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GENEVA, 29 May 1992

Annexes: 3

Subject: Monthly letter on the operation of the World Weather Watch (WWW) and Marine Meteorological Services (MMS) – **May 1992**

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
   - 1.4 Changes in index numbers
4. Automatic marine stations
   - 4.2 United States of America
     - 4.2.1 Moored Buoys
     - 4.2.2 Drifting Buoys
   - 4.3 France
5. ARGOS service
   - 5.1 ARGOS monthly status report

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO (PR-4748)
Directors of Meteorological Services of non-Member countries (MC-2466)
Presidents and Vice-Presidents of Regional Associations (P.RA-1291)
Presidents and Vice-Presidents of Technical Commissions (P.TC-1408)
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 (cont.)

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

7. 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)
   - 1.1 New bulletins
   - 1.3 Changes to bulletins
   - 1.5 Bulletins for oceanographic data
2. Transmission schedules (Publication No. 9, Volume C, Chapter II)
   - 2.3 Changes in schedules/technical specifications

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
2. Marine meteorological services available for main ports (Publication No.9, Volume D, Part C_1

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: May 1992

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

1. Publication No. 9, Volume A - Stations

1.1 New stations

Index No.	Name	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface observations 00	03	06	09	12	15	18	21	Obs. H Obs. S	Upper-air 00	06	12	18	Remarks
03041	AONACH MOR	56° 49 'N	04 ° 58 'W		-1130		X	X	X	X	X	X	X	X	H0024	.	.	.	.	AUT
03155	DRUMALBIN	55° 37 'N	03 ° 44 'W		- 245		X	X	X	X	X	X	X	X	H0024	.	.	.	.	AUT
03246	NEWCASTLE WEATHER CENTRE	54° 59 'N	01 ° 36 'W		- 30		X	X	X	X	X	X	X	X	H0024	.	.	.	.	
03501	CAPEL DEWI	52° 25 'N	04 ° 00 'W		- 92		.	.	.	.	.	.	.	.		W	W	W	W	
03779	LONDON WEATHER CENTRE	51° 30 'N	00 ° 07 'W		- 5		X	X	X	X	X	X	X	X	H0024	.	.	.	.	
03857	ISLE OF PORTLAND	50° 31 'N	02 ° 27 'W		- 53		.	.	.	X	X	X	X	X		.	.	.	.	
03927	BANGOR HARBOUR	54° 40 'N	05 ° 40 'W		- 11		X	X	X	X	X	X	X	X		.	.	.	.	
41363	AL-BOUQE	17° 19 'N	44 ° 36 'E	1154	-		.	X	X	X	.	.	.	.	H0309	.	.	.	.	
41372	SAADA	17° 02 'N	43 ° 46 'E	1890	-		.	X	X	X	X	X	.	.	H0312	.	.	.	.	
41391	HAJJAH	15° 50 'N	43 ° 35 'E	1800	-		.	.	.	.	.	.	.	.		.	.	.	.	
41393	AL-JOUF	16° 09 'N	44 ° 47 'E	1070	-		.	X	X	X	X	.	.	.	H0309	.	.	.	.	
41408	AL-MAHWIT	15° 30 "N	43 ° 30 'E	-	-		.	.	.	.	.	.	.	.		.	.	.	.	
41434	DHAMAR	14° 35 'N	44 ° 25 'E	2425	-		.	.	.	.	.	.	.	.	H0309	.	.	.	.	
41451	MUKEIRAS	13° 25 'N	45 ° 41 'E	1800	-		.	.	.	.	.	.	.	.		.	.	.	.	
41452	IBB	14° 00 'N	44 ° 20 'E	1920	-		.	.	.	.	.	.	.	.	H0309	.	.	.	.	
41453	AL-BAYDHA	14° 06 'N	45 ° 26 'E	2027	-		.	.	.	.	.	.	.	.		.	.	.	.	
60146	MOHAMMEDIA	33° 43 'N	07 ° 24 'W	6	-		.	.	.	X	X	X	X	.		.	.	.	.	
60252	AGADIR ALMASSIRA	30° 20 'N	09 ° 24 'W		- 74		X	X	X	X	X	X	X	X		R	W	.	.	.
60253	TAROUDANT	30° 30 'N	08 ° 49 'W	265	-		.	.	X	X	X	X	X	.		.	.	.	.	
60280	GUELMIM	29° 01 'N	10 ° 03 'W	301	-		.	.	X	X	X	X	X	.		.	.	.	.	
74002	ABERDEEN PROVING GROUNDS, MARYLAND	39° 30 'N	76 ° 34 'W	5	-		.	.	.	.	.	.	.	.		.	.	.	.	

1.1 New stations (continued)

Index No.	Name	Latitude	Longitude	Elevation HP	Elevation H/HA	Pressure Level	Surface observations 00	03	06	09	12	15	18	21	Obs. H Obs. S	Upper-air 00	06	12	18	Remarks
74003	DUGWAY PROVING GROUNDS, UTAH	40° 10 'N	112° 56 'W	1325	-		.	.	.	.	.	.	.	.		.	.	.	.	
74004	YUMA PROVING GROUNDS, ARIZONA	32° 30 'N	114° 00 'W	231	-		.	.	.	.	.	.	.	.		.	.	.	.	
93557	MOLESWORTH AWS	42° 05 'S	173° 15 'E		- 883		X	X	X	X	X	X	X	X		.	.	.	.	
93729	WANAKA AERO AWS	44° 43 'S	169° 14 'E		- 351		X	X	X	X	X	X	X	X		.	.	.	.	

1.2 Deleted stations

Index No.	Name
91066	MIDWAY ISLAND
03004	COLLAFIRTH HILL
03036	BROADFORD
03161	EDDLESTON
03170	SHANWELL
03185	ST. ABBS HEAD
03245	NEWCASTLE WEATHER CENTRE
03401	PORTHDYNLLAEN
03404	ABERDOVEY
03505	ST. HARMON
03617	STOREY ARMS
03778	LONDON WEATHER CENTRE
03806	GWENNAP HEAD
03814	LIZARD
03839	EXETER AIRPORT
03841	DUNKESWELL
03855	PORTLAND BILL C.G.
03886	FAIRLIGHT
03910	MAGHERA
07517	CAPTIEUX

1.3 Changes to existing stations

Index No.	Name	Surface observations 00	03	06	09	12	15	18	21	Obs. H Obs. S	Upper-air 00	06	12	18	Remarks
03240	BOULMER	X	X	X	X	X	X	X	X		RW	RW	RW	RW	
03318	BLACKPOOL AIRPORT	.	.	X	X	X	X	X	.		.	.	.	.	
03322	AUGHTON	X	X	X	X	X	X	X	X		RW	RW	RW	RW	
03347	LEEDS WEATHER CENTRE	X	X	X	X	X	X	X	X		.	.	.	.	
03379	CRANWELL	X	X	X	X	X	X	17	23		.	.	.	.	
03743	LARKHILL	.	.	.	.	.	.	.	.		.	W	RW	.	
03749	MIDDLE WALLOP	X	X	X	X	X	X	X	X		.	.	.	.	
03763	BRACKNELL/BEAUFORT PARK	X	X	X	X	X	X	X	X		.	.	.	.	

1.3 Changes to existing stations (continued)

Index No.	Name	Surface observations 00	03	06	09	12	15	18	21	Obs. H Obs. S	Upper-air 00	06	12	18	Remarks
03766	FARNBOROUGH	X	X	X	X	X	X	17	23		.	.	.	.	
03876	SHOREHAM AIRPORT	.	.	.	X	X	X	X	.		.	.	.	.	
03905	CARRIGANS	.	.	.	X	X	.	.	X		.	.	.	.	
03920	LONG KESH	X	X	X	X	X	X	X	X		RW	RW	RW	RW	
07110	BREST	X	X	X	X	X	X	X	X		RW	.	RW	.	
07145	TRAPPES	X	X	X	X	X	X	X	X		RW	.	RW	.	
07180	NANCY/ESSEY	X	X	X	X	X	X	X	X		RW	.	RW	.	
07481	LYON/SATOLAS	X	X	X	X	X	X	X	X		RW	.	RW	.	
07510	BORDEAUX/MERIGNAC	X	X	X	X	X	X	X	X		RW	.	RW	.	
07645	NIMES/COURBESSAC	X	X	X	X	X	X	X	X		RW	.	RW	.	
07657	APT	.	.	X	X	X	X	X	X		.	.	.	.	
07678	TOULON/ILE DU LEVANT	X	X	X	X	X	X	X	.		.	.	.	.	
07761	AJACCIO	X	X	X	X	X	X	X	X		RW	.	RW	.	
41367	THAMUD	.	.	.	.	.	.	.	.		.	.	.	.	
41396	SEIYOUN	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
41398	AL-GHAIDAH	.	X	X	X	X	X	X	.	H03-18	.	.	.	.	
41404	SANA'A	X	X	X	X	X	X	X	X	H00-24	.	.	RW	.	
41407	MARIB	.	X	X	X	X	X	.	.	H03-15	.	.	.	.	
41416	KAMARAN	.	.	.	.	.	.	.	.		.	.	.	.	
41431	HODEIDAH	.	X	X	X	X	X	.	.	H03-15	.	.	.	.	
41437	ATAQ	.	X	X	X	X	X	X	.	H03-18	.	.	.	.	
41443	RIYAN	X	X	X	X	X	X	X	X	H00-24	.	.	P	.	
41466	TAIZ	X	X	X	X	X	X	X	X	H00-24	.	.	.	.	
41477	MOKHA	.	X	X	X	X	X	.	.	H03-15	.	.	.	.	
41480	ADEN	X	X	X	X	X	X	X	X	H00-24	RW	.	P	.	
41494	SOCOTRA	.	X	X	X	X	X	.	.	H03-15	.	.	RW	.	
78897	LE RAIZET, GUADELOUPE	X	X	X	X	X	X	X	X		W	.	RW	.	
81401	SAINT-LAURENT-DU-MARONI	X	.	.	X	X	X	X	X		.	.	P	.	
81405	CAYENNE/ROCHAMBEAU	X	X	X	X	X	X	X	X		W	.	RW	.	
81408	SAINT GEORGES DE L'OYAPOCK	X	.	.	X	X	X	X	X		.	.	P	.	
81415	MARIPASOULA	X	.	.	X	X	X	X	X		.	.	P	.	

1.4 Changes in index numbers

- ***Notification from Yemen***

Due to technical reasons following the unification of the country, the following index numbers of stations in yemen have been implemented without the 6 months notice required by the GOS manual:

New index No.	Name
41367	THAMUD
41396	SEIYOUN
41398	AL-GHAIDAH
41404	SANA'A
41407	MARIB
41416	KAMARAN
41431	HODEIDAH
41437	ATAQ
41443	RIYAN
41466	TAIZ
41477	MOKHA
41480	ADEN
41494	SOCOTRA

4. Automatic marine stations

4.2 United States of America

List of U.S.A. Ocean Data Acquisition System (ODAS) included in the May 1992 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 DRIFTER code.

Legend - Observed or technical parameters

Column	Parameters	Column	Parameters
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

4.2.1 Moored Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 30 April - 7 May 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
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	
41002**		32°18'N	75°12'W	X	X	X	X	X	X	X	
41006**		29°18'N	77°24'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	
41016		24°36'N	76°30'W	X	X	X	X	X	X	X	
42001**		25°54'N	89°42'W	*	*	*	*	*	*	*	
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	*	*	*	*	*	*	*	
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	
44004**		38°30'N	70°42'W	X	X	X	X	X	X	X	
44005**		42°36'N	68°36'W	X	X	X	X	X	X	X	
44007**		43°30'N	70°06'W	X	X	X	X	X	X	X	
44008**		40°30'N	69°24'W	X	X	X	X	X	X	X	
44009**		38°24'N	74°42'W	X	X	X	X	X	X	X	
44011**		41°06'N	66°36'W	X	X	X	X	X	X	X	
44012**		38°48'N	74°36'W	X	X	X	X	X	X	X	
44013**		42°24'N	70°48'W	X	X	X	X	X	X	X	
44014		36°36'N	74°48'W	X	X	X	X	X	X	X	
44025		40°18'N	73°12'W	X	X	X	X	X	X	X	
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	X	
45003**		45°18'N	82°42'W	X	X	X	X	X	X	X	
45004**		47°30'N	86°30'W	X	X	X	X	X	X	X	
45005**		41°42'N	82°24'W	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	
46001**		56°18'N	148°18'W	X	X	X	X	X	X	X	
46002**		42°30'N	130°18'W	X	X	X	X	X	X	X	
46003**		51°54'N	155°54'W	X	X	X	X	X	X	X	
46005**		46°06'N	131°00'W	X	X	X	X	X	X	X	

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

* Sensor / system failure.

4.2.1 Moored Buoys (continued)

WMO buoy Identifier	ARGOS Identifier	Position: 30 Apr.- 7 May 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
46006**		40°48'N	137°42'W	*	*	*	*	*	*	*	
46011		34°54'N	120°54'W	X	X	X	X	X	X	X	
46012		37°24'N	122°42'W	X	X	X	X	X	X	X	
46013		38°12'N	123°18'W	X	X	X	X	X	X	X	
46014		39°12'N	124°00'W	*	*	*	*	*	*	*	
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	
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	*	*	*	*	*	*	*	
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	
46051		34°30'N	120°42'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	

4.2.2 Drifting Buoys

WMO buoy Identifier	ARGOS Identifier	Position: 6-7 May 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
16807	05133	55°S	114°E	.	X	X	.	X	.	.	.
16810	12309	53°S	042°E	.	X	X	.	X	.	.	.
17804	12300	26°S	092°E	.	*	X	.	X	.	.	.
17805	12304	19°S	065°E	.	*	X	.	X	.	.	.
17809	05125	33°S	055°E	.	X	X	.	X	.	.	.
17811	05569	36°S	032°E	*	*	X	.	*	.	.	.
17814	01968	49°S	038°E	.	.	.	.	.	.	.	.
17815	01965	36°S	014°E	.	X	X	.	X	.	.	.
17825	05129	35°S	068°E	.	X	X	.	X	.	.	.
33509	12307	38°S	030°E	.	X	X	.	X	.	.	.
33510	12308	40°S	085°E	.	X	X	.	X	.	.	.
33827	12297	46°S	158°E	.	X	X	.	X	.	.	.
33828	12298	31°S	095°E	.	X	X	.	X	.	.	.
33831	01967	43°S	008°W	.	X	X	.	X	.	.	.
53822	05132	09°S	117°E	.	X	X	.	X	.	.	.
54801	01973	34°S	163°W	.	X	X	.	X	.	.	.

* Sensor / system failure.

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

4.2.2 *Drifting Buoys (continued)*

WMO buoy Identifier	ARGOS Identifier	Position: 6-7 May 1992		Observed or technical parameters							
		Latitude	Longitude	1	2	3	4	5	6	7	8
54803	01975	48°S	161°W	.	.	X	.	X	.	.	.
54804	01970	48°S	157°W	.	.	X	.	X	.	.	.
54805	01885	47°S	168°W	.	.	X	.	X	.	.	.
54833	06586	44°S	136°W	X	X	X	.	X	.	.	X
54835	06731	38°S	134°W	.	X	X	.	X	.	.	.
54836	05128	31°S	153°W	.	X	X	.	X	.	.	.
54837	05135	26°S	164°W	.	X	X	.	X	.	.	.
54838	08823	43°S	139°W	.	X	X	.	X	.	.	.
54840	05120	54°S	111°W	.	X	X	.	X	.	.	.
54842	05122	50°S	132°W	.	X	X	.	X	.	.	.
54843	05134	46°S	125°W	.	X	X	.	X	.	.	.
54844	05123	48°S	115°W	.	X	X	.	X	.	.	.
55803	05136	53°S	088°W	.	X	X	.	X	.	.	.
56801	05130	17°S	118°E	.	X	X	.	X	.	.	.
56835	12291	27°S	086°E	.	X	X	.	X	.	.	.
56836	12293	29°S	098°E	.	X	X	.	X	.	.	.
56837	05116	06°S	107°E	.	*	X	.	*	.	.	.
56838	12294	16°S	078°E	.	X	X	.	X	.	.	.
56839	05124	27°S	083°E	.	X	X	.	X	.	.	.
56840	12292	53°S	079°E	.	*	X	.	X	.	.	.
74801	01980	71°S	044°W	.	X	X	.	*	.	.	.
74802	01983	67°S	018°W	.	X	X	.	X	.	.	.
74803	01966	62°S	008°E	.	X	X	.	X	.	.	.

* Sensor / system failure.

4.3 *France*

List of buoys operated by France from which reports were transmitted into the GTS by the Centre for Marine Meteorology of Météo-France during May 1992, under the following abbreviated headings:

SSVX51 LFPW North Atlantic
SSVX55 LFPW Equatorial Pacific

	WMO buoy Identifier	ARGOS Identifier
North Atlantic (SSVX51)	62501 62505 62506	10115 14412 10119
Programme TOGA: Equatorial Pacific (SSVX55)	51891 51898 52881 52882 52883	01621 12093 01626 06650 06651

5. ARGOS service

5.1 ARGOS monthly status report

As at 1 May 1992 the ARGOS service was handling reports from 896 drifting buoys, 257moored buoys, 1 balloon, 29 ships, 216 animal trackings, 399 fixed stations, 156 boats and 81 miscellaneous platforms. DRIFTER reports from 59 drifting buoys and BATHY reports from 39 selected ships were transmitted to the RTH Paris and DRIFTER reports from 399 drifting and moored buoys (including ATLAS 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:

Operating country	WMO Identifier/ Call sign		ARGOS Identifier
Australia	55512		00416
	55513		00421
	55515		00415
	55516		00417
	56001		04873
	56501		02934
	56503		08035
	56504		08036
	56505	+	08037
	56506		04875
	56507		04876
	56508		04877
	56548		04871
	56549		04872
	CSIR	•	09196
	GYRW	*	09197
	GYSA	•	09189
	GYSE	•	09199
	LAB1	*	09187
	LAB3	•	09195
	S6FK	•	09193
	VJBQ	•	09192
	VJDI	•	09188
	VJDP	*	09198
	9VBZ	*	09194
	9VUU	•	09190
	9VWM	*	09191
Canada	21551		01333
	21552		01315
	21553		01332
	44684		03321
	44687		04758
	44688		04759
	44689		04760
	44690		01052

Operating country	WMO Identifier/ Call sign		ARGOS Identifier
Canada (continued)	44691		04763
	44692		08647
	44693		08649
	44694		10053
	46643		01185
	46644		01198
	46645		01199
	46646	+	01186
	46647		01187
	46648		01188
	46651		01318
	46652		01319
	46655		01334
	47554		02469
	47558		11249
	47559		04004
Finland	71091		05895
France	44601		10103
	62501		10115
	62502		10106
	62503		05834
	62507		05794
	62514		05831
	C6HL	*	04709
	C6IO	•	04710
	DIDA	•	08742
	ELEH	•	08747
	ELIL	•	04719
	ELIS	*	04703
	FH62	•	04727
	FNCZ	*	08744
	FNGB	•	04733
	FNGS	*	04707
	FNJT	•	04724
	FNOM	•	04701
	FNPA	•	04706
	FNQB	*	04726

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

• PTT's transmitting at irregular intervals

5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign		ARGOS Identifier
France (continued)	FNZO	•	08739
	FNZP	*	04715
	FNZQ	•	04711
	FPYO	*	04729
	FUHH	•	04728
	FWQP	*	08746
	GQEK	•	04708
	HPEW	*	04720
	ZDAZ	*	04714
	ZDBE	*	04718
	3BBA	•	04713
	3EKW	•	08748
Germany	48601		11240
	48602		11241
	48604		11243
	48605		11244
	48606		11245
	48607		11246
	63661		09361
	71042		03317
	71524		03315
	71545		09353
	71546		09354
	71549	+	09361
	71550		09356
	71551		09357
	71552		09358
	71553		09359
Netherlands	44761		06669
	64611		08521
	64612		08522
	64614		08524
New Zealand	55580		06439
	55582		07175
	55584		07178
	55585		07177
	55586		07176
Norway	17001		01591
	44760		03038
	63531		03704
	65591		06666

Operating country	WMO Identifier/ Call sign		ARGOS Identifier
Norway (continued)	65594		09308
	74001		09406
South Africa**	14523		06730
	17525		14064
	17536		14066
	33021	+	09087
United Kingdom	62696		01251
	62805		06285
	64043		06271
United States of America	12505		14652
	13003	+	13227
	13005		01647
	13006		01658
	13901		14455
	13902		14456
	13903		14457
	13904		14445
	13905		14447
	13906		14460
	13907		14461
	13908		14462
	13911		14448
	13912		14449
	13913		14450
	13914		14452
	13917		14440
	13918		14441
	13919		14442
	13920		14443
	13921		14444
	14464		14464
	15103		15103
	15700		15700
	16807		05133
	16810		12309
	17804		12300
	17805		12304

• PTT's transmitting at irregular intervals

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

** 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 (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	17809	05125
	17811	05569
	17812	01981
	17813	01978
	17814	01968
	17815	01965
	17825	05129
	21524	12701
	21532	12696
	21533	12695
	21573	04648
	21574	14290
	21575	14594
	21577	14596
	21901	15537
	21902	15536
	22901	14980
	22905	14972
	23515	01725
	23516	01726
	23518	02048
	25537	12805
	31502	09844
	32316	06799
	32317	15808
	32318	12522
	32439	15604
	32512	11920
	32513	11917
	32514	11948
	32515	15648
	32516	11927
	32517	15093
	32518	15091
	32519	11905
	32520	15649
	32521	15651
	32522	15598
	32523	10809
	32524	15695
	32525	11192
	32526	15696
	32527	15697
	32528	03224
	32529	15028
	32530	15699
	32531	15011
	32532	11897

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	32533	15017
	32534	15018
	32535	15025
	32536	15026
	32537	03225
	32538	15602
	32540	11904
	32541	15595
	32542	15596
	32543	03567
	32544	11908
	32546	11160
	32547	15597
	32548	15599
	32549	11163
	32551	15600
	32552	11195
	32553	15603
	32554	15601
	32555	15625
	32556	11934
	32557	15626
	32558	09276
	32559	15627
	33509	12307
	33510	12308
	33827	12297
	33828	12298
	33831	01967
	34901	15123
	34902	15125
	41501	14663
	41502	14664
	41520	14643
	42026	00935
	42027	00930
	42028	00937
	42029	00934
	42030	00931
	42031	00936
	42032	00933
	42033	00932
	43001	06473
	43501	11919
	43503	15656
	43504	11198
	43505	15657
	43506	15698

5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign		ARGOS Identifier
United States of America (continued)	44504		09170
	44514		04646
	44559		15138
	44560	+	15142
	46508		06097
	46509		06098
	46510		06114
	46512		06120
	46513		06185
	46531		15618
	46532		15615
	46533		15619
	46534		15624
	46535		15607
	46536		15609
	46537		15612
	46538		15613
	46539		15622
	46541		15643
	46542		15639
	46543		15642
	46544		15637
	46545		15640
	46546		15641
	46547		15070
	46548		15075
	46549		15076
	46550		01135
	46901		15655
	47601		12823
	48518		12800
	48519		12820
	48520		12801
	48554		12802
	48555		12806
	48557		12808
	48558		12821
	48559		12822
	48560		12824
	48561		12825
	48562		12826
	48564		12828
	48565		12829
	51006		06798
	51007		15814
	51009		15811
	51010		04591
	51011		12529

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51014	04595
	51015	15810
	51016	15812
	51017	12527
	51018	15809
	51019	06475
	51020	06518
	51021	04594
	51022	04592
	51023	06517
	51302	04593
	51303	06474
	51306	06794
	51502	02051
	51506	14291
	51510	15042
	51511	15117
	51512	15089
	51513	11663
	51514	02433
	51515	14432
	51516	11949
	51517	11676
	51518	15077
	51519	02437
	51520	03117
	51801	14433
	51802	02434
	51803	15593
	51804	14434
	51805	15106
	51806	03118
	51807	15094
	51808	02435
	51809	14435
	51810	11956
	51811	15653
	51812	15654
	51813	11924
	51814	11946
	51815	03222
	51816	15616
	51817	15617
	51818	15110
	51820	15122
	51821	11690
	51822	11870
	51823	03223

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

5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51827	11688
	51828	15015
	51829	11202
	51830	15088
	51833	11872
	51835	09271
	51836	09270
	51837	15621
	51840	15090
	51841	11950
	51842	11702
	51843	11703
	51844	09275
	51845	15107
	51846	11692
	51847	15027
	51849	15097
	51850	15608
	51853	15610
	51855	11705
	51856	15082
	51857	11667
	51858	15611
	51859	15606
	51861	15099
	51862	11670
	51863	15636
	51865	15638
	51866	15644
	51867	15645
	51869	11674
	51870	11679
	51871	15646
	51872	11696
	51873	11699
	51875	11704
	51876	11683
	51877	15073
	51878	15072
	51879	15074
	51880	15078
	51881	15080
	51882	15081
	51883	15083
	51884	15084
	51885	15086
	51901	15658
	51902	15671

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	51903	15672
	51905	15674
	52001	12526
	52002	06476
	52003	12524
	52004	12528
	52006	06519
	52007	06797
	52008	06795
	52011	06796
	52012	06471
	52302	12525
	52506	15031
	52507	15037
	52508	15104
	52509	15109
	52510	11939
	52512	15023
	52513	15661
	52514	15040
	52515	15041
	52517	15108
	52518	15114
	52520	15121
	52616	15021
	52801	15035
	52802	15662
	52803	15029
	52804	15051
	52805	15012
	52807	09278
	52808	15666
	52809	15016
	52810	15701
	52811	15111
	52812	15126
	52814	15659
	52815	15660
	52816	15664
	52817	15665
	52818	15670
	52826	15668
	52827	15663
	52828	15669
	52866	11887
	52868	11876
	52872	11890
	52877	11883

5.1 ARGOS monthly status report (cont.)

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	53801	11940
	53808	11942
	53809	11886
	53822	05132
	54801	01973
	54802	01993
	54829	06762
	54833	06586
	54835	06731
	54836	05128
	54837	05135
	54838	08823
	54839	12312
	54840	05120
	54842	05122
	54843	05134
	54844	05123
	54901	15049
	54902	15115
	54903	15118
	54904	15020
	54905	15024
	54906 +	15032
	54907	15044
	54908	15129
	54909	15120
	54910	15033
	54911	15036
	54912	15101
	54913	15112
	54914	15119
	54916	15630
	54917	15631
	54918	15632
	54919	15634
	54920	15633
	55601	01123
	55803	05136
	56801	05130
	56835	12291
	56836	12293
	56837	05116
	56838	12294
	56839	05124
	56840	12292
	61523	14589
	61529	14617
	61532	01724

Operating country	WMO Identifier/ Call sign	ARGOS Identifier
United States of America (continued)	64577	14315
	64578	14316
	64579	14630
	71561	01430
	71562	01431
	71563	01432
	71564	01433
	73656	01124
	74801	01980
	74802	01983
	74803	01966
ATLAS BUOYS	32315	06461
	32316	06799
	32317	15808
	32318	12522
	32319	06371
	43001	06473
	51006	06798
	51007	15814
	51008	06370
	51009	15811
	51010	04591
	51011	12529
	51014	04595
	51015	15810
	51016	15812
	51017	12527
	51018	15809
	51019	06475
	51020	06518
	51021	04594
	51022	04592
	51023	06517
	51302	04593
	51303	06474
	51305	06514
	51306	06794
	52001	12526
	52002	06476
	52003	12524
	52004	12528
	52006	06519
	52007	06797
	52008	06795
	52010	06460
	52011	06796
	52012	06471
	52302	12525

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

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 (see Appendix, pages I and 2) 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

- ***METEOSAT - Latest operational News as of 1 May 1992***

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

METEOSAT-3 is currently located close to 50 degrees West. there is one channel containing a mixture of WEFAX and digital image data using the frequency 1691 MHz. Updated information on the dissemination schedule can be obtained directly from EUMETSAT (Tel.: ++49-6151-950116 to ++49-6151-95019, Fax: ++49-6151-950125, Telex: 4197335 emet d). Both High Resolution Digital and WEFAX formats will be alternately transmitted on a time -shared transponder. METEOSAT-3 will provide coverage of the continental United States and South America and is being made available by the European Organization for the Exploitation of Meteorological Satellites in Darmstadt, Germany. See Table 1 for transmission schedule.

METEOSAT-5 Image Anomaly Investigation. The METEOSAT-5 image anomaly is caused by a very small movement in one of the radiometer optics lenses. This movement can probably be modelled and has been largely corrected by using updated data processing (image rectification) software. A permanent fix is not expected before several months, however, the satellite can still be used as the operational stand-by satellite, and will be tested from time to time.

- ***GOES - Latest Operational News as of 10 May 1992***

GOES-7 - Normal VAS and WEFAX operations

- ***Polar orbiting spacecraft status as of 1 May 1992***

NOAA-9: (Standby), afternoon ascending, AVHRR (HRPT, APT), SSU, DCS, SBUV, SAR

NOAA-10: (Standby), morning descending, AVHRR (HRPT, APT), DCS, MSU, SAR, SEM ERBE scanner failed 22 May 1989

NOAA-11: (Operational), afternoon ascending, AVHRR (HRPT, APT), SSU, DCS, SBUV, SAR

NOAA-12: (Operational), morning descending, AVHRR (HRPT, APT), SSU, DCS, MSU and SEM

	HRPT	APT	BCN
NOAA-9	1707	137.62	137.77
NOAA-10	1698	137.50	136.77
NOAA-11	1707	137.62	137.77
NOAA-12	1698	137.50	136.77

D. Information on opreational status of space sub-system (continued)

- ***Russian Meteorological Summary as of 22 March 1992***

METEOR 3-4 is available on 137.300 MHz. Afternoon south to north passes are available with visible mode APT imagery. METEOR 2-19 continues to transmit on 137.850 MHz, with morning north to south passes available.

Table 1

METEOSAT (M-3) "WEFAX TRANSMISSION SCHEDULE (31 July 1991)

Hrs.	Minutes 02	06	10	14	18	22	26	30	34	38	42	46	50	54	58
00				L1D	L2D	L3D	L4D				L5D	L6D	L1E	L3E	L5E
01									L1D	L2D	L3D	L4D	L5D	L6D	L1E
02				L1D	L2D	L3D	L4D		L5D	L6D	ADM	TST		TST	TST
03				L1D	L2D	L3D	L4D				L5D	L6D	L1E	L3E	L5E
04											L1D	L3D	L4D	L5D	L6D
05				L1D	L2D	L3D	L4D				L5D	L6D	L1E	L3E	L5E
06				L1D	L2D	L3D	L4D				L5D	L6D	L1E	L3E	L53
07										L1D	L2D	L3D	L4D	L5D	L6D
08				L1D	L2D	L3D	L4D		L5D	L6D	ADM	TST		TST	TST
09				L1D	L2D	L3D	L4D				L5D	L6D	L1E	L3E	L5E
10											L1D	L3D	L4D	L5D	L6D
11				L1D	L1C							L3D	L4D	L5D	L6D
12				L1D	L1C							L3D	L4D	L5D	L6D
13											L1D	L3D	L4D	L5D	L6D
14				L1D	L1C	L2C	L3C		L4C	L5C	L6C	L3D	L4D	L5D	L6D
15				L1D	L1C							L3D	L4D	L5D	
16												L1D	L3D	L4D	L5D
17				L1D	L1C							L3D	L4D	L5D	L6D
18				L1D	L1C							L3D	L4D	L5D	L6D
19											L1D	L3D	L4D	L5D	L6D
20				L1D	L1C	L2C	L3C		L4C	L5C	L6C	L3D	L4D	L5D	L6D
21				L1D	L1C							L3D	L4D	L5D	
22												L1D	L3D	L4D	L5D
23				L1D	L1C							L3C	L4C	L5C	L6C

Symbols:
ADM = Administrative message
LXD = IR
LXC = VIS
LXE = Water vapour
TST = Test pattern

WEFAX and GMR operations - ADC imagery is being used for LXI formats. A new full disc image format has been introduced . There are currently no LXIV formats, however, a new LXI format containing VIS information will be tested in the next weeks and if successful further information will be provided in due course.

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 (IIii) 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: May 1992

C. Information on the operation of the GTS

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

1.1 New bulletins

- ***Notification from Australia:***

That WMC Melbourne will be generating new GRIB bulletins. These messages should be injected into the GTS as soon as possible. The abbreviated headings are as follows:

MSL (Issued for 0000 UTC and 1200 UTC)			
HPIA98	AMMC	HPKA98	AMMC
HPIE98	AMMC	HPKE98	AMMC
HPII98	AMMC	HPKI98	AMMC
HPIK98	AMMC	HPKK98	AMMC
HPIM98	AMMC	HPKM98	AMMC
HPIO98	AMMC	HPKO98	AMMC
HPJA98	AMMC	HPLA98	AMMC
HPJE98	AMMC	HPLE98	AMMC
HPJI98	AMMC	HPLI98	AMMC
HPJK98	AMMC	HPLK98	AMMC
HPJM98	AMMC	HPLM98	AMMC
HPJO98	AMMC	HPLO98	AMMC

Heights (Issued for 0000 UTC and 1200 UTC)					
HHIA85	AMMC	HHIA50	AMMC	HHIA25	AMMC
HHIE85	AMMC	HHIE50	AMMC	HHIE25	AMMC
HHII85	AMMC	HHII50	AMMC	HHII25	AMMC
HHIK85	AMMC	HHIK50	AMMC	HHIK25	AMMC
HHIM85	AMMC	HHIM50	AMMC	HHIM25	AMMC
HHIO85	AMMC	HHIO50	AMMC	HHIO25	AMMC
HHJA85	AMMC	HHJA50	AMMC	HHJA25	AMMC
HHJE85	AMMC	HHJE50	AMMC	HHJE25	AMMC
HHJI85	AMMC	HHJI50	AMMC	HHJI25	AMMC
HHJK85	AMMC	HHJK50	AMMC	HHJK25	AMMC
HHJM85	AMMC	HHJM50	AMMC	HHJM25	AMMC
HHJO85	AMMC	HHJO50	AMMC	HHJO25	AMMC
HHKA85	AMMC	HHKA50	AMMC	HHKA25	AMMC
HHKE85	AMMC	HHKE50	AMMC	HHKE25	AMMC
HHKI85	AMMC	HHKI50	AMMC	HHKI25	AMMC
HHKK85	AMMC	HHKK50	AMMC	HHKK25	AMMC
HHKM85	AMMC	HHKM50	AMMC	HHKM25	AMMC
HHKO85	AMMC	HHKO50	AMMC	HHKO25	AMMC
HHLA85	AMMC	HHLA50	AMMC	HHLA25	AMMC
HHLE85	AMMC	HHLE50	AMMC	HHLE25	AMMC
HHLI85	AMMC	HHLI50	AMMC	HHLI25	AMMC
HHLK85	AMMC	HHLK50	AMMC	HHLK25	AMMC
HHLM85	AMMC	HHLM50	AMMC	HHLM25	AMMC
HHLO85	AMMC	HHLO50	AMMC	HHLO25	AMMC

All the GRIB data are at 2.5 x 2.5 latitude/longitude resolution, and refer to the Southern Hemisphere

- ***Notification from Australia: (continued)***

Heard Island synoptic reports: A small party is presently on Heard Island, and is currently lodging manually prepared synoptic reports for 0000 UTC only to WMC Melbourne via an INMARSAT-C terminal. The party is expected to stay on the island and generate the reports for at least the next twelve months.

Details of the site : WMO No.: 94997
Latitude 53°01'S
Longitude: 73°23'E
Elevation pressure HP : 6 m

These reports will be compiled into an AMMC bulletin for injection onto the GTS. The WMO abbreviated heading is SMHI01 AMMC.

- ***Notification from Norway:***

Effective immediately TESAC messages from the Weather Ship Polarfront (station Mike) and from other ships will be transmitted on the GTS under the following headings:

SOWF01	ENMI
SOVFO1	ENMI

- ***Notification from Yemen:***

Upper air station 41494 SOCOTRA (previously 41499) has become newly operational in support of TOGA. 12 UTC TEMP messages from this station are transmitted at 1330 UTC via METEOSAT. These messages will be disseminated over the GTS under the following headings:

TTBB	UKYE01	EESA
TTAA	USYE01	EESA
TTCC	ULYE01	EESA
TTDD	UEYE01	EESA

1.3 Changes to bulletins

- ***Notification from Germany:***

As from 7 April 1992 the station 10286 is being added to the following meteorological bulletins :

SMDL24	EDZW
SIDL24	EDZW
SNDL24	EDZW

1.5 Bulletins for oceanographic data

- ***France: GTS Bulletin Headers used for GTS distribution of Drifting Buoy data***

Reports in code DRIFTER from meteorological and oceanographic buoys are being transmitted from the Centre for Marine Meteorology of Météo-France, Brest into the GTS in the following meteorological bulletins:

Bulletins are routed to the Service Central d'Exploitation de la Météorologie (SCEM) of Météo-France, Toulouse and actually distributed globally from this source.

$T_1T_2A_1A_2ii$	Approximate region or programme
SSVX51 LFPW	North Atlantic.
SSVX55 LFPW	Equatorial Pacific

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

2.3 Changes in schedules/technical specifications

- ***Notification from Senegal:***

I-ii Dakar RTT broadcast and I-iii Dakar radio-facsimile broadcast effective 13 February 1992 read:

6VU23	4790.5 kHz	(0000-2400)	5 kW,
6VU73	13667.5 kHz	(0000-2400)	10 kW
6VU79	19750 kHz	(0000-2400)	10 kW

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

Date: May 1992

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

- ***Notification from Senegal: :***

Aii-l Dakar radio-facsimile broadcast effective 13 February 1992 read:

6VU23	4790.5 kHz	(0000-2400)	5 kW,
6VU73	13667.5 kHz	(0000-2400)	10 kW
6VU79	19750 kHz	(0000-2400)	10 kW

2. Marine meteorological services available for main ports (Publication No. 9, Volume D, Part C_1)

- ***Notification from the United Kingdom of Great Britain and Northern Ireland:***

Page D-C_1-VI-20 to D-C_1-VI-26: amend entry for (1), (2) and (3) to read:

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
ROYAUME-UNI DE GRANDE BRETAGNE ET D'IRLANDE DU NORD (18.V.1992))

(1)	(2)	(3)
Bristol Channel (Cardiff)	Captain A.F. Ashton 12th. Floor, Southgate House, Wood Street, CARDIFF CF1 1EW	Cardiff (0222) 221423

(1)	(2)	(3)
Clyde (Glasgow)	Captain S.M. Norwell, MOD(N) Room 200F, Navy Building, Eldon Street, GREENOCK Strathclyde PA16 7SL	Greenock (0475) 24700

(1)	(2)	(3)
Humber (Hull)	Captain E.J. O'Sullivan c/o Department of Transport Posterngate HULL HU1 2JN	Hull (0482) 20158

- ***Notification from the United Kingdom of Great Britain and Northern Ireland: (continued)***

(1)	(2)	(3)
Mersey (Liverpool)	Captain A. Britain Room 218, Royal Liver Building, Liverpool L3 1HU	(051) 236 6565

(1)	(2)	(3)
London	Captain C.R. Downes Daneholes House Hogg Lane, GRAYS Essex RM17 5QH	Grays Thurrock (0375) 378369

(1)	(2)	(3)
Southampton	Captain D.R. McWhan Southampton Weather Centre, 160, High Street SOUTHAMPTON S01 0BT	Southampton (0703) 220632

(1)	(2)	(3)
Tyne (Newcastle)	Captain J. Steel Room D418, Corporation House 73/75 Albert Road, MIDDLESBROUGH, Cleveland TS1 2RU	Middlesbrough (0642) 231622