240/576 by 120/288.

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

6.1 New stations

INMARSAT Coast Earth Station in Australia

A new INMARSAT Coast Earth Station (CES) has been opened at Perth, Western Australia. This CES is designed to communicate with the Pacific Ocean satellite. Another CES, to provide communication with the Indian Ocean satellite, is currently under construction in Perth, and is expected to be operational in early 1991.

The Australian Bureau of Meteorology will accept, free of charge to ships, from the Pacific Ocean satellite, ships' weather reports from an area south of the Equator between longitudes 120°E and 120°W, routed by automatic service code (41).

For the Indian Ocean satellite, the Bureau plan to accept ships' weather reports from the Indian Ocean and the Pacific Ocean south of the Equator between longitudes 60°E and 140°E.

Thus, when both CES's are operational, the Australian Bureau of Meteorology will accept reports from all the Indian Ocean and Pacific Ocean areas south of the Equator between 60°E and 120°W.

8. Bulletins relating to the state of the Ozone Layer over Antarctica

Following the request of WMO Members, short bulletins prepared by the Secretariat containing information on the state of the ozone layer over Antarctica in plain language are being included, as available, into the METNO messages during August-September-October 1990.

Bulletin No. 1/1990 was dispatched on 30 August. This is Bulletin No. 2/1990 issued by WMO on 12 September 1990 on the state of the ozone layer over Antarctica which is based on ozone data provided by the WMO global ozone observing system stations in the Antarctic operated by Argentina (MARAMBIO), Japan (SYOWA) and USA (SOUTH POLE) and the NASA total ozone mapping spectrophotometer (TOMS). If quoted, due credit should be given accordingly. The above-mentioned three stations and TOMS indicated that the total ozone amount during the first ten days of September 1990 was about 225 M ATM CM, although there are some large areas in the sun lighted latitudes under the Polar vortex with somewhat less than 200 M ATM CM. On the average the total ozone there has declined by 13 percent from the second half of August. Therefore, this year first decade of September Antarctica is with about 25 percent less ozone than the -pre ozone hole- normal.

Annex IV - Codes

Date: September 1990

B. Manual on Codes

2. Regional practices

2.3 Changes to Codes

Notification to all RAI Members:

A Member has invited attention to the effect that some Members, and in particular all ASECNA Members, have not implemented modifications to SYNOP code which came into force as from 1 November 1989 as a result of Resolution 8 (IX-RAI), and CBS recommendation 12 (CBS-IX) as detailed in Supplement No. 2 (dated May 1989) to Volume II of WMO-No. 306 - Manual on Codes. We would be grateful if you could take action to comply with provisions of Resolution 8 (IX-RAI) whose date of coming into force was postponed to 1 November 1989.

3. National practices

3.2 Deleted codes

Volume II - National VI - Section F

GERMANY, FEDERAL REPUBLIC OF

Page II-6-F-4 of the 1987 edition of WMO Publication No. 306: Special Report for German Ships (MESRAN). All entries of this special report are to be deleted.

3.3 Changes to codes

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

Code RF 6/02 GAFOR -General aviation forecast

GERMANY, FEDERAL REPUBLIC OF

The following pages to the 1987 edition of WMO Publication No. 306 are to be changed as follows:

Page II-6-H-5 (see enclosure 1): For all sub-areas of the Federal Republic of Germany mandatory reference heights above mean sea level are indicated.

Page II-6-H-6 (see enclosure 2): Map showing the new sub-areas.

REGION VI

GERMANY, FEDERAL REPUBLIC OF

Specification of sub-areas

<i>Area No.</i>	<i>Geographical designation</i>	<i>Reference height above mean sea level</i>
11	Ostfriesland	100
12	Nordfriesland-Dithmarschen	100
13	Schleswig-holsteinische Geest	200
14	Nordwestliches Niedersachsen	200
15	Schleswig-Holsteinisches Hügelland	300
21	Westliches Niedersachsen	300
22	Lüneburger Heide	400
23	Teutoburger Wald	700
24	Weser-Leine-Bergland	1400
25	Hannover-Braunschweig	500
31	Niederrheinisches Tiefland	300
32	Münsterland	500
33	Ruhrgebiet	500
34	Niederrheinische Bucht	700
35	Bergisches Land	1400
36	Sauerland	2400
37	Eifel	2000
38	Neuwieder Becken	800
39	Westerwald	1900
41	Hunsrück	2300
42	Taunus	1900

(continued)

REGION VI

GERMANY, FEDERAL REPUBLIC OF (continued)

