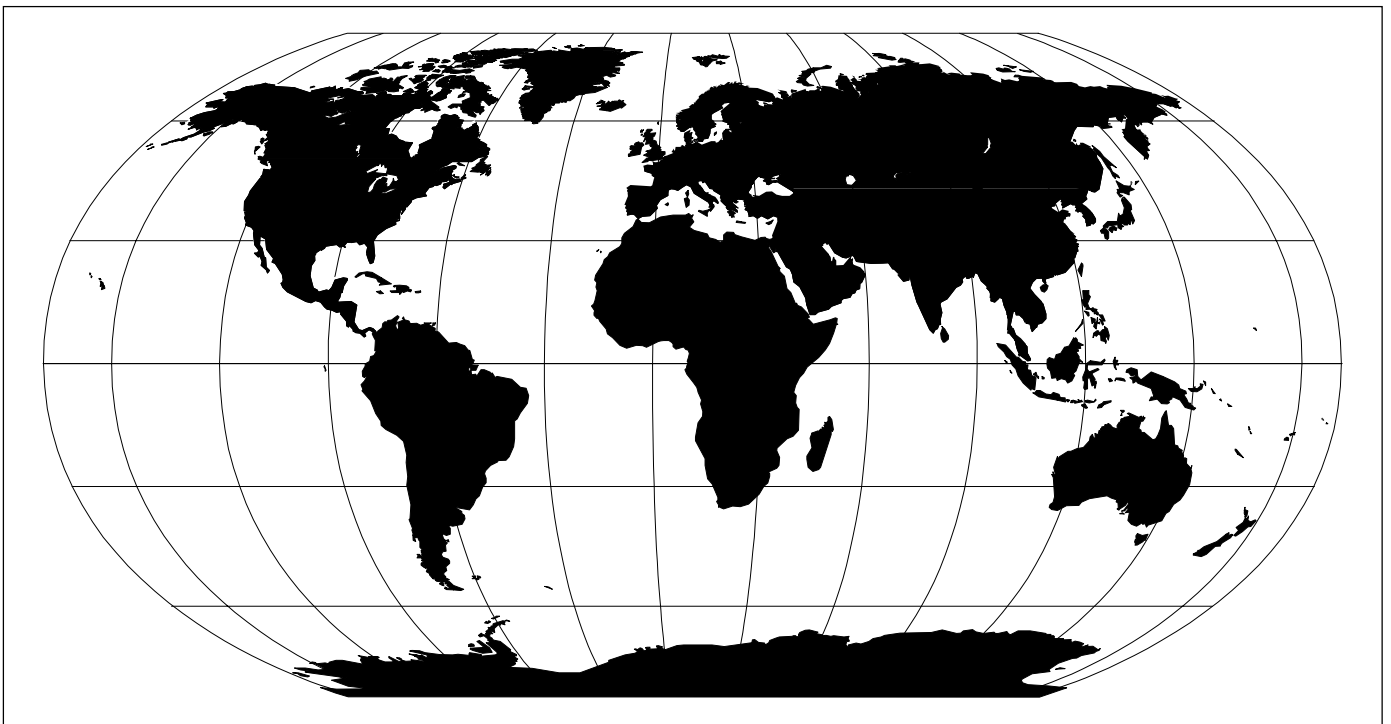


OPERATIONAL NEWSLETTER

VOLUME 1998

No. 3/4 - MARCH/APRIL 1998

WORLD WEATHER WATCH



MARINE METEOROLOGICAL SERVICES



WORLD METEOROLOGICAL ORGANIZATION
GENEVA
SWITZERLAND

The WMO Secretariat would like to express its appreciation to all those who have contributed material to the "*Operational Newsletter*". ■

EDITORIAL

The *Operational Newsletter* on the World Weather Watch (WWW) and Marine Meteorological Services (MMS) has been issued since 1982 at the request of the Commission for Basic Systems. It is distributed by the WMO Secretariat and is aimed at providing WWW Centres with a summary of the latest operational information on:

- I. The Global Observing System
- II. The Global Telecommunication System
- III. The Global Data-Processing System
- IV. Data Management and Codes
- V. Marine Meteorological Services

A feedback form is included in the *Newsletter* to assist WMO Members in reporting changes in the present status of implementation of observing programmes of SYNOP, TEMP and PILOT reporting stations.

Your co-operation in ensuring that the above information reaches the appropriate operational units of your service is greatly appreciated.

In addition to the printed version which is distributed by mail, the *Newsletter* is also available at the following locations:

For access via FTP:

<ftp://www.wmo.ch/wmo-ddbs/>

For access via http:

<http://www.wmo.ch/web/ddbs/opnews.html>

The file is created in Adobe Acrobat PDF format so that users can easily download, view or print the document from different computer platforms, keeping the page layout and typography of the original document intact.

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<http://www.adobe.com/prodindex/Acrobat/readstep.html>

Comments are more than welcome. Should you have any difficulties downloading, viewing or printing the *Newsletter* ... Our e-mail address is as follows:

PWOI@WWW.WMO.CH

We look forward to hearing from you.

Rising costs demand that we scale down the distribution of the Newsletter by letter mail, so we strongly encourage our readers to help us become more cost-effective by using our new on-line service.

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I. GLOBAL OBSERVING SYSTEM

1. Information on the Operational Status of Elements of the Surface-Based Sub-System

1.1 End of Australian Summer Time (1997/1998)

Australian Summer Time ceased in new South Wales, the Australian Capital Territory, Victoria, South Australia and Tasmania at 1500 UTC 28 March 1998.

Australian Summer Time was not implemented in Queensland, Western Australia or the Northern Territory.

Surface observations in new South Wales, the Australian Capital Territory, Victoria, South Australia and Tasmania reverted to the normal program on 1500 UTC 28 March 1998.

No changes will be made to the time of surface observations in Queensland, Western Australia or the Northern Territory.

Upper-air observations in all States and Territories reverted to the normal program from 1500 UTC 28 March 1998.

1.2 Guidance Material on Instruments and Observing Methods

“WMO Catalogue of Radiosondes and Upper-air Wind Systems in use by Members”

The new edition 1998 of the above Catalogue is now available and is included at the end of this *Newsletter*.

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

In view of the difficulties experienced in identifying non-implemented observing stations or implemented stations which are closed or suspended for a certain period, or stations making observations that do not reach their NMCs, a special table accompanied by explanatory notes is included in this *Newsletter*. The table will 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.

Members are urged to fill in the special table as and when appropriate, and to return it to the Secretariat before the 20th of each month to enable changes to be included in the next *“Newsletter”*.

1.4 Automatic Marine Stations

KEY: Observed or Technical Parameters

Column	Parameters	Column	Parameters
1	Wind direction, speed and peak wind	12	Battery Voltage (BV)
2	Air temperature		
3	Air pressure	-	Parameter not observed
4	Pressure tendency	X	Buoy observes this parameter
5	Sea-surface temperature	.	Data under evaluation, not reported
6	Wave period and height		
7	Wave spectra	B	Buoy beached, sensor reporting
8	Drogued	N	No sensor installed
9	Subsurface temperatures	Q	Data questionable, but reported
10	Relative humidity	R	Buoy Retrieved
11	Visibility	S	Sensor/system failure

1.4.1 CANADA

Moored Buoys

North-east Pacific Ocean (SNVD17& SXCN50 CWVR, SNVD04 CWEG)

WMO Buoy Identifier	ARGOS Identifier	Position: 1 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46004	6267	50 58' N	135 48' W	X	X	X	X	X	X	X	N/A	-	-	-
46036	7180	48 21' N	133 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46131	N/A	49 54' N	124 59' W	X	X	X	X	X	X	X	N/A	-	-	-
46132	7197	49 44' N	127 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46145	7183	54 23' N	132 26' W	X	X	X	X	X	X	X	N/A	-	-	-
46146	N/A	49 20' N	123 44' W	X	X	X	X	X	X	X	N/A	-	-	-
46147	7186	51 49' N	131 12' W	X	X	X	X	X	X	X	N/A	-	-	-
46181	N/A	53 50' N	128 50' W	X	X	X	X	*	X	X	N/A	-	-	-
46183	8678	53 37' N	131 06' W	X	X	X	X	X	X	X	N/A	-	-	-
46184	6268	53 54' N	138 52' W	X	X	X	X	X	X	X	N/A	-	-	-
46185	8677	52 24' N	129 47' W	X	X	X	X	X	X	X	N/A	-	-	-
46204	4484	51 22' N	128 45' W	S	S	S	S	S	S	S	N/A	-	-	-
46205	7184	54 10' N	134 20' W	X	X	X	X	X	X	X	N/A	-	-	-
46206	7196	48 50' N	126 00' W	X	X	X	X	X	X	X	N/A	-	-	-
46207	7193	50 52' N	129 55' W	X	X	X	X	X	X	X	N/A	-	-	-
46208	4485	52 30' N	132 42' W	X	X	X	X	X	X	X	N/A	-	-	-

North-west Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 1 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
44137	5579			.	.	.	.	.	.	.	N/A	-	-	-
44138	5577	44 16' N	053 37' W	S	S	S	S	S	S	S	N/A	-	-	-
44139	3448	44 12' N	057 30' W	S	S	S	S	S	S	S	N/A	-	-	-
44140	N/A			.	.	.	.	.	.	.	N/A	-	-	-
44141	3449	42 04' N	056 09' W	S	S	S	S	S	S	S	N/A	-	-	-
44142	5578			.	.	.	.	.	.	.	N/A	-	-	-
44153	2078	46 44' N	048 48' W	S	S	S	S	S	S	S	N/A	-	-	-
44251	9234	46 30' N	053 24' W	X	X	X	X	X	X	X	N/A	-	-	-
44255	9233	47 17' N	057 21' W	X	X	X	X	X	X	X	N/A	-	-	-

Gt. Slave Lake , Lake Winnipeg, Great Lakes, Gulf of St. Lawrence

WMO Buoy Identifier	ARGOS Identifier	Position: 1 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
45132	N/A			N/A	-	-	-
45135	N/A	43 47' N	076 52' W	S	S	S	S	S	S	S	N/A	-	-	-
45136	N/A			N/A	-	-	-

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45137	N/A			N/A	-	-	-
45138	3436			N/A	-	-	-
45139	N/A	43 26' N	079 23' W	X	X	X	X	X	X	X	N/A	-	-	-
45140	3439			N/A	-	-	-
45141	N/A			N/A	-	-	-
45142	N/A			.	.	.	.	.	.	.	N/A	-	-	-
45143	N/A			.	.	.	.	.	.	.	N/A	-	-	-
45144	8671			.	.	.	.	.	.	.	N/A	-	-	-

**Drifting Buoys
Pacific Ocean**

WMO Buoy Identifier	ARGOS Identifier	Position: 26 March 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
46632	12517	53 18' N	153 42' W	X	X	X	X	X	.	.	X	-	-	-
46641	12511	48 42' N	142 12' W	.	X	X	X	X	.	.	X	-	-	-
46692	12513	43 48' N	151 42' W	X	X	X	X	X	.	.	X	-	-	-
46701	8674	59 24' N	149 00' W	X	X	X	X	X	.	.	X	-	-	-

Remarks:

- 44153 - Experimental SWS-2 ODAS buoy deployed February 19. Failed March 11.
- 44137 - Buoy ashore
- 44142 - Buoy ashore
- 44251,44255 - Deployed March
- 45132,45136,45137,45142,45143 - On test.
- 46206 - Buoy redeployed March 07.
- 46632 - Direction only.

Failed:

- 44138 - Failed February
- 44139 - Failed November 22
- 44141 - Failed December 8
- 45135 - Stopped xmitng February 17. Battery failure.
- 46204 - Failed March 26

Removed for the Winter:

- 44140
- 45138 - November 20
- 45140 - October 15
- 45141 - October 21
- 45144 - October 29

1.4.2 UNITED STATES OF AMERICA

List of U.S.A. Ocean Data Acquisition Systems (ODAS) included in the Data Platform Status Report of the Data Buoy Centre of the National Oceanic and Atmospheric Administration (NOAA) on 24 April 1998.

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.

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position:16-23 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41001*		34.68N	72.64W	S	X	X	-	X	S	S	-	-	-	-
41002*		32.27N	75.19W	R	R	R	-	R	R	R	-	-	-	-
41004		32.51N	79.10W	X	X	X	-	S	X	X	-	-	-	-
41008*		31.40N	80.87W	X	X	X	-	X	X	X	-	-	-	-
41009		28.50N	80.18W	X	X	X	-	X	X	X	-	-	-	-
41010		28.89N	78.55W	X	X	X	-	X	X	X	-	-	-	-
42001*		25.93N	89.65W	X	X	X	-	S	X	X	-	-	-	-
42002*		25.89N	93.57W	X	X	X	-	X	X	X	-	-	-	-
42003*		25.94N	85.91W	X	S	X	-	X	X	X	-	-	-	-
42007		30.09N	88.77W	X	X	X	-	X	X	X	-	-	-	-
42019		27.92N	95.35W	X	X	X	-	X	X	X	-	-	-	-
42020		26.92N	96.70W	X	X	X	-	X	X	X	-	-	-	-
42035		29.25N	94.41W	X	X	X	-	X	X	X	-	-	-	-
42036		28.51N	84.51W	X	X	X	-	X	X	X	-	-	-	-
42039		28.78N	86.04W	X	X	X	-	X	X	X	-	-	-	-
42040		29.20N	88.25W	X	X	X	-	X	X	X	-	-	-	-
44004*		38.46N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44005*		42.90N	68.89W	X	X	X	-	X	X	X	-	-	-	-
44007		43.53N	70.14W	X	X	X	-	X	X	X	-	-	-	-
44008*		40.50N	69.43W	X	X	X	-	X	X	X	-	-	-	-
44009*		38.46N	74.70W	S	X	X	-	X	X	X	-	-	-	-
44011*		41.08N	66.58W	X	X	X	-	X	X	X	-	-	-	-
44013		42.35N	70.69W	X	X	X	-	X	X	X	-	-	-	-
44014		36.58N	74.83W	X	X	X	-	X	X	X	-	-	-	-
44025		40.25N	73.17W	X	X	X	-	X	X	X	-	-	-	-
45001*		48.06N	87.78W	X	X	X	-	X	X	X	-	-	-	-
45002*		45.30N	86.42W	X	X	X	-	X	X	X	-	-	-	-
45003*		45.33N	82.77W	X	X	X	-	S	X	X	-	-	-	-
45004*		47.56N	86.55W	X	X	X	-	X	X	X	-	-	-	-
45005*		41.67N	82.39W	X	X	X	-	X	X	X	-	-	-	-
45006*		47.32N	89.87W	X	X	X	-	X	X	X	-	-	-	-
45007*		42.67N	87.02W	X	X	X	-	X	X	X	-	-	-	-
45008*		44.28N	82.42W	X	X	X	-	S	X	X	-	-	-	-
46001*		56.30N	48.17W	X	X	X	-	X	X	X	-	-	-	-
46002*		42.53N	30.26W	X	X	X	-	X	X	X	-	-	-	-
46003*		51.85N	55.92W	S	S	S	-	S	S	S	-	-	-	-
46005*		46.08N	31.00W	X	S	X	-	X	X	X	-	-	-	-
46006*		40.84N	37.49W	X	X	X	-	X	X	X	-	-	-	-

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46011		34.88N	20.87W	X	X	X	-	X	X	X	-	-	-	-
46012		37.39N	22.73W	S	S	S	-	S	S	S	-	-	-	-
46013		38.23N	23.33W	X	X	X	-	X	X	X	-	-	-	-
46014		39.22N	23.97W	X	X	X	-	X	X	X	-	-	-	-
46022		40.74N	24.51W	S	S	S	-	S	S	S	-	-	-	-
46023		34.71N	20.97W	X	X	X	-	X	X	X	-	-	-	-
46025		33.75N	19.08W	X	X	X	-	X	X	X	-	-	-	-
46026*		37.75N	22.82W	S	S	S	-	S	S	S	-	-	-	-
46027		41.85N	24.39W	R	R	R	-	R	R	R	-	-	-	-
46028		35.74N	21.88W	R	R	R	-	R	R	R	-	-	-	-
46029*		46.18N	24.19W	S	S	S	-	S	S	S	-	-	-	-
46030		40.42N	24.53W	S	S	S	-	S	S	S	-	-	-	-
46035		56.91N	77.81W	X	X	X	-	X	X	X	-	-	-	-
46041		47.42N	24.52W	S	S	S	-	S	S	S	-	-	-	-
46042		36.75N	22.41W	R	R	R	-	R	R	R	-	-	-	-
46045		33.84N	18.45W	X	X	X	-	X	X	X	-	-	-	-
46050		44.62N	24.53W	S	S	S	-	S	S	S	-	-	-	-
46054		34.27N	20.45W	X	X	X	-	X	X	X	-	-	-	-
46059		37.98N	30.00W	X	S	S	-	X	X	X	-	-	-	-
46060		60.58N	46.83W	X	X	X	-	X	X	X	-	-	-	-
46061		60.22N	46.83W	X	X	X	-	X	X	X	-	-	-	-
46062		35.10N	21.01W	X	X	X	-	X	X	X	-	-	-	-
51001*		23.40N	62.27W	X	X	X	-	X	X	X	-	-	-	-
51002*		17.19N	57.83W	X	X	X	-	X	X	X	-	-	-	-
51003*		19.14N	60.81W	X	X	X	-	X	X	X	-	-	-	-
51004*		17.44N	52.51W	+	+	+	-	+	+	+	-	-	-	-
51028		.00N	53.88W	X	X	X	-	X	X	X	-	-	-	-

+ Buoy off station or adrift

* Base funded station of national Weather Service (NWS); however, all stations report data to NWS

Total Base Funded Buoys : 30

Total Other Buoys : 35

Total Moored Buoys : 65

REMARKS:

41001 - Wind data failed 2/9/97, wave data failed 03/11/97.

41002 - Buoy adrift 3/20/98, recovered to port 30/03/98, redeployment scheduled 5/98.

41004 - Water temp data failed 2/2/97.

42001 - Water temp data failed 6/4/98

42003 - Air temp data failed 6/9/97, service scheduled week of 11/5/98.

44004 - Parity errors in data.

44009 - Wind data failed 12/4/98.

44025 - Parity errors in data.

45003 - Buoy redeployed 17/4/98, water temp to be released 23/4/98.

45008 - Water temp to be released 23/4/98.

46003 - Station failed 7/3/98.

46005 - Air temp data failed 19/11/97.

46006 - Parity errors in data.

46012 - Water temp failed 23/10/96 station failed 12/7/97, service scheduled 10/8/98.
 46022 - Station failed 26/3/98, service scheduled week of 29/6/98.
 46026 - Water temp data failed 24/11/97, station failed 2/3/98.
 46027 - Buoy adrift and beached 4/10/97, recovered to port 9/10/97, service scheduled 6/98.
 46028 - Buoy adrift 17/7/97, recovered to port 22/7/97, redeployment scheduled week of 25/5/98.
 46029 - Station failed 25/1/98, replacement scheduled week of 4/5/98.
 46030 - Station failed 22/10/97, service scheduled week of 29/6/98.
 46041 - Air temp data failed 2/6/96, station failed 14/6/97, service scheduled week of 12/5/98.
 46042 - Buoy adrift 25/10/97, recovered to port 28/10/97, redeployment scheduled 3/8/98
 46050 - Station failed 15/1/98, service scheduled 27/4/98.
 46059 - Air temp and pressure data failed 10/12/97, service scheduled week of 10/8/98.
 51004 - Buoy confirmed adrift 15/1/98.

Drifting Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 23 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41611	23635	24°N	094°W	S	X	X	-	S	N	N	N	-	-	-

REMARKS:

41611 - Wind direction failed 11 May 1997, sea temp failed 24 March 1998

1.4.3 AUSTRALIA

Shipboard DCP

WMO Buoy Identifier	ARGOS Identifier	Position: 28 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
VJIK	11581			-	X	X	-	-	-	-	-	-	-	-
VMMR	11662			-	X	X	-	-	-	-	-	-	-	-
VNAA	7866			-	X	X	-	-	-	-	-	-	-	-
VROB	11580			-	X	X	-	-	-	-	-	-	-	-

Drifting Buoys Drogued

WMO Buoy Identifier	ARGOS Identifier	Position: 28 February 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
52624	2942	-14.494	138.778	X	X	X	X	X	-	-	-	-	-	-
53548	17179	-24.414	65.859	-	X	X	-	X	-	-	-	-	-	-
56529	4873	-32.174	80.731	-	-	X	-	X	-	-	-	-	-	-
56531	4872	-27.795	89.608	-	-	X	-	X	-	-	-	-	-	-
56532	2949	-35.807	125.773	-	X	X	X	X	-	-	-	-	-	-
56533	2948	-44	159.615	-	X	X	X	X	-	-	-	-	-	-
56535	2939	-56.628	147.021	-	X	X	X	X	-	-	-	-	-	-
56536	4876	-49.645	161.826	-	-	S	-	X	-	-	-	-	-	-
56537	2930	-16.665	115.228	X	X	X	X	S	-	-	-	-	-	-
56538	4878	-40.66	104.945	-	-	X	X	X	-	-	-	-	-	-
56539	8035	-46.424	120.277	-	X	X	X	X	-	-	-	-	-	-
56540	4877	-17.174	108.186	-	-	X	X	X	-	-	-	-	-	-
74539	8036	-60.605	61.419	-	X	X	X	X	-	-	-	-	-	-

1.4.4 FRANCE

Moored Buoys

WMO Buoy Identifier	ARGOS Identifier	Position: 20 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
13010*	-	00.0N	00.0W	S	X	-	-	X	-	-	-	X	-	-
15001*	-	10.0S	10.0W	X	X	-	-	X	-	-	-	X	-	-
41096	05833	16.5N	61.5W	-	-	-	-	X	X	.	-	-	-	-
41097	05832	14.9N	61.1W	-	-	-	-	X	X	.	-	-	-	-
41098	05834	14.6N	60.8W	-	-	-	-	X	X	.	-	-	-	-
62163**	-	47.5N	08.5W	X	X	X	X	X	X	-	-	-	X	-

* Pirata project

** Cooperation UK Met. Office/Météo-France

Drifting Buoys

Indian and Pacific Oceans

WMO Buoy Identifier	ARGOS Identifier	Position: 20 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
16537	5791	33.4S	106.1E	S	-	X	X	X	-	-	-	-	-	-
23581	14418	04.1S	61.9E	X	-	S	-	X	-	-	-	-	-	-
23585	5882	09.0S	68.7E	X	-	X	-	X	-	-	X	-	-	-
51684	5247	12.5S	147.8W	-	-	X	X	X	-	-	X	-	-	-

Tropical Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 20 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
13536	1610	16.9N	59.4W	-	-	-	-	X	-	-	X	-	-	-
13537	1611	02.5N	06.3E	-	-	-	-	X	-	-	X	-	-	-
13538	1612	02.4N	05.9W	-	-	-	-	X	-	-	X	-	-	-
13539	1613	14.9N	45.8W	-	-	-	-	X	-	-	X	-	-	-
13540	1614	09.9N	35.5W	-	-	-	-	X	-	-	X	-	-	-

North Atlantic Ocean

WMO Buoy Identifier	ARGOS Identifier	Position: 20 April 1998		Observed or Technical Parameters										
		Latitude	Longitude	1	2	3	4	5	6	7	8	9	10	11
41597	6573	33.3N	29.5W	-	-	X	X	X	-	-	X	-	-	-
44601	5878	52.2N	44.3W	X	-	X	-	X	-	-	X	-	-	-
44602	5883	53.7N	41.4W	X	-	X	-	X	-	-	X	-	-	-
44603	6571	50.4N	47.5W	-	-	X	X	X	-	-	X	-	-	-
44604	6572	48.1N	49.6W	-	-	X	X	X	-	-	X	-	-	-
44606	6148	54.9N	51.6W	-	-	X	X	X	-	-	X	-	-	-
44609	5879	59.3N	21.9W	X	-	X	-	X	-	-	X	-	-	-
62501	15534	45.5N	12.7W	S	-	X	-	X	-	-	-	-	-	-
62506	5826	49.5N	15.4W	S	X	X	X	X	-	-	-	-	-	-
62551	27939	47.8N	13.9W	X	-	X	-	X	-	-	X	-	-	-
62553	03009	53.7N	19.2W	X	X	X	X	X	-	-	-	-	-	-
62557	27930	47.3N	08.6W	-	-	X	X	X	-	-	X	-	-	-
62558	27931	55.7N	08.5W	-	-	X	X	X	-	-	X	-	-	-
62567	15527	43.8N	12.1W	X	-	-	-	X	-	-	-	X	-	-
62751	15503	47.9N	18.2W	X	-	X	-	X	-	-	-	X	-	-
62753	15508	44.2N	17.5W	X	-	-	-	X	-	-	-	X	-	-
62754	15509	49.7N	14.5W	X	-	-	-	X	-	-	-	X	-	-
62755	15510	43.3N	09.7W	X	-	X	-	X	-	-	-	X	-	-
62756	15513	44.4N	03.2W	X	-	-	-	X	-	-	-	X	-	-
62757	15514	44.9N	07.2W	S	-	-	-	X	-	-	-	X	-	-
62758	15516	44.6N	21.5W	X	-	X	-	X	-	-	-	X	-	-
62759	15529	42.3N	15.6W	X	-	-	-	X	-	-	-	X	-	-
62760	15521	47.1N	13.7W	X	-	-	-	X	-	-	-	-	-	-

1.4.5 ARGOS SERVICE ARGOS Monthly Status Report

Date of statistics computation:
2 March 1998

Date of statistics computation:
2 April 1998

• **REPORTS HANDLED BY ARGOS SERVICE**

(list of monthly collected ARGOS platforms sorted by type of platform)

Drifting Buoys	1095
Boats (<20 knots)	-
Marine Stations	162
Moored Buoys	288
Fixed Stations	600
Marine Animals	138
Terrestrial Animals	68
Birds	103
Balloons	5
Rafos Floats	-
TOTAL:	2459

Drifting Buoys	1111
Boats (<20 knots)	-
Marine Stations	146
Moored Buoys	272
Fixed Stations	557
Marine Animals	114
Terrestrial Animals	76
Birds	121
Balloons	3
Rafos Floats	-
TOTAL:	2400

• **REPORTS INSERTED INTO THE GTS**

(list of monthly collected ARGOS platforms on indicated GTS sites sorted by type of platform)

INSERTED BY RTH TOULOUSE:

Drifting Buoys	149
Fixed Stations	21
Moored Buoys	11
XBT Ships	16

INSERTED BY RTH TOULOUSE:

Drifting Buoys	145
Fixed Stations	23
Moored Buoys	10
XBT Ships	15

INSERTED BY RTH/WMC WASHINGTON:

Drifting Buoys	466
Fixed Stations	40
Moored Buoys	68
XBT Ships	-

INSERTED BY RTH/WMC WASHINGTON:

Drifting Buoys	503
Fixed Stations	39
Moored Buoys	67
XBT Ships	-

• **CODING STATISTICS OF PLATFORMS**

reporting through ARGOS and distributed over the GTS:

BATHY	289
BUOY	217799
SHIP:	-
SYNOP:	28164
TOTAL:	246252

BATHY	333
BUOY	254621
SHIP:	-
SYNOP:	34154
TOTAL:	289108

I.

1.5 Publication No. 9
Volume A - Observing Stations

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS								OBS.H		UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18			
<u>Region II - Kazakhstan</u>																						
<u>Amendments</u>																						
35700	ATYRAY	47 07N	51 55E	-28				X	X	X	X	X	X	X	X		RW	.	.	CLIMAT(CT)		
36859	ZHARKENT	44 10N	80 04E	645				X	X	X	X	X	X	X	X		.	.	.	CLIMAT(C)		
38001	FORT SHEVCHENKO	44 33N	50 15E	-25				X	X	X	X	X	X	X	X		.	.	.	CLIMAT(C)		
38062	KYZYLORDA	44 51N	65 30E	130				X	X	X	X	X	X	X	X		RW	.	.	CLIMAT(CT)		
38222	TOLE BI	43 42N	73 47E	456				X	X	X	X	X	X	X	X		.	.	.			
<u>Region V - Australia</u>																						
<u>Amendments</u>																						
94302	LEARMONTH AIRPORT	22 14S	114 05E	5	6			01	04	07	10	13	16	19	22		RW	.	RW	A;AUT;EVAP;METAR;S00-24;CLIMAT(CT)		
94711	COBAR MO	31 29S	145 50E	260	260			23	02	05	08	11	.	17	20	S00-24	RW	RW	RW	CLIMAT(CT);EVAP;METAR;S00-24; 1) SPECI;SOILTEMP;SUNDUR 1) R&W on request		
96996	COCOS ISLAND AIRPORT	12 11S	96 49E	3	3			X	X	X	X	X	.	.	.	H22-13	RW	.	RW	A;C;CLIMAT(CT);EVAP;METAR;SEA;S00-24;SPECI		
NOTE: All upper wind data for the above stations is by a GPS (Global Positioning Satellite) based system.																						
<u>Region V - Detached Islands</u>																						
<u>Amendments</u>																						
91753	HIHIFO (ILE WALLIS)1)	13 14S	176 10W	27	23			X	X	X	X	X+	X+	X	X	H00-24	.	.	.	A;AUT+;CLIMAT(C);OBS_P O/R;SOILTEMP;SUNDUR;SUPPLEMENTARY OBS. O/R		
91754	MAOPOPO (ILE FUTUNA) 1)	14 19S	178 07W	36	6			X	X	X	X+	X+	X+	X	X	H00-24	.	.	.	AUT+;SUNDUR;SUPPLEMENTARY OBS. O/R		
1) Station operated by New Caledonia 2) +AUT 6,7 & Public Holidays																						
<u>Region V - New Caledonia</u>																						
<u>Amendments</u>																						
91577	KOUMAC (NLLE-CALEDONIE)	20 34S	164 17E	18	23			X	X	X	X+	X+	X+	X	X	H00-24	.	P	.	P	AUT+;CLIMAT(C);SEISMO;SOILTEMP;SOLRA;SPECI; SUNDUR;SUPPLEMENTARY OBS. O/R	

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS								OBS.H		UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18			
91579	OULOUP (ILE OUVEA)	20 39S	166 35E	7	7			X+	X+	X+	X+	X+	X+	X+						A;AUT+		
91582	OUANAHAM (ILE LIFOU)	20 46S	167 14E	29	28			X	X+	X	X+	X+	X	X	H00-24				P	A;AUT+;SEISMO;SPECI;SUNDUR;SUPPLEMENTARY OBS. O/R		
91583	POINDIMIE (NLLE-CALEDONIE)	20 56S	165 19E	13	11			X	X+	X	X+	X+	X	X	H00-24					AUT+;SPECI;SUNDUR;SUPPLEMENTARY OBS. O/R		
91590	LA TONTOUTA (NLLE-CALEDONIE)	22 01S	166 13E	14	16			X	X	X	X	X	X	X	H00-24	4)				A;METAR;SPECI;SUNDUR;SUPPLEMENTARY OBS. O/R		
91592	NOUMEA (NLLE-CALEDONIE)	22 16S	166 27E	72	69			X	X	X	X	X	X	X	H00-24		RW		RW	AUT+;CLIMAT(CT);HU/FC;RSD;SOILTEMP;SOLRA;SPECI;SUNDUR;SUPPLEMENTARY OBS. O/R;WN		
91596	MOUE (ILE DES PINS)	22 36S	167 27E	97	96			X+	X+	X+	X+	X+	X+	X+						A;AUT+		

- 1) +AUT 6,7 & Public Holidays
2) +AUT 5,6,7 & Public Holidays
3) +AUT 2,4,6,7 & Public Holidays
4) Between 10-16 two H maximum A/R or O/R

Region V - New Zealand

Deleted 1.4.1998

93136 ARDMORE

Region VI - Austria

Amendments

11010	LINZ/HOERSCHING-FLUGHAFEN	48 14N	14 11E	313		298		X	X	X	X	X	X	X	S00-24		RW			A;CLIMAT(C);METAR;OBS. RW IRREG.
11120	INNSBRUCK-FLUGHAFEN	47 16N	11 21E	593		581		X	X	X	X	X	X	X	S00-24	RW				A;CLIMAT(C);METAR
11240	GRAZ-THALERHOF-FLUGHAFEN	47 00N	15 26E	347		340		X	X	X	X	X	X	X	S00-24		RW			A;CLIMAT(C);METAR

Region VI - Czech Republic

Amendments

11414	KARLOVY VARY	50 12N	12 55E	604	<u>606</u>	925 HPA		X	X	X	X	X	X	X	H00-24					A;LIT;METAR;SPECI;SUNDUR
11418	MARIANSKE LAZNE	49 55N	12 43E	541	540			X	X	X	X	X	X	X	H00-24					A;LIT;METAR;SOILTEMP;SPECI;SUNDUR
11518	PRAHA/RUZYNE	50 06N	14 15E	<u>365</u>	<u>380</u>			X	X	X	X	X	X	X	S00-24					A;CLIMAT(C);METAR;SPECI;SUNDUR
11541	CESKE BUDEJOVICE	<u>48 57N</u>	<u>14 26E</u>	436	432					X	X	X			H06-13					A;METAR;SPECI

INDEX NUMBER	NAME	POSITION		ELEVATION		PRESSURE		SURFACE OBSERVATIONS							OBS.H		UPPER-AIR				OTHER OBSERVATIONS AND REMARKS
		LAT.	LONG.	HP	H/HA	LEVEL	00	03	06	09	12	15	18	21	OBS.S	00	06	12	18		
11567	<u>PRAHA-KBELY</u>	50 07N	14 32E	<u>286</u>	286			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI;SUNDUR
11603	LIBEREC	50 46N	15 01E	399	<u>405</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;LIT;METAR;SPECI;SUNDUR
11652	PARDUBICE	50 01N	15 44E	230	<u>226</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI;SUNDUR
11692	NAMEST NAD OSLAV	49 10N	<u>16 07E</u>	<u>479</u>	472			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI;SUNDUR
11723	BRNO/TURANY	49 09N	16 42E	<u>246</u>	<u>237</u>			X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);LIT;METAR;SPECI;SUNDUR
11748	PREROV	<u>49 25N</u>	17 24E	<u>209</u>	206			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;METAR;SPECI;SUNDUR
11774	HOLESOV	49 19N	17 34E	224	<u>231</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	A;LIT;METAR;SPECI;SUNDUR
11782	OSTRAVA/MOSNOV	49 41N	18 07E	<u>260</u>	<u>257</u>			X	X	X	X	X	X	X	S00-24	.	.	.	.	A;CLIMAT(C);LIT;METAR;SPECI;SUNDUR
<u>Region VI - Kazakhstan</u>																					
<u>Amendments</u>																					
34398	<u>ZHALPAKTAL</u>	49 40N	49 29E	10				X	X	X	X	X	X	X		.	.	.	.	CLIMAT(C)
<u>Region VI - Netherlands</u>																					
<u>Amendments</u>																					
06239	<u>F-03 (PLATFORM)</u>	54 51N	04 44E	-	<u>49</u>			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
06251	TERSCHELLING HOORN	53 23N	<u>05 21E</u>	-	1			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
06319	WESTDORPE	<u>51 14N</u>	<u>03 52E</u>	1)	2			X	X	X	X	X	X	X	H00-24	.	.	.	.	AUT
1) Station without barometer																					
<u>New</u>																					
06311	HOOFDPLAAT	51 23N	03 40E					X	X	X	X	X	X	X	H00-24	.	.	.	.	ONLY WIND
06313	VLAJTE VAN RAAN	51 30N	03 15E					X	X	X	X	X	X	X	H00-24	.	.	.	.	ONLY WIND
06315	HANSWEERT	51 27N	04 00E					X	X	X	X	X	X	X	H00-24	.	.	.	.	ONLY WIND
06324	STAVENISSE	51 36N	04 00E					X	X	X	X	X	X	X	H00-24	.	.	.	.	ONLY WIND
<u>Region VI - Norway</u>																					
<u>Amendments</u>																					
01425	<u>EIK-HOVE</u>	<u>58 31N</u>	<u>06 31E</u>	<u>66</u>	<u>66</u>			X	X	X	X	X	X	X		.	.	.	.	AUT/MAN
<u>Region VI - Slovakia</u>																					
<u>Amendments</u>																					
11952	POPRAD/GANOVCE	49 03N	20 32E	706				.	.	.	.	.	.	.		RW	W	RW	.	CLIMAT(T);OZONE;WR

1.6 EXPLANATORY NOTES

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 for Volume A, the Catalogue of Meteorological Bulletins, and for stations included in the Regional Basic Synoptic Networks (RBSN).

For entries in these tables, the following should be taken into account:

- COLUMN A:** The station index number (IIiii) and station name;
- COLUMN B:** Latitude and Longitude in degrees and minutes with the appropriate letters (N, S, E and W);
- COLUMN C:** The TTAAii CCCC of the abbreviated headings of the meteorological bulletins which contain reports from the station should be inserted;
- COLUMN D:** “X” for implementation and “-” for non-implementation should be inserted as appropriate. In order to easily identify changes in the programme, these should be marked in red;
- COLUMN E:** HP = Elevation of the station in metres (the datum level to which barometric pressure reports at the station refer);
- H = Elevation of the ground, in metres, (average level of terrain in immediate vicinity of station), for stations not located on aerodromes;
- H A = Official altitude of the aerodrome given for stations located on aerodromes is indicated by the letter “A” in the column “Other observations and Remarks” of Volume A;

- COLUMN F:** For those stations not indicating pressure reduced to mean sea level (group 4PPPP) in their synoptic reports, the entry in this column shows which information is reported in lieu of group 4PPPP (see table 1):

STATION	Pressure at station level reported using group 3P _o P _o P _o P _o
1000 hPa	Geopotential of the given standard isobaric surface reported using group 4a ₃ hhh
850 hPa	
700 hPa	
500 hPa	

Table 1

- COLUMN G:** Reasons for 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, and also possible alternate observing stations, as appropriate.

These tables should be sent to the WMO Secretariat
BEFORE the 20th of the month
 for inclusion in the
 “OPERATIONAL NEWSLETTER”

Feed-Back from Members to the Secretariat on any Changes in the Observing Network

Country: _____

PLEASE TICK THE APPROPRIATE BOX

Global Exchange:

Date effective: _____

Regional Exchange:

(A)		(B)		(C)	(D)							(E)		(F)	(G)
Index No.	Station Name	Position		Bulletin Identification TTAAii CCCC	Implementation of Observing Programme							Elevation		Pressure Level	Remarks
		Latitude	Longitude		00	03	06	09	12	15	18	21	HP			H/HA
SYNOP															
TEMP															
PILOT															



III. GLOBAL TELECOMMUNICATION SYSTEM

1. “Additional” DATA AND PRODUCTS

Related to Resolution 40 (Congress-XII)

**World Meteorological Organization's
policy and practice for the
exchange of meteorological and related data and products,
including guidelines on relationships in commercial meteorological activities**

Reference to *Operational Newsletter*

Volume 1997 - No. 9/10 - September/October 1997

The following pages attached “Operational Newsletter Page 21-25” should be replaced or inserted as appropriate into the “Additional” Data and Products Catalogue. Please note that a new entry for Italy has been added and amendments to Austria.

The pages are numbered as follows:

Page 21

Numbering
system used in the
Newsletter

(Vol. 97 - No. 9/10, Page 45)

Numbering system
used in the *Cata-
logue*

For the complete updated list, you may wish to consult the WMO home page at the following location:

<http://www.wmo.ch/web/ddbs/opnews.html>

The printed form however will be published in the Newsletter at the end of the year. The last complete listing was issued in the *Operational Newsletter* Volume 1997 - No. 9/10 - September/October 1997.

Circular letters to all WMO Members will be dispatched in April and October of each year to inform on updates or other changes of “additional” data and products.

It would be helpful if you could provide us with your updates also via email. Our email address is as follows:

pwoi@www.wmo.ch



LIST OF MEMBERS/CENTRES THAT HAVE IDENTIFIED "ADDITIONAL" DATA AND PRODUCTS

Member	Centre	Page
REGION I	Spain (<i>Canary Islands</i>)	Instituto Nacional de Meteorologia, Spain (Canary Islands) 47
	Kenya	Kenya Meteorological Department 48
	Portugal (<i>Madeira</i>)	Instituto de Meteorologia, Portugal (Madeira) 49
	France (<i>Reunion, Comoros</i>)	Météo France (Reunion, Comoros) 50
REGION II	Kazakstan.....	KazHYDROMET 51
	Uzbekistan.....	Glavgidromet 52
REGION III	France (<i>French Guiana</i>)	Météo France (French Guiana) 53
	Venezuela.....	Servicio de Meteorologia Fav 54
REGION IV	France (<i>Guadeloupe, St. Barthelemy, St. Martin</i>)	Météo France (Guadeloupe, St. Barthelemy, St. Martin) 55
	France (<i>Martinique</i>)	Météo France (Martinique) 56
	France (<i>St. Pierre and Miquelon</i>)	Météo France (St. Pierre and Miquelon) 57
REGION V	France (<i>French Polynesia</i>)	Direction Interrégionale de Polynésie française (French Polynesia)..... 59
	France (<i>New Caledonia</i>)	Direction Interrégionale de Nouvelle-Calédonie (New Caledonia)..... 60
REGION VI	Austria.....	Central Institute for Meteorology and Geodynamics..... 61
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Ireland.....	The Irish Meteorological Service - MET EIREANN	75
Israel.....	Meteorological Service	76
Italy.....	.....	76a
Latvia.....	Latvian Hydrometeorological Agency	77
Netherlands	NMC de Bilt	78
Norway.....	Norwegian Meteorological Institute	79
Portugal, Azores.....	Instituto de Meteorologia	80-81
Slovenia.....	Slovenian Hydrometeorological Institute	82
Spain.....	Instituto Nacional de Meteorologia	83-84
Sweden.....	Swedish Meteorological and Hydrological Institute	85
Switzerland.....	Schweizerische Meteorologische Anstalt	86
United Kingdom of Great Britain and Northern Ireland.....	The Meteorological Office	87-92

Country: AUSTRIA
 National Centre: Central Institute for Meteorology and Geodynamics
 Compiling Centre: Vienna

Date of Notification: 27 March 1998
 Date of Implementation: 27 March 1998

ABBREVIATED HEADING							Code Form Used	Time Group (GG)	Content of Bulletin and Remarks
Data Type/ Form Designator	Geographical/Data	Time designator	Distribution Type/ Level Designator	Location Indicator					
T1	T2	A1	A2	(ii)	CCCC				
ADDITIONAL DATA									
Land surface data:									
S	I	O	S	21	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11010, 11036, 11120, 11150, 11240
S	M	O	S	22	LOWM	FM 12-X Ext.	SYNOP	00, 06, 12, 18	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245
S	I	O	S	22	LOWM	FM 12-X Ext.	SYNOP	03, 09, 15, 21	11022, 11028, 11101, 11126, 11130, 11146, 11157, 11172, 11204, 11231, 11245



Country: ITALY
National Centre:
Compiling Centre: Rome

Date of Notification: 26 March 1998
Date of Implementation: 26 March 1998

ABBREVIATED HEADING						Code Form Used	Time Group (GG)	Content of Bulletin and Remarks	
Data Type/ Form Designator	Geographical/Data	Time designator	Distribution Type/ Level Designator	Location Indicator					
T1	T2	A1	A2	(ii)	CCCC				
ADDITIONAL DATA									
S	M	I	Y	20		FM 12-X Ext.	SYNOP	00, 06, 12, 18	16066, 16084, 16090, 16120, 16170, 16206, 16289, 16362, 16405, 16460
S	I	I	Y	20		FM 12-X Ext.	SYNOP	03,09,15,21	16066, 16084, 16090, 16120, 16170, 16206, 16289, 16362, 16405, 16460
S	M	I	Y	21		FM 12-X Ext.	SYNOP	00, 06, 12, 18	16008, 16020, 16040, 16052, 16110, 16134, 16149, 16181, 16219, 16230, 16252, 16270, 16280, 16300, 16325, 16360, 16400, 16453, 16480, 16490, 16506, 16520, 16522, 16539, 16550, 16564
S	I	I	Y	21		FM 12-X Ext.	SYNOP	03,09,15,21	16008, 16020, 16040, 16052, 16110, 16134, 16149, 16181, 16219, 16230, 16252, 16270, 16280, 16300, 16325, 16360, 16400, 16453, 16480, 16490, 16506, 16520, 16522, 16539, 16550, 16564
S	M	I	Y	40		FM 12-X Ext.	SYNOP	00, 06, 12, 18	16021, 16022, 16033, 16061, 16072, 16076, 16088, 16094, 16095, 16098, 16108, 16114, 16116, 16122, 16124, 16140, 16146, 16179
S	I	I	Y	40		FM 12-X Ext.	SYNOP	03,09,15,21	16021, 16022, 16033, 16061, 16072, 16076, 16088, 16094, 16095, 16098, 16108, 16114, 16116, 16122, 16124, 16140, 16146, 16179
S	M	I	Y	43		FM 12-X Ext.	SYNOP	00, 06, 12, 18	16538, 16548, 16564
S	I	I	Y	43		FM 12-X Ext.	SYNOP	03,09,15,21	16538, 16548, 16564



III.

2. Publication No. 9
Volume C - Catalogue of Meteorological Bulletins

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC	(GG)	
RTH: PRETORIA			
Zone of Responsibility: SOUTH AFRICA (GOUGH & MARION ISLANDS), ANGOLA, BOTSWANA, LESOTHO, MALAWI, NAMIBIA, REUNION, SWAZILAND, ZIMBABWE			
Name of Country: SOUTH AFRICA (GOUGH & MARION ISLANDS)			
Compiling or Editing Centre: PRETORIA			
Date: 01/02/1998			
CSZA01	FAPR	FM 71-X	68174 68262 68368 68424 68438 68442 68461 68588 68816 68828 68842 68858 68906 68994
CUZA01	FAPR	FM 75-X	68174 68263 68424 68442 68461 68588 68816 68842 68906 68994
SIGE01	FAGE	FM 12-X EXT.	03,09,15,21 68906
SIMB01	FAME	FM 12-X EXT.	03,09,15,21 68994
SMAA01	FAPR	FM 12-X EXT.	00,06,12,18 89004
SMGE01	FAGE	FM 12-X EXT.	00,06,12,18 68906
SMMB01	FAME	FM 12-X EXT.	00,06,12,18 68994
SMVA01	FAPR	FM 13-X	00,06,12,18 SHIP
SMVA02	FAPR	FM 13-X	00,06,12,18 SHIP
SMVA03	FAPR	FM 13-X	00,06,12,18 SHIP
SMZA01	FAPR	FM 12-X EXT.	00,06,12,18 68174 68191 68242 68262 68263 68267 68289 68350 68368 68372 68403 68424 68438 68442 68461 68512 68538 68587 68588 68591 68618 68633 68668 68714 68727 68752 68816 68828 68842 68858
SMZA02	FAPR	FM 12-X EXT.	06,12,18 68162 68180 68183 68188 68268 68272 68296 68322 68338 68345 68362 68385 68400 68408 68416 68478 68488 68494 68496 68524 68530 68546 68558 68570 68580 68614 68624 68674 68712 68718 68722 68742 68814 68832 68916 68920 68928 68938
SNVA04	FAPR	FM 13-X	03,06,09,12,21 SHIP
SNVA05	FAPR	FM 13-X	00,06,12,15,21 SHIP
SNVA06	FAPR	FM 13-X	00,06,15,21 SHIP
UAAP01	FAPR		HOURLY AIREP
UEGE01	FAGE	FM 35-X EXT.	00,12 68906
UEMB01	FAME	FM 35-X EXT.	00,12 68994
UEVA01	FAPR	FM 36-X EXT.	00,12 TEMP SHIP
UEVA02	FAPR	FM 36-X EXT.	00,12 TEMP SHIP
UEZA01	FAPR	FM 35-X EXT.	00,12 68174 68263 68424 68442 68461 68512
UEZA02	FAPR	FM 35-X EXT.	00,12 68242 68538 68588 68816 68842
UGGE01	FAGE	FM 32-IX	00,12 68906

Abbreviated Heading		Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC		(GG)	
UGMB01	FAME	FM 32-IX	00,12	68994
UGZA01	FAPR	FM 32-IX	00,12	68174 68263 68424 68442 68461 68512
UGZA02	FAPR	FM 32-IX	00,12	68242 68538 68588 68816 68842
UHGE01	FAGE	FM 32-IX	00,12	68906
UHMB01	FAME	FM 32-IX	00,12	68994
UHZA01	FAPR	FM 32-IX	00,12	68174 68263 68424 68442 68461 68512
UHZA02	FAPR	FM 32-IX	00,12	68242 68538 68588 68816 68842
UKGE01	FAGE	FM 35-X EXT.	00,12	68906
UKMB01	FAME	FM 35-X EXT.	00,12	68994
UKVA01	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
UKVA02	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
UKZA01	FAPR	FM 35-X EXT.	00,12	68174 68263 68424 68442 68461 68512
UKZA02	FAPR	FM 35-X EXT.	00,12	68242 68538 68588 68816 68842
ULGE01	FAGE	FM 35-X EXT.	00,12	68906
ULMB01	FAME	FM 35-X EXT.	00,12	68994
ULVA01	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
ULVA02	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
ULZA01	FAPR	FM 35-X EXT.	00,12	68174 68263 68424 68442 68461 68512
ULZA02	FAPR	FM 35-X EXT.	00,12	68242 68538 68588 68816 68842
UPGE01	FAGE	FM 32-IX	00,12	68906
UPMB01	FAME	FM 32-IX	00,12	68994
UPVA01	FAPR	FM 33-IX	00,12	PILOT SHIP
UPZA01	FAPR	FM 32-IX	00,12	68174 68263 68424 68442 68461 68512
UPZA02	FAPR	FM 32-IX	00,12	68242 68538 68588 68816 68842
UQGE01	FAGE	FM 32-IX	00,12	68906
UQMB01	FAME	FM 32-IX	00,12	68994
UQZA01	FAPR	FM 32-IX	00,12	68174 68263 68424 68442 68461 68512
UQZA02	FAPR	FM 32-IX	00,12	68242 68538 68588 68816 68842
USGE01	FAGE	FM 35-X EXT.	00,12	68906
USMB01	FAME	FM 35-X EXT.	00,12	68994
USVA01	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
USVA02	FAPR	FM 36-X EXT.	00,12	TEMP SHIP
USZA01	FAPR	FM 35-X EXT.	00,12	68174 68263 68424 68442 68461 68512
USZA02	FAPR	FM 35-X EXT.	00,12	68242 68538 68588 68816 68842
UTZA01	FAPR	FM 41-IV	00,06,12,18	CODAR

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC	(GG)	
UTZA02	FAPR FM 41-IV	00,06,12,18	CODAR
CSAP20	FAPR FM 71-X		66215 66226 66285 66310 66410 66422 67215 67217 67237 67283 67323 67475 67633 67693 67775 67983 68024 68226 68312 68328 68351 68368 68438 68461 68476 68858 68906 68994
FTZA40	FAPR FM 51-X EXT.	03,09	FABL FACT FADN FAGG FAJS FAKM FAMM FAPE FAUP FAWK
SIZA40	FAPR FM 12-X EXT.	03,09,15,21	68174 68183 68191 68242 68262 68263 68267 68289 68345 68350 68368 68372 68385 68424 68438 68442 68461 68496 68512 68538 68587 68588 68618 68668 68714 68727 68752 68814 68816 68828 68842 68858 68916 68920 68928 68938
SMZA20	FAPR FM 12-X EXT.	00,06,12,18	68155 68159 68171 68176 68181 68182 68185 68194 68239 68243 68253 68255 68271 68273 68277 68287 68291 68297 68329 68331 68335 68341 68342 68343 68349 68353 68355 68370 68377 68380 68387 68411 68429 68449 68471 68474 68479 68481 68487 68491 68497
SMZA21	FAPR FM 12-X EXT.	00,06,12,18	68513 68514 68523 68527 68545 68572 68575 68581 68583 68589 68613 68615 68647 68651 68715 68717 68723 68737 68744 68747 68754 68815 68817 68821 68826 68835 68847 68849 68912 68918 68921 68925 68926 68935

Name of Country: NAMIBIA

Compiling or Editing Centre: WINDHOEK

CSNM01	FYWW FM 71-X		68014 68018 68098 68104 68110 68112 68300 68312
CUNM01	FYWW FM 75-X		68110
SMNM01	FYWW FM 12-X EXT.	00	68104 68110 68300
SMNM02	FYWW FM 12-X EXT.	06,12,18	68010 68014 68016 68018 68098 68102 68104 68106 68110 68112 68114 68116 68212 68300 68312
UENM01	FYWW FM 35-X EXT.	00,12	68110
UGNM01	FYWW FM 32-IX	00,12	68110
UHNM01	FYWW FM 32-IX	00,12	68110
UKNM01	FYWW FM 35-X EXT.	00,12	68110
ULNM01	FYWW FM 35-X EXT.	00,12	68110
UPNM01	FYWW FM 32-IX	00,12	68110
UQNM01	FYWW FM 32-IX	00,12	68110
USNM01	FYWW FM 35-X EXT.	00,12	68110
FTNM40	FYWW FM 51-X EXT.	03,09	FYKT FYWB FYWH
SINM40	FYWW FM 12-X EXT.	03,09,15,21	68014 68018 68098 68104 68110 68112 68300 68312

RTH: WELLINGTON

Name of Country: NEW ZEALAND

Compiling or Editing Centre: WELLINGTON

Date: 24/03/1998

SMPS01	NZKL FM 12-X EXT.	00,06,12,18	91824
SIPS20	NZKL FM 12-X EXT.	03,09,15,21	91824

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC	(GG)	

RTH: OFFENBACH

Name of Country: GERMANY

Compiling or Editing Centre: EUMETSAT (DARMSTADT)

Date: 01/04/1998

Changes in the distribution of METEOSAT data in SATOB and BUFR code for global exchange:

Notification from EUMETSAT Darmstadt that METEOSAT 5 will be moved to a new position at 63°E until end of May 1998 for the Indian Ocean Experiment (INDOEX).

Therefore, from April 1998 METEOSAT data are available in the code forms FM 88-X SATOB and FM 94-X Ext. BUFR from METEOSAT 6/7 at 0° and METEOSAT 5 at 63°E

SATOB headers from the satellite at 0° (unchanged)

TWAA01	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (N.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWAA02	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (N.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWAA03	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (N.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWAA04	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (N.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWDA01	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS(N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWDA02	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS(N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWDA03	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS(N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWDA04	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS(N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWIA01	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWIA02	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWIA03	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWIA04	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 00-90W) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWLA01	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWLA02	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWLA03	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TWLA04	EUMS	FM 88-X	00,06,12,18	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TTAA01	EUMS	FM 88-X	00,06,12,18	SEA SURF. TEMP. (N.H. 00-90W) SECTION 444;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TTDA01	EUMS	FM 88-X	00,06,12,18	SEA SURF. TEMP. (N.H. 90E-00) SECTION 444;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TTIA01	EUMS	FM 88-X	00,06,12,18	SEA SURF. TEMP. (S.H. 00-90W) SECTION 444;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TTLA01	EUMS	FM 88-X	00,06,12,18	SEA SURF. TEMP. (S.H. 90E-00) SECTION 444;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TSAA01	EUMS	FM 88-X	00,06,12,18	UPPER TROPOPAUSE HUMIDITY (N.H. 00-90W) SECTION 777;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TSDA01	EUMS	FM 88-X	00,06,12,18	UPPER TROPOPAUSE HUMIDITY (N.H. 90E-00) SECTION 777;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TSIA01	EUMS	FM 88-X	00,06,12,18	UPPER TROPOPAUSE HUMIDITY (S.H. 00-90W) SECTION 777;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TSLA01	EUMS	FM 88-X	00,06,12,18	UPPER TROPOPAUSE HUMIDITY (S.H. 90E-00) SECTION 777;NOTE: FROM METEOSAT 6/7 (00 DEGREES)

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks	
TTAA(ii)	CCCC	(GG)		
TNAA01	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA02	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA03	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA04	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA05	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA06	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA07	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA08	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNAA09	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA01	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA02	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA03	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA04	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA05	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA06	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA07	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA08	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNDA09	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA01	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA02	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA03	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA04	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA05	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA06	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA07	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA08	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNIA09	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS (S.H. 00-90W) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA01	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA02	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA03	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA04	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)

Abbreviated Heading		Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC		(GG)	
TNLA05	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA06	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA07	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA08	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
TNLA09	EUMS	FM 88-X	00,06,12,18	CLOUD ANALYSIS NUAGES (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 6/7 (00 DEGREES)
New SATOB headers from the Satellite at 63° E:				
TWCA11	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWCA12	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWCA13	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWCA14	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWDA11	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWDA12	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWDA13	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWDA14	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (N.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWKA11	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWKA12	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWKA13	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWKA14	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 180-90E) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWLA11	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWLA12	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWLA13	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TWLA14	EUMS	FM 88-X	AS REQUIRED	CLOUD MOTION WINDS (S.H. 90E-00) SECTION 222;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC	(GG)	
TTCA11	EUMS	FM 88-X	AS REQUIRED SEA SURF. TEMP. (N.H. 180-90E) SECTION 444;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TTDA11	EUMS	FM 88-X	AS REQUIRED SEA SURF. TEMP. (N.H. 90E-00) SECTION 444;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TTKA11	EUMS	FM 88-X	AS REQUIRED SEA SURF. TEMP. (S.H. 180-90E) SECTION 444;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TTLA11	EUMS	FM 88-X	AS REQUIRED SEA SURF. TEMP. (S.H. 90E-00) SECTION 444;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TSCA11	EUMS	FM 88-X	AS REQUIRED UPPER TROPOPAUSE HUMIDITY (N.H. 180-90E) SECTION 777;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TSDA11	EUMS	FM 88-X	AS REQUIRED UPPER TROPOPAUSE HUMIDITY (N.H. 90E-00) SECTION 777;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TSKA11	EUMS	FM 88-X	AS REQUIRED UPPER TROPOPAUSE HUMIDITY (S.H. 180-90E) SECTION 777;NOTE: FROM METEOSAT 5 (63 DEGREES EAS) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TSLA11	EUMS	FM 88-X	AS REQUIRED UPPER TROPOPAUSE HUMIDITY (S.H. 90E-00) SECTION 777;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA11	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA12	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA13	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA14	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA15	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA16	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA17	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA18	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNCA19	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA11	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA12	EUMS	FM 88-X	AS REQUIRED CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

Abbreviated Heading		Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC		(GG)	
TNDA13	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA14	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA15	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA16	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA17	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA18	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNDA19	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (N.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA11	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA12	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA13	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA14	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA15	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA16	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA17	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA18	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNKA19	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 180-90E) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA11	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA12	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA13	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA14	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks	
TTAA(ii)	CCCC	(GG)		
TNLA15	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA16	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA17	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA18	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
TNLA19	EUMS	FM 88-X	AS REQUIRED	CLOUD ANALYSIS (S.H. 90E-00) SECTION 555;NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

The new METEOSAT data in SATOB code will be available at RTH Offenbach effective 1 April 1998 for global exchange on request.

BUFR headers from the satellites at 0°

IURN01	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IURN02	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IURN03	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IURS01	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IURS02	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IURS03	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN01	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN02	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN03	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS01	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS02	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS03	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN05	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN06	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN07	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN08	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS05	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS06	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS07	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS08	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)

Abbreviated Heading		Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC		(GG)	
IUCN10	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN11	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS10	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS11	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN12	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN13	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN14	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN15	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN16	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN17	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN18	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCN19	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS12	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS13	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS14	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS15	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS16	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS17	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS18	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
IUCS19	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 6/7 (00 DEGREES)
BUFR headers from the satellites at 63°E				
IXRN01	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXRN02	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXRN03	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXRS01	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR : INDIAN OCEAN EXPERIMENT (INDOEX)
IXRS02	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR : INDIAN OCEAN EXPERIMENT (INDOEX)
IXRS03	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY RADIANCES (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR : INDIAN OCEAN EXPERIMENT (INDOEX)

Abbreviated Heading		Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC		(GG)	
IXCN01	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN02	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN03	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS01	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS02	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS03	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION,VISIBLE WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN05	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN06	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN07	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN08	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS05	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS06	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS07	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS08	EUMS	FM 94-X EXT.	AS REQUIRED	EXP. LOW RESOLUTION,WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN10	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN11	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS10	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS11	EUMS	FM 94-X EXT.	AS REQUIRED	CLEAR SKY WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks	
TTAA(ii)	CCCC	(GG)		
IXCN12	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN13	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN14	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN15	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN16	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN17	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN18	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCN19	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (NORTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS12	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS13	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS14	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS15	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS16	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS17	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS18	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)
IXCS19	EUMS	FM 94-X EXT.	AS REQUIRED	HIGH RESOLUTION WV WINDS (SOUTHERN HEMISPHERE);NOTE: FROM METEOSAT 5 (63 DEGREES EAST) FROM END OF MAY 1998 FOR: INDIAN OCEAN EXPERIMENT (INDOEX)

The new METEOSAT data in BUFR code will be available at RTH Offenbach effective 1 April 1998 for global exchange on request.

At the same time the following headers presently used for the distribution of BUFR data from the satellite at 0° will be deleted:

IUXN01-03 EUMS (replaced by IUCN01-03 EUMS)

IUXS01-03 EUMS (replaced by IUCS01-03 EUMS)

IUXN11-12 EUMS (replaced by IURN01-03 EUMS)

IUXS11-12 EUMS (replaced by IURS01-03 EUMS)

Abbreviated Heading	Code Form Used	Time Group	Content of Bulletin and Remarks
TTAA(ii)	CCCC	(GG)	

RTH: ROME

Name of Country: ITALY

Compiling or Editing Centre: ROME

Date: 29/03/1998

CUIY01	LIIB	FM 12-X EXT.		16044 16080 16245 16320 16429 16560
CSIY01	LIIB	FM 12-X EXT.		16045 16064 16090 16099 16110 16149 16158 16232 16320 16325 16410 16420 16429 16459 16522 16560
SMIY01	LIIB	FM 12-X EXT.	00,06,12,18	16045 16059 16080 16105 16153 16158 16191 16242 16261 16310 16320 16350 16410 16415 16420 16429 16470 16560
UEIY01	LIIB	FM 35-X EXT.	00,12	16044 16080 16245 16320 16429 16560
UEIY02	LIIB	FM 35-X EXT.	06,18	16044 16080 16245 16320 16429 16560
UKIY01	LIIB	FM 35-X EXT.	00,12	16044 16080 16245 16320 16429 16560
UKIY02	LIIB	FM 35-X EXT.	06,18	16044 16080 16245 16320 16429 16560
ULIY01	LIIB	FM 35-X EXT.	00,12	16044 16080 16245 16320 16429 16560
ULIY02	LIIB	FM 35-X EXT.	06,18	16044 16080 16245 16320 16429 16560
USIY01	LIIB	FM 35-X EXT.	00,12	16044 16080 16245 16320 16429 16560
USIY02	LIIB	FM 35-X EXT.	06,18	16044 16080 16245 16320 16429 16560

RTH: VIENNA

Name of Country: AUSTRIA

Compiling or Editing Centre: VIENNA

Date: 05/05/1998

UEOS02	LOWM	FM 35-X EXT.	00	11120
UEOS03	LOWM	FM 35-X EXT.	06	11010
UEOS04	LOWM	FM 35-X EXT.	06	11240
UKOS02	LOWM	FM 35-X EXT.	00	11120
UKOS03	LOWM	FM 35-X EXT.	06	11010
UKOS04	LOWM	FM 35-X EXT.	06	11240
ULOS02	LOWM	FM 35-X EXT.	00	11120
ULOS03	LOWM	FM 35-X EXT.	06	11010
ULOS04	LOWM	FM 35-X EXT.	06	11240
USOS02	LOWM	FM 35-X EXT.	00	11120
USOS03	LOWM	FM 35-X EXT.	06	11010
USOS04	LOWM	FM 35-X EXT.	06	11240



IV. DATA MANAGEMENT AND CODES

1. WMO Publication No. 306 “Manual on Codes”

Volume I.2 - International Codes Part B - Binary Codes

Additions:

The president of CBS and the President of WMO have approved the following text additions to the description of the WMO FM 92 GRIB and FM 94 BUFR binary codes to clarify the year 2000 representation in these codes.

In FM 92 GRIB, under Section 1 - Product definition section:

Add Note (6):

To specify year 2000, octet 13 of the section (Year of the century) shall contain a value equal to 100 and octet 25 of the section (Century of reference time data) shall contain a value equal to 20. To specify year 2001, octet 13 of the section shall contain a value equal to 1 and octet 25 of the section shall contain a value equal to 21 (by International Convention, the date of 1 January 2000 is the first day of the hundredth year of the Twentieth Century and the date of 1 January 2001 is the first day of the first year of the Twenty First Century); it is to be noted also that year 2000 is a leap year and that 29 February 2000 exists.

In FM 94 BUFR, under Section 1 - Identification section:

Add Note (3):

To specify year 2000, octet 13 of the section (Year of the century) shall contain a value equal to 100. To specify year 2001, octet 13 of the section shall contain a value equal to 1 (by International Convention, the date of 1 January 2000 is the first day of the hundredth year of the Twentieth Century and the date of 1 January 2001 is the first day of the first year of the Twenty First Century); it is to be noted also that year 2000 is a leap year and that 29 February 2000 exists.

Volume II - Regional Codes and National Coding Practices

Region VI - Denmark:

Part F - National Code Forms

Page II-6-F-2f/3 - Delete all information

Denmark “Special weather report (sudden changes) for national purposes”:

(The code is strictly national and will no longer be transmitted outside Denmark)

Appendix - Ice and Satellite Ephemeris Codes

Page II-App.-6/9 - Delete all information

“Special Danish Ice Code for Ice Reports from Greenland Shore Stations”:

Page II-App.-10/11 - Delete all information

“Special Danish Ice Code for Ice Reports from Ships in Greenland Coastal Waters”:

(The codes are no longer valid).

