ECMWF
Global Data Monitoring Report

October 2026

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Europäisches Zentrum für mittelfristige Wettervorhersage
Centre européen pour les prévisions météorologiques à moyen terme

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Summary of Revisions (in reverse order)

Revision 31 (Dec 25) – Due to decommissioning of NOAA-15 and NOAA-18 AMSU-A in 2025,
Figure 9.3 becomes Figure 8 (METOP-B ATOVS : AMSU-A)
Figure 9.2 becomes Figure 9 (METOP-C ATOVS : AMSU-A)
Removed Figure 9.1

Revision 30 (Nov 23) – Coverage charts for AIREP/AMDARs updated:
Added MODE-S and ADS-C to Figure 5 and Figure 18

Revision 29 (Dec 22) – Coverage charts for ATOVS AMSU-A updated:
METOP-C replaces Aqua-ATOVS (Figure 9.2)
METOP-B replaces METOP-ATOVS (Figure 9.3)
SATOB figures updated with METEOSAT-9, Dual-Metop,
METEOSAT-11, GOES-16, HIMAWARI-9, GOES-17 satellites

Revision 28 (Jun 15) – Monitoring of SYNOP and SYNOP-SHIPs now includes BUFR encoded
observations for those which were assimilated as well as
for those without TAC counterpart.

Revision 27 (Feb 15) – Selection criteria for SHIPs are modified as per
SOT-7/Doc.9.1.1.
Different criteria applied to Manual and Automatic SHIPs.

Revision 26 (Dec 14) – Coverage chart for ATOVS AMSU-A for Noaa_16 removed

Revision 25 (Mar 13) – Monitoring of Radiosondes and ASAPs now includes BUFR encoded
observations for those which were assimilated as well as
for those without TAC counterpart.
Tables 24 and 25 are also added to show the identifiers of
these BUFR observations separately.

Revision 24 (Aug 06) – North Atlantic Monitoring statistics replaced by
EUCOS Area Monitoring Statistics (tables 13 to 23).
Airep tables removed from this section.

Revision 23 (Dec 00) – Coverage charts for Noaa_14 MSU replaced by
ATOVS AMSU-A for Noaa_16.

Revision 22 (Aug 99) – Coverage charts for TOVS thickness 300-100
hPa replaced by (A)TOVS AMSU-A and MSU
(Noaa_15 and Noaa_14).

Revision 21 (May 99) – Monitoring statistics ceased for Noaa_11 as
satellite is no more available.

Revision 20 (Sep 98) – Changes to tables and annex to remove all
mention about data usage. Two more levels
(50 and 850 hPa) added to the COSNA statistics
for Sondes.

Revision 19 (Jul 98) – From June 29th, 1998 ECMWF model assimilates
temperature data instead of geopotential from

radiosondes. As a consequence the number of used geopotential data drops to zero in tables 7, 10, 13 and 15.

Revision 18 (Apr 98) - Changes to tables and annex to introduce the usage of accepted numbers and observations instead of precentage of rejection.

1 Introduction

The ECMWF global data monitoring report is a monthly publication intended to give an overview of the availability and quality of observations from the Global Observing System within the World Weather Watch of the World Meteorological Organisation. It should be recognised that the statistics given in this report refer to data as received at ECMWF in time for the appropriate analysis. The annex of the report gives further explanations of the methods applied to compile the statistics and on the reference used to establish the quality of observations.

The information presented on data quality is based on differences between observations and the values of the most recent ECMWF forecast ("first guess") of the same parameter. Depending on the time of the observation, the forecast range is between 9 and 15 hours. It should be recognised that although the quality of the first-guess is of a generally high standard this is only true to a limited extent in certain areas, such as the tropics and data-sparse areas of both northern and southern hemispheres. The data quality results should therefore be used with care when assessing the absolute quality of a particular observing platform. Other indicators such as long-term trends of station performance, particularly in comparison with nearby stations, can be more useful in this respect.

The global monitoring results presented in this report are meant to serve a wider meteorological community as well as to support special WMO programmes such as TOGA and EUCOS. The contents of the report may therefore be adapted for special requirements as necessary.

As recommended at the ninth session of the Commission for Basic Systems at Geneva 1988, lead centres have been appointed for each main type of observation which should liaise with the participating centres and co-ordinate all the results, inform the WMO Secretariat immediately of obvious problems, and produce every six months a consolidated list of observations of that particular type believed to be of low quality. The presently nominated centres are: RSMC Exeter for marine surface observations; RSMC ECMWF for radiosonde and pilot observations; WMC Washington for aircraft and satellite observations.

ECMWF produces this monthly report as part of its routine monitoring activity in order to facilitate the exchange of monitoring information. Tables are presented according to the CBS recommended standards for the exchange of monitoring results. Copies of the report will be provided to major GDPS centres participating in data monitoring activities as initiated and recommended at the ninth session of the Commission for Basic Systems in Geneva 1988, and to the WMO Secretariat and the International TOGA office in Geneva.

Any comments on the contents and the format of the report are welcome and should be addressed to:

ECMWF
Attn. Head of Evaluation Section
Shinfield Park
Reading, Berkshire, RG2 9AX
United Kingdom

2 Data summary - History of events

2.1 Radiosondes

The following is a list of land-based stations showing a change in reporting frequency (of 500 hPa geopotential) of at least 10 observations compared with the average over the previous 3 months. The number of reports received at ECMWF for the current and previous month is shown in addition to the observation time.

Ident	Time	Sep	Oct	Ident	Time	Sep	Oct
16113	(12)	30	1	16113	(00)	0	25
25123	(00)	27	1	16144	(12)	4	22
25123	(12)	29	2	17607	(00)	8	23
28951	(00)	30	8	40856	(00)	18	30
28951	(12)	30	7	42348	(12)	11	30
29231	(00)	15	2	42724	(12)	2	31
40437	(00)	20	4	43311	(00)	0	24
43063	(00)	23	0	43311	(12)	0	24
47058	(00)	13	0	44277	(00)	0	12
47058	(12)	16	0	61415	(12)	0	26
47778	(00)	33	18	62403	(12)	3	15
48500	(00)	27	15	65344	(12)	13	29
48565	(00)	21	2	65503	(00)	0	19
48568	(00)	28	15	65503	(12)	0	25
60191	(00)	15	0	68512	(00)	0	14
61024	(12)	30	3	68512	(12)	0	15
64384	(00)	19	0	72251	(12)	0	27
64384	(12)	17	0	72388	(00)	0	28
70398	(12)	30	18	72645	(00)	1	25
74626	(12)	19	0	72645	(12)	0	25
74794	(12)	56	32	76256	(12)	13	25
83899	(00)	30	4	80028	(12)	0	25
83899	(12)	30	4	80259	(12)	0	13
-	-	-	-	83952	(00)	0	31
-	-	-	-	83952	(12)	0	29
-	-	-	-	85586	(00)	5	21
-	-	-	-	85586	(12)	5	21
-	-	-	-	89009	(12)	2	31
-	-	-	-	91366	(00)	0	18
-	-	-	-	91557	(00)	0	16

2.2 Drifting Buoys

Surface pressure observations from **1181** drifting buoys were received during the month.

3 Global monitoring statistics

The following figures and tables provide information on both the availability and quality of various data types as received at ECMWF during the month. A brief description of each figure/table is given below. For a full explanation please refer to the Annex.

3.1 Data Availability

Figures 1-9 are global charts for each data type showing the average number of observations received in 24 hours in 5 degree boxes. The average daily number of observations (global) is also displayed with a breakdown, where appropriate, for each WMO region (figures 1, 3 and 4) and Ocean (figures 1-4).

Fig	Observation Type	Parameter	Level/Layer
1	SYNOP/SHIP	MSL Pressure	Surface
2	DRIFTER	MSL Pressure	Surface
3	TEMP	Geopotential	500 hPa
4	TEMP/PILOT	Wind	300 hPa
5	AIRCRAFT (AIREP/AMDAR etc.)	Wind	300-150 hPa
6	SATOB	Wind	400-150 hPa
7	SATOB	Wind	1000-700 hPa
9	TOVS (120 km) - NOAA14	Thickness	300-100 hPa

(Figure 1 includes data from fixed marine platforms e.g. moored buoys.)

3.2 Data Quality

Tables 1-8 contain lists of suspect stations in the format according to Recommendation 3 CBS-Ext(85).

Tab	Observation Type	Parameter	Level/Layer
1	SHIP	MSL Pressure	Surface
2	SHIP	Wind Speed	Surface
3	SHIP	Wind Direction	Surface
4	DRIFTER	MSL Pressure	Surface
5	DRIFTER	Wind Speed	Surface
6	DRIFTER	Wind Direction	Surface
7	TEMP	Geopotential	1000- 30 hPa
8	TEMP/PILOT	Wind	1000-100 hPa
9	TEMP/PILOT	Wind Direction	500-150 hPa

(SHIP tables include data from fixed marine platforms e.g. moored buoys.)

Figures 10-13 show the locations of suspect stations given in tables 7 and 8.

Fig	Observation Type	Parameter	Observation Time
10	TEMP	Geopotential	00 UTC
11	TEMP	Geopotential	12 UTC
12	TEMP/PILOT	Wind	00 UTC
13	TEMP/PILOT	Wind	12 UTC

Tables 10 and 11 provide quality statistics for all TEMPSHIPS and PILOTSHIPS received during the month.

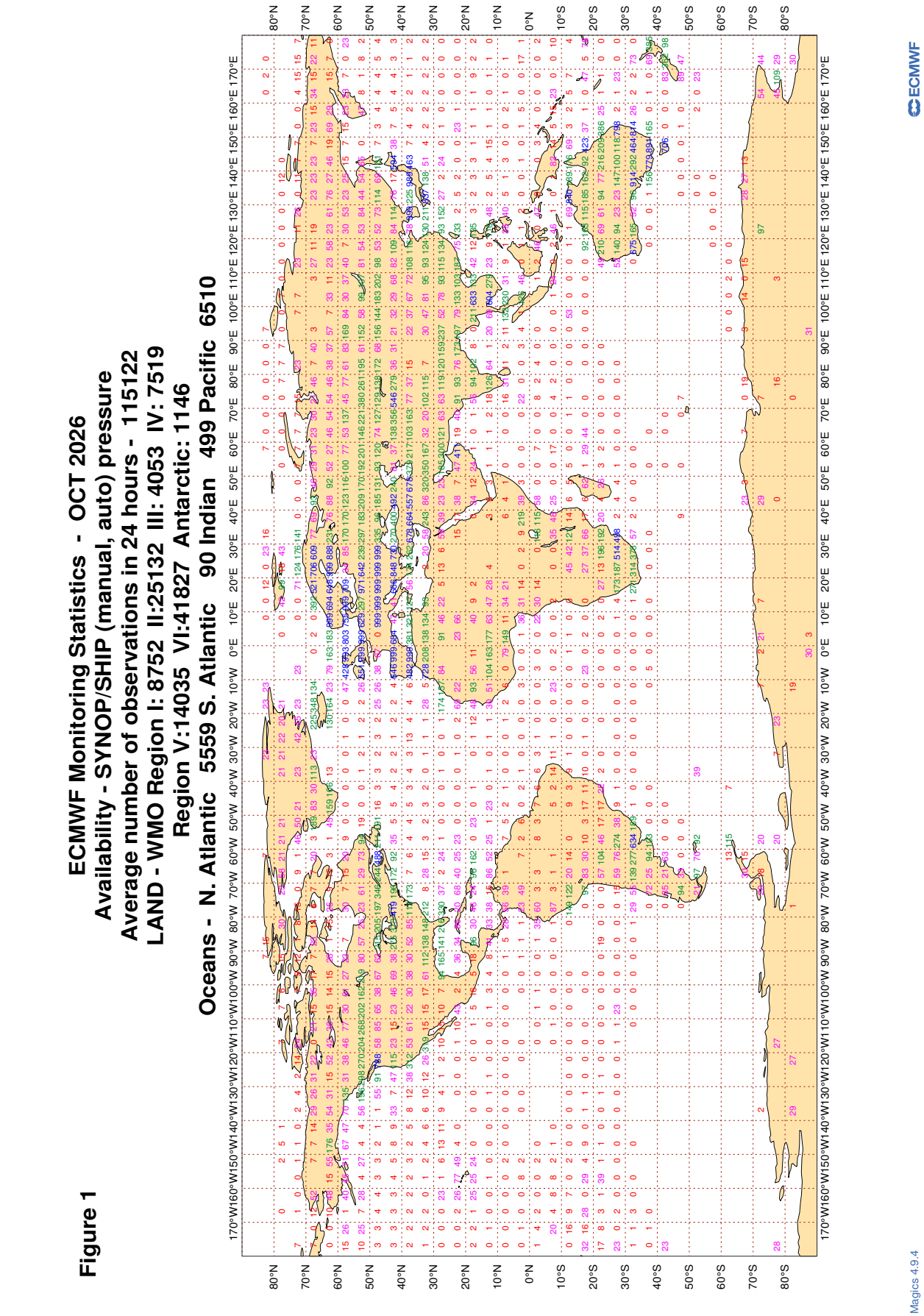
Tab	Parameter	Observation Time
10	Geopotential	00 and 12 UTC
11	Wind	00 and 12 UTC

Figures 14–18 show global charts of SATOB and aircraft wind statistics in the form of wind vectors averaged over 5 degree boxes.

Fig	Parameter	Level/Layer
14	SATOB - Mean observed wind	1000-700 hPa
15	SATOB - Mean observed wind	400-150 hPa
16	SATOB - Mean observed minus first-guess wind	1000-700 hPa
17	SATOB - Mean observed minus first-guess wind	400-150 hPa
18	AIRCRAFT WIND - Mean observed minus first-guess	300-150 hPa

Table 12 provides quality statistics of aircraft wind observations stratified by airline carrier.

3.2.1 Figure 1 - Availability - SYNOP PRESSURE



3.2.2 Figure 2 - Availability - DRIFTER PRESSURE

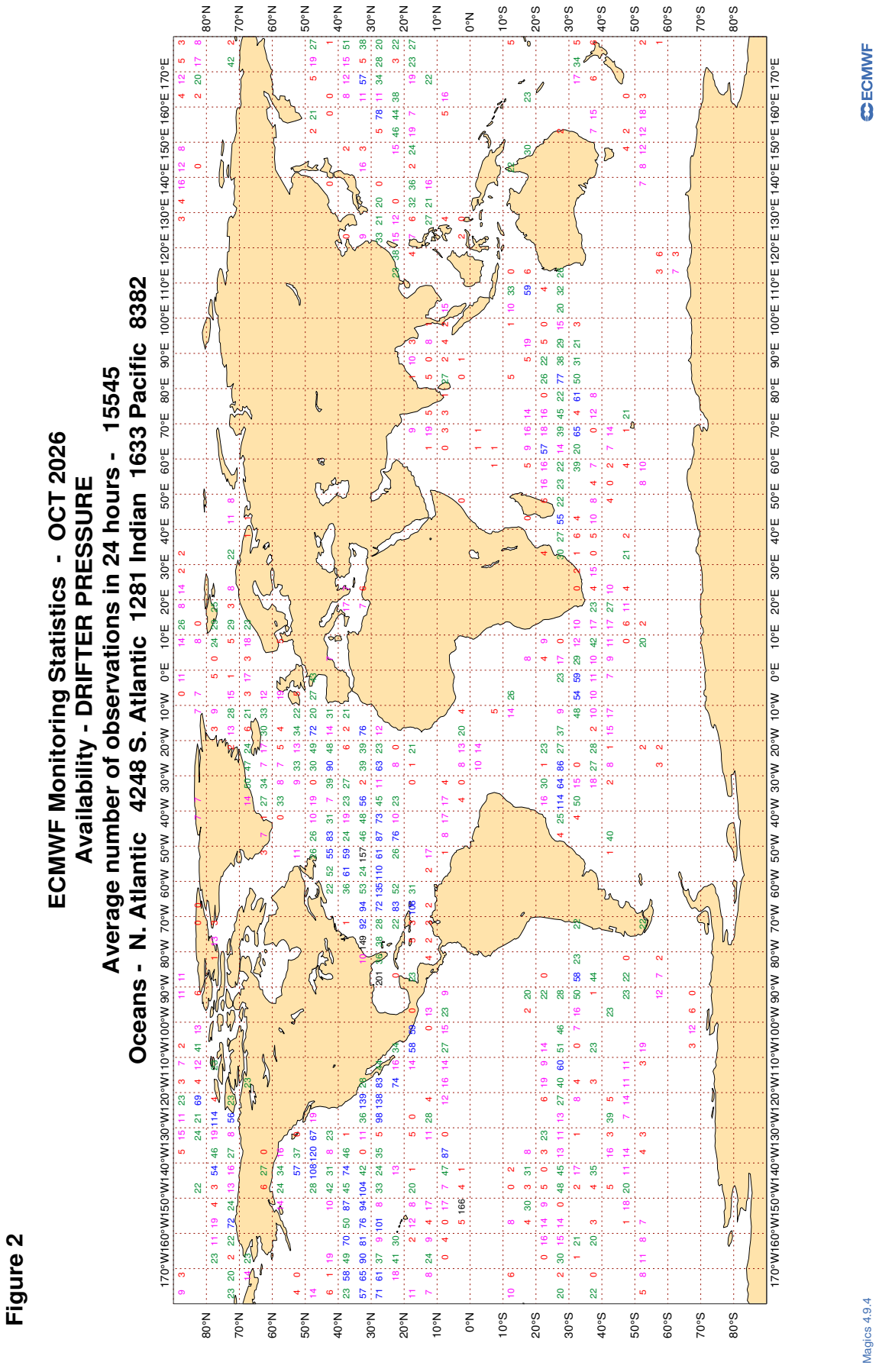
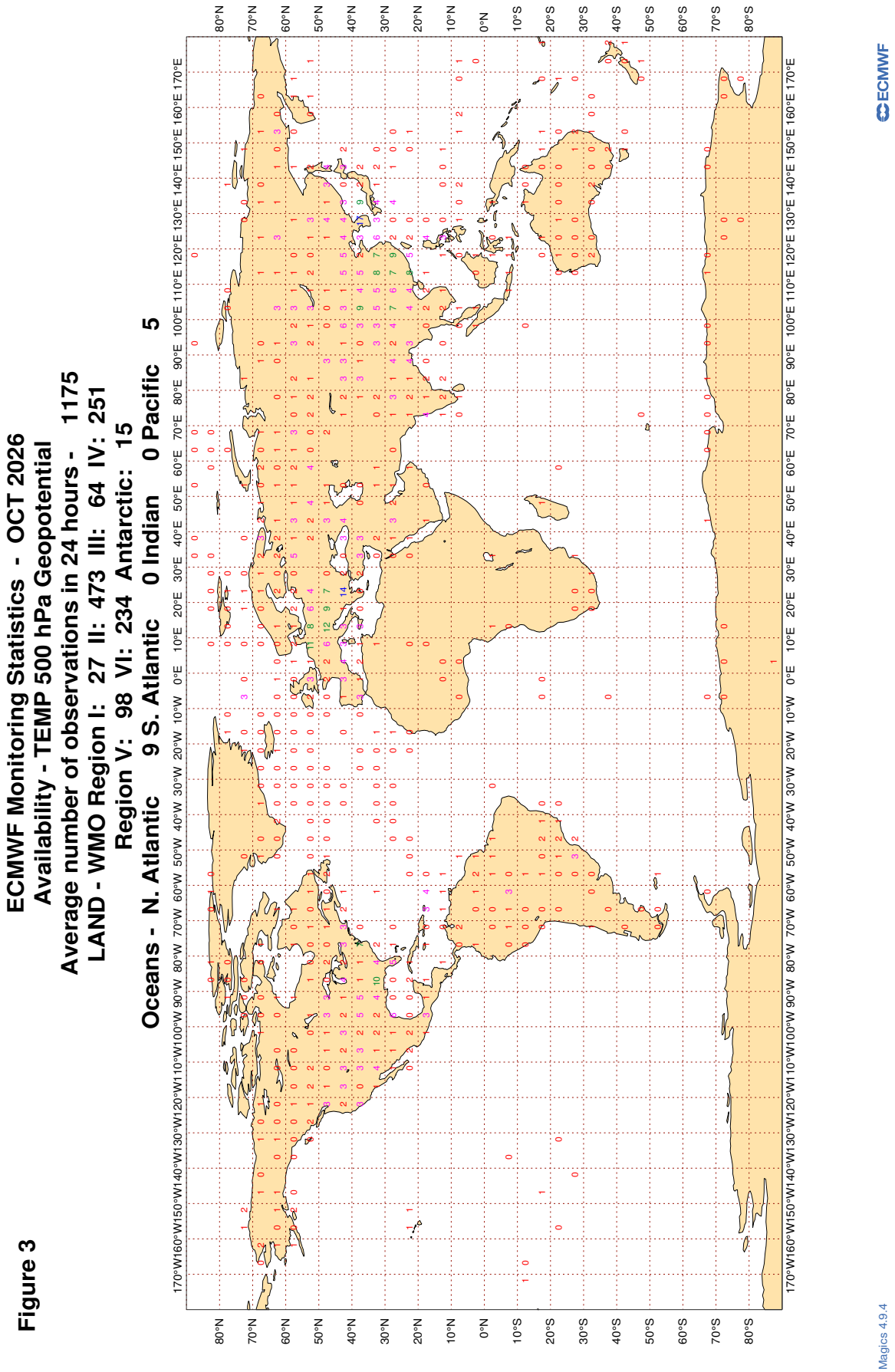
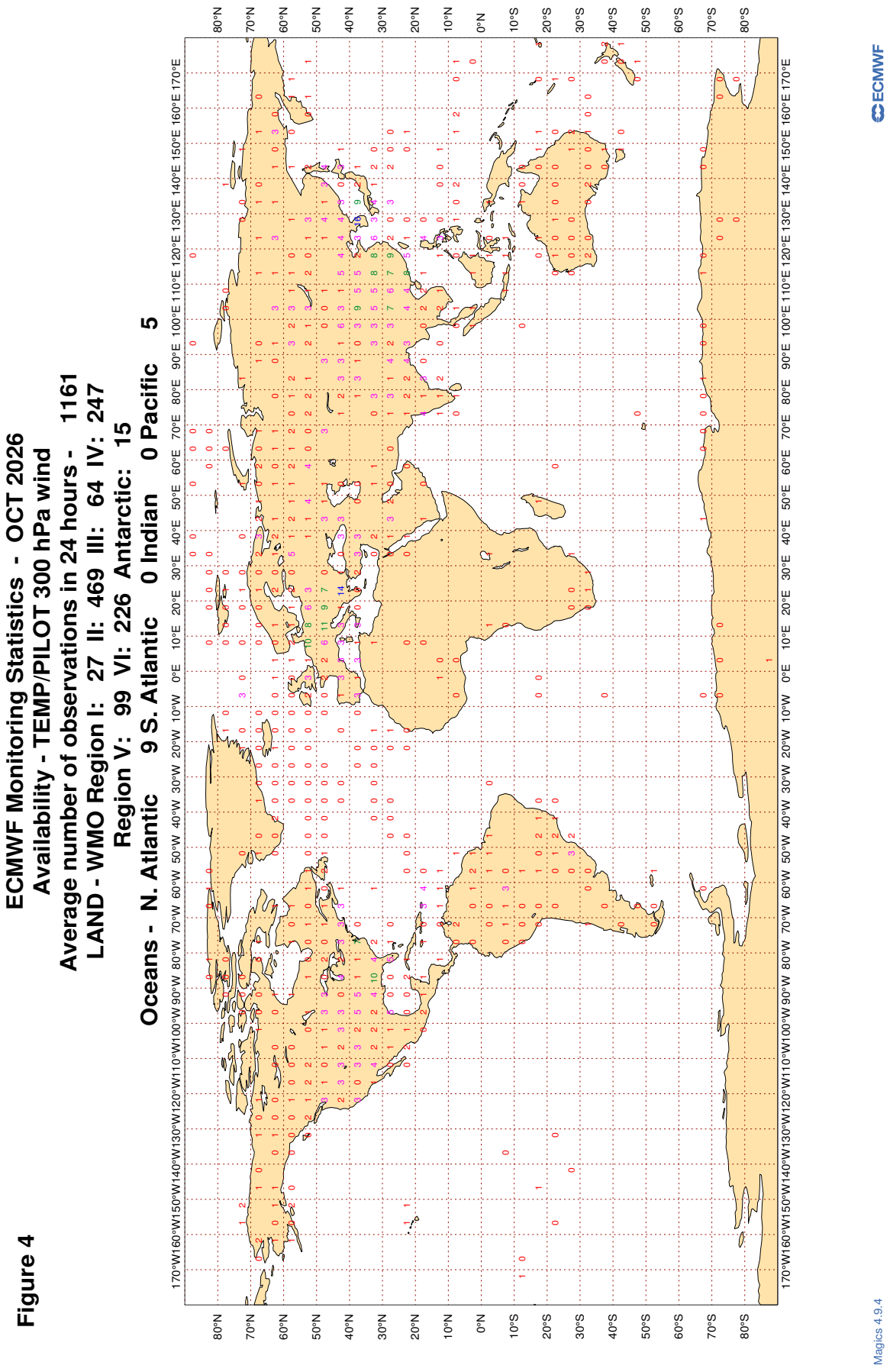


Figure 2

3.2.3 Figure 3 - Availability - TEMP 500 hPa geopotential



3.2.4 Figure 4 - Availability - TEMP/PILOT 300 hPa wind



3.2.5 Figure 5 - Availability - AIRCRAFT winds 300-150 hPa

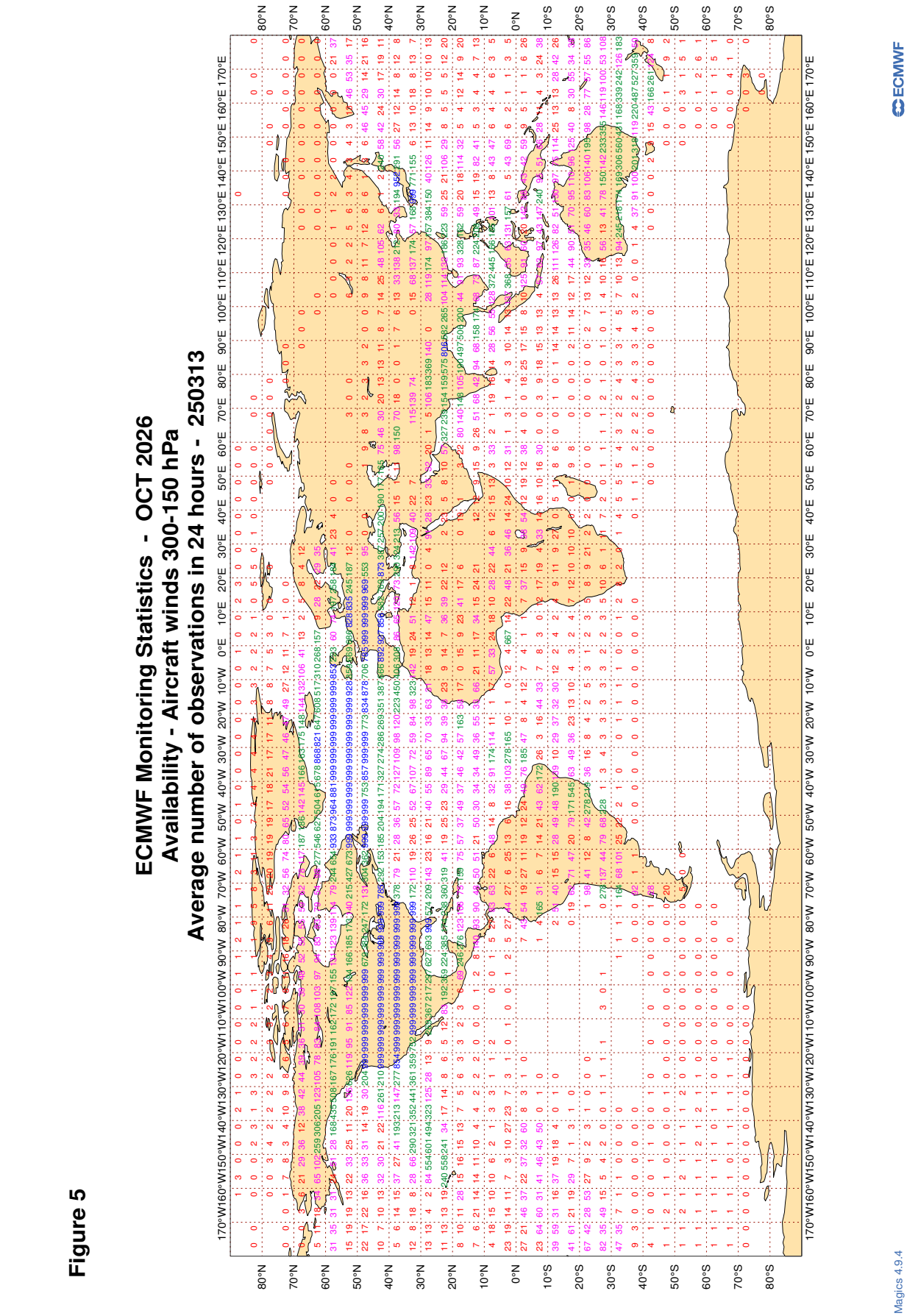


Figure 5

3.2.6 Figure 6 - Availability - SATOB winds 400-150 hPa

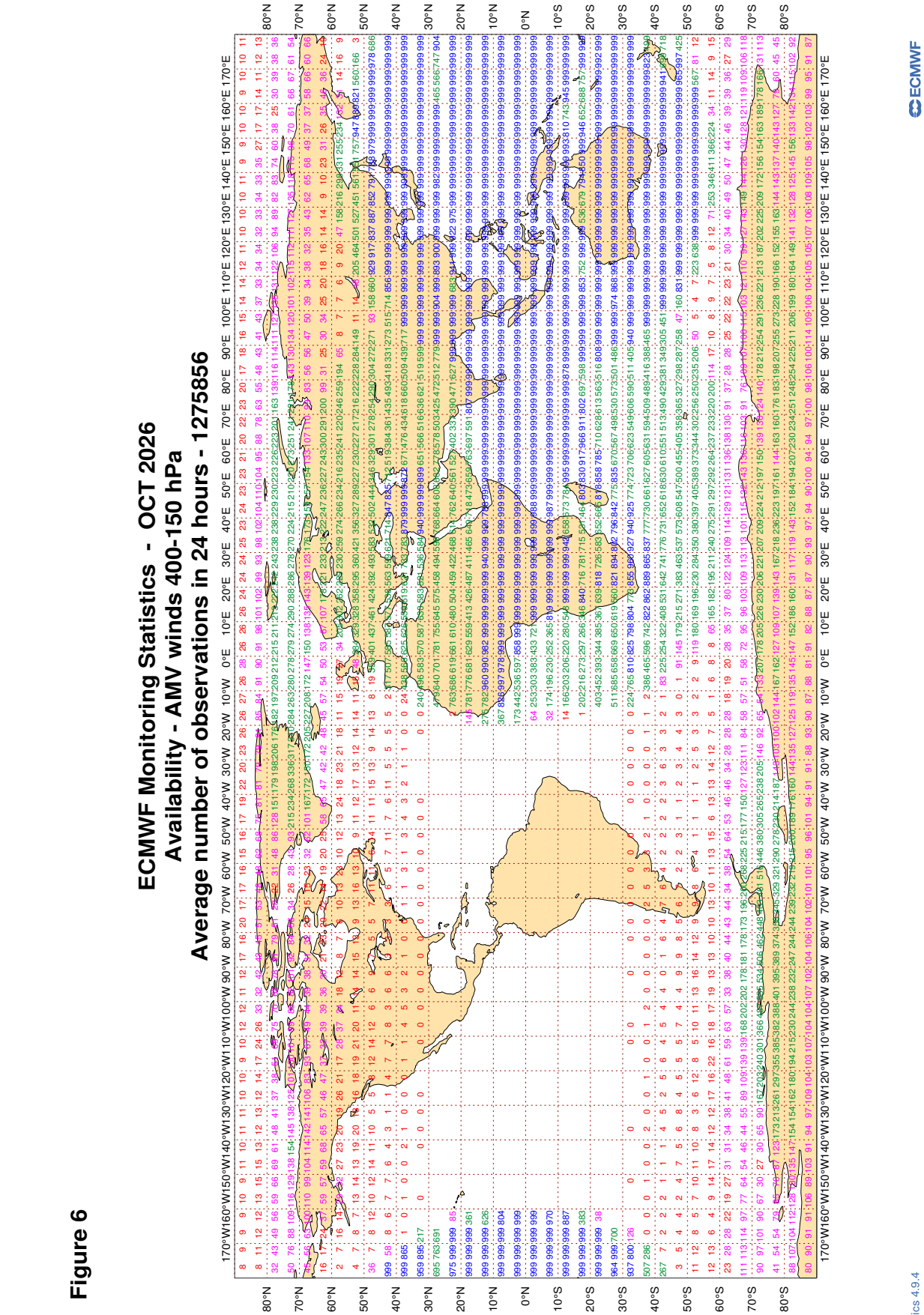


Figure 6

3.2.7 Figure 7 - Availability - SATOB winds 1000-700 hPa

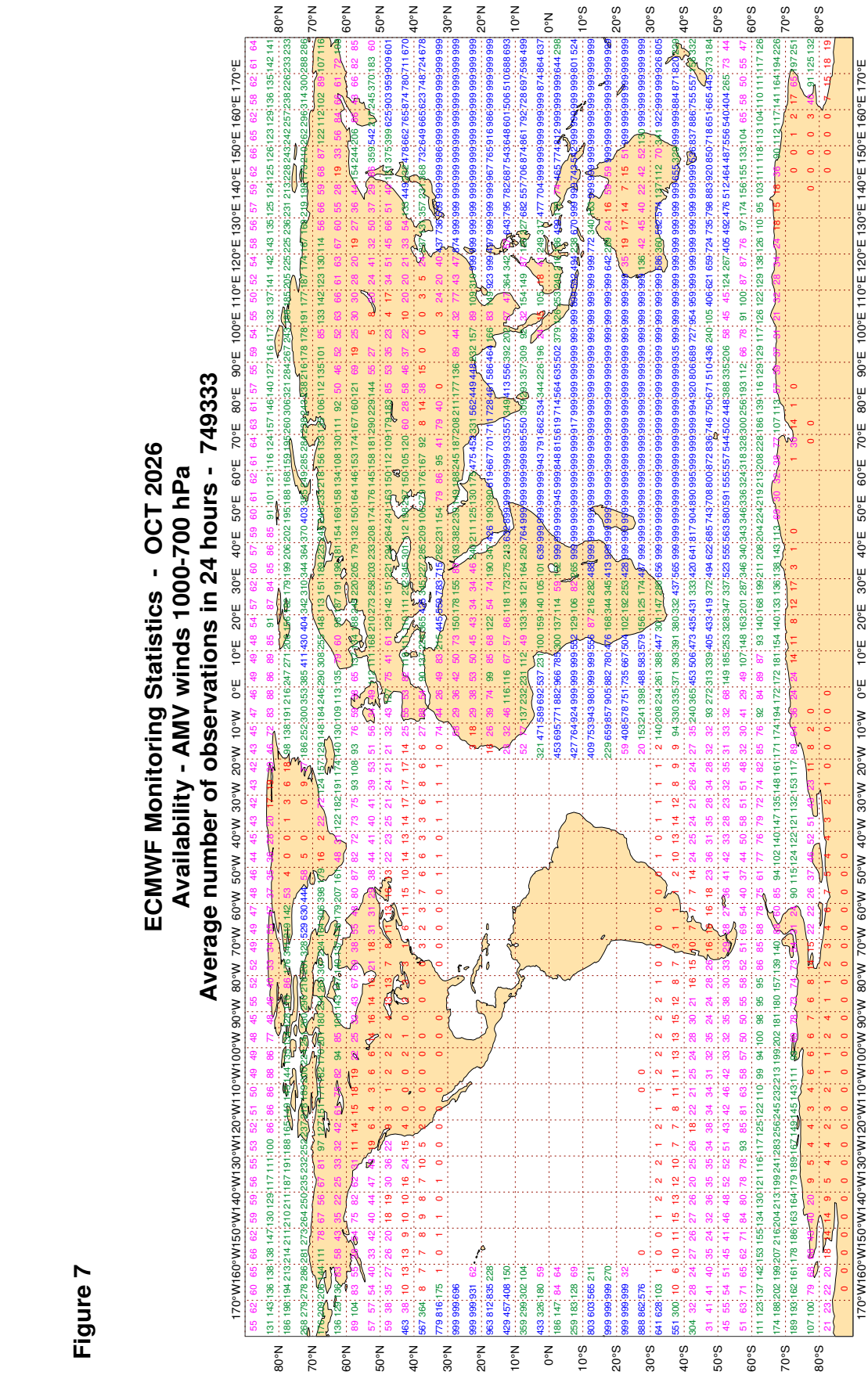


Figure 7

3.2.8 Figure 8 - Availability - METOP-B ATOVS : AMSU-A

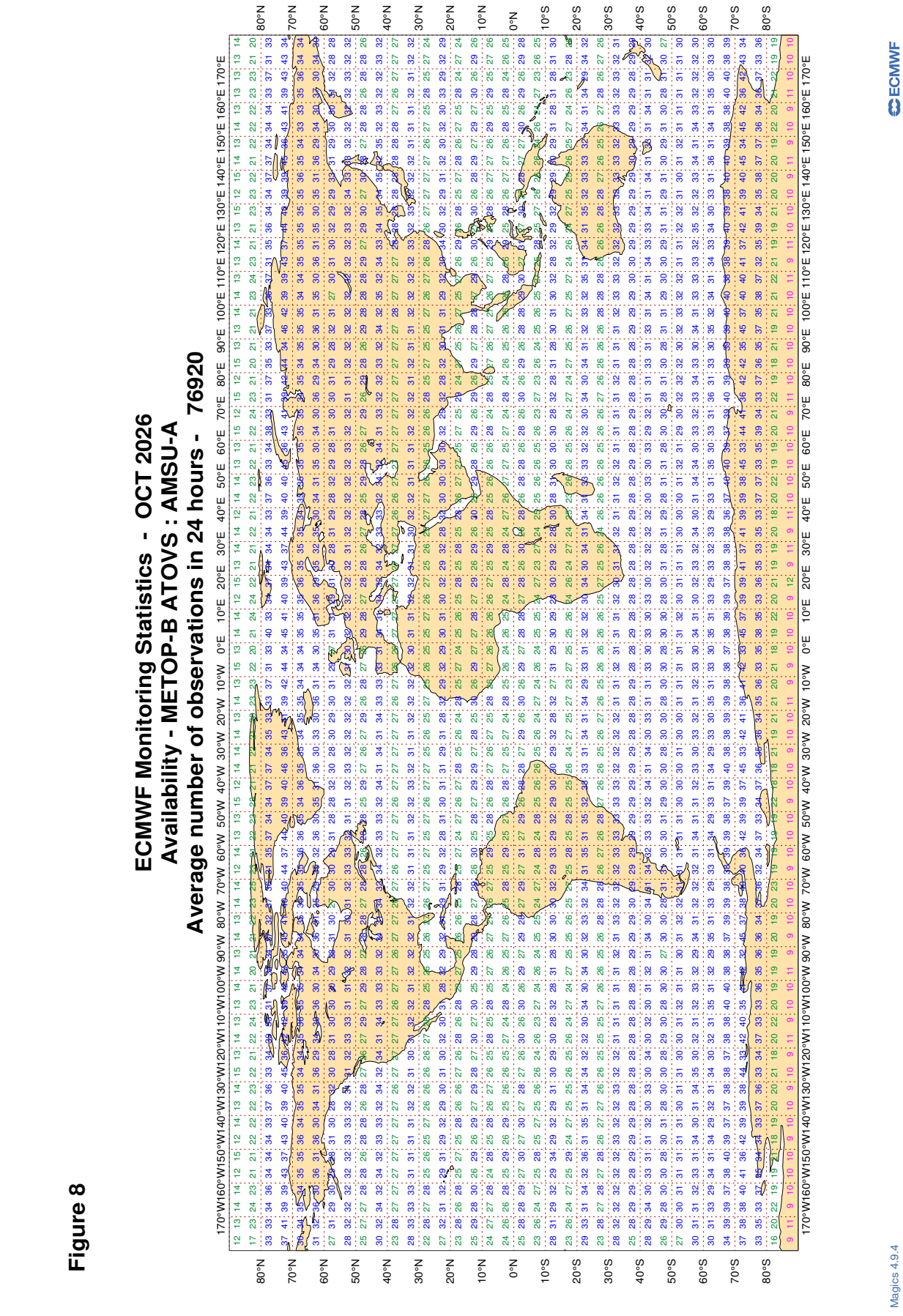


Figure 8

3.2.9 Figure 9 - Availability - METOP-C ATOVS : AMSU-A

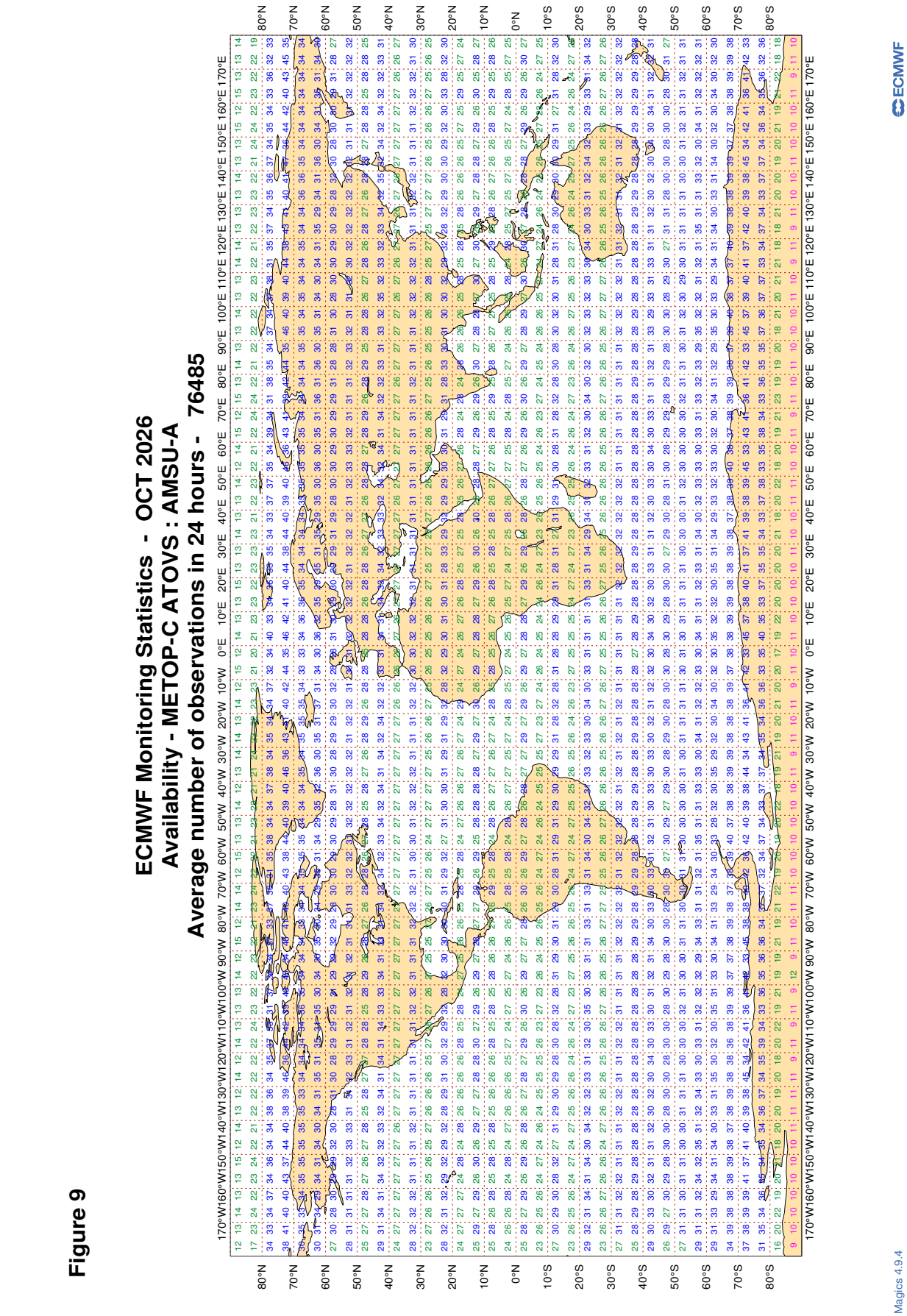


Figure 9

3.2.10 Table 1 - Suspect ships and fixed marine platforms: Surface pressure - (hPa)

```
          LIST OF SUSPECT STATIONS         : SHIPS + FIXED MARINE PLATFORMS
                    MONITORING CENTRE      : ECMWF
                    ELEMENT MONITORED      : SURFACE PRESSURE (HPA)
                    AREA                   : GLOBAL
                    PERIOD                 : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.            >= 15(50), AND,
Manual (Automatic)  ABSOLUTE BIAS          >= 3(2) HPA, OR,
                    STANDARD DEVIATION     >= 5(4) HPA, OR,
                    % GROSS ERROR          >= 25(15)
                    (GROSS ERROR LIMIT = 15 HPA)

TIME = 99 => AVERAGE OF 00, 06, 12 AND 18 UTC OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	NUM OBS	NUM GROSS	SD	BIAS	RMS
3E4612	99	P	SUR	16	0	1.0	4.1	4.2
3ETR7	99	P	SUR	22	0	2.3	4.3	4.9
3FOA6	99	P	SUR	20	1	3.5	5.7	6.6
3FOS8	99	P	SUR	27	0	2.1	-3.4	4.0
45161	99	P	SUR	55	0	0.4	9.5	9.5
7KGK	99	P	SUR	45	0	0.8	3.1	3.2
7KJZ	99	P	SUR	53	0	0.6	6.3	6.3
7KTE	99	P	SUR	19	0	2.1	4.6	5.0
9HA4777	99	P	SUR	43	0	3.6	4.5	5.8
9HA4902	99	P	SUR	23	6	0.9	12.7	12.7
9HJD9	99	P	SUR	16	0	0.6	-3.2	3.3
9V6222	99	P	SUR	85	0	1.0	3.3	3.5
9V6324	99	P	SUR	23	0	2.6	5.4	6.0
9V7629	99	P	SUR	24	0	1.4	9.2	9.3
9V7754	99	P	SUR	22	0	0.4	6.9	6.9
9V9290	99	P	SUR	21	0	1.5	3.4	3.7
9V9567	99	P	SUR	49	0	3.3	4.3	5.4
A8JM7	99	P	SUR	18	1	3.3	9.0	9.6
BHJH	99	P	SUR	27	3	2.0	9.4	9.6
C6BU3	99	P	SUR	34	0	1.4	5.4	5.6
C6CA7	99	P	SUR	91	0	3.0	3.4	4.5
C6DL4	99	P	SUR	23	0	2.0	-5.3	5.7
C6FJ9	99	P	SUR	17	4	6.6	-4.2	7.8
C6HY8	99	P	SUR	17	0	1.5	-3.7	4.0
C6IA9	99	P	SUR	18	0	1.4	5.2	5.4
C6PT7	99	P	SUR	63	0	0.4	4.4	4.4
C6TX6	99	P	SUR	86	0	4.6	10.8	11.8
C6WO8	99	P	SUR	42	0	0.7	4.5	4.6
CQ2153	99	P	SUR	27	0	2.1	4.5	5.0
HPVN	99	P	SUR	67	0	1.8	4.9	5.2
KFMV	99	P	SUR	100	0	0.6	-3.1	3.2
LAMP5	99	P	SUR	26	0	1.6	-4.8	5.1

LIST OF SUSPECT STATIONS : SHIPS + FIXED MARINE PLATFORMS
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : SURFACE PRESSURE (HPA)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	NUM OBS	NUM GROSS	SD	BIAS	RMS
LAPE7	99	P	SUR	88	0	1.9	4.5	4.8
LAQL7	99	P	SUR	24	0	2.0	5.1	5.5
LATL8	99	P	SUR	83	0	0.9	-5.6	5.7
OVZO2	99	P	SUR	24	0	2.3	7.2	7.5
OVZP2	99	P	SUR	22	0	2.8	6.7	7.2
S6NQ	99	P	SUR	19	0	1.1	-5.9	6.0
UBAU	99	P	SUR	111	3	5.9	-1.9	6.2
UBRI5	99	P	SUR	28	12	7.6	-4.0	8.6
UCUD	99	P	SUR	18	0	1.6	4.0	4.3
V7A5254	99	P	SUR	23	0	1.8	5.3	5.6
V7A6573	99	P	SUR	44	0	0.7	-3.6	3.7
V7WO5	99	P	SUR	27	0	0.8	10.0	10.0
VRFU8	99	P	SUR	40	0	2.2	-4.4	4.9
VRGO6	99	P	SUR	69	0	0.8	-3.7	3.8
VRKZ6	99	P	SUR	25	1	2.7	11.0	11.4
VRTV2	99	P	SUR	25	0	0.5	-5.0	5.0
VRVO5	99	P	SUR	19	0	1.4	5.4	5.5
WDC6698	99	P	SUR	101	0	3.6	-3.7	5.2
WDC7562	99	P	SUR	19	1	1.8	-5.8	6.1
WFLH	99	P	SUR	61	0	0.7	4.3	4.4
WGEB	99	P	SUR	117	0	0.5	5.9	5.9
YDDP2	99	P	SUR	22	0	1.0	-3.0	3.2

3.2.11 Table 2 - Suspect ships and fixed marine platforms: Wind speed (m/s)

```
          LIST OF SUSPECT STATIONS        : SHIPS + FIXED MARINE PLATFORMS
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : WIND SPEED (M/S)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.           >= 15(50), AND,
Manual (Automatic)  ABSOLUTE BIAS         >= 4(4) M/S, OR,
                    % GROSS ERROR         >= 25(15)
                    (GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S)


TIME = 99 => AVERAGE OF 00, 06, 12 AND 18 UTC OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS

3.2.12 Table 3 - Suspect ships and fixed marine platforms: Wind direction (DEGREES)

```
          LIST OF SUSPECT STATIONS        : SHIPS + FIXED MARINE PLATFORMS
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : WIND DIRECTION (DEGREES)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.           >= 15(50) (WIND SPEEDS > 3M/S), AND ,
Manual (Automatic)  ABSOLUTE BIAS         >= 30(25) DEGREES, OR,
                    STANDARD DEVIATION    >= 70(50) DEGREES
                    (GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S)


TIME = 99 => AVERAGE OF 00, 06, 12 AND 18 UTC OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
41037	99	DIRN	SUR	26	0	0	134.4	36.7	139.3
45164	99	DIRN	SUR	70	0	0	84.5	-8.6	84.9
45165	99	DIRN	SUR	56	0	0	20.3	31.2	37.2
45187	99	DIRN	SUR	34	0	0	21.2	35.9	41.7
45196	99	DIRN	SUR	80	0	0	25.9	-48.5	55.0
45202	99	DIRN	SUR	50	0	0	27.0	32.4	42.2

3.2.13 Table 4 - Suspect drifters: Surface pressure (HPA)

```
          LIST OF SUSPECT STATIONS         : DRIFTER
                    MONITORING CENTRE      : ECMWF
                    ELEMENT MONITORED      : SURFACE PRESSURE (HPA)
                    AREA                   : GLOBAL
                    PERIOD                 : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.            >= 20, AND,
                    ABSOLUTE BIAS          >= 4 HPA, OR,
                    STANDARD DEVIATION     >= 6 HPA, OR,
                    % GROSS ERROR          >= 25
                    (GROSS ERROR LIMIT = 15 HPA)

TIME = 99 => AVERAGE OF ALL OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
1701678	99	P	SUR	-27	73	419	419	0.0	0.0	0.0
1801946	99	P	SUR	49	-10	153	126	4.8	-4.3	6.4
2501580	99	P	SUR	75	-127	744	47	8.4	0.9	8.4
2501586	99	P	SUR	75	-129	744	744	0.0	0.0	0.0
2601524	99	P	SUR	69	-166	744	464	4.2	11.3	12.0
2601536	99	P	SUR	74	-158	186	95	3.1	11.0	11.5
3801872	99	P	SUR	79	-135	170	170	0.0	0.0	0.0
4101867	99	P	SUR	6	81	732	238	4.5	-5.4	7.1
4500161	99	P	SUR	43	-86	986	0	0.0	9.5	9.5
45161	99	P	SUR	43	-86	329	0	0.4	9.5	9.5
4601561	99	P	SUR	76	-135	225	11	4.6	6.2	7.7
4801639	99	P	SUR	70	-126	582	582	0.0	0.0	0.0
4801762	99	P	SUR	69	-117	744	513	1.6	-0.7	1.8
4801763	99	P	SUR	71	9	744	2	0.7	-11.2	11.2
4802582	99	P	SUR	64	-18	376	0	0.6	-9.9	10.0
5501690	99	P	SUR	-29	153	91	0	0.6	-8.4	8.5
5501735	99	P	SUR	-38	-91	744	744	0.0	0.0	0.0
5601762	99	P	SUR	-61	113	673	199	3.9	-1.2	4.1
5802227	99	P	SUR	53	-20	738	738	0.0	0.0	0.0
6204533	99	P	SUR	42	-22	182	100	4.8	-4.1	6.3
6301524	99	P	SUR	70	-139	151	38	5.1	6.1	8.0
6801944	99	P	SUR	19	-145	694	635	0.8	14.2	14.3
7801770	99	P	SUR	58	-153	311	311	0.0	0.0	0.0
7810038	99	P	SUR	-10	-34	742	14	0.7	13.2	13.3
7810693	99	P	SUR	31	-150	742	0	0.4	-9.6	9.7
7810707	99	P	SUR	-42	-22	35	16	10.5	0.7	10.5
7810860	99	P	SUR	32	-168	705	705	0.0	0.0	0.0
7810923	99	P	SUR	9	-106	733	733	0.0	0.0	0.0
7810928	99	P	SUR	18	-102	181	30	7.4	1.9	7.7

3.2.14 Table 5 - Suspect drifters: Wind speed (m/s)

```
          LIST OF SUSPECT STATIONS        : DRIFTER
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : WIND SPEED (M/S)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.           >= 20, AND,
                    ABSOLUTE BIAS         >= 5 M/S, OR,
                    % GROSS ERROR         >= 25
                    (GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S)


TIME = 99 => AVERAGE OF ALL OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS

3.2.15 Table 6 - Suspect drifters: Wind direction (degrees)

```
          LIST OF SUSPECT STATIONS         : DRIFTER
                    MONITORING CENTRE      : ECMWF
                    ELEMENT MONITORED      : WIND DIRECTION (DEGREES)
                    PERIOD                 : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: NO. OF OBS.            >= 20 (WIND SPEEDS > 3M/S), AND ,
                    ABSOLUTE BIAS          >= 20 DEGREES, OR,
                    STANDARD DEVIATION     >= 60 DEGREES
                    (GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S)


TIME = 99 => AVERAGE OF ALL OBSERVATIONS
```

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
2200185	99	DIRN	SUR	37	125	531	0	0	28.2	30.9	41.8
2200193	99	DIRN	SUR	38	124	559	0	0	18.1	40.0	43.9
2200309	99	DIRN	SUR	34	128	610	0	0	19.6	-21.2	28.8
2200516	99	DIRN	SUR	33	126	493	0	0	48.3	27.5	55.6
2300092	99	DIRN	SUR	17	85	115	3	0	87.2	8.3	87.6
2300093	99	DIRN	SUR	16	88	137	6	0	74.4	37.1	83.2
2300095	99	DIRN	SUR	11	94	54	0	0	122.3	68.6	140.2
2300451	99	DIRN	SUR	15	69	34	0	0	80.3	31.3	86.2
2300452	99	DIRN	SUR	12	68	124	0	0	61.7	49.5	79.1
2300453	99	DIRN	SUR	8	73	62	0	0	133.0	-2.9	133.1
2300454	99	DIRN	SUR	10	73	43	0	0	75.0	26.1	79.4
2300459	99	DIRN	SUR	14	87	107	0	0	103.9	-2.0	104.0
2300460	99	DIRN	SUR	7	88	73	0	0	71.2	-30.2	77.4
23093	99	DIRN	SUR	16	88	67	3	0	78.6	46.6	91.3
23451	99	DIRN	SUR	15	69	20	0	0	84.5	17.9	86.4
23452	99	DIRN	SUR	12	68	58	0	0	51.9	38.3	64.6
23459	99	DIRN	SUR	14	87	43	0	0	82.7	13.6	83.8
3001001	99	DIRN	SUR	22	-68	171	0	0	44.5	64.9	78.7
4000010	99	DIRN	SUR	26	-69	311	0	0	61.2	15.7	63.1
4000011	99	DIRN	SUR	22	-66	300	0	0	60.6	33.8	69.4
4100037	99	DIRN	SUR	34	-77	151	0	0	128.5	51.8	138.6
4100064	99	DIRN	SUR	34	-77	613	0	0	16.6	-21.7	27.4
41037	99	DIRN	SUR	34	-77	156	0	0	136.8	22.1	138.5
41064	99	DIRN	SUR	34	-77	613	0	0	16.1	-21.8	27.1
4403587	99	DIRN	SUR	47	-85	956	0	0	29.6	28.6	41.2
4500029	99	DIRN	SUR	43	-86	2765	0	0	17.9	24.9	30.7
4500164	99	DIRN	SUR	42	-82	421	0	0	81.3	-16.0	82.9
4500165	99	DIRN	SUR	42	-83	2243	0	0	20.6	29.9	36.3
4500168	99	DIRN	SUR	42	-86	2703	0	0	16.3	27.2	31.8
4500174	99	DIRN	SUR	42	-88	2630	0	0	24.2	20.6	31.8
4500187	99	DIRN	SUR	42	-88	1280	0	0	25.1	34.8	42.9

LIST OF SUSPECT STATIONS : DRIFTER
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4500196	99	DIRN	SUR	42	-82	484	0	0	25.4	-46.9	53.3
4500202	99	DIRN	SUR	42	-83	1953	0	0	23.5	31.5	39.3
4500204	99	DIRN	SUR	42	-82	791	0	0	29.1	-23.8	37.6
4500209	99	DIRN	SUR	43	-82	3240	0	0	18.6	-27.9	33.5
45029	99	DIRN	SUR	43	-86	479	0	0	18.7	26.8	32.7
45164	99	DIRN	SUR	42	-82	410	0	0	81.5	-15.3	82.9
45165	99	DIRN	SUR	42	-83	362	0	0	20.6	30.6	36.9
45168	99	DIRN	SUR	42	-86	441	0	0	16.4	27.5	32.0
45174	99	DIRN	SUR	42	-88	434	0	0	25.1	20.3	32.3
45187	99	DIRN	SUR	43	-88	217	0	0	22.4	34.4	41.1
45196	99	DIRN	SUR	42	-82	472	0	0	26.1	-47.5	54.2
45202	99	DIRN	SUR	42	-83	324	0	0	24.0	31.6	39.7
45204	99	DIRN	SUR	42	-82	139	0	0	30.4	-20.7	36.8
45209	99	DIRN	SUR	43	-82	522	0	0	19.0	-27.2	33.1
4600118	99	DIRN	SUR	49	-123	531	0	0	61.1	-5.0	61.3
4600120	99	DIRN	SUR	48	-122	59	0	0	11.4	26.9	29.2
46118	99	DIRN	SUR	49	-123	98	0	0	64.0	-2.7	64.1
5001002	99	DIRN	SUR	21	-67	385	0	0	60.2	42.1	73.5
5100309	99	DIRN	SUR	8	-170	2648	0	0	30.0	-52.5	60.5
6100216	99	DIRN	SUR	42	12	1046	0	0	125.2	39.8	131.4
6200082	99	DIRN	SUR	44	-8	540	5	0	12.7	115.7	116.4
6200086	99	DIRN	SUR	55	7	178	0	0	10.0	24.9	26.8
6600022	99	DIRN	SUR	54	14	395	1	0	55.6	24.0	60.5

3.2.16 Table 7 - Suspect radiosondes: Geopotential height (metres)

```
          LIST OF SUSPECT STATIONS        : RADIOSONDES
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: AT LEAST 3 LEVELS WITH
                    10 OBS AND 100 M WEIGHTED RMS


ONLY THE WORST LEVEL IS SHOWN (WITH UNWEIGHTED RMS)
```

WMO IDENT	OBS TIME	ELM	LEV	LAT	LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
01400	00	Z	1000	57	3	27	0	22.5	31.6	38.8
01400	12	Z	1000	57	3	28	0	15.4	24.6	29.0
25913	00	Z	50	60	151	23	0	102.3	-110.4	150.5
25913	12	Z	30	60	151	18	0	116.8	-166.3	203.2
31300	12	Z	50	54	127	29	0	82.1	-122.2	147.2
32618	00	Z	30	55	166	25	0	47.6	211.4	216.7
42348	12	Z	925	27	76	30	0	23.3	39.3	45.7
54374	00	Z	30	42	127	29	0	76.7	199.9	214.1
56492	00	Z	50	29	105	29	5	129.8	138.1	189.5
76644	12	Z	850	21	-90	26	0	7.4	34.2	35.0
76644	00	Z	850	21	-90	27	1	3.9	37.3	37.5
80371	12	Z	200	1	-78	15	2	76.2	195.7	210.0
91680	12	Z	1000	-18	177	14	0	3.7	34.2	34.4
91680	00	Z	1000	-18	177	27	0	2.6	33.9	34.0
JNKN7J	12	Z	1000	51	-10	12	0	4.1	41.4	41.6
JNKN7J	00	Z	850	51	-15	11	0	17.2	48.0	51.0

3.2.17 Table 8 - Suspect radiosondes: Wind (m/s)

```
          LIST OF SUSPECT STATIONS        : RADIOSONDES
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : WIND (M/S)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: AT LEAST 10 OBS AND 15 M/S RMS VECTOR WIND


STANDARD LEVEL (1000-100 HPA) WITH HIGHEST RMS IS SHOWN
```

WMO IDENT	OBS TIME	ELM	LEV	LAT	LONG	NUM OBS	NUM GROSS	UBIAS	VBIAS	RMS

3.2.18 Table 9 - Suspect radiosondes: Wind direction (degrees)

```
          LIST OF SUSPECT STATIONS        : RADIOSONDES
                    MONITORING CENTRE     : ECMWF
                    ELEMENT MONITORED     : WIND DIRECTION (DEGREES)
                    AREA                  : GLOBAL
                    PERIOD                : OCT 2026
                    STANDARD OF COMPARISON: FIRST-GUESS FIELD


SELECTION CRITERIA: OBSERVED/FORECAST WIND SPEEDS >= 5 M/S
                    NO. OF OBSERVATIONS   >= 5, AND,
                    ABSOLUTE BIAS         >= 10 DEGREES, WITH
                    STANDARD DEVIATION    <  30 DEGREES, AND,
                    VERTICAL SPREAD       < 10 DEGREES
                    (AVERAGE BETWEEN 500 AND 150 HPA)
```

WMO IDENT	OBS TIME	ELM	LAT	LONG	NUM OBS	BIAS	MAX SPREAD	SD
48327	00	DD	19	99	15	-11.9	5.3	11.7
48568	00	DD	7	101	8	-15.8	9.0	12.0

3.2.19 Figure 10 - Suspect TEMP observations - geopotential : 00 UTC

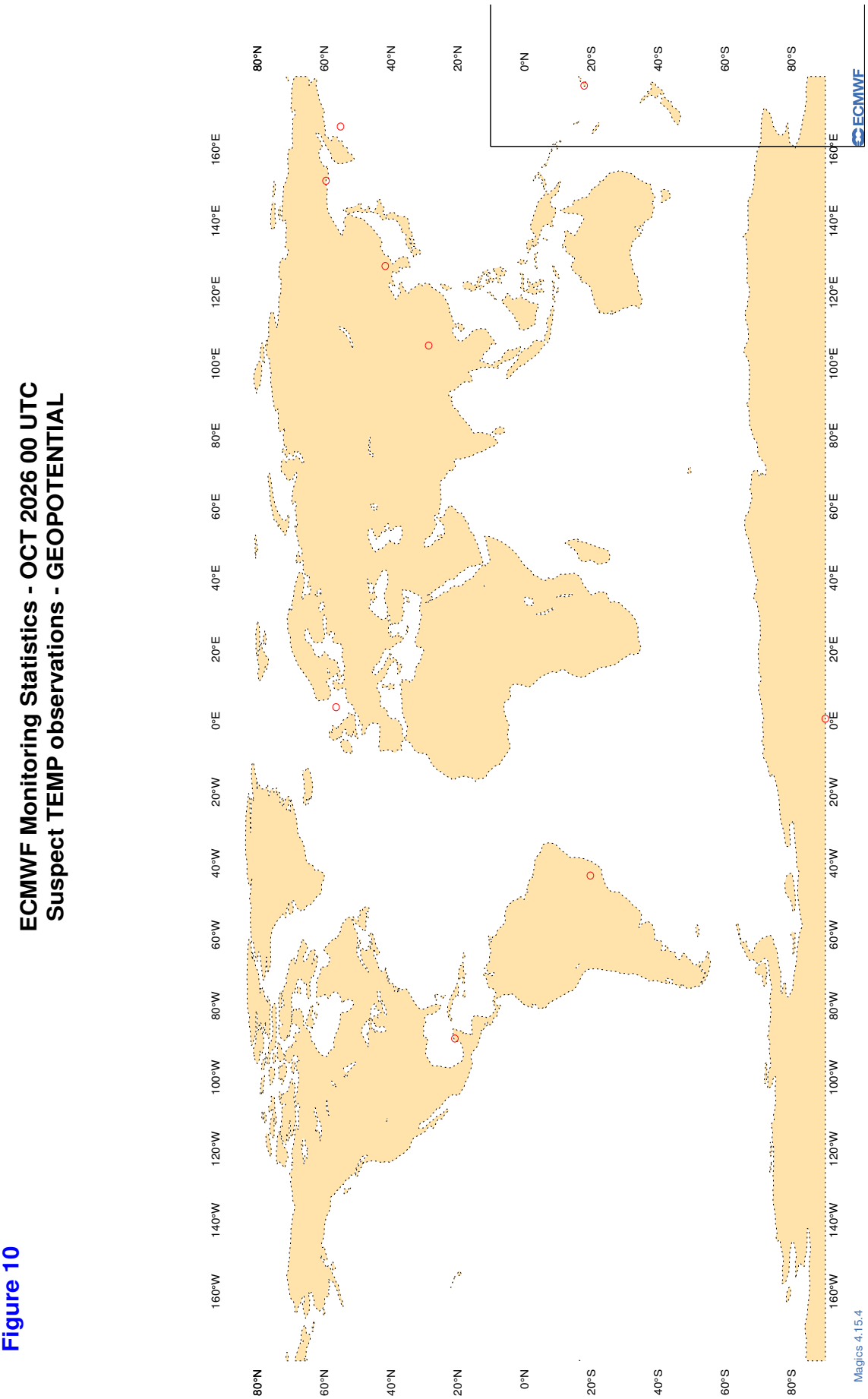
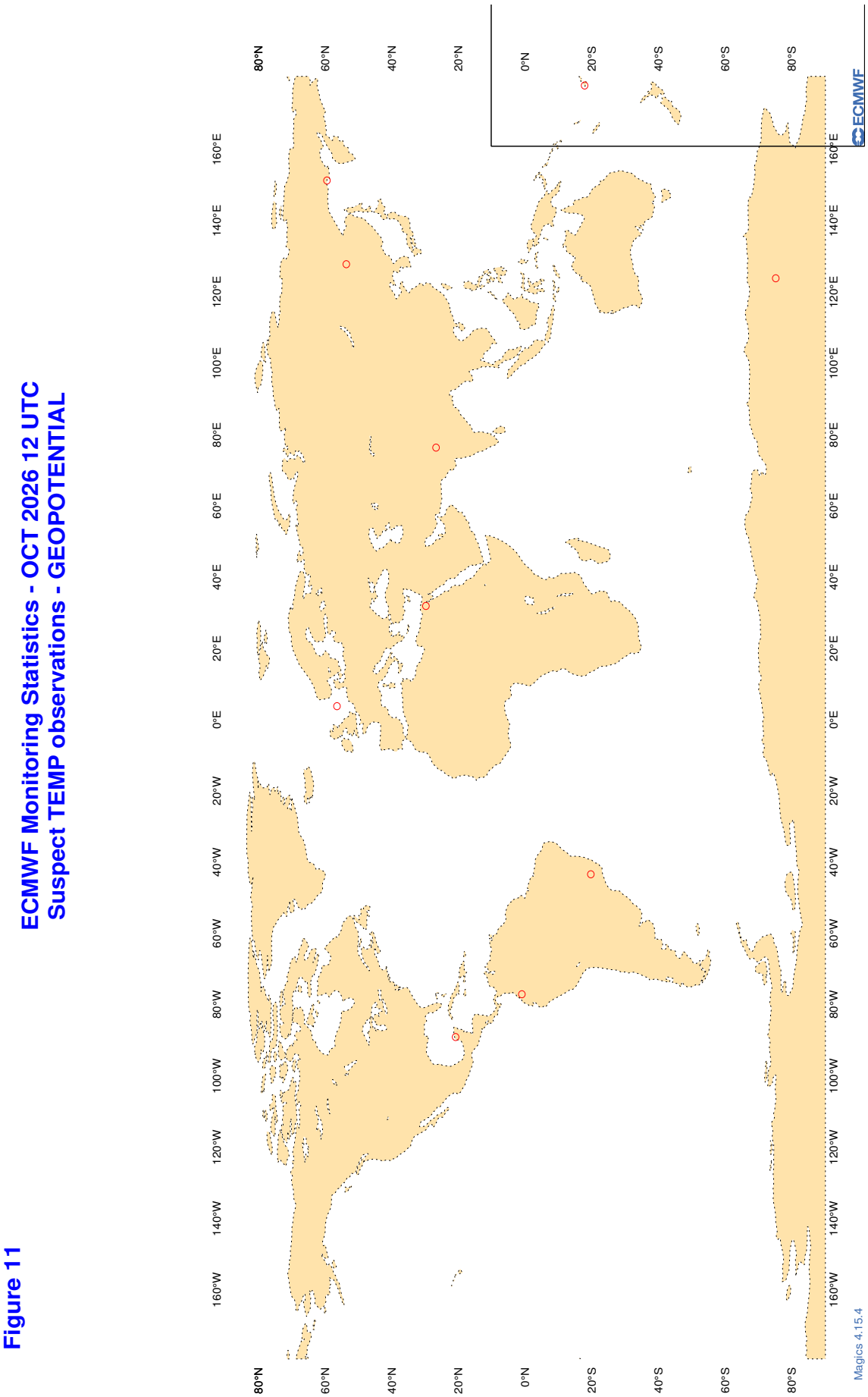
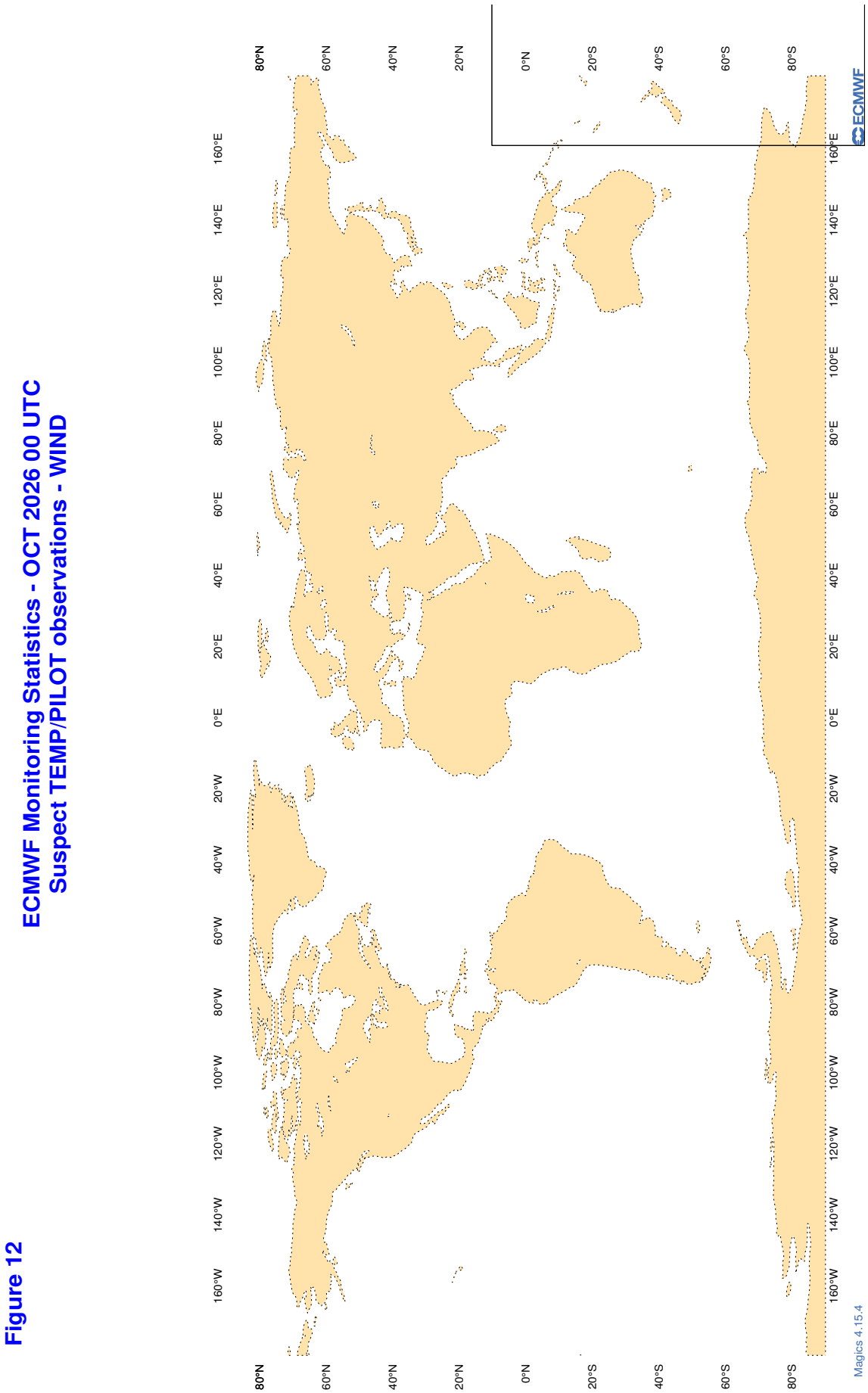


Figure 10

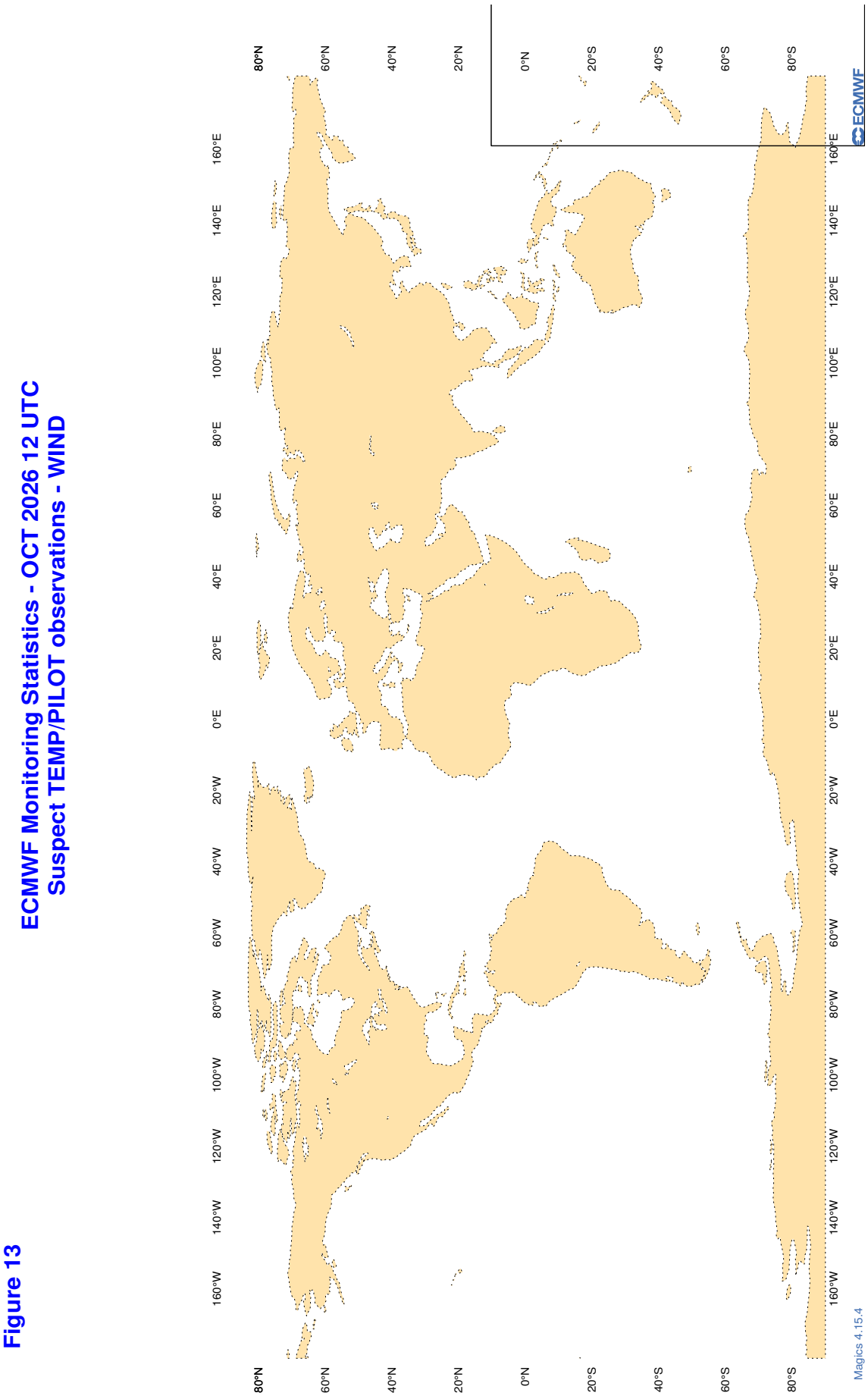
3.2.20 Figure 11 - Suspect TEMP observations - geopotential : 12 UTC



3.2.21 Figure 12 - Suspect TEMP/PILOT observations - wind : 00 UTC



3.2.22 Figure 13 - Suspect TEMP/PILOT observations - wind : 12 UTC



3.2.23 Table 10 - Radiosonde monitoring statistics (SHIPs): Geopotential height (metres)

```
RADIOSONDE MONITORING STATISTICS (SHIPS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
         LEVEL                 : 100 HPA
         AREA                  : GLOBAL
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
2TDJJ8	12	Z	100	10	11.6	10.4
7JUNA4	00	Z	100	0	0.0	0.0
7JUNA4	12	Z	100	3	41.3	36.6
7KPB	00	Z	100	1	4.7	4.7
9ZT9MR	12	Z	100	9	53.2	-42.4
9ZT9MR	00	Z	100	5	34.7	-32.4
ATGU3F	12	Z	100	8	28.1	-26.9
ATGU3F	00	Z	100	11	26.4	-24.2
CMA	12	Z	100	25	65.5	58.9
CMA	00	Z	100	17	72.0	68.8
DEN	00	Z	100	27	58.4	58.0
DEN	12	Z	100	26	64.0	63.4
FPUW5G	12	Z	100	19	7.1	0.3
GKA32C	00	Z	100	4	6.5	-5.8
GKA32C	12	Z	100	6	4.0	0.5
GQBZLZ	12	Z	100	6	31.1	-28.4
GQBZLZ	00	Z	100	2	47.3	-47.3
JNKN7J	12	Z	100	12	29.0	24.2
JNKN7J	00	Z	100	10	33.3	31.1
JPBN	12	Z	100	15	5.4	0.1
JPBN	00	Z	100	10	4.8	2.6
KMPLHP	12	Z	100	10	72.5	57.8
KMPLHP	00	Z	100	6	7.4	-0.6
LAGY8	12	Z	100	3	28.7	-24.3
LAGZ8	12	Z	100	3	42.0	27.6
LAR	12	Z	100	17	64.5	63.6
LAR	00	Z	100	18	74.2	68.0
LRYQE3	00	Z	100	5	7.5	-3.3
LRYQE3	12	Z	100	5	70.4	63.3
SLKFEG	00	Z	100	7	12.9	-7.2
SLKFEG	12	Z	100	5	6.9	-4.6
TLH	00	Z	100	23	69.4	68.9
TLH	12	Z	100	22	75.8	75.5
WDK38H	12	Z	100	5	20.4	-19.7
WFF	00	Z	100	28	62.4	62.2
WFF	12	Z	100	28	65.5	65.2
XKQLWQ	12	Z	100	16	33.4	29.3
YLV96W	12	Z	100	0	0.0	0.0
YLV96W	00	Z	100	2	20.0	9.2

3.2.24 Table 11 - Radiosonde monitoring statistics (SHIPs): Wind (m/s)

```
RADIOSONDE MONITORING STATISTICS (SHIPS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : WIND (M/S)
         LEVEL                 : 100 HPA
         AREA                  : GLOBAL
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OB TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
2TDJJ8	12	V	100	10	2.6	-0.9	-0.1
7JUNA4	00	V	100	0	0.0	0.0	0.0
7JUNA4	12	V	100	3	4.0	0.9	-1.0
7KPB	00	V	100	1	3.9	-3.7	1.2
9ZT9MR	12	V	100	9	2.5	-0.7	0.0
9ZT9MR	00	V	100	5	4.9	1.4	-1.5
ATGU3F	12	V	100	8	2.1	-0.6	-0.3
ATGU3F	00	V	100	11	3.0	0.6	0.0
CMA	12	V	100	25	3.7	-0.2	0.3
CMA	00	V	100	14	3.3	-0.9	1.4
DEN	00	V	100	23	4.4	0.5	-0.2
DEN	12	V	100	26	5.1	-0.3	-0.4
FPUW5G	12	V	100	19	3.4	0.0	0.7
GKA32C	00	V	100	4	3.5	0.3	2.0
GKA32C	12	V	100	6	3.2	0.2	-1.1
GQBZLZ	12	V	100	6	3.0	-0.4	0.1
GQBZLZ	00	V	100	2	6.2	-3.5	0.0
JNKN7J	12	V	100	12	4.7	1.1	0.9
JNKN7J	00	V	100	9	3.6	0.1	0.6
JPBN	12	V	100	15	3.3	0.4	0.3
JPBN	00	V	100	10	2.9	-0.3	-0.7
KMPLHP	12	V	100	10	4.8	-0.4	1.2
KMPLHP	00	V	100	6	3.1	-0.5	-0.5
LAGY8	12	V	100	3	2.9	-0.8	1.4
LAGZ8	12	V	100	3	6.3	-5.2	2.5
LAR	12	V	100	17	3.4	-0.9	0.7
LAR	00	V	100	16	4.7	-0.8	1.6
LRYQE3	00	V	100	5	3.0	1.0	0.0
LRYQE3	12	V	100	5	3.4	0.9	0.6
SLKFEG	00	V	100	7	2.4	0.6	1.3
SLKFEG	12	V	100	5	2.8	-1.6	0.8
TLH	00	V	100	22	3.6	0.1	-0.8
TLH	12	V	100	22	3.6	0.1	0.1
WDK38H	12	V	100	5	2.0	-0.5	-0.5
WFF	00	V	100	21	3.5	0.2	1.3
WFF	12	V	100	28	5.0	0.5	-1.0
XKQLWQ	12	V	100	16	4.0	-0.4	1.4
YLV96W	12	V	100	0	0.0	0.0	0.0
YLV96W	00	V	100	2	1.4	-0.7	0.5

3.2.25 Figure 14 - SATOB Winds: 700-1000hPa

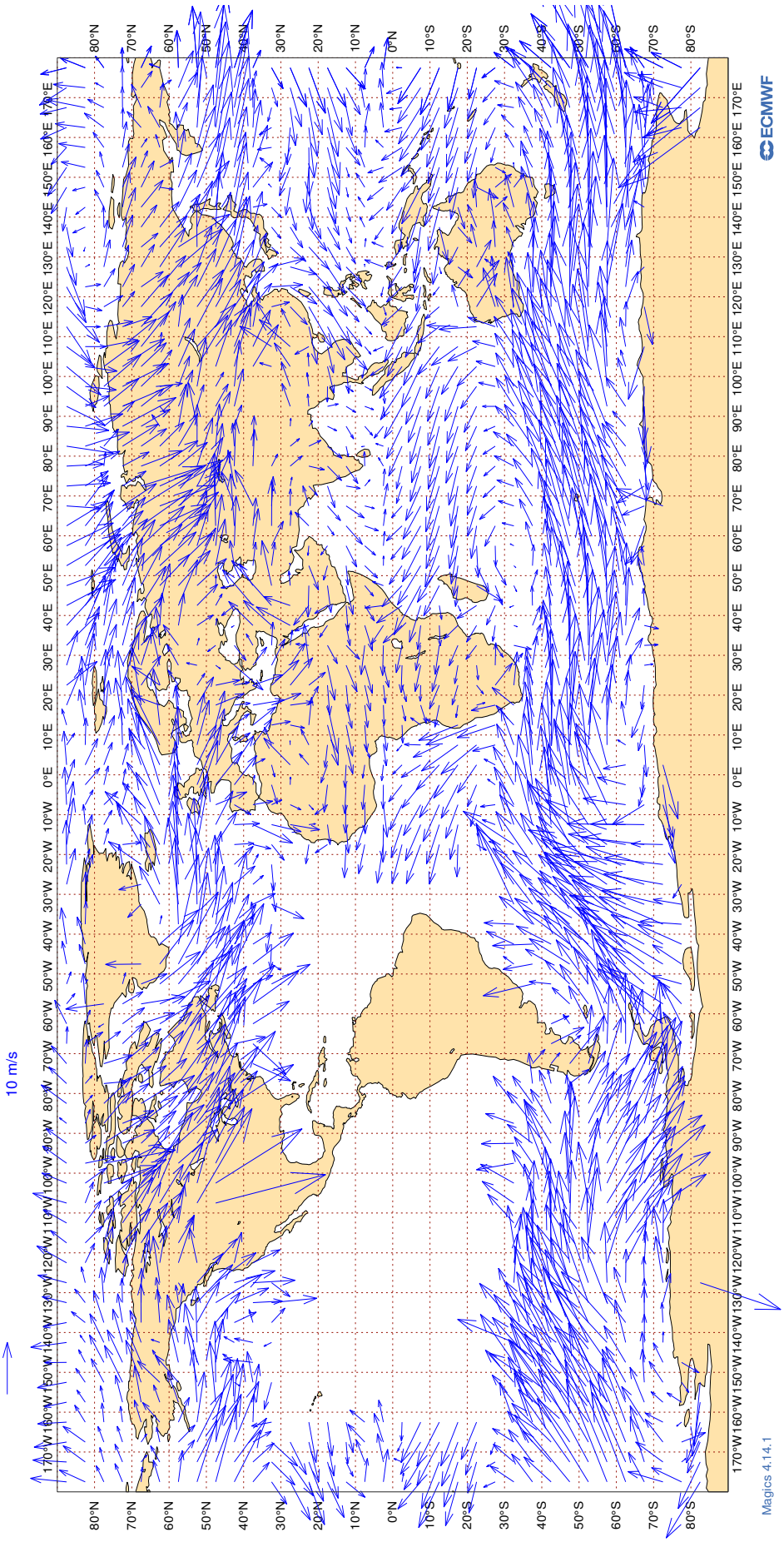


Figure 14

3.2.26 Figure 15 - SATOB Winds: 150- 400hPa

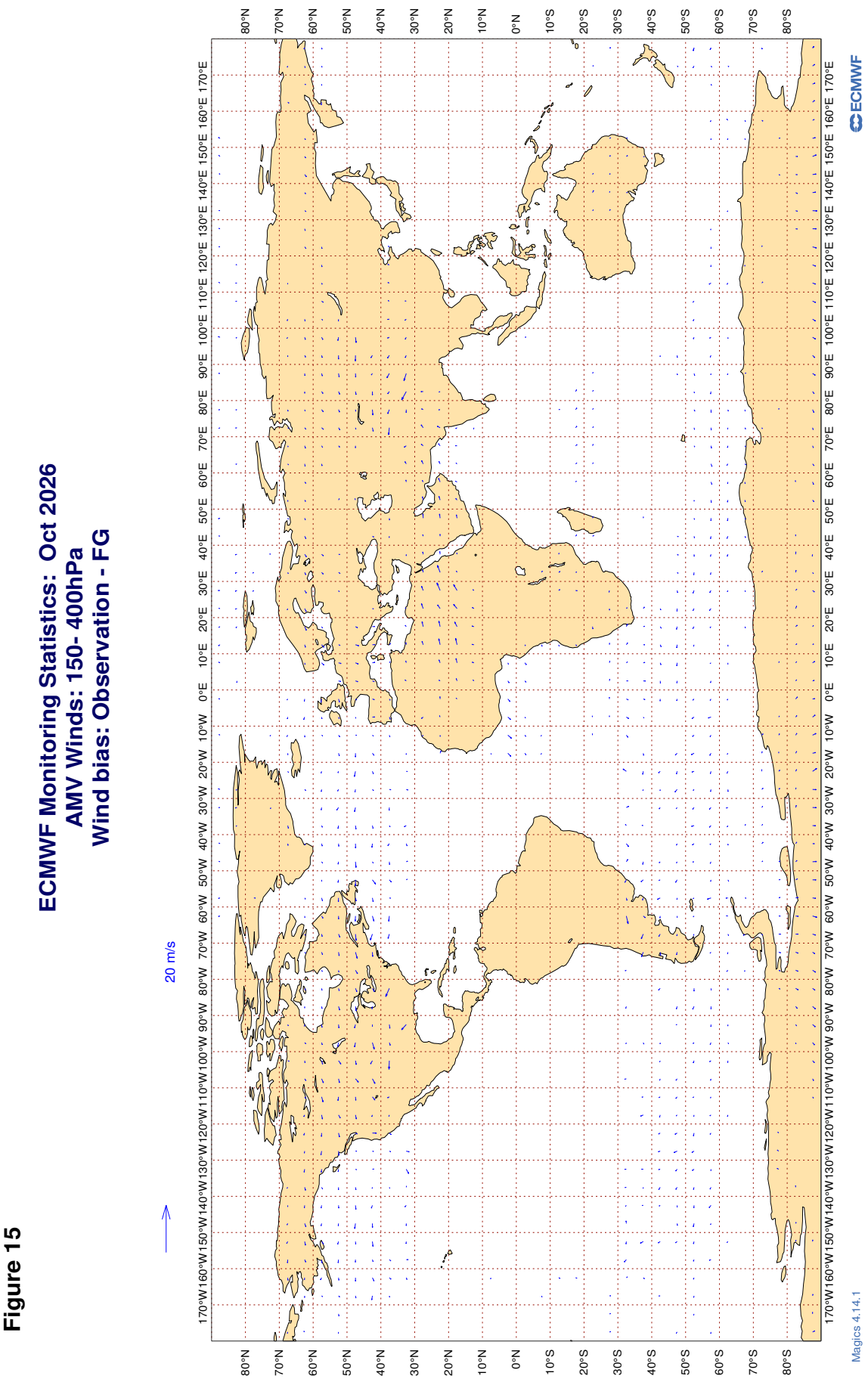


Figure 15

3.2.27 Figure 16 - SATOB Winds: 700-1000hPa

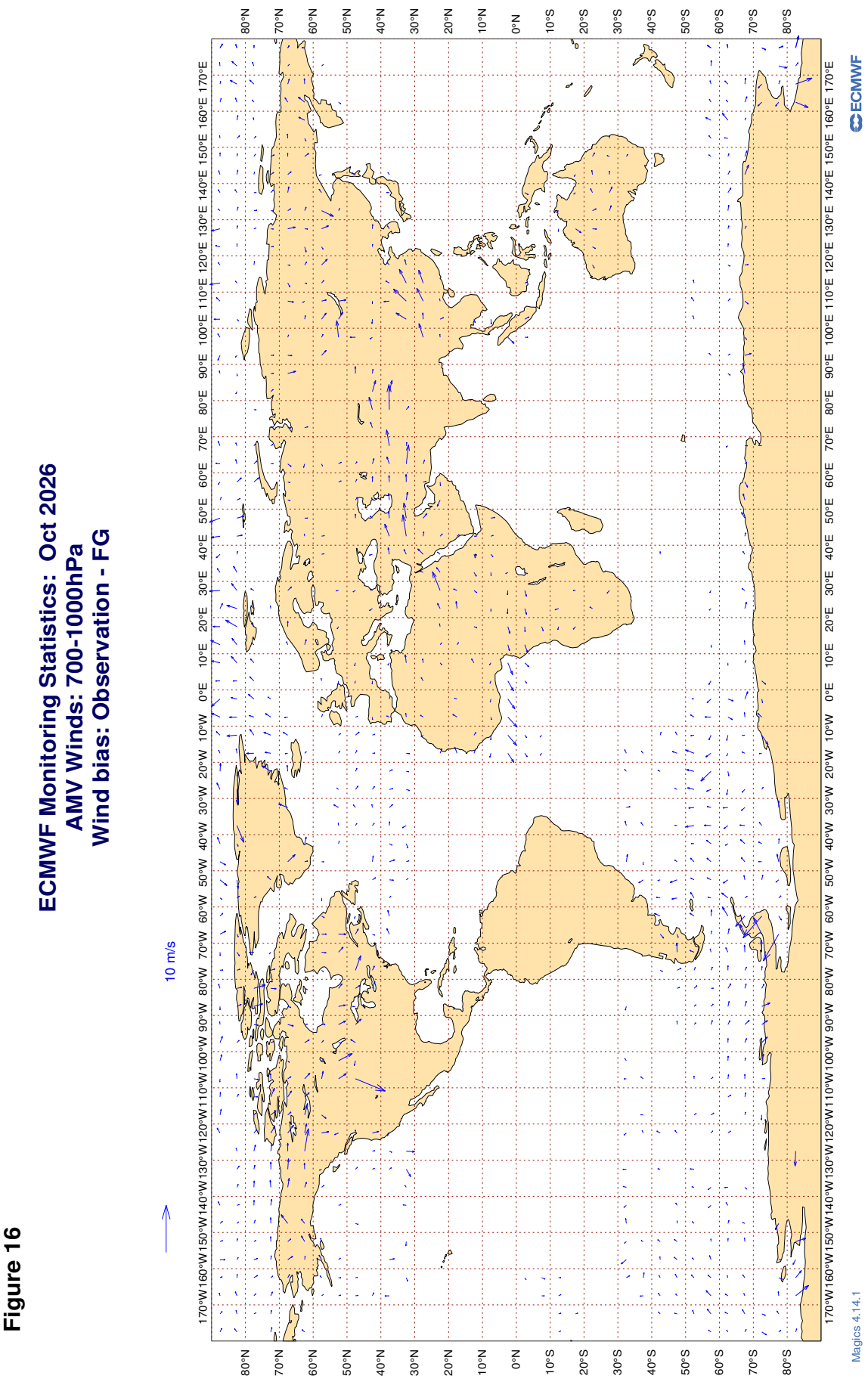


Figure 16

3.2.28 Figure 17 - SATOB Winds: 150- 400hPa

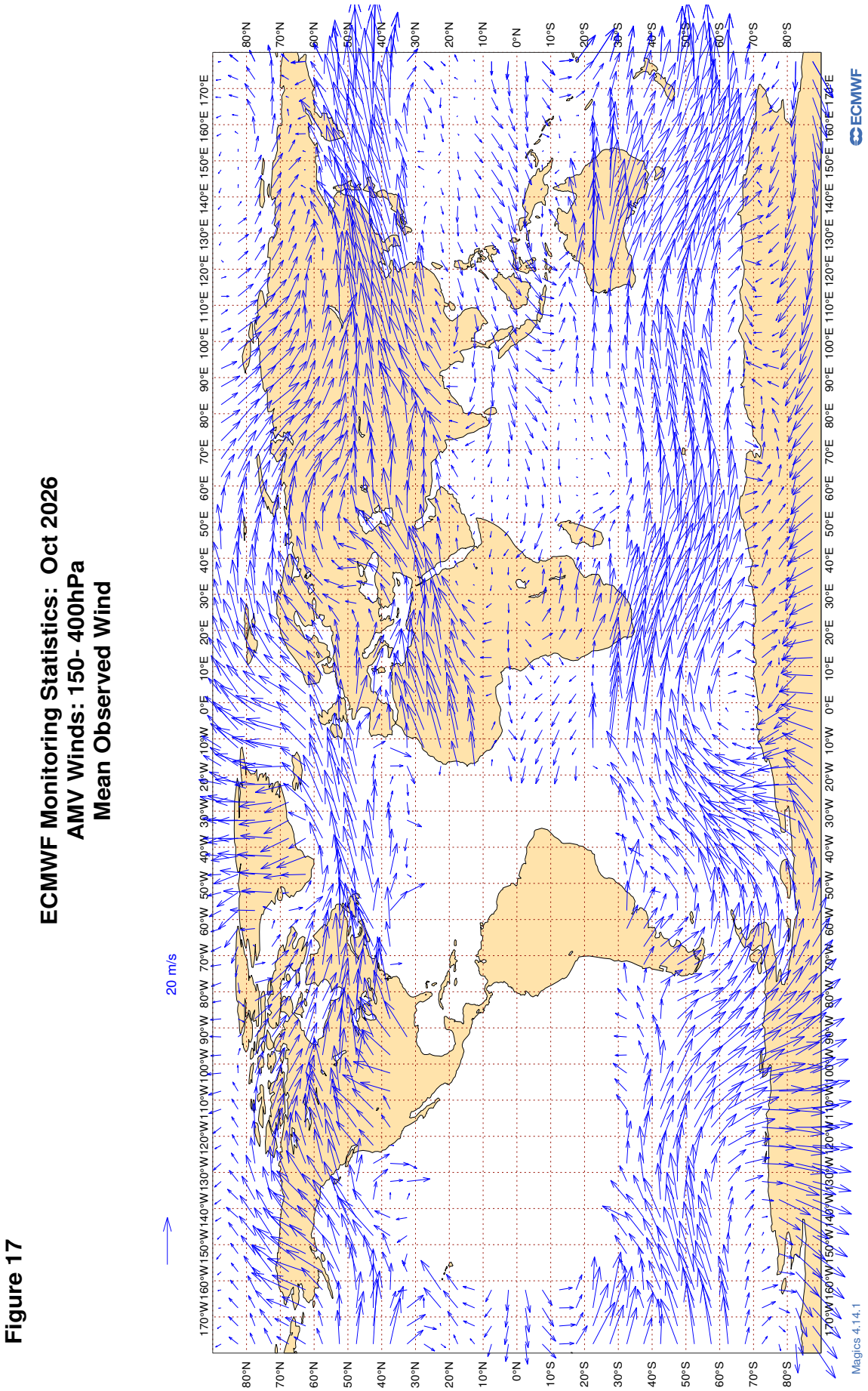


Figure 17

3.2.29 Figure 18 - AIRCRAFT Winds: 150- 300hPa

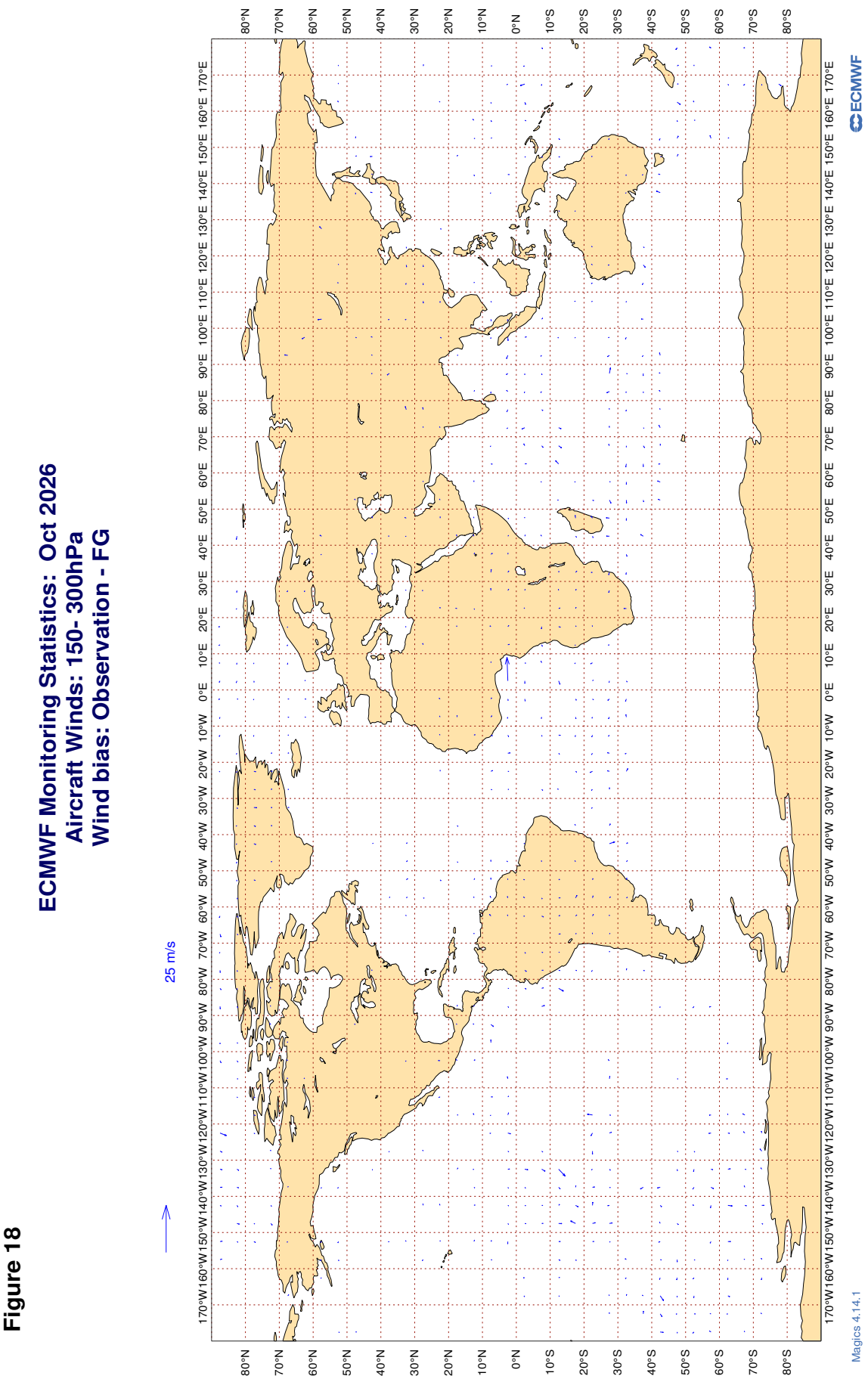


Figure 18

3.2.30 Table 12 - Airep Monitoring Statistics For Airline Carriers (Global)

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : VECTOR WIND (M/S)
AREA : GLOBAL
PERIOD : OCT 2026
STANDARD OF COMPARISON: FIRST-GUESS FIELD

SELECTION CRITERIA: NO. OF OBS. >= 20

TIME = 99 => AVERAGE OF ALL OBSERVATIONS
GROSS ERROR LIMIT ON VECTOR WIND = 40 M/S

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
AAB	99	V	300-150	102	0	0	3.4	0.3
AAE	99	V	300-150	673	0	0	3.7	-0.5
AAL	99	V	300-150	52079	7	0	4.6	0.0
ABD	99	V	300-150	382	0	0	3.7	-0.1
ABY	99	V	300-150	133	0	0	2.7	0.3
ACA	99	V	300-150	35965	4	0	4.2	0.1
ACI	99	V	300-150	351	0	0	2.9	0.3
ADZ	99	V	300-150	61	0	0	4.0	-1.4
AEA	99	V	300-150	592	11	0	5.6	0.2
AEW	99	V	300-150	64	0	0	2.9	-0.2
AFR	99	V	300-150	35645	0	0	3.6	0.0
AIC	99	V	300-150	6942	4	0	5.0	0.0
AIH	99	V	300-150	162	0	0	3.7	-1.0
AIZ	99	V	300-150	718	0	0	3.4	0.2
AJD	99	V	300-150	46	0	0	3.9	-0.4
AJO	99	V	300-150	25	0	0	2.8	-0.1
AJT	99	V	300-150	162	0	0	3.8	0.3
AKK	99	V	300-150	24	0	0	3.0	-0.2
AMQ	99	V	300-150	52	0	0	3.2	-0.4
AMX	99	V	300-150	6140	12	0	5.8	-0.2
ANA	99	V	300-150	184	4	0	9.3	0.0
ANZ	99	V	300-150	15488	0	0	3.4	0.3

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
AOJ	99	V	300-150	75	0	0	3.2	0.4
ASA	99	V	300-150	1013	5	0	5.7	-0.2
ASL	99	V	300-150	808	0	0	3.3	0.0
ASP	99	V	300-150	29	0	0	3.1	-0.4
ASY	99	V	300-150	50	0	0	5.0	0.0
ATC	99	V	300-150	34	3	3	7.0	0.3
ATN	99	V	300-150	100	0	4	3.5	-0.1
AUA	99	V	300-150	4584	7	0	4.6	0.0
AUH	99	V	300-150	48	6	0	6.6	0.1
AVA	99	V	300-150	804	12	0	5.1	-0.3
AWC	99	V	300-150	85	0	0	3.4	-0.7
AXS	99	V	300-150	43	0	0	3.3	0.5
AXY	99	V	300-150	176	0	0	3.7	0.1
AYJ	99	V	300-150	28	0	0	2.7	0.7
AZG	99	V	300-150	1386	0	0	5.0	0.5
BAW	99	V	300-150	52053	3	0	4.2	0.0
BBA	99	V	300-150	27	0	0	2.7	-0.5
BBB	99	V	300-150	44	0	0	3.6	-0.3
BBC	99	V	300-150	565	11	0	5.9	0.3
BCS	99	V	300-150	1673	0	0	3.3	0.0
BEL	99	V	300-150	939	0	0	3.1	0.2
BFF	99	V	300-150	69	0	0	9.1	1.1
BKI	99	V	300-150	37	0	0	4.7	-0.5
BOX	99	V	300-150	5432	0	0	3.5	0.2
BOX	99	V	300-150	39	0	0	2.9	0.3
BRJ	99	V	300-150	40	0	0	3.2	1.4
BRK	99	V	300-150	125	0	0	5.8	-0.1
BTX	99	V	300-150	299	0	0	3.5	0.0
CAL	99	V	300-150	1503	0	0	5.9	1.3
CBJ	99	V	300-150	391	0	0	3.1	0.3
CCA	99	V	300-150	222	0	0	2.7	0.3
CEB	99	V	300-150	550	0	0	2.8	0.2
CEF	99	V	300-150	39	0	0	3.4	-0.2
CES	99	V	300-150	961	0	0	3.2	0.3
CFC	99	V	300-150	245	0	0	3.9	0.7
CFG	99	V	300-150	5566	0	0	3.4	0.2
CGS	99	V	300-150	335	0	0	2.3	0.3
CHG	99	V	300-150	650	0	0	3.5	-0.1
CHH	99	V	300-150	122	11	0	5.2	-0.4
CHZ	99	V	300-150	95	0	0	3.2	0.1
CJT	99	V	300-150	776	0	0	4.0	0.3
CKS	99	V	300-150	993	0	0	3.4	0.1
CLX	99	V	300-150	4546	0	0	3.5	-0.6

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
CMA	99	V	300-150	259	0	0	5.9	1.0
CMB	99	V	300-150	1442	0	0	3.5	0.0
CND	99	V	300-150	323	0	0	3.4	-0.3
CNV	99	V	300-150	180	0	0	3.2	0.1
CPA	99	V	300-150	3069	0	0	3.3	0.1
CRL	99	V	300-150	636	0	0	2.9	0.1
CSC	99	V	300-150	652	0	0	2.8	0.4
CSG	99	V	300-150	78	0	0	3.1	0.4
CSN	99	V	300-150	865	2	0	4.1	0.2
CSS	99	V	300-150	170	0	1	3.2	-0.2
CTM	99	V	300-150	115	0	2	3.7	0.2
DAH	99	V	300-150	1080	0	0	3.1	0.2
DAL	99	V	300-150	70811	0	0	3.3	0.1
DCM	99	V	300-150	24	0	0	2.7	1.2
DGX	99	V	300-150	34	0	0	3.3	0.2
DHK	99	V	300-150	2438	0	0	3.6	-0.2
DHX	99	V	300-150	98	0	0	3.0	0.3
DJT	99	V	300-150	1977	0	0	3.3	0.1
DLH	99	V	300-150	29033	2	0	3.8	-0.2
DTA	99	V	300-150	90	0	0	3.0	-0.1
DUB	99	V	300-150	20	0	0	3.1	1.4
DWC	99	V	300-150	27	0	0	3.4	-0.1
EAL	99	V	300-150	31	0	0	5.5	-2.3
EAU	99	V	300-150	244	0	0	3.3	-0.1
EDC	99	V	300-150	67	0	0	3.8	0.5
EDW	99	V	300-150	1225	0	0	3.7	-0.4
EFF	99	V	300-150	24	0	0	2.7	0.7
EIN	99	V	300-150	22117	0	0	3.2	0.2
EJM	99	V	300-150	1006	0	0	3.5	0.1
ELY	99	V	300-150	5644	12	0	5.3	-0.1
EMO	99	V	300-150	54	0	0	2.7	0.2
EQE	99	V	300-150	61	0	2	3.4	0.9
ETD	99	V	300-150	11338	5	0	5.0	0.0
ETH	99	V	300-150	5433	5	0	4.9	0.0
EVA	99	V	300-150	1787	2	0	6.4	1.2
EVE	99	V	300-150	318	0	0	2.9	-0.3
EXS	99	V	300-150	4037	0	0	2.8	0.1
EZY	99	V	300-150	166	0	0	2.7	-0.3
FAZ	99	V	300-150	68	0	0	3.9	-0.7
FBU	99	V	300-150	2584	0	0	4.0	0.2
FDX	99	V	300-150	8423	0	0	3.7	0.1
FIN	99	V	300-150	2447	0	0	3.3	0.3
FJI	99	V	300-150	2132	0	0	3.7	0.3

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
FJO	99	V	300-150	126	0	0	3.0	0.1
FKH	99	V	300-150	23	0	0	2.4	0.2
FLC	99	V	300-150	28	0	0	2.9	0.2
FLI	99	V	300-150	22	0	0	2.2	-0.5
FLW	99	V	300-150	65	0	0	3.4	0.4
FWI	99	V	300-150	1368	0	0	3.2	0.0
FYG	99	V	300-150	104	0	0	4.7	0.5
FYL	99	V	300-150	35	0	0	4.4	-0.1
GAF	99	V	300-150	182	0	0	3.6	0.1
GCK	99	V	300-150	200	0	0	3.7	0.6
GEC	99	V	300-150	1254	0	0	3.8	0.0
GES	99	V	300-150	94	0	0	3.2	0.3
GFA	99	V	300-150	1461	6	0	6.7	0.2
GIA	99	V	300-150	195	0	0	3.4	0.7
GJE	99	V	300-150	56	0	0	4.2	1.7
GKY	99	V	300-150	20	0	0	4.3	-0.5
GLH	99	V	300-150	55	0	0	3.7	0.6
GRB	99	V	300-150	29	0	0	16.6	6.3
GSM	99	V	300-150	152	0	0	3.7	-0.1
GTI	99	V	300-150	2492	0	0	4.0	-0.1
GTR	99	V	300-150	310	0	0	3.8	0.5
HFM	99	V	300-150	21	0	0	3.0	-0.3
HGO	99	V	300-150	36	0	0	3.2	-0.7
HIM	99	V	300-150	25	0	0	2.2	-0.6
HKC	99	V	300-150	169	0	0	2.8	0.5
HLF	99	V	300-150	68	0	0	2.8	-0.1
HPJ	99	V	300-150	33	0	0	4.6	0.2
HRN	99	V	300-150	71	0	0	4.1	0.2
HRT	99	V	300-150	63	0	0	3.7	0.0
HTT	99	V	300-150	108	0	0	5.3	-0.8
HUE	99	V	300-150	184	0	0	3.9	0.4
HVN	99	V	300-150	1674	2	0	6.4	0.4
HYP	99	V	300-150	21	0	0	3.5	1.6
HYS	99	V	300-150	282	0	0	3.3	-0.1
IAM	99	V	300-150	40	0	0	3.2	0.4
IBE	99	V	300-150	6945	0	0	3.6	0.0
ICE	99	V	300-150	11133	0	0	3.1	0.1
ICL	99	V	300-150	869	0	0	3.4	0.2
ICV	99	V	300-150	161	0	0	3.9	-1.3
IFA	99	V	300-150	856	0	0	3.8	0.1
IGA	99	V	300-150	119	0	0	3.7	-0.5
IGO	99	V	300-150	32	0	0	7.0	1.5
IJM	99	V	300-150	82	0	0	4.5	-1.5

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
ISR	99	V	300-150	439	0	0	3.8	0.5
ITY	99	V	300-150	6877	0	0	3.2	0.1
IXR	99	V	300-150	35	0	0	3.9	0.0
JAL	99	V	300-150	432	3	0	8.2	-0.2
JAS	99	V	300-150	115	0	0	3.4	0.3
JBU	99	V	300-150	10095	0	0	3.3	0.3
JCO	99	V	300-150	194	0	0	3.1	0.5
JDI	99	V	300-150	25	0	0	3.6	-0.1
JEN	99	V	300-150	36	0	0	2.9	0.8
JME	99	V	300-150	29	0	0	3.3	1.2
JNY	99	V	300-150	66	0	0	5.1	0.0
JST	99	V	300-150	2064	0	0	3.2	0.4
JTL	99	V	300-150	34	0	0	4.0	-0.2
KAC	99	V	300-150	1211	0	0	2.9	0.3
KAF	99	V	300-150	108	0	0	5.2	-0.3
KAI	99	V	300-150	108	0	0	5.6	0.5
KAL	99	V	300-150	388	8	0	5.8	0.2
KAY	99	V	300-150	52	0	0	2.6	-0.1
KFE	99	V	300-150	42	0	0	2.7	-0.1
KLM	99	V	300-150	19379	6	0	4.7	0.0
KOC	99	V	300-150	109	0	0	3.8	-0.4
KQA	99	V	300-150	306	5	0	8.3	-0.1
LAN	99	V	300-150	78	0	0	2.9	0.0
LAV	99	V	300-150	29	0	0	4.7	-0.2
LCO	99	V	300-150	599	0	0	3.9	-1.0
LDX	99	V	300-150	57	0	0	2.8	0.0
LEA	99	V	300-150	42	0	0	3.1	0.5
LHA	99	V	300-150	29	0	0	3.7	-0.7
LNX	99	V	300-150	162	0	0	3.6	0.7
LOT	99	V	300-150	3803	8	0	6.1	-0.2
LRQ	99	V	300-150	51	0	0	4.2	0.3
LSI	99	V	300-150	98	0	0	3.3	-0.1
LTG	99	V	300-150	257	0	0	3.7	-0.9
LUA	99	V	300-150	250	0	0	3.8	0.2
LVA	99	V	300-150	65	0	0	3.3	0.2
LVL	99	V	300-150	946	0	0	3.5	0.3
LXJ	99	V	300-150	1159	0	0	3.3	0.2
MAA	99	V	300-150	72	0	0	3.6	-0.1
MAS	99	V	300-150	3661	0	0	3.3	0.4
MFX	99	V	300-150	412	0	0	3.7	0.5
MGL	99	V	300-150	42	0	0	7.8	2.0
MJF	99	V	300-150	34	0	0	3.0	-0.5
MLM	99	V	300-150	190	0	0	3.4	0.0

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
MMD	99	V	300-150	251	0	0	3.7	0.8
MMF	99	V	300-150	47	0	0	3.7	-0.6
MNB	99	V	300-150	724	0	0	3.4	0.2
MPH	99	V	300-150	410	0	0	3.3	-0.1
MSR	99	V	300-150	2569	7	0	5.2	-0.2
MVJ	99	V	300-150	89	0	0	3.5	0.4
MXD	99	V	300-150	427	0	0	3.0	0.3
NBT	99	V	300-150	1268	13	0	6.3	-0.1
NCR	99	V	300-150	722	0	0	3.7	-0.5
NEW	99	V	300-150	43	0	0	3.7	0.1
NJE	99	V	300-150	711	0	0	3.7	0.1
NOJ	99	V	300-150	125	0	0	4.3	0.7
NOS	99	V	300-150	600	7	0	4.8	0.0
NUM	99	V	300-150	120	0	0	3.0	0.7
OAE	99	V	300-150	204	0	0	4.1	-0.2
OBD	99	V	300-150	30	0	0	3.2	0.2
OCN	99	V	300-150	5054	0	0	3.3	0.1
OLI	99	V	300-150	109	0	0	4.4	1.4
OMA	99	V	300-150	1283	3	0	8.0	0.4
OPM	99	V	300-150	30	0	0	2.9	0.4
PAL	99	V	300-150	808	0	0	3.2	0.4
PEX	99	V	300-150	25	0	0	2.9	-0.8
PIA	99	V	300-150	83	0	0	2.8	-0.6
PRD	99	V	300-150	20	0	0	3.1	1.0
PVA	99	V	300-150	187	0	0	3.7	0.1
QAF	99	V	300-150	78	0	0	3.5	0.2
QFA	99	V	300-150	5244	0	0	4.8	0.4
QFX	99	V	300-150	54	0	0	3.3	0.8
QID	99	V	300-150	20	0	0	4.2	-1.9
QLK	99	V	300-150	298	0	0	3.6	0.3
QQE	99	V	300-150	454	0	0	3.5	0.2
QTR	99	V	300-150	20376	0	0	3.7	0.1
RAM	99	V	300-150	1163	13	0	4.4	0.0
RBA	99	V	300-150	202	5	0	7.9	0.4
RCH	99	V	300-150	5864	0	0	4.7	0.3
RCR	99	V	300-150	65	0	0	3.6	0.5
RDN	99	V	300-150	51	0	0	3.0	0.6
RJA	99	V	300-150	2344	13	0	6.8	-0.1
ROJ	99	V	300-150	77	0	0	3.1	0.1
ROU	99	V	300-150	1258	0	0	3.3	0.0
RRR	99	V	300-150	248	0	0	4.4	0.6
RSF	99	V	300-150	36	0	0	3.4	-0.1
RXI	99	V	300-150	373	3	0	6.2	0.0

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
RYR	99	V	300-150	395	0	0	3.2	0.0
RZO	99	V	300-150	574	0	0	4.1	0.3
SAM	99	V	300-150	158	0	0	3.3	0.1
SAS	99	V	300-150	5355	0	0	3.1	0.1
SAZ	99	V	300-150	26	0	0	2.8	-0.1
SCX	99	V	300-150	52	2	2	3.6	0.3
SIA	99	V	300-150	15652	0	0	3.9	0.4
SIO	99	V	300-150	57	0	0	4.0	0.5
SJX	99	V	300-150	412	0	0	3.1	0.5
SKV	99	V	300-150	150	0	0	3.8	1.0
SLM	99	V	300-150	151	0	0	2.7	0.2
SPA	99	V	300-150	241	0	0	3.5	0.2
SRA	99	V	300-150	20	0	0	3.5	1.2
SUI	99	V	300-150	42	0	0	4.3	1.5
SVA	99	V	300-150	4669	3	0	5.8	0.2
SVW	99	V	300-150	328	0	0	4.0	-0.2
SWR	99	V	300-150	12804	0	0	3.7	0.3
SYB	99	V	300-150	128	0	0	3.2	-0.3
TAM	99	V	300-150	84	0	0	5.3	0.2
TAP	99	V	300-150	5178	0	0	3.7	0.4
TAR	99	V	300-150	351	0	0	3.1	0.4
TAX	99	V	300-150	275	0	0	2.7	0.3
TAY	99	V	300-150	380	0	0	3.3	-0.2
TCJ	99	V	300-150	22	0	0	4.6	2.2
TFF	99	V	300-150	80	0	0	3.5	0.0
TFL	99	V	300-150	1346	11	0	4.9	-0.1
TGW	99	V	300-150	894	2	0	6.4	0.2
THA	99	V	300-150	6411	1	0	4.2	0.3
THT	99	V	300-150	2058	2	0	5.6	0.4
THY	99	V	300-150	25645	3	0	4.5	0.1
TIV	99	V	300-150	34	0	0	4.1	0.7
TMN	99	V	300-150	434	0	0	3.6	0.5
TOM	99	V	300-150	4549	13	0	5.2	-0.1
TOR	99	V	300-150	49	0	0	2.7	-0.2
TRE	99	V	300-150	68	1	0	6.7	1.8
TRK	99	V	300-150	36	0	0	3.8	0.3
TSC	99	V	300-150	16018	0	0	3.4	0.2
TUA	99	V	300-150	190	0	0	3.2	0.2
TVJ	99	V	300-150	22	0	0	3.2	0.7
TVR	99	V	300-150	298	0	0	3.2	-0.2
TWY	99	V	300-150	1058	0	0	3.5	0.2
UAE	99	V	300-150	19161	0	0	3.3	0.0
UAF	99	V	300-150	58	0	0	5.5	-1.1

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
UAG	99	V	300-150	56	0	0	3.4	-0.7
UAL	99	V	300-150	79334	4	1	4.6	0.0
UBT	99	V	300-150	1155	12	0	5.5	-0.2
ULC	99	V	300-150	205	0	0	3.5	0.0
UNI	99	V	300-150	35	0	0	4.8	-0.3
UPS	99	V	300-150	4696	0	0	4.3	0.0
UZB	99	V	300-150	817	3	0	6.4	0.5
VAJ	99	V	300-150	29	0	0	4.0	-0.1
VCG	99	V	300-150	41	0	0	5.3	1.0
VCJ	99	V	300-150	117	0	0	3.6	0.9
VEL	99	V	300-150	56	0	0	5.5	0.3
VIR	99	V	300-150	20664	2	0	3.9	-0.1
VJA	99	V	300-150	36	0	0	3.7	-0.5
VJH	99	V	300-150	80	0	0	3.0	0.2
VJT	99	V	300-150	1867	0	0	3.5	0.3
VKG	99	V	300-150	198	0	0	3.0	0.4
VLZ	99	V	300-150	100	0	0	3.1	0.0
VOZ	99	V	300-150	498	0	0	3.1	0.2
VSV	99	V	300-150	412	0	0	3.2	0.4
VXS	99	V	300-150	25	0	0	3.1	-0.5
WFL	99	V	300-150	66	0	0	3.9	-1.2
WIN	99	V	300-150	495	0	0	3.6	0.5
WJA	99	V	300-150	4214	4	0	5.2	0.1
WWI	99	V	300-150	127	0	0	3.0	-0.1
XAX	99	V	300-150	870	0	0	3.4	0.3
XFL	99	V	300-150	33	0	0	2.9	0.8
XRO	99	V	300-150	38	0	0	3.9	0.5
YZR	99	V	300-150	50	0	0	3.5	0.3

4 EUCOS Area Monitoring Statistics

The following tables provide information on the quality of upper-air data and surface DRIFTER data over the EUCOS area as received at ECMWF during the month.

Tables 13, 14 (50 hPa level), 15, 16 (100 hPa level) 17, 18 (500 hPa level) 19 and 20 (850 hPa level) provide quality statistics for all TEMPSHIPS and PILOTSHIPS received during the month in the area $10\,°$N - $90\,°$N, $70\,°$W - $40\,°$E and for TEMPS and PILOTS from selected land stations within the same area. The statistics are in the same form as tables 10 and 11.
Tables 21-23 provides quality statistics of pressure and wind for all DRIFTER reports received in the area $10\,°$N - $90\,°$N, $70\,°$W - $40\,°$E. The statistics are in the same form as tables 4-6.

4.1 Table 13 - Radiosonde Monitoring Statistics (EUCOS): 50 hPa Geopotential height (metres)

```
RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
         LEVEL                 :  50 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	50	30	12.9	5.8
01001	12	Z	50	26	11.1	2.4
01028	00	Z	50	30	8.6	0.3
01028	12	Z	50	28	10.0	0.9
01400	12	Z	50	27	31.9	26.4
01400	00	Z	50	24	37.9	30.8
01415	00	Z	50	30	12.1	3.4
01415	12	Z	50	30	9.0	0.8
02591	00	Z	50	7	9.7	7.0
02591	12	Z	50	22	9.0	1.9
02836	00	Z	50	28	7.3	-2.1
02836	12	Z	50	32	9.0	-4.6
02963	12	Z	50	32	5.0	-1.4
02963	00	Z	50	31	7.4	-1.2
03005	00	Z	50	28	10.6	-5.7
03005	12	Z	50	29	11.2	-3.6
03238	00	Z	50	24	8.7	0.8
03238	12	Z	50	2	7.6	-7.2
03808	00	Z	50	29	5.8	-0.8
03808	12	Z	50	31	14.2	-4.8
03918	00	Z	50	30	10.8	-3.7
03953	00	Z	50	31	7.8	-0.8
03953	12	Z	50	31	9.8	-3.4
04018	12	Z	50	25	10.2	-0.3
04018	00	Z	50	21	10.0	-1.0
04220	12	Z	50	30	18.6	-15.2
04220	00	Z	50	28	33.6	-7.3
04270	00	Z	50	30	18.8	-15.3
04270	12	Z	50	31	24.0	-21.9
04320	00	Z	50	29	12.0	-6.3
04320	12	Z	50	29	16.9	-8.8
04339	00	Z	50	18	23.7	-21.1
04339	12	Z	50	17	30.7	-26.4
04360	00	Z	50	31	45.6	-43.2
04360	12	Z	50	29	45.0	-43.5
06011	12	Z	50	28	23.3	-4.8
06260	12	Z	50	8	7.7	3.4
06260	00	Z	50	31	6.8	-0.9
06610	00	Z	50	29	6.9	-1.7

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	50	32	9.0	0.7
07110	00	Z	50	27	14.4	-6.0
07110	12	Z	50	31	14.6	1.7
07510	00	Z	50	24	7.9	-3.1
07510	12	Z	50	28	9.6	-1.4
07645	00	Z	50	29	51.7	-50.3
07645	12	Z	50	29	49.2	-46.3
07761	00	Z	50	31	17.1	-5.8
07761	12	Z	50	31	14.8	1.6
08001	12	Z	50	31	5.8	-1.9
08001	00	Z	50	30	7.8	3.3
08221	00	Z	50	29	5.4	2.6
08221	12	Z	50	30	5.3	-0.3
082212	00	Z	50	0	0.0	0.0
08302	00	Z	50	28	9.9	-7.8
08302	12	Z	50	28	10.2	-8.5
08508	12	Z	50	23	7.0	-3.3
08522	12	Z	50	31	7.0	-4.5
085222	00	Z	50	0	0.0	0.0
10035	12	Z	50	31	8.5	-0.7
10035	00	Z	50	29	5.5	-1.2
10393	00	Z	50	31	8.2	-1.1
10393	12	Z	50	31	8.9	-3.0
10410	00	Z	50	31	9.0	-1.1
10410	12	Z	50	31	8.4	-5.0
10739	00	Z	50	31	16.9	-15.3
10739	12	Z	50	30	17.3	-14.6
11035	00	Z	50	31	7.3	1.7
11035	12	Z	50	31	11.1	2.2
12982	00	Z	50	31	6.8	4.1
12982	12	Z	50	31	7.4	0.8
16245	00	Z	50	30	5.1	-1.2
16245	12	Z	50	30	5.5	-1.2
16429	00	Z	50	31	5.8	1.4
16429	12	Z	50	31	7.6	-4.0
16622	00	Z	50	2	10.6	-1.8
16754	00	Z	50	13	12.9	-10.8
17607	00	Z	50	23	4.6	2.5
17607	12	Z	50	21	7.0	-1.2
26435	12	Z	50	3	8.6	-7.8
60018	12	Z	50	31	5.3	-3.2
60018	00	Z	50	31	4.7	2.2
7JUNA4	00	Z	50	0	0.0	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
7JUNA4	12	Z	50	3	76.8	72.3
9ZT9MR	12	Z	50	9	55.8	-44.8
9ZT9MR	00	Z	50	3	34.3	-31.3
ATGU3F	12	Z	50	7	30.3	-28.7
ATGU3F	00	Z	50	10	26.8	-24.4
CMA	12	Z	50	25	82.9	77.8
CMA	00	Z	50	15	116.0	99.5
FPUW5G	12	Z	50	18	10.4	-5.9
GKA32C	00	Z	50	1	8.3	-8.3
GKA32C	12	Z	50	0	0.0	0.0
GQBZLZ	12	Z	50	6	32.4	-28.2
GQBZLZ	00	Z	50	2	44.8	-44.8
JNKN7J	12	Z	50	11	36.4	24.0
JNKN7J	00	Z	50	9	34.6	32.1
KMPLHP	12	Z	50	9	144.0	119.0
KMPLHP	00	Z	50	7	13.4	1.3
LAGY8	12	Z	50	3	24.4	-21.6
LAGZ8	12	Z	50	3	47.2	19.7
LRYQE3	00	Z	50	5	10.8	4.1
LRYQE3	12	Z	50	4	143.5	138.4
SLKFEG	00	Z	50	5	15.0	-12.0
SLKFEG	12	Z	50	3	17.2	-14.6
TLH	00	Z	50	18	90.4	89.7
TLH	12	Z	50	24	95.9	95.6
WFF	00	Z	50	26	83.7	83.3
WFF	12	Z	50	27	85.9	85.2
XKQLWQ	12	Z	50	15	45.4	41.8
YLV96W	12	Z	50	0	0.0	0.0
YLV96W	00	Z	50	1	4.6	4.6

4.2 Table 14 - Radiosonde Monitoring Statistics (EUCOS): 50 hPa Wind (m/s)

```
RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : WIND (M/S)
         LEVEL                 :  50 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	50	25	2.8	-0.2	0.0
01001	12	V	50	26	3.3	0.6	-0.5
01028	00	V	50	25	3.0	-0.3	0.5
01028	12	V	50	28	3.0	0.3	0.3
01400	12	V	50	26	3.5	-0.2	-0.4
01400	00	V	50	19	3.5	0.5	-0.6
01415	00	V	50	23	3.6	-0.7	-0.3
01415	12	V	50	30	3.0	0.0	0.0
02591	00	V	50	7	4.5	-0.4	-0.6
02591	12	V	50	20	3.8	0.0	0.4
02836	00	V	50	0	0.0	0.0	0.0
02836	12	V	50	2	3.4	-0.9	-2.7
02963	12	V	50	6	3.0	0.9	1.5
02963	00	V	50	0	0.0	0.0	0.0
03005	00	V	50	22	3.5	-0.3	-0.4
03005	12	V	50	29	3.0	-0.4	0.3
03238	00	V	50	20	3.9	0.0	0.4
03238	12	V	50	2	1.6	-0.7	0.6
03808	00	V	50	24	3.3	0.4	0.3
03808	12	V	50	31	3.5	0.0	-0.9
03918	00	V	50	22	4.2	-0.2	-0.8
03953	00	V	50	24	2.3	0.1	-0.4
03953	12	V	50	31	3.0	0.2	0.1
04018	12	V	50	24	3.7	0.1	0.0
04018	00	V	50	18	3.8	2.1	0.4
04220	12	V	50	30	2.8	0.4	-0.1
04220	00	V	50	20	3.0	-0.2	0.1
04270	00	V	50	28	3.4	0.2	-0.5
04270	12	V	50	31	3.7	0.5	-0.2
04320	00	V	50	26	2.6	0.8	-0.5
04320	12	V	50	29	3.2	0.2	-0.1
04339	00	V	50	14	3.3	-0.4	-0.1
04339	12	V	50	17	3.1	0.0	0.3
04360	00	V	50	26	3.0	0.1	0.3
04360	12	V	50	29	3.6	0.0	-0.4
06011	12	V	50	28	3.3	0.0	0.7
06260	12	V	50	7	3.0	0.2	-1.2
06260	00	V	50	28	2.5	-0.1	-0.4
06610	00	V	50	27	3.0	-0.1	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	50	31	3.7	-0.9	0.4
07110	00	V	50	21	2.8	-0.3	0.0
07110	12	V	50	31	2.9	0.0	-0.9
07510	00	V	50	21	2.6	0.0	0.0
07510	12	V	50	28	2.5	0.3	0.4
07645	00	V	50	24	3.3	-0.6	-0.5
07645	12	V	50	29	3.2	-0.4	0.1
07761	00	V	50	28	3.0	-0.3	-0.3
07761	12	V	50	31	2.8	0.3	0.7
08001	12	V	50	30	3.0	-0.1	0.5
08001	00	V	50	28	3.0	-0.2	0.2
08221	00	V	50	21	3.1	-0.1	-0.6
08221	12	V	50	30	2.9	-0.3	0.0
082212	00	V	50	0	0.0	0.0	0.0
08302	00	V	50	23	3.0	-0.2	0.4
08302	12	V	50	27	3.7	0.0	-0.2
08508	12	V	50	21	3.0	-0.9	-0.7
08522	12	V	50	31	3.8	-0.4	0.0
085222	00	V	50	0	0.0	0.0	0.0
10035	12	V	50	30	3.0	-0.1	0.6
10035	00	V	50	27	2.8	0.2	-1.2
10393	00	V	50	30	2.4	-0.3	-0.1
10393	12	V	50	31	2.8	-0.3	0.1
10410	00	V	50	29	3.0	0.3	0.3
10410	12	V	50	31	3.0	-0.5	-0.4
10739	00	V	50	30	3.3	-0.3	0.0
10739	12	V	50	30	3.4	-0.4	0.6
11035	00	V	50	29	2.6	-0.3	-0.6
11035	12	V	50	31	2.8	0.0	0.3
12982	00	V	50	27	3.0	0.0	-0.3
12982	12	V	50	30	2.6	-0.1	0.1
16245	00	V	50	28	3.8	0.7	-0.2
16245	12	V	50	30	3.0	-0.3	0.4
16429	00	V	50	26	3.7	0.3	-0.4
16429	12	V	50	31	3.3	0.0	-0.5
16622	00	V	50	2	3.5	3.4	-0.3
16754	00	V	50	11	3.6	-0.7	1.1
17607	00	V	50	20	3.6	0.3	1.0
17607	12	V	50	21	4.0	0.8	-1.2
26435	12	V	50	0	0.0	0.0	0.0
60018	12	V	50	31	3.2	0.0	-0.3
60018	00	V	50	25	3.5	-0.1	1.4
7JUNA4	00	V	50	0	0.0	0.0	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
7JUNA4	12	V	50	3	3.0	-1.4	-1.2
9ZT9MR	12	V	50	9	3.0	0.2	0.4
9ZT9MR	00	V	50	3	2.4	1.9	-0.7
ATGU3F	12	V	50	7	2.6	0.0	1.7
ATGU3F	00	V	50	10	3.0	0.6	0.3
CMA	12	V	50	25	3.3	-0.6	-0.5
CMA	00	V	50	13	4.1	0.5	-0.6
FPUW5G	12	V	50	18	3.1	0.2	0.8
GKA32C	00	V	50	1	2.0	1.6	-1.2
GKA32C	12	V	50	0	0.0	0.0	0.0
GQBZLZ	12	V	50	6	2.3	-1.0	-0.8
GQBZLZ	00	V	50	2	3.2	0.8	0.8
JNKN7J	12	V	50	11	2.7	-0.5	0.5
JNKN7J	00	V	50	9	3.5	-0.1	0.7
KMPLHP	12	V	50	9	2.3	0.7	-0.3
KMPLHP	00	V	50	7	2.8	0.0	-0.1
LAGY8	12	V	50	3	4.9	2.5	-1.0
LAGZ8	12	V	50	3	3.3	1.3	0.0
LRYQE3	00	V	50	5	3.6	0.8	2.2
LRYQE3	12	V	50	4	4.0	-2.2	1.7
SLKFEG	00	V	50	5	2.3	0.5	-0.7
SLKFEG	12	V	50	3	2.8	0.5	1.7
TLH	00	V	50	17	4.0	-0.3	-1.1
TLH	12	V	50	24	3.3	0.3	-0.8
WFF	00	V	50	20	3.1	-0.7	0.1
WFF	12	V	50	27	3.3	0.2	0.8
XKQLWQ	12	V	50	15	3.0	-0.2	-1.1
YLV96W	12	V	50	0	0.0	0.0	0.0
YLV96W	00	V	50	1	2.3	0.2	2.3

4.3 Table 15 - Radiosonde Monitoring Statistics (EUCOS): 100 hPa Geopotential height (metres)

```
RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
         LEVEL                 : 100 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	100	30	9.6	3.0
01001	12	Z	100	26	10.4	-2.2
01028	00	Z	100	30	8.2	-5.0
01028	12	Z	100	28	9.6	-2.9
01400	12	Z	100	28	30.1	25.2
01400	00	Z	100	26	38.7	31.2
01415	00	Z	100	30	7.8	2.0
01415	12	Z	100	30	9.9	0.0
02591	00	Z	100	11	8.0	6.9
02591	12	Z	100	22	8.1	3.6
02836	00	Z	100	28	8.2	-4.2
02836	12	Z	100	32	7.5	-4.8
02963	12	Z	100	32	6.4	-2.3
02963	00	Z	100	31	7.1	-1.9
03005	00	Z	100	29	10.8	-6.8
03005	12	Z	100	31	11.1	-5.1
03238	00	Z	100	25	7.7	-0.8
03238	12	Z	100	2	6.4	-5.2
03808	00	Z	100	29	6.1	-2.5
03808	12	Z	100	31	13.5	-5.3
03918	00	Z	100	30	9.4	-4.5
03953	00	Z	100	31	8.3	-0.2
03953	12	Z	100	31	10.0	-4.4
04018	12	Z	100	26	8.0	-3.1
04018	00	Z	100	26	7.4	-3.4
04220	12	Z	100	30	16.3	-14.3
04220	00	Z	100	29	32.6	-6.7
04270	00	Z	100	30	17.8	-15.4
04270	12	Z	100	31	21.9	-19.9
04320	00	Z	100	30	10.7	-6.6
04320	12	Z	100	30	15.6	-8.9
04339	00	Z	100	24	21.8	-20.1
04339	12	Z	100	20	24.7	-22.1
04360	00	Z	100	31	38.4	-37.2
04360	12	Z	100	30	39.4	-38.1
06011	12	Z	100	29	21.4	-5.2
06260	12	Z	100	8	6.4	2.1
06260	00	Z	100	31	6.6	-1.7
06610	00	Z	100	32	7.6	-1.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	100	34	6.2	-0.7
07110	00	Z	100	28	13.3	-6.3
07110	12	Z	100	31	10.7	0.1
07510	00	Z	100	27	7.1	-3.1
07510	12	Z	100	29	7.8	-0.8
07645	00	Z	100	30	40.1	-39.0
07645	12	Z	100	29	38.1	-35.6
07761	00	Z	100	31	14.7	-6.1
07761	12	Z	100	31	11.7	1.7
08001	12	Z	100	31	5.1	-0.8
08001	00	Z	100	30	7.2	3.0
08221	00	Z	100	30	5.5	3.0
08221	12	Z	100	30	3.9	1.2
082212	00	Z	100	0	0.0	0.0
08302	00	Z	100	28	9.6	-7.8
08302	12	Z	100	28	8.6	-6.4
08508	12	Z	100	24	4.6	0.5
08522	12	Z	100	31	4.6	-0.1
085222	00	Z	100	0	0.0	0.0
10035	12	Z	100	31	6.9	-1.0
10035	00	Z	100	30	4.7	-0.8
10393	00	Z	100	31	6.7	-2.2
10393	12	Z	100	31	6.7	-2.4
10410	00	Z	100	31	7.1	-2.4
10410	12	Z	100	31	8.3	-4.8
10739	00	Z	100	31	16.4	-15.4
10739	12	Z	100	31	17.2	-15.3
11035	00	Z	100	31	6.6	0.8
11035	12	Z	100	31	7.8	2.2
12982	00	Z	100	31	5.4	3.2
12982	12	Z	100	31	5.3	1.3
16245	00	Z	100	30	4.7	-0.9
16245	12	Z	100	30	4.0	0.2
16429	00	Z	100	31	4.0	0.8
16429	12	Z	100	31	5.9	-0.8
16622	00	Z	100	3	13.1	-5.5
16754	00	Z	100	15	12.3	-10.2
17607	00	Z	100	23	3.8	1.9
17607	12	Z	100	21	5.2	-1.0
26435	12	Z	100	13	6.7	-3.5
60018	12	Z	100	31	3.8	0.6
60018	00	Z	100	31	5.9	3.4
7JUNA4	00	Z	100	0	0.0	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
7JUNA4	12	Z	100	3	41.3	36.6
9ZT9MR	12	Z	100	9	53.2	-42.4
9ZT9MR	00	Z	100	5	34.7	-32.4
ATGU3F	12	Z	100	8	28.1	-26.9
ATGU3F	00	Z	100	11	26.4	-24.2
CMA	12	Z	100	25	65.5	58.9
CMA	00	Z	100	17	72.0	68.8
FPUW5G	12	Z	100	19	7.1	0.3
GKA32C	00	Z	100	4	6.5	-5.8
GKA32C	12	Z	100	6	4.0	0.5
GQBZLZ	12	Z	100	6	31.1	-28.4
GQBZLZ	00	Z	100	2	47.3	-47.3
JNKN7J	12	Z	100	12	29.0	24.2
JNKN7J	00	Z	100	10	33.3	31.1
KMPLHP	12	Z	100	10	72.5	57.8
KMPLHP	00	Z	100	6	7.4	-0.6
LAGY8	12	Z	100	3	28.7	-24.3
LAGZ8	12	Z	100	3	42.0	27.6
LRYQE3	00	Z	100	5	7.5	-3.3
LRYQE3	12	Z	100	5	70.4	63.3
SLKFEG	00	Z	100	7	12.9	-7.2
SLKFEG	12	Z	100	5	6.9	-4.6
TLH	00	Z	100	23	69.4	68.9
TLH	12	Z	100	22	75.8	75.5
WFF	00	Z	100	28	62.4	62.2
WFF	12	Z	100	28	65.5	65.2
XKQLWQ	12	Z	100	16	33.4	29.3
YLV96W	12	Z	100	0	0.0	0.0
YLV96W	00	Z	100	2	20.0	9.2

4.4 Table 16 - Radiosonde Monitoring Statistics (EUCOS): 100 hPa Wind (m/s)

```
RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : WIND (M/S)
         LEVEL                 : 100 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	100	27	2.8	-0.3	0.3
01001	12	V	100	26	2.9	0.0	0.3
01028	00	V	100	25	2.3	0.1	0.3
01028	12	V	100	28	2.7	0.0	-0.3
01400	12	V	100	28	3.6	0.4	0.0
01400	00	V	100	24	3.0	0.3	0.2
01415	00	V	100	24	3.5	0.4	-0.2
01415	12	V	100	30	3.9	0.2	-0.1
02591	00	V	100	10	3.0	-1.0	-0.6
02591	12	V	100	22	3.3	-0.1	-1.1
02836	00	V	100	0	0.0	0.0	0.0
02836	12	V	100	9	3.7	1.1	-1.4
02963	12	V	100	14	2.3	0.4	0.6
02963	00	V	100	0	0.0	0.0	0.0
03005	00	V	100	23	4.0	0.0	-0.1
03005	12	V	100	29	3.3	-0.4	0.8
03238	00	V	100	21	3.9	-0.2	0.9
03238	12	V	100	2	5.2	2.8	0.1
03808	00	V	100	24	3.3	-0.3	0.1
03808	12	V	100	31	3.6	-0.3	0.6
03918	00	V	100	24	4.5	-1.6	-0.4
03953	00	V	100	28	3.4	0.3	-0.5
03953	12	V	100	31	3.7	0.1	0.5
04018	12	V	100	26	3.1	0.8	0.3
04018	00	V	100	25	4.5	-0.5	-0.5
04220	12	V	100	30	2.5	0.5	0.1
04220	00	V	100	29	2.6	-0.3	0.2
04270	00	V	100	29	4.0	-0.8	0.9
04270	12	V	100	31	3.1	-0.3	0.5
04320	00	V	100	29	2.6	-0.2	0.3
04320	12	V	100	30	2.6	-0.1	-0.9
04339	00	V	100	24	2.1	-0.1	-0.2
04339	12	V	100	20	2.4	-0.5	-0.6
04360	00	V	100	30	3.0	-0.5	0.2
04360	12	V	100	30	2.9	0.0	0.1
06011	12	V	100	29	3.5	0.4	0.1
06260	12	V	100	7	2.4	0.5	0.4
06260	00	V	100	28	3.4	-0.3	0.2
06610	00	V	100	30	3.4	-0.2	0.2

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	100	31	3.6	0.0	-0.1
07110	00	V	100	23	2.7	-0.2	-0.4
07110	12	V	100	31	3.3	-0.4	0.6
07510	00	V	100	23	2.9	-0.6	0.0
07510	12	V	100	29	3.0	-0.7	1.0
07645	00	V	100	26	3.6	-0.7	0.5
07645	12	V	100	29	3.5	0.3	0.8
07761	00	V	100	29	3.6	0.6	0.0
07761	12	V	100	31	3.5	0.2	0.4
08001	12	V	100	31	2.9	-0.6	0.2
08001	00	V	100	28	2.5	0.1	0.0
08221	00	V	100	26	2.5	0.1	-0.4
08221	12	V	100	30	2.9	-0.1	0.4
082212	00	V	100	0	0.0	0.0	0.0
08302	00	V	100	24	3.0	0.2	0.1
08302	12	V	100	28	3.5	0.5	-0.4
08508	12	V	100	22	3.8	-0.5	1.4
08522	12	V	100	31	3.2	0.0	0.2
085222	00	V	100	0	0.0	0.0	0.0
10035	12	V	100	30	3.4	0.6	0.2
10035	00	V	100	29	3.3	-0.5	0.4
10393	00	V	100	30	3.3	0.0	-0.5
10393	12	V	100	31	2.6	0.1	-0.4
10410	00	V	100	30	3.6	0.3	-0.3
10410	12	V	100	31	3.3	0.0	-0.1
10739	00	V	100	30	2.7	0.3	-0.2
10739	12	V	100	31	3.0	0.7	-0.7
11035	00	V	100	29	2.9	-0.2	-0.2
11035	12	V	100	31	2.8	-0.3	0.5
12982	00	V	100	30	2.8	-0.2	-0.5
12982	12	V	100	31	2.4	-0.1	0.0
16245	00	V	100	29	2.8	0.0	-0.1
16245	12	V	100	30	3.7	0.3	0.3
16429	00	V	100	30	3.0	0.3	0.4
16429	12	V	100	31	3.4	0.6	-0.3
16622	00	V	100	3	3.1	0.9	1.7
16754	00	V	100	13	3.0	0.1	-0.7
17607	00	V	100	22	3.3	-0.6	0.4
17607	12	V	100	21	4.0	0.8	0.1
26435	12	V	100	8	2.2	0.1	-0.3
60018	12	V	100	31	3.2	0.2	-0.3
60018	00	V	100	27	2.8	0.4	0.2
7JUNA4	00	V	100	0	0.0	0.0	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
7JUNA4	12	V	100	3	4.0	0.9	-1.0
9ZT9MR	12	V	100	9	2.5	-0.7	0.0
9ZT9MR	00	V	100	5	4.9	1.4	-1.5
ATGU3F	12	V	100	8	2.1	-0.6	-0.3
ATGU3F	00	V	100	11	3.0	0.6	0.0
CMA	12	V	100	25	3.7	-0.2	0.3
CMA	00	V	100	14	3.3	-0.9	1.4
FPUW5G	12	V	100	19	3.4	0.0	0.7
GKA32C	00	V	100	4	3.5	0.3	2.0
GKA32C	12	V	100	6	3.2	0.2	-1.1
GQBZLZ	12	V	100	6	3.0	-0.4	0.1
GQBZLZ	00	V	100	2	6.2	-3.5	0.0
JNKN7J	12	V	100	12	4.7	1.1	0.9
JNKN7J	00	V	100	9	3.6	0.1	0.6
KMPLHP	12	V	100	10	4.8	-0.4	1.2
KMPLHP	00	V	100	6	3.1	-0.5	-0.5
LAGY8	12	V	100	3	2.9	-0.8	1.4
LAGZ8	12	V	100	3	6.3	-5.2	2.5
LRYQE3	00	V	100	5	3.0	1.0	0.0
LRYQE3	12	V	100	5	3.4	0.9	0.6
SLKFEG	00	V	100	7	2.4	0.6	1.3
SLKFEG	12	V	100	5	2.8	-1.6	0.8
TLH	00	V	100	22	3.6	0.1	-0.8
TLH	12	V	100	22	3.6	0.1	0.1
WFF	00	V	100	21	3.5	0.2	1.3
WFF	12	V	100	28	5.0	0.5	-1.0
XKQLWQ	12	V	100	16	4.0	-0.4	1.4
YLV96W	12	V	100	0	0.0	0.0	0.0
YLV96W	00	V	100	2	1.4	-0.7	0.5

4.5 Table 17 - Radiosonde Monitoring Statistics (EUCOS): 500 hPa Geopotential height (metres)

```
RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
         LEVEL                 : 500 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	500	31	11.9	10.4
01001	12	Z	500	31	5.0	1.0
01028	00	Z	500	30	3.8	0.2
01028	12	Z	500	28	6.1	1.4
01400	12	Z	500	28	29.9	26.1
01400	00	Z	500	27	40.3	33.2
01415	00	Z	500	30	5.8	4.6
01415	12	Z	500	30	4.6	3.3
02591	00	Z	500	19	7.9	7.2
02591	12	Z	500	22	7.9	7.5
02836	00	Z	500	28	3.6	1.2
02836	12	Z	500	32	2.7	0.9
02963	12	Z	500	31	4.5	1.2
02963	00	Z	500	31	3.4	1.5
03005	00	Z	500	30	4.2	-2.1
03005	12	Z	500	31	7.5	-2.7
03238	00	Z	500	25	4.9	2.2
03238	12	Z	500	2	8.5	-4.6
03808	00	Z	500	29	4.3	2.6
03808	12	Z	500	31	11.1	1.0
03918	00	Z	500	31	4.4	0.4
03953	00	Z	500	31	3.4	2.4
03953	12	Z	500	31	3.5	1.5
04018	12	Z	500	26	3.5	1.1
04018	00	Z	500	26	3.6	1.2
04220	12	Z	500	31	4.4	-2.7
04220	00	Z	500	30	4.6	-2.0
04270	00	Z	500	31	10.6	-9.5
04270	12	Z	500	31	11.2	-10.2
04320	00	Z	500	31	5.4	2.3
04320	12	Z	500	30	14.5	0.8
04339	00	Z	500	28	11.9	-8.0
04339	12	Z	500	28	10.7	-8.6
04360	00	Z	500	31	13.1	-12.5
04360	12	Z	500	30	14.8	-13.7
06011	12	Z	500	31	7.1	-1.2
06260	12	Z	500	9	3.7	1.8
06260	00	Z	500	31	3.2	1.0
06610	00	Z	500	33	2.1	1.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	500	35	2.7	1.0
07110	00	Z	500	30	6.3	1.1
07110	12	Z	500	31	6.7	5.3
07510	00	Z	500	30	4.3	0.8
07510	12	Z	500	30	5.2	3.1
07645	00	Z	500	30	12.7	-11.8
07645	12	Z	500	33	10.6	-9.6
07761	00	Z	500	31	6.0	-2.5
07761	12	Z	500	30	4.5	0.2
08001	12	Z	500	31	3.7	3.0
08001	00	Z	500	30	4.5	4.2
08221	00	Z	500	30	4.5	3.9
08221	12	Z	500	30	4.1	3.4
082212	00	Z	500	0	0.0	0.0
08302	00	Z	500	28	6.7	-6.1
08302	12	Z	500	28	8.2	-7.2
08508	12	Z	500	24	4.1	3.4
08522	12	Z	500	31	7.1	6.7
085222	00	Z	500	1	1.5	1.5
10035	12	Z	500	30	2.7	1.1
10035	00	Z	500	30	3.7	2.5
10393	00	Z	500	31	2.2	1.1
10393	12	Z	500	32	2.0	1.0
10410	00	Z	500	31	2.0	0.3
10410	12	Z	500	31	2.9	0.0
10739	00	Z	500	31	13.6	-13.4
10739	12	Z	500	32	15.6	-14.6
11035	00	Z	500	31	3.3	1.3
11035	12	Z	500	31	5.6	4.4
12982	00	Z	500	31	3.4	2.5
12982	12	Z	500	31	3.8	2.1
16245	00	Z	500	30	3.2	2.3
16245	12	Z	500	31	3.4	2.0
16429	00	Z	500	31	3.6	3.2
16429	12	Z	500	31	4.3	3.8
16622	00	Z	500	3	5.6	2.6
16754	00	Z	500	14	8.9	-5.2
17607	00	Z	500	23	3.4	2.8
17607	12	Z	500	21	4.8	3.3
26435	12	Z	500	15	2.3	0.4
60018	12	Z	500	31	3.2	2.5
60018	00	Z	500	31	3.7	2.5
7JUNA4	00	Z	500	2	35.6	32.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
7JUNA4	12	Z	500	3	23.5	19.8
9ZT9MR	12	Z	500	9	43.5	-29.9
9ZT9MR	00	Z	500	5	19.0	-17.9
ATGU3F	12	Z	500	8	16.2	-14.6
ATGU3F	00	Z	500	11	14.8	-12.3
CMA	12	Z	500	10	25.4	25.2
CMA	00	Z	500	4	21.2	20.9
FPUW5G	12	Z	500	19	5.0	-0.3
GKA32C	00	Z	500	6	3.4	0.5
GKA32C	12	Z	500	7	3.7	2.9
GQBZLZ	12	Z	500	9	13.5	-11.8
GQBZLZ	00	Z	500	6	16.0	-12.7
JNKN7J	12	Z	500	12	35.6	35.1
JNKN7J	00	Z	500	11	43.8	41.7
KMPLHP	12	Z	500	10	7.2	2.9
KMPLHP	00	Z	500	8	6.8	-3.5
LAGY8	12	Z	500	3	35.2	-30.0
LAGZ8	12	Z	500	3	43.6	14.8
LRYQE3	00	Z	500	5	8.0	-6.4
LRYQE3	12	Z	500	5	11.5	-5.9
SLKFEG	00	Z	500	7	10.0	1.2
SLKFEG	12	Z	500	5	11.8	10.7
TLH	00	Z	500	6	17.7	17.3
TLH	12	Z	500	12	19.7	19.5
WFF	00	Z	500	8	20.0	20.0
WFF	12	Z	500	10	20.1	19.2
XKQLWQ	12	Z	500	16	10.4	9.4
YLV96W	12	Z	500	3	5.9	3.1
YLV96W	00	Z	500	5	6.6	-1.2

4.6 Table 18 - Radiosonde Monitoring Statistics (EUCOS): 500 hPa Wind (m/s)

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RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : WIND (M/S)
         LEVEL                 : 500 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	500	30	3.0	-0.2	-0.2
01001	12	V	500	31	2.9	0.1	-0.2
01028	00	V	500	29	2.6	-0.1	0.1
01028	12	V	500	28	1.9	0.3	0.0
01400	12	V	500	28	2.3	0.2	0.0
01400	00	V	500	26	2.5	-0.1	-0.5
01415	00	V	500	29	2.8	0.5	-0.3
01415	12	V	500	30	2.9	0.8	0.4
02591	00	V	500	19	2.4	-0.4	0.3
02591	12	V	500	22	2.2	0.7	-0.3
02836	00	V	500	24	3.2	0.7	-0.3
02836	12	V	500	28	5.4	-0.6	-0.8
02963	12	V	500	30	2.0	-0.2	0.3
02963	00	V	500	27	2.3	-0.6	-0.4
03005	00	V	500	28	2.8	0.2	0.1
03005	12	V	500	30	2.7	0.0	0.1
03238	00	V	500	25	2.7	0.7	-0.6
03238	12	V	500	2	2.1	1.6	-0.7
03808	00	V	500	28	2.6	-0.3	0.2
03808	12	V	500	31	2.3	-0.6	-0.2
03918	00	V	500	30	2.5	0.4	0.5
03953	00	V	500	30	3.3	0.6	0.2
03953	12	V	500	31	3.0	0.5	0.6
04018	12	V	500	26	3.0	-0.1	-0.1
04018	00	V	500	25	2.6	-0.2	0.4
04220	12	V	500	31	2.4	0.3	0.4
04220	00	V	500	30	3.3	0.6	0.5
04270	00	V	500	30	3.2	-0.7	-0.5
04270	12	V	500	31	3.0	0.9	-0.6
04320	00	V	500	30	2.5	0.5	0.0
04320	12	V	500	30	2.6	0.1	0.1
04339	00	V	500	28	3.7	0.4	-0.4
04339	12	V	500	28	2.8	0.3	0.3
04360	00	V	500	30	2.9	-0.2	-0.4
04360	12	V	500	30	2.8	0.3	0.2
06011	12	V	500	31	2.9	0.0	-0.2
06260	12	V	500	7	1.8	-0.1	0.0
06260	00	V	500	29	2.5	0.8	-0.1
06610	00	V	500	30	2.2	-0.3	-0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	500	31	2.1	-0.1	0.1
07110	00	V	500	29	2.5	-0.2	-0.6
07110	12	V	500	31	2.4	-0.4	0.7
07510	00	V	500	27	2.4	-0.4	0.3
07510	12	V	500	29	1.8	0.0	-0.2
07645	00	V	500	30	2.0	-0.4	-0.1
07645	12	V	500	31	2.5	0.2	-0.3
07761	00	V	500	30	2.8	-0.4	0.2
07761	12	V	500	30	2.1	0.1	-0.2
08001	12	V	500	31	2.1	0.1	-0.1
08001	00	V	500	29	2.1	0.1	-0.3
08221	00	V	500	29	2.3	0.2	-0.1
08221	12	V	500	30	2.3	0.1	-0.1
082212	00	V	500	0	0.0	0.0	0.0
08302	00	V	500	28	2.3	0.4	0.0
08302	12	V	500	28	2.7	-0.3	-0.5
08508	12	V	500	22	2.5	0.3	-0.3
08522	12	V	500	31	1.7	0.1	0.3
085222	00	V	500	1	7.5	-0.8	-7.5
10035	12	V	500	30	2.5	0.3	-0.1
10035	00	V	500	29	2.5	-0.1	-0.5
10393	00	V	500	30	2.3	0.1	-0.1
10393	12	V	500	31	2.8	0.2	-0.3
10410	00	V	500	30	2.2	0.3	-0.3
10410	12	V	500	31	2.0	0.0	0.0
10739	00	V	500	30	2.0	0.2	-0.2
10739	12	V	500	31	2.1	0.2	-0.1
11035	00	V	500	29	2.3	-0.2	0.2
11035	12	V	500	31	1.8	0.1	-0.2
12982	00	V	500	30	2.6	-0.4	0.1
12982	12	V	500	31	2.8	0.7	0.2
16245	00	V	500	29	2.9	0.4	0.2
16245	12	V	500	31	2.7	0.1	0.7
16429	00	V	500	30	2.0	-0.1	-0.2
16429	12	V	500	31	2.0	0.2	0.2
16622	00	V	500	3	1.7	0.1	-0.8
16754	00	V	500	13	2.5	-0.4	0.6
17607	00	V	500	22	1.8	-0.2	0.4
17607	12	V	500	21	1.7	0.4	-0.5
26435	12	V	500	15	3.3	-0.5	0.8
60018	12	V	500	31	2.0	0.4	0.1
60018	00	V	500	30	2.2	0.4	-0.5
7JUNA4	00	V	500	2	4.5	-0.6	-3.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
7JUNA4	12	V	500	3	3.1	-0.3	2.3
9ZT9MR	12	V	500	9	2.4	0.7	0.0
9ZT9MR	00	V	500	5	2.4	0.7	0.6
ATGU3F	12	V	500	8	2.1	-0.1	0.1
ATGU3F	00	V	500	11	1.7	0.3	-0.1
CMA	12	V	500	10	2.4	-0.2	-0.3
CMA	00	V	500	4	3.1	-0.2	-0.4
FPUW5G	12	V	500	19	2.8	0.6	-0.6
GKA32C	00	V	500	6	1.1	0.2	0.0
GKA32C	12	V	500	7	1.3	-0.3	0.0
GQBZLZ	12	V	500	9	7.8	-0.5	-3.1
GQBZLZ	00	V	500	6	1.6	-0.5	0.0
JNKN7J	12	V	500	12	2.4	0.9	0.2
JNKN7J	00	V	500	10	2.0	-0.3	-0.3
KMPLHP	12	V	500	10	2.3	1.1	0.8
KMPLHP	00	V	500	8	2.2	-0.1	0.6
LAGY8	12	V	500	3	1.4	0.3	0.8
LAGZ8	12	V	500	3	2.9	0.6	1.4
LRYQE3	00	V	500	5	3.0	0.9	0.0
LRYQE3	12	V	500	5	1.7	0.2	0.4
SLKFEG	00	V	500	7	2.2	-0.4	-0.9
SLKFEG	12	V	500	5	1.3	0.6	0.0
TLH	00	V	500	6	2.2	0.8	-0.1
TLH	12	V	500	11	3.3	-0.2	-0.4
WFF	00	V	500	8	1.4	0.4	-0.2
WFF	12	V	500	10	2.9	-0.3	-0.3
XKQLWQ	12	V	500	16	2.3	-0.1	-0.2
YLV96W	12	V	500	3	1.4	-0.4	0.8
YLV96W	00	V	500	5	2.7	-1.6	0.6

4.7 Table 19 - Radiosonde Monitoring Statistics (EUCOS): 850 hPa Geopotential height (metres)

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RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE     : ECMWF
         ELEMENT MONITORED     : GEOPOTENTIAL HEIGHT (METRES)
         LEVEL                 : 850 HPA
         AREA                  : 0 - 90N, 100W - 40E
         PERIOD                : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	850	31	9.4	8.8
01001	12	Z	850	31	3.7	1.0
01028	00	Z	850	30	2.9	-0.1
01028	12	Z	850	28	5.4	1.9
01400	12	Z	850	28	30.0	25.6
01400	00	Z	850	27	40.7	33.3
01415	00	Z	850	30	3.9	3.4
01415	12	Z	850	30	4.0	3.3
02591	00	Z	850	19	7.3	6.8
02591	12	Z	850	22	6.3	5.9
02836	00	Z	850	28	2.0	0.5
02836	12	Z	850	30	1.9	0.2
02963	12	Z	850	31	3.1	1.4
02963	00	Z	850	31	2.2	1.4
03005	00	Z	850	30	4.0	-1.5
03005	12	Z	850	31	8.4	-2.4
03238	00	Z	850	25	3.1	2.4
03238	12	Z	850	2	1.4	-1.3
03808	00	Z	850	29	2.8	1.8
03808	12	Z	850	31	12.4	-0.4
03918	00	Z	850	31	2.9	0.5
03953	00	Z	850	32	2.1	0.5
03953	12	Z	850	31	3.6	0.1
04018	12	Z	850	27	2.7	1.5
04018	00	Z	850	27	2.6	1.8
04220	12	Z	850	31	3.1	-1.9
04220	00	Z	850	30	2.7	-0.8
04270	00	Z	850	31	9.4	-8.2
04270	12	Z	850	31	9.5	-7.9
04320	00	Z	850	31	5.5	3.4
04320	12	Z	850	30	13.5	0.2
04339	00	Z	850	27	10.3	-9.1
04339	12	Z	850	28	11.8	-9.6
04360	00	Z	850	31	8.1	-7.3
04360	12	Z	850	31	8.0	-7.1
06011	12	Z	850	31	4.1	-1.4
06260	12	Z	850	9	1.8	0.4
06260	00	Z	850	31	2.3	0.0
06610	00	Z	850	33	2.1	-0.1

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	850	35	2.0	-0.3
07110	00	Z	850	32	2.3	0.3
07110	12	Z	850	31	2.3	0.4
07510	00	Z	850	30	2.5	-1.1
07510	12	Z	850	30	2.5	-0.6
07645	00	Z	850	31	5.3	-4.5
07645	12	Z	850	33	3.6	-3.0
07761	00	Z	850	31	7.0	-6.3
07761	12	Z	850	32	6.2	-5.3
08001	12	Z	850	31	2.4	0.9
08001	00	Z	850	30	2.5	1.6
08221	00	Z	850	30	2.0	1.2
08221	12	Z	850	30	2.5	1.8
082212	00	Z	850	1	94.3	-94.3
08302	00	Z	850	28	8.6	-8.2
08302	12	Z	850	28	8.5	-8.3
08508	12	Z	850	24	2.4	1.8
08522	12	Z	850	31	3.8	3.5
085222	00	Z	850	1	10.6	-10.6
10035	12	Z	850	30	1.8	0.2
10035	00	Z	850	30	1.4	0.3
10393	00	Z	850	31	2.1	-0.9
10393	12	Z	850	32	1.6	-0.6
10410	00	Z	850	31	2.3	-1.0
10410	12	Z	850	31	2.0	-0.5
10739	00	Z	850	31	14.9	-14.7
10739	12	Z	850	32	17.0	-16.1
11035	00	Z	850	31	3.1	-1.0
11035	12	Z	850	31	2.1	1.0
12982	00	Z	850	31	1.8	0.3
12982	12	Z	850	31	2.9	-0.3
16245	00	Z	850	30	2.6	2.1
16245	12	Z	850	31	2.5	1.9
16429	00	Z	850	31	2.2	1.3
16429	12	Z	850	31	2.3	1.9
16622	00	Z	850	4	4.2	3.8
16754	00	Z	850	18	5.7	-5.0
17607	00	Z	850	23	2.6	1.3
17607	12	Z	850	21	2.8	1.9
26435	12	Z	850	15	2.3	-0.9
60018	12	Z	850	31	2.3	1.3
60018	00	Z	850	31	2.2	0.8
7JUNA4	00	Z	850	2	36.9	34.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
7JUNA4	12	Z	850	3	24.8	22.5
9ZT9MR	12	Z	850	10	16.7	-14.3
9ZT9MR	00	Z	850	5	21.8	-19.3
ATGU3F	12	Z	850	8	14.7	-13.4
ATGU3F	00	Z	850	12	15.4	-14.1
CMA	12	Z	850	5	22.7	22.3
CMA	00	Z	850	9	22.2	22.0
FPUW5G	12	Z	850	19	5.0	-2.6
GKA32C	00	Z	850	6	5.4	1.6
GKA32C	12	Z	850	7	2.7	2.0
GQBZLZ	12	Z	850	9	9.5	-5.5
GQBZLZ	00	Z	850	6	14.8	-11.1
JNKN7J	12	Z	850	12	40.4	40.3
JNKN7J	00	Z	850	11	51.0	48.0
KMPLHP	12	Z	850	11	4.5	0.6
KMPLHP	00	Z	850	9	5.8	-1.2
LAGY8	12	Z	850	3	36.7	-31.0
LAGZ8	12	Z	850	3	44.0	19.6
LRYQE3	00	Z	850	5	6.6	-4.7
LRYQE3	12	Z	850	6	8.9	-6.4
SLKFEG	00	Z	850	7	9.7	3.7
SLKFEG	12	Z	850	5	10.0	8.7
TLH	00	Z	850	4	6.3	3.3
TLH	12	Z	850	6	7.0	5.7
WFF	00	Z	850	3	11.9	11.8
WFF	12	Z	850	6	12.8	12.7
XKQLWQ	12	Z	850	16	3.9	1.8
YLV96W	12	Z	850	3	7.1	-0.9
YLV96W	00	Z	850	5	6.6	3.9

4.8 Table 20 - Radiosonde Monitoring Statistics (EUCOS): 850 hPa Wind (m/s)

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RADIOSONDE MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE      : ECMWF
         ELEMENT MONITORED      : WIND (M/S)
         LEVEL                  : 850 HPA
         AREA                   : 0 - 90N, 100W - 40E
         PERIOD                 : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD
```

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	850	30	4.0	0.1	-0.6
01001	12	V	850	31	3.1	-0.7	-0.2
01028	00	V	850	29	3.0	0.3	-0.8
01028	12	V	850	28	2.6	0.3	-0.5
01400	12	V	850	28	1.9	0.0	0.0
01400	00	V	850	26	2.2	0.0	-0.2
01415	00	V	850	29	1.9	0.2	0.3
01415	12	V	850	30	2.4	-0.5	0.1
02591	00	V	850	19	1.8	0.6	-0.4
02591	12	V	850	22	2.8	-0.4	-0.3
02836	00	V	850	27	2.3	0.0	0.5
02836	12	V	850	29	3.0	-0.8	0.0
02963	12	V	850	31	2.1	0.4	-0.4
02963	00	V	850	30	2.1	-0.3	0.7
03005	00	V	850	28	2.3	-0.2	0.0
03005	12	V	850	30	2.5	0.2	0.4
03238	00	V	850	25	2.1	-0.4	-0.2
03238	12	V	850	2	1.9	-0.7	-1.5
03808	00	V	850	28	2.5	0.1	-0.3
03808	12	V	850	31	2.4	0.2	-0.1
03918	00	V	850	30	2.2	0.3	0.0
03953	00	V	850	30	2.3	-0.5	0.2
03953	12	V	850	31	3.3	-0.6	0.2
04018	12	V	850	26	2.9	0.2	0.2
04018	00	V	850	26	2.1	-0.2	0.2
04220	12	V	850	31	2.4	0.1	-0.1
04220	00	V	850	30	3.7	0.6	-0.4
04270	00	V	850	30	4.6	0.9	0.3
04270	12	V	850	31	4.7	0.6	1.0
04320	00	V	850	30	3.4	0.3	-0.2
04320	12	V	850	30	3.8	-1.8	0.1
04339	00	V	850	27	6.2	1.6	1.4
04339	12	V	850	28	4.8	1.5	1.7
04360	00	V	850	30	7.1	3.0	0.3
04360	12	V	850	30	6.2	2.8	0.4
06011	12	V	850	31	3.4	-0.2	-0.8
06260	12	V	850	7	1.6	-0.2	-0.7
06260	00	V	850	30	2.1	0.1	-0.4
06610	00	V	850	30	2.8	1.0	0.7

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	850	31	2.9	0.4	-0.1
07110	00	V	850	30	2.6	-0.8	-0.6
07110	12	V	850	31	2.0	0.1	-0.2
07510	00	V	850	27	2.4	0.1	-0.7
07510	12	V	850	29	2.8	-0.2	0.2
07645	00	V	850	30	2.4	-0.3	0.5
07645	12	V	850	31	2.8	0.1	-0.2
07761	00	V	850	30	2.2	0.1	-0.1
07761	12	V	850	31	2.8	-0.5	-0.2
08001	12	V	850	31	2.3	-0.1	-0.3
08001	00	V	850	29	2.5	0.4	0.9
08221	00	V	850	29	3.0	0.4	0.8
08221	12	V	850	30	2.1	-0.1	0.2
082212	00	V	850	1	11.6	2.1	-11.4
08302	00	V	850	28	2.6	0.2	-0.1
08302	12	V	850	28	2.4	0.5	-0.4
08508	12	V	850	22	2.9	-0.1	0.6
08522	12	V	850	31	3.2	-0.2	-0.6
085222	00	V	850	1	3.1	-2.2	2.2
10035	12	V	850	30	1.8	0.1	-0.3
10035	00	V	850	29	2.5	-0.2	-0.7
10393	00	V	850	30	1.9	-0.5	0.3
10393	12	V	850	31	2.6	0.2	-0.4
10410	00	V	850	30	2.7	-0.2	-0.2
10410	12	V	850	31	1.6	-0.1	-0.1
10739	00	V	850	30	2.7	-0.4	0.0
10739	12	V	850	31	2.7	-0.6	-0.6
11035	00	V	850	29	2.4	-0.4	-0.3
11035	12	V	850	31	2.0	0.4	0.2
12982	00	V	850	30	3.1	0.7	0.3
12982	12	V	850	31	1.9	0.2	0.1
16245	00	V	850	29	3.4	0.0	0.1
16245	12	V	850	31	2.4	-0.3	0.0
16429	00	V	850	30	2.1	0.4	0.1
16429	12	V	850	31	2.3	0.1	-0.4
16622	00	V	850	4	1.8	-0.3	-0.1
16754	00	V	850	18	1.8	0.0	-0.5
17607	00	V	850	22	2.6	0.2	0.3
17607	12	V	850	21	2.7	0.6	-0.4
26435	12	V	850	15	1.9	-0.1	0.1
60018	12	V	850	31	3.3	0.8	1.3
60018	00	V	850	30	4.2	1.8	1.0
7JUNA4	00	V	850	2	3.9	2.3	1.9

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
7JUNA4	12	V	850	3	1.6	-0.4	-0.8
9ZT9MR	12	V	850	10	3.5	-0.2	0.1
9ZT9MR	00	V	850	5	1.7	-0.4	0.1
ATGU3F	12	V	850	8	10.1	-1.7	-0.4
ATGU3F	00	V	850	12	3.3	0.7	-0.1
CMA	12	V	850	5	1.7	-0.5	0.3
CMA	00	V	850	9	2.2	-0.6	-0.8
FPUW5G	12	V	850	19	2.9	-0.1	0.2
GKA32C	00	V	850	6	1.8	-0.8	-0.7
GKA32C	12	V	850	7	2.4	0.6	0.2
GQBZLZ	12	V	850	9	4.5	-0.7	-1.7
GQBZLZ	00	V	850	6	6.7	3.6	-0.8
JNKN7J	12	V	850	12	2.1	0.1	0.1
JNKN7J	00	V	850	10	2.6	0.1	-0.2
KMPLHP	12	V	850	11	2.8	-0.6	0.7
KMPLHP	00	V	850	9	1.5	-0.9	-0.2
LAGY8	12	V	850	3	1.6	-0.7	0.2
LAGZ8	12	V	850	3	2.8	-0.9	-0.7
LRYQE3	00	V	850	5	1.7	0.3	-0.2
LRYQE3	12	V	850	6	1.9	0.2	0.6
SLKFEG	00	V	850	7	2.4	0.3	-1.3
SLKFEG	12	V	850	5	2.1	0.6	1.0
TLH	00	V	850	4	4.9	1.5	1.9
TLH	12	V	850	5	2.3	1.5	-1.0
WFF	00	V	850	3	2.7	-0.3	0.5
WFF	12	V	850	6	2.2	0.5	0.9
XKQLWQ	12	V	850	16	2.2	-0.3	0.2
YLV96W	12	V	850	3	1.3	-0.8	0.3
YLV96W	00	V	850	5	3.1	1.3	-1.1

4.9 Table 21 - Drifter Monitoring Statistics (EUCOS): Surface pressure (hpa)

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DRIFTER MONITORING STATISTICS (EUCOS)
         MONITORING CENTRE      : ECMWF
         ELEMENT MONITORED      : SURFACE PRESSURE (HPA)
         AREA                   : 10N - 90N, 70W - 40E
         PERIOD                 : OCT 2026
         STANDARD OF COMPARISON: FIRST-GUESS FIELD


TIME = 99 => AVERAGE OF ALL OBSERVATIONS
GROSS ERROR LIMIT = 15 HPA
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WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
1000049	99	P	SUR	22	-67	175	0	0.2	0.3	0.4
1000050	99	P	SUR	22	-65	448	0	0.4	-0.1	0.4
1000051	99	P	SUR	28	-68	1297	0	0.7	0.0	0.7
1300130	99	P	SUR	28	-16	728	0	0.3	0.3	0.5
1300131	99	P	SUR	28	-17	730	0	0.4	0.4	0.5
1301622	99	P	SUR	29	-36	743	0	0.3	0.0	0.3
1301726	99	P	SUR	34	-52	13	0	0.2	0.0	0.2
1301782	99	P	SUR	46	-10	742	0	0.3	0.0	0.3
1301784	99	P	SUR	17	-25	691	0	0.3	-2.2	2.2
1301785	99	P	SUR	29	-27	742	0	0.3	0.0	0.3
1301805	99	P	SUR	61	-39	742	0	1.1	-0.3	1.1
1301806	99	P	SUR	51	-32	738	0	0.4	0.0	0.5
1301809	99	P	SUR	51	-16	741	0	0.4	0.1	0.4
1301810	99	P	SUR	25	-49	742	0	0.4	-0.3	0.5
1301814	99	P	SUR	26	-43	741	0	0.4	-0.1	0.4
1301819	99	P	SUR	35	-53	742	0	0.4	-0.5	0.7
1301823	99	P	SUR	34	-55	742	0	0.4	-0.1	0.4
1401617	99	P	SUR	56	-38	735	0	0.4	0.1	0.4
1801560	99	P	SUR	30	-61	2941	0	0.4	-0.1	0.4
1801590	99	P	SUR	30	-68	3773	0	0.4	-0.2	0.5
1801599	99	P	SUR	28	-60	2011	0	0.3	0.0	0.3
1801600	99	P	SUR	17	-66	2473	0	0.4	0.0	0.4
1801607	99	P	SUR	19	-67	2322	0	0.4	0.4	0.5
1801670	99	P	SUR	49	-6	41	0	0.3	0.4	0.5
1801675	99	P	SUR	63	-20	720	0	0.4	0.2	0.4
1801695	99	P	SUR	48	-28	742	0	0.4	-0.4	0.6
1801716	99	P	SUR	30	-45	742	0	0.6	0.6	0.8
1801732	99	P	SUR	28	-21	742	0	0.3	-0.1	0.3
1801777	99	P	SUR	36	-36	738	0	0.4	0.0	0.4
1801814	99	P	SUR	42	-59	733	0	0.5	-0.1	0.5
1801943	99	P	SUR	45	-43	722	81	1.4	0.3	1.4
1801944	99	P	SUR	44	-54	725	0	0.5	-0.2	0.5
1801945	99	P	SUR	42	-27	728	8	3.6	0.3	3.6
1801946	99	P	SUR	49	-10	153	126	4.8	-4.3	6.4
1801969	99	P	SUR	40	1	124	0	0.4	-0.2	0.5
1802010	99	P	SUR	41	10	81	0	0.3	0.0	0.3

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
2000980	99	P	SUR	17	-66	370	0	0.4	-0.1	0.5
2801970	99	P	SUR	21	-36	741	0	0.3	-0.4	0.5
2801979	99	P	SUR	51	-52	742	0	0.4	-0.2	0.5
2801980	99	P	SUR	49	-52	742	0	0.4	0.1	0.4
2801986	99	P	SUR	61	-12	8	0	0.2	0.3	0.3
2802007	99	P	SUR	21	-59	742	0	0.3	0.0	0.3
2802010	99	P	SUR	27	-69	742	0	0.4	-0.3	0.5
2802011	99	P	SUR	32	-25	742	0	0.2	-0.3	0.4
2802022	99	P	SUR	29	-40	742	0	0.3	-0.2	0.4
2802100	99	P	SUR	76	8	701	0	0.4	0.4	0.5
2802124	99	P	SUR	24	-44	685	0	0.4	-0.1	0.4
2802242	99	P	SUR	47	-17	597	21	3.0	0.8	3.1
2802243	99	P	SUR	42	-28	719	0	0.4	0.3	0.5
2802244	99	P	SUR	60	-4	726	0	0.3	0.1	0.3
2802246	99	P	SUR	49	-27	728	0	0.4	0.2	0.5
2802247	99	P	SUR	64	-4	734	0	0.4	0.2	0.4
2802258	99	P	SUR	43	-48	741	0	0.7	-3.5	3.6
2802287	99	P	SUR	36	18	243	0	0.6	-0.1	0.6
3001001	99	P	SUR	22	-68	193	0	0.2	0.5	0.5
3801596	99	P	SUR	27	-63	742	0	0.5	-0.5	0.7
3801598	99	P	SUR	32	-49	742	0	0.4	-0.1	0.4
3801612	99	P	SUR	27	-64	742	0	0.4	-0.1	0.4
3801625	99	P	SUR	23	-62	742	0	0.4	0.5	0.6
3801676	99	P	SUR	79	16	740	0	0.6	0.1	0.6
3801713	99	P	SUR	34	-21	732	0	0.3	0.0	0.3
3801834	99	P	SUR	50	-24	723	0	0.5	0.1	0.5
3801835	99	P	SUR	41	-28	721	0	0.3	0.1	0.3
3801836	99	P	SUR	43	-29	732	0	0.4	0.3	0.5
3801837	99	P	SUR	67	-13	729	0	0.4	0.2	0.5
3801838	99	P	SUR	47	-26	726	0	0.4	0.1	0.4
3801840	99	P	SUR	48	-17	722	91	3.0	-0.6	3.1
3801841	99	P	SUR	51	-33	720	27	1.3	-0.2	1.3
3801842	99	P	SUR	67	4	718	61	1.5	-0.2	1.5
3801874	99	P	SUR	36	19	241	0	0.6	-0.2	0.6
3801875	99	P	SUR	40	1	123	0	0.2	-0.2	0.3
4000010	99	P	SUR	26	-69	359	0	0.7	-0.3	0.7
4000011	99	P	SUR	22	-66	306	0	0.6	-0.2	0.6
4100040	99	P	SUR	15	-53	4456	0	0.3	-0.3	0.5
4100041	99	P	SUR	14	-46	4458	0	0.3	0.1	0.3
4100043	99	P	SUR	21	-65	4457	0	0.4	-0.7	0.8
4100044	99	P	SUR	22	-59	4454	0	0.3	-0.5	0.6
4100046	99	P	SUR	24	-68	4455	0	0.5	-0.3	0.6
4100048	99	P	SUR	32	-70	4454	0	0.4	0.3	0.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
4100049	99	P	SUR	28	-62	4237	0	0.4	0.1	0.4
4100053	99	P	SUR	18	-66	4296	0	0.4	-0.4	0.5
4100056	99	P	SUR	18	-65	3725	0	0.3	-0.5	0.7
4100230	99	P	SUR	16	-59	242	0	0.3	-0.2	0.3
4101725	99	P	SUR	18	-63	739	0	0.3	-0.2	0.3
4101727	99	P	SUR	36	-62	742	0	0.5	0.0	0.5
4101728	99	P	SUR	30	-54	737	0	0.3	0.1	0.3
4101729	99	P	SUR	31	-59	267	0	0.4	-0.2	0.5
4101863	99	P	SUR	33	-67	742	0	0.4	-0.3	0.5
4101870	99	P	SUR	32	-58	742	0	0.3	-0.3	0.5
4101873	99	P	SUR	28	-43	9	0	0.2	-0.3	0.3
4101875	99	P	SUR	27	-58	742	0	0.4	-0.1	0.4
4101877	99	P	SUR	29	-28	742	0	0.3	0.1	0.3
4101878	99	P	SUR	21	-43	742	0	0.3	-0.1	0.3
41040	99	P	SUR	15	-53	744	0	0.3	-0.3	0.5
41041	99	P	SUR	14	-46	744	0	0.4	0.1	0.4
41043	99	P	SUR	21	-65	744	0	0.4	-0.7	0.8
41044	99	P	SUR	22	-59	744	0	0.3	-0.5	0.6
41046	99	P	SUR	24	-68	743	0	0.5	-0.3	0.6
41048	99	P	SUR	32	-70	743	0	0.4	0.2	0.5
41049	99	P	SUR	28	-62	707	0	0.4	0.1	0.4
41053	99	P	SUR	19	-66	575	0	0.4	-0.4	0.6
41056	99	P	SUR	18	-66	736	0	0.4	-0.6	0.7
4200060	99	P	SUR	16	-63	4454	0	0.3	-0.2	0.4
4200085	99	P	SUR	18	-67	4262	0	0.4	-0.4	0.5
42060	99	P	SUR	16	-63	744	0	0.3	-0.2	0.4
42085	99	P	SUR	18	-67	552	0	0.4	-0.4	0.6
4400008	99	P	SUR	40	-69	4454	0	0.4	-0.5	0.7
4400011	99	P	SUR	41	-67	4454	0	0.6	-0.1	0.6
4400027	99	P	SUR	44	-67	4453	0	0.4	-1.1	1.2
4400137	99	P	SUR	42	-62	723	0	0.4	-0.1	0.4
4400139	99	P	SUR	44	-57	728	0	0.5	-0.3	0.6
4400150	99	P	SUR	43	-64	729	0	0.4	-0.3	0.5
4400258	99	P	SUR	45	-63	730	0	0.4	-0.1	0.4
4400488	99	P	SUR	45	-61	729	0	0.5	-0.2	0.5
4400489	99	P	SUR	45	-61	503	0	0.5	0.0	0.5
44008	99	P	SUR	41	-69	743	0	0.4	-0.6	0.7
44011	99	P	SUR	41	-67	743	0	0.5	-0.1	0.5
4401584	99	P	SUR	33	-52	742	0	1.1	-0.1	1.1
44027	99	P	SUR	44	-67	744	0	0.4	-1.1	1.2
4402730	99	P	SUR	28	-45	678	0	0.6	-0.4	0.7
4402737	99	P	SUR	53	-28	14	0	1.8	-0.5	1.9
4402744	99	P	SUR	31	-49	742	0	0.3	-0.1	0.3

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
4402749	99	P	SUR	74	8	605	0	0.4	0.0	0.4
4403568	99	P	SUR	30	-50	743	0	0.3	0.2	0.4
44078	99	P	SUR	60	-40	425	0	0.6	-0.6	0.9
44137	99	P	SUR	42	-62	723	0	0.4	-0.1	0.5
44139	99	P	SUR	44	-57	728	0	0.5	-0.3	0.6
44150	99	P	SUR	43	-64	728	0	0.4	-0.2	0.5
44258	99	P	SUR	45	-63	730	0	0.4	-0.1	0.4
44488	99	P	SUR	45	-61	730	0	0.5	-0.2	0.5
44489	99	P	SUR	46	-61	503	0	0.5	0.0	0.5
4601782	99	P	SUR	29	-38	742	0	0.3	0.5	0.6
4701550	99	P	SUR	78	-3	171	0	1.0	0.0	1.0
4701555	99	P	SUR	64	-22	11	0	0.6	-5.8	5.8
4701558	99	P	SUR	79	-18	62	0	0.5	-3.9	4.0
4801763	99	P	SUR	71	9	744	2	0.7	-11.2	11.2
4802582	99	P	SUR	64	-18	376	0	0.6	-9.9	10.0
4802664	99	P	SUR	80	-70	619	0	0.6	-0.2	0.6
4803997	99	P	SUR	45	-21	742	0	0.3	-0.3	0.4
4804127	99	P	SUR	28	-54	742	0	0.4	-0.1	0.4
4804272	99	P	SUR	65	-5	733	0	0.4	0.1	0.4
4804311	99	P	SUR	44	-50	740	0	0.6	0.3	0.6
4804319	99	P	SUR	40	1	233	0	0.4	-0.1	0.4
4804322	99	P	SUR	36	18	156	0	0.4	-0.4	0.5
4804328	99	P	SUR	36	19	220	0	0.4	0.1	0.4
5001002	99	P	SUR	21	-67	384	0	0.3	0.3	0.4
5801955	99	P	SUR	25	-63	2311	0	0.4	0.2	0.4
5801972	99	P	SUR	35	-17	741	0	0.3	-0.2	0.3
5802011	99	P	SUR	26	-59	742	0	0.3	0.0	0.3
5802112	99	P	SUR	18	-54	700	0	0.3	0.0	0.3
5802116	99	P	SUR	32	-44	739	0	0.4	0.1	0.4
5802118	99	P	SUR	27	-50	742	0	0.4	-0.2	0.4
5802227	99	P	SUR	53	-20	738	738	0.0	0.0	0.0
5802253	99	P	SUR	37	-22	729	0	0.4	0.2	0.4
5802254	99	P	SUR	55	-35	735	0	0.4	0.0	0.4
5802255	99	P	SUR	63	-30	735	0	0.5	0.3	0.6
5802256	99	P	SUR	59	-26	735	0	0.4	-0.2	0.5
5802257	99	P	SUR	59	-18	733	0	0.4	0.0	0.5
5802343	99	P	SUR	42	11	77	0	0.3	0.0	0.3
6100001	99	P	SUR	43	8	1540	0	0.5	-0.2	0.5
6100002	99	P	SUR	42	5	1271	0	0.4	-0.1	0.4
6100196	99	P	SUR	42	4	729	0	0.4	0.1	0.4
6100197	99	P	SUR	40	4	729	0	0.4	0.0	0.4
6100198	99	P	SUR	37	-2	730	0	0.4	0.3	0.5
6100207	99	P	SUR	37	15	1387	0	0.4	-0.5	0.7

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6100210	99	P	SUR	39	17	1463	0	0.5	-0.3	0.6
6100211	99	P	SUR	39	16	1465	0	0.4	-0.5	0.7
6100214	99	P	SUR	41	13	1467	0	0.4	0.6	0.7
6100215	99	P	SUR	41	17	1456	0	0.5	-0.3	0.6
6100216	99	P	SUR	42	12	1470	0	0.4	-0.8	0.9
6100217	99	P	SUR	42	15	1434	0	0.4	-0.2	0.5
6100218	99	P	SUR	44	14	1358	0	0.4	-0.3	0.5
6100219	99	P	SUR	44	10	543	0	0.4	0.0	0.4
6100220	99	P	SUR	45	13	1296	0	0.4	0.0	0.4
6100280	99	P	SUR	41	1	729	0	0.4	0.1	0.5
6100281	99	P	SUR	40	0	729	0	0.6	0.1	0.6
6100417	99	P	SUR	38	0	730	0	0.4	0.3	0.5
6100430	99	P	SUR	40	2	730	0	0.5	0.4	0.6
6101031	99	P	SUR	42	8	1549	0	0.5	0.0	0.5
6101032	99	P	SUR	42	10	1331	0	0.5	0.1	0.5
6101033	99	P	SUR	43	8	1521	0	0.6	0.0	0.6
6101034	99	P	SUR	42	6	1540	0	0.4	-0.3	0.5
6101035	99	P	SUR	41	7	1489	0	0.5	-0.1	0.5
6101036	99	P	SUR	42	7	1534	0	0.5	-0.3	0.6
6200001	99	P	SUR	45	-5	693	0	0.3	0.1	0.3
6200025	99	P	SUR	44	-6	729	0	0.4	0.1	0.4
6200029	99	P	SUR	49	-12	744	0	0.4	-0.2	0.4
6200050	99	P	SUR	50	-4	742	0	0.3	0.0	0.3
6200081	99	P	SUR	51	-13	744	0	0.4	-0.2	0.4
6200082	99	P	SUR	44	-8	729	0	0.4	0.0	0.4
6200083	99	P	SUR	43	-9	730	0	0.4	0.2	0.4
6200084	99	P	SUR	42	-9	730	0	0.5	0.1	0.5
6200085	99	P	SUR	36	-7	727	0	0.3	0.2	0.4
6200086	99	P	SUR	55	7	207	0	0.3	-0.3	0.5
6200087	99	P	SUR	55	7	181	0	0.5	-0.4	0.7
6200091	99	P	SUR	53	-5	744	0	0.4	-0.1	0.4
6200092	99	P	SUR	51	-11	744	0	0.4	-0.1	0.4
6200094	99	P	SUR	52	-7	744	0	0.4	-0.1	0.4
6200095	99	P	SUR	53	-16	744	0	0.4	-0.3	0.5
6200103	99	P	SUR	50	-3	744	0	0.4	0.1	0.4
6200105	99	P	SUR	55	-13	744	3	0.4	0.0	0.4
6200163	99	P	SUR	47	-8	744	0	0.3	-0.1	0.3
6201065	99	P	SUR	54	7	740	0	0.4	1.3	1.3
6202599	99	P	SUR	45	-38	3	1	4.0	-0.5	4.0
62029	99	P	SUR	49	-12	1483	0	0.4	-0.1	0.4
62030	99	P	SUR	50	-4	1484	0	0.3	-0.1	0.3
6203615	99	P	SUR	26	-45	742	0	0.4	0.2	0.5
6203625	99	P	SUR	34	-42	742	0	0.3	-0.2	0.4

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6203632	99	P	SUR	28	-39	736	0	0.3	0.2	0.4
6203639	99	P	SUR	27	-48	740	0	0.3	-0.5	0.6
6203662	99	P	SUR	75	-19	41	0	0.5	-0.8	0.9
6203672	99	P	SUR	31	-54	741	0	0.3	0.1	0.3
6203676	99	P	SUR	62	-16	741	54	1.1	0.2	1.2
6203677	99	P	SUR	27	-32	368	0	0.3	-0.2	0.4
6203679	99	P	SUR	24	-48	741	0	0.4	-0.2	0.4
6203680	99	P	SUR	65	12	740	0	0.4	-0.2	0.4
6203683	99	P	SUR	25	-53	742	0	0.3	0.1	0.3
6203686	99	P	SUR	30	-51	740	0	0.3	0.1	0.4
6203831	99	P	SUR	70	32	603	0	0.4	-0.1	0.4
6203836	99	P	SUR	59	-36	742	0	0.4	0.0	0.4
6203853	99	P	SUR	79	11	742	0	0.5	0.0	0.5
6204523	99	P	SUR	42	-50	740	16	1.7	-0.4	1.7
6204524	99	P	SUR	43	-29	740	5	1.5	0.3	1.5
6204525	99	P	SUR	43	-43	741	4	1.6	-0.5	1.7
6204526	99	P	SUR	43	-20	126	0	0.4	0.1	0.4
6204527	99	P	SUR	44	-28	740	45	1.8	0.2	1.8
6204528	99	P	SUR	42	-15	207	8	0.3	-0.1	0.3
6204530	99	P	SUR	40	-13	635	0	0.8	0.3	0.9
6204531	99	P	SUR	47	-17	739	33	4.1	-1.6	4.4
6204533	99	P	SUR	42	-22	182	100	4.8	-4.1	6.3
6204534	99	P	SUR	45	-20	740	0	1.7	-0.6	1.8
6204535	99	P	SUR	39	-31	612	0	0.5	0.1	0.5
6204536	99	P	SUR	40	-21	742	6	0.7	0.1	0.7
6204537	99	P	SUR	42	-59	737	0	0.4	0.2	0.5
62050	99	P	SUR	50	-4	1483	0	0.4	-0.1	0.4
62081	99	P	SUR	51	-13	1486	0	0.4	-0.2	0.4
62091	99	P	SUR	53	-5	744	0	0.4	-0.1	0.4
62092	99	P	SUR	51	-11	744	0	0.4	-0.1	0.4
62094	99	P	SUR	52	-7	744	0	0.4	-0.1	0.4
62095	99	P	SUR	53	-16	744	0	0.4	-0.3	0.5
62102	99	P	SUR	58	2	1432	0	0.5	0.2	0.6
62103	99	P	SUR	50	-3	1488	0	0.4	0.1	0.4
62104	99	P	SUR	57	1	1484	0	0.5	-0.1	0.5
62105	99	P	SUR	55	-13	1485	6	0.4	-0.1	0.4
62107	99	P	SUR	50	-6	1304	0	0.3	-0.5	0.6
62112	99	P	SUR	58	0	1481	0	0.4	0.0	0.4
62113	99	P	SUR	58	0	1484	0	0.6	0.2	0.7
62114	99	P	SUR	58	0	1484	0	0.5	-0.3	0.6
62115	99	P	SUR	58	-3	1144	0	0.4	0.0	0.4
62116	99	P	SUR	58	1	1484	0	0.6	0.0	0.6
62118	99	P	SUR	58	1	1484	0	0.5	0.3	0.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
62119	99	P	SUR	57	2	1484	0	0.5	0.1	0.5
62120	99	P	SUR	56	2	1458	0	0.5	-0.5	0.7
62121	99	P	SUR	54	3	1484	0	0.6	0.3	0.7
62122	99	P	SUR	57	2	1460	0	0.4	0.0	0.4
62124	99	P	SUR	54	-4	1447	0	0.4	-0.2	0.5
62127	99	P	SUR	54	1	1484	0	1.2	0.8	1.5
62129	99	P	SUR	58	0	1406	0	0.6	0.3	0.7
62130	99	P	SUR	59	1	1484	0	0.4	-0.4	0.6
62131	99	P	SUR	54	1	1484	0	0.4	0.5	0.6
62132	99	P	SUR	56	2	1472	0	0.5	-0.1	0.5
62133	99	P	SUR	57	1	1484	0	0.6	0.1	0.6
62134	99	P	SUR	58	1	1478	0	0.4	0.3	0.5
62138	99	P	SUR	54	0	1170	0	0.6	0.7	0.9
62140	99	P	SUR	57	1	1484	0	0.4	0.0	0.4
62141	99	P	SUR	58	0	1480	0	0.6	0.1	0.7
62143	99	P	SUR	58	2	1484	0	0.8	0.6	1.0
62144	99	P	SUR	53	2	1484	0	0.5	0.2	0.5
62145	99	P	SUR	53	3	1482	0	0.4	0.2	0.4
62146	99	P	SUR	57	2	1476	0	0.9	0.3	1.0
62148	99	P	SUR	54	2	1170	0	0.6	0.2	0.6
62149	99	P	SUR	54	1	1478	0	0.3	0.4	0.5
62151	99	P	SUR	57	2	1484	0	0.6	0.4	0.7
62152	99	P	SUR	57	2	1484	0	0.6	0.5	0.8
62153	99	P	SUR	57	2	1478	0	0.4	-0.2	0.5
62154	99	P	SUR	56	2	1286	0	0.8	0.4	1.0
62155	99	P	SUR	58	1	1482	0	0.6	0.3	0.7
62157	99	P	SUR	58	0	1478	0	0.4	-0.2	0.4
62160	99	P	SUR	57	2	1484	0	0.5	0.0	0.5
62161	99	P	SUR	58	1	1484	0	0.5	0.0	0.5
62162	99	P	SUR	57	1	1454	0	0.5	-0.1	0.5
62163	99	P	SUR	48	-9	1485	0	0.3	-0.1	0.3
62164	99	P	SUR	57	1	1484	0	0.4	0.2	0.4
62165	99	P	SUR	54	1	1484	0	0.5	0.2	0.5
62168	99	P	SUR	58	1	1484	0	0.4	0.1	0.4
62170	99	P	SUR	51	2	1488	0	0.3	-0.5	0.6
62198	99	P	SUR	52	2	1488	0	0.4	-0.7	0.8
62302	99	P	SUR	61	-2	1475	0	0.6	0.1	0.6
62304	99	P	SUR	51	2	1488	0	0.4	-0.1	0.4
62305	99	P	SUR	50	0	1488	0	0.4	-0.2	0.5
62442	99	P	SUR	49	-16	1482	0	0.4	-0.1	0.4
6301003	99	P	SUR	74	24	594	42	3.2	0.6	3.2
6301583	99	P	SUR	53	-12	260	0	0.3	0.1	0.3
6301587	99	P	SUR	70	-19	743	13	2.4	0.8	2.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6301634	99	P	SUR	60	-20	738	0	0.7	0.2	0.7
6301636	99	P	SUR	62	-34	740	0	0.5	0.2	0.5
6301638	99	P	SUR	56	-40	742	0	1.0	0.2	1.0
6301641	99	P	SUR	75	-11	739	0	2.4	-0.6	2.5
6301642	99	P	SUR	76	14	742	0	0.5	0.2	0.6
6301643	99	P	SUR	74	-8	738	0	0.4	0.0	0.4
6301644	99	P	SUR	71	14	740	0	0.4	-0.1	0.5
6301647	99	P	SUR	69	39	714	128	3.8	-2.1	4.3
6301648	99	P	SUR	86	32	738	0	0.5	-0.3	0.6
6301649	99	P	SUR	87	20	737	0	0.5	0.0	0.5
63055	99	P	SUR	61	2	1370	0	0.5	0.1	0.5
63056	99	P	SUR	60	2	1484	0	0.5	0.5	0.8
63057	99	P	SUR	59	2	1484	0	0.4	-0.4	0.6
63058	99	P	SUR	53	2	1475	0	0.4	0.0	0.4
63059	99	P	SUR	58	-1	1403	0	0.4	0.4	0.6
63102	99	P	SUR	61	1	1484	0	0.4	0.0	0.4
63108	99	P	SUR	61	2	1450	0	0.6	0.1	0.7
63109	99	P	SUR	60	2	1484	0	0.4	-0.3	0.5
63110	99	P	SUR	60	2	1484	0	0.5	-0.1	0.5
63112	99	P	SUR	61	1	1228	0	0.4	-0.3	0.5
63115	99	P	SUR	62	1	1481	0	0.5	0.0	0.5
63118	99	P	SUR	58	1	1482	0	0.4	-0.4	0.6
6400045	99	P	SUR	59	-12	744	8	0.5	-0.1	0.5
6400046	99	P	SUR	61	-4	744	0	0.4	-0.3	0.5
6401599	99	P	SUR	71	-18	740	0	1.8	0.7	2.0
6401600	99	P	SUR	82	-13	740	0	0.5	0.4	0.6
6401601	99	P	SUR	58	-26	740	0	0.4	0.0	0.5
6401765	99	P	SUR	87	16	740	0	0.5	-0.2	0.5
6401766	99	P	SUR	85	-1	125	0	0.4	-0.1	0.4
6401767	99	P	SUR	85	-3	125	0	0.4	-0.1	0.4
6401768	99	P	SUR	85	-4	124	0	0.4	0.1	0.4
64041	99	P	SUR	61	-3	1471	0	0.5	-0.1	0.5
64045	99	P	SUR	59	-12	1486	16	0.5	-0.1	0.5
64046	99	P	SUR	61	-4	1486	0	0.4	-0.3	0.5
6600021	99	P	SUR	55	14	169	0	0.4	-1.0	1.1
6600022	99	P	SUR	54	14	416	0	0.4	-0.3	0.5
6801771	99	P	SUR	41	-11	739	0	0.3	-0.1	0.3
6801791	99	P	SUR	28	-25	742	0	0.3	0.3	0.4
6801897	99	P	SUR	84	-40	483	0	0.4	-0.3	0.5
6801907	99	P	SUR	68	-3	710	0	0.5	0.2	0.5
6801923	99	P	SUR	41	-55	741	0	0.4	-0.5	0.7
6801929	99	P	SUR	29	-51	741	0	0.4	-0.1	0.4
6802060	99	P	SUR	52	-17	720	28	2.5	-0.5	2.6

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6802061	99	P	SUR	63	-37	718	37	1.1	-0.1	1.1
6802062	99	P	SUR	71	-12	736	0	0.4	0.0	0.4
6802079	99	P	SUR	47	-53	346	0	0.4	0.6	0.7
6802080	99	P	SUR	48	-50	743	0	0.4	0.1	0.4
6802113	99	P	SUR	54	-53	107	0	0.3	0.3	0.4
6802148	99	P	SUR	42	12	79	0	0.3	0.1	0.3
7001004	99	P	SUR	28	-65	1589	0	0.3	0.0	0.3
7801593	99	P	SUR	60	-46	742	0	0.5	0.0	0.5
7801594	99	P	SUR	71	30	619	0	0.6	-0.1	0.6
7801616	99	P	SUR	23	-62	742	0	0.5	-0.1	0.5
7801627	99	P	SUR	22	-66	741	0	0.4	0.2	0.5
7801647	99	P	SUR	34	-48	742	0	0.3	-0.3	0.5
7801697	99	P	SUR	25	-52	741	0	0.3	-0.4	0.5
7801699	99	P	SUR	30	-26	739	0	0.2	0.4	0.5
7801742	99	P	SUR	23	-51	653	0	0.4	-0.1	0.4
7801749	99	P	SUR	31	-18	736	0	0.3	-0.1	0.3
7801755	99	P	SUR	24	-47	667	0	0.5	-0.4	0.6
7810095	99	P	SUR	56	-25	742	0	0.4	0.0	0.4
7810096	99	P	SUR	43	-28	742	0	0.4	0.0	0.4
7810098	99	P	SUR	43	-17	742	0	0.3	-0.1	0.3
7810099	99	P	SUR	46	-11	741	0	0.3	-0.7	0.7
7810263	99	P	SUR	45	-31	742	0	0.4	-1.2	1.3
7810264	99	P	SUR	46	-16	742	0	0.3	-0.3	0.5
7810265	99	P	SUR	42	-26	738	0	0.3	0.0	0.3
7810266	99	P	SUR	44	-42	742	0	0.4	0.3	0.5
7810268	99	P	SUR	21	-40	669	0	0.4	0.2	0.5
7810290	99	P	SUR	39	-27	742	0	0.3	-0.2	0.3
7810312	99	P	SUR	27	-38	742	0	0.3	-0.1	0.3
7810437	99	P	SUR	49	-27	717	0	0.4	-0.2	0.4
7810438	99	P	SUR	45	-47	734	0	0.5	0.0	0.5
7810439	99	P	SUR	51	-38	722	0	0.4	0.3	0.5
7810440	99	P	SUR	49	-44	735	0	0.4	0.1	0.4
7810441	99	P	SUR	51	-43	730	0	0.4	0.0	0.4
7810442	99	P	SUR	52	-27	732	0	0.4	-0.2	0.5
7810443	99	P	SUR	52	-47	737	0	0.4	-0.3	0.5
7810445	99	P	SUR	48	-22	727	0	0.4	0.2	0.5
7810446	99	P	SUR	44	-32	235	0	2.3	0.3	2.3
7810478	99	P	SUR	15	-66	739	0	0.5	-0.2	0.6
7810616	99	P	SUR	46	-39	741	0	0.5	0.2	0.5
7810617	99	P	SUR	34	18	619	0	0.4	-0.1	0.4
7810618	99	P	SUR	37	16	151	0	0.4	0.5	0.6
7810712	99	P	SUR	42	-62	735	0	0.6	0.3	0.7
7810732	99	P	SUR	44	-56	738	0	0.5	0.0	0.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
7810733	99	P	SUR	42	-37	733	0	0.4	-0.7	0.8
7810734	99	P	SUR	44	-52	735	0	0.5	0.0	0.5
7810765	99	P	SUR	35	-55	734	0	0.7	0.3	0.7
7810766	99	P	SUR	33	-27	736	0	0.3	0.3	0.5
7810767	99	P	SUR	41	-36	734	0	0.4	0.4	0.5
7810768	99	P	SUR	40	-50	735	0	0.4	0.0	0.5
7810770	99	P	SUR	29	-52	740	0	0.4	0.2	0.5
7810771	99	P	SUR	35	-56	739	0	0.4	-0.1	0.4
7810772	99	P	SUR	33	-18	735	0	0.3	0.2	0.3
7810773	99	P	SUR	29	-37	740	0	0.3	0.0	0.3
7810774	99	P	SUR	35	-23	738	0	0.3	0.1	0.3
7810777	99	P	SUR	34	-38	729	0	0.3	0.0	0.3
7810778	99	P	SUR	31	-37	741	0	0.3	-0.1	0.3
7810780	99	P	SUR	32	-17	715	0	0.3	0.1	0.3
7810781	99	P	SUR	46	-38	154	0	1.9	-1.3	2.3
7810782	99	P	SUR	51	-18	612	0	1.5	-1.8	2.4
7810783	99	P	SUR	47	-24	732	0	0.4	0.2	0.4
7810952	99	P	SUR	40	-54	737	0	0.4	0.1	0.4
7810953	99	P	SUR	40	-55	733	0	0.4	0.0	0.4
7810954	99	P	SUR	40	-60	736	0	0.5	0.1	0.5
7810956	99	P	SUR	40	-55	731	0	0.4	-0.1	0.5
7810958	99	P	SUR	36	-60	738	0	0.4	0.1	0.4
7810977	99	P	SUR	70	-21	730	0	0.4	0.2	0.5
7810979	99	P	SUR	69	-23	731	0	0.5	0.3	0.6
7810980	99	P	SUR	68	-26	752	0	0.4	0.3	0.5
7810981	99	P	SUR	68	-26	734	0	0.5	0.1	0.5
7811007	99	P	SUR	85	37	493	0	0.5	-0.3	0.6
7894568	99	P	SUR	56	-6	596	0	1.9	-0.4	1.9
7894569	99	P	SUR	49	-5	654	3	2.7	-0.4	2.7
7894570	99	P	SUR	45	-15	723	0	0.6	0.3	0.7
7894571	99	P	SUR	70	-14	725	56	1.9	-0.2	1.9
7894597	99	P	SUR	50	-52	744	0	0.5	-0.2	0.5
7894621	99	P	SUR	36	18	245	0	0.3	-0.3	0.4
9193264	99	P	SUR	40	-59	11	0	1.1	-0.3	1.1
9632026	99	P	SUR	55	5	14	2	1.1	-3.8	4.0

4.10 Table 22 - Drifter Monitoring Statistics (EUCOS): Wind speed (m/s)

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          DRIFTER MONITORING STATISTICS (EUCOS)
                   MONITORING CENTRE     : ECMWF
                   ELEMENT MONITORED     : WIND SPEED (M/S)
                   AREA                  : 10N - 90N, 70W - 40E
                   PERIOD                : OCT 2026
                   STANDARD OF COMPARISON: FIRST-GUESS FIELD


TIME = 99 => AVERAGE OF ALL OBSERVATIONS


GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S
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WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
1000049	99	SPEED	SUR	22	-67	175	0	0	0.9	-0.5	1.0
1000050	99	SPEED	SUR	22	-65	452	0	0	1.2	-1.2	1.7
1000051	99	SPEED	SUR	28	-68	1297	0	0	2.3	0.0	2.3
1300130	99	SPEED	SUR	28	-16	728	0	0	1.0	0.1	1.0
1300131	99	SPEED	SUR	28	-17	730	0	0	1.7	1.2	2.1
1801560	99	SPEED	SUR	30	-61	3408	0	0	1.4	0.3	1.4
1801590	99	SPEED	SUR	30	-68	4230	0	0	1.6	0.2	1.6
1801599	99	SPEED	SUR	28	-60	3672	0	0	1.2	0.2	1.2
1801600	99	SPEED	SUR	17	-66	3853	0	0	1.0	0.5	1.1
1801607	99	SPEED	SUR	19	-67	3995	0	0	1.0	0.7	1.2
2000980	99	SPEED	SUR	17	-66	376	0	0	1.0	-1.5	1.8
3001001	99	SPEED	SUR	22	-68	193	0	0	0.8	-1.3	1.5
4000010	99	SPEED	SUR	26	-69	366	0	0	2.0	-0.3	2.0
4000011	99	SPEED	SUR	22	-66	328	0	0	1.3	-0.5	1.3
4100040	99	SPEED	SUR	15	-53	4452	0	0	1.0	0.3	1.0
4100041	99	SPEED	SUR	14	-46	4458	0	0	0.9	0.3	0.9
4100043	99	SPEED	SUR	21	-65	4456	0	0	1.0	0.0	1.0
4100044	99	SPEED	SUR	22	-59	4452	0	0	1.0	0.1	1.0
4100046	99	SPEED	SUR	24	-68	4431	0	0	1.7	0.5	1.8
4100048	99	SPEED	SUR	32	-70	4452	0	0	1.5	0.2	1.5
4100049	99	SPEED	SUR	28	-62	4452	0	0	1.3	0.2	1.3
4100053	99	SPEED	SUR	18	-66	4296	0	0	1.5	0.8	1.7
4100056	99	SPEED	SUR	18	-65	3725	0	0	1.1	0.1	1.1
4100230	99	SPEED	SUR	16	-59	448	0	0	0.6	-0.2	0.6
41040	99	SPEED	SUR	15	-53	743	0	0	1.1	0.0	1.1
41041	99	SPEED	SUR	14	-46	744	0	0	1.0	-0.2	1.0
41043	99	SPEED	SUR	21	-65	743	0	0	1.1	-0.2	1.1
41044	99	SPEED	SUR	22	-59	744	0	0	1.0	-0.2	1.0
41046	99	SPEED	SUR	24	-68	740	0	0	1.8	0.2	1.8
41048	99	SPEED	SUR	32	-70	742	0	0	1.6	-0.3	1.6
41049	99	SPEED	SUR	28	-62	743	0	0	1.3	0.0	1.3
41053	99	SPEED	SUR	19	-66	575	0	0	1.6	0.0	1.7
41056	99	SPEED	SUR	18	-66	736	0	0	1.2	-0.3	1.2
4200060	99	SPEED	SUR	16	-63	4453	0	0	1.1	0.3	1.2

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND SPEED (M/S) (CONTINU

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4200085	99	SPEED	SUR	18	-67	4262	0	0	1.3	0.6	1.4
42060	99	SPEED	SUR	16	-63	744	0	0	1.1	0.0	1.1
42085	99	SPEED	SUR	18	-67	552	0	0	1.4	0.6	1.5
4400008	99	SPEED	SUR	40	-69	4413	0	0	1.1	-0.2	1.2
4400011	99	SPEED	SUR	41	-67	4454	0	0	1.6	0.1	1.6
4400027	99	SPEED	SUR	44	-67	4452	0	0	1.1	0.2	1.1
4400032	99	SPEED	SUR	44	-69	3508	0	0	1.4	0.4	1.5
4400033	99	SPEED	SUR	44	-69	3347	0	0	1.4	0.8	1.7
4400034	99	SPEED	SUR	44	-68	3451	0	0	1.4	0.2	1.4
4400037	99	SPEED	SUR	43	-68	3092	0	0	1.2	0.1	1.2
4400137	99	SPEED	SUR	42	-62	723	0	0	1.2	-0.4	1.3
4400139	99	SPEED	SUR	44	-57	728	0	0	1.2	-0.5	1.3
4400150	99	SPEED	SUR	43	-64	729	0	0	1.2	0.1	1.2
4400258	99	SPEED	SUR	45	-63	730	0	0	1.3	0.2	1.3
4400488	99	SPEED	SUR	45	-61	729	0	0	1.6	1.1	2.0
4400489	99	SPEED	SUR	45	-61	502	0	0	1.7	2.1	2.7
44008	99	SPEED	SUR	41	-69	740	0	0	1.3	-0.8	1.5
44011	99	SPEED	SUR	41	-67	743	0	0	1.7	-0.5	1.7
44027	99	SPEED	SUR	44	-67	744	0	0	1.3	-0.3	1.3
44032	99	SPEED	SUR	44	-69	279	0	0	1.5	-0.4	1.6
44033	99	SPEED	SUR	44	-69	168	0	0	1.6	0.3	1.7
44034	99	SPEED	SUR	44	-68	258	0	0	1.7	-0.6	1.8
44037	99	SPEED	SUR	44	-68	178	0	0	1.4	-0.5	1.5
44078	99	SPEED	SUR	60	-40	427	0	0	2.1	-2.3	3.1
44137	99	SPEED	SUR	42	-62	723	0	0	1.3	-0.4	1.3
44139	99	SPEED	SUR	44	-57	728	0	0	1.2	-0.5	1.3
44150	99	SPEED	SUR	43	-64	728	0	0	1.3	-0.3	1.4
44258	99	SPEED	SUR	45	-63	730	0	0	1.3	0.2	1.3
44488	99	SPEED	SUR	45	-61	730	0	0	1.8	1.1	2.1
44489	99	SPEED	SUR	46	-61	502	0	0	1.7	1.9	2.5
5001002	99	SPEED	SUR	21	-67	398	0	0	1.0	-0.9	1.4
5801955	99	SPEED	SUR	25	-63	3966	0	0	1.2	0.2	1.2
6100001	99	SPEED	SUR	43	8	1540	0	0	2.3	1.2	2.6
6100002	99	SPEED	SUR	42	5	1271	0	0	2.0	0.5	2.1
6100196	99	SPEED	SUR	42	4	729	0	0	1.6	-0.4	1.7
6100197	99	SPEED	SUR	40	4	729	0	0	1.4	0.2	1.4
6100198	99	SPEED	SUR	37	-2	730	0	0	1.2	-0.9	1.5
6100207	99	SPEED	SUR	37	15	1387	0	0	1.9	2.8	3.4
6100210	99	SPEED	SUR	39	17	1463	0	0	1.6	1.4	2.1
6100211	99	SPEED	SUR	39	16	1465	0	0	1.9	1.0	2.2
6100214	99	SPEED	SUR	41	13	1467	0	0	1.5	0.6	1.7

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND SPEED (M/S) (CONTINU

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
6100215	99	SPEED	SUR	41	17	1456	0	0	1.6	1.5	2.2
6100216	99	SPEED	SUR	42	12	1470	0	0	1.5	0.7	1.7
6100217	99	SPEED	SUR	42	15	1435	0	0	1.7	0.7	1.9
6100218	99	SPEED	SUR	44	14	1358	0	0	2.2	0.1	2.2
6100219	99	SPEED	SUR	44	10	543	0	0	1.9	1.2	2.2
6100220	99	SPEED	SUR	45	13	1296	0	0	1.5	0.9	1.7
6100280	99	SPEED	SUR	41	1	729	0	0	1.7	-0.7	1.8
6100281	99	SPEED	SUR	40	0	729	0	0	1.8	0.5	1.8
6100417	99	SPEED	SUR	38	0	730	0	0	1.5	-0.8	1.6
6100430	99	SPEED	SUR	40	2	730	0	0	1.7	-0.1	1.7
6101031	99	SPEED	SUR	42	8	1549	0	0	1.6	0.3	1.7
6101032	99	SPEED	SUR	42	10	1331	0	0	1.8	0.4	1.8
6101033	99	SPEED	SUR	43	8	1521	0	0	2.1	0.8	2.3
6101034	99	SPEED	SUR	42	6	1540	0	0	1.8	0.8	2.0
6101035	99	SPEED	SUR	41	7	1514	0	0	1.7	1.1	2.0
6101036	99	SPEED	SUR	42	7	1536	0	0	1.7	0.2	1.7
6200001	99	SPEED	SUR	45	-5	693	0	0	1.0	0.7	1.3
6200024	99	SPEED	SUR	44	-3	729	0	0	1.4	-0.6	1.5
6200025	99	SPEED	SUR	44	-6	729	0	0	1.5	-1.2	1.9
6200029	99	SPEED	SUR	49	-12	744	0	0	1.3	1.1	1.7
6200050	99	SPEED	SUR	50	-4	742	0	0	1.2	0.1	1.2
6200081	99	SPEED	SUR	51	-13	744	0	0	1.2	0.5	1.3
6200082	99	SPEED	SUR	44	-8	729	5	0	1.0	-1.2	1.6
6200083	99	SPEED	SUR	43	-9	730	0	0	1.1	-1.2	1.6
6200084	99	SPEED	SUR	42	-9	730	0	0	1.4	-0.3	1.5
6200085	99	SPEED	SUR	36	-7	727	0	0	1.3	-0.9	1.6
6200086	99	SPEED	SUR	55	7	207	0	0	1.8	1.9	2.6
6200087	99	SPEED	SUR	55	7	181	0	0	1.7	0.9	1.9
6200091	99	SPEED	SUR	53	-5	744	0	0	1.1	0.9	1.4
6200092	99	SPEED	SUR	51	-11	744	0	0	1.1	0.5	1.2
6200094	99	SPEED	SUR	52	-7	744	0	0	1.2	-0.5	1.3
6200095	99	SPEED	SUR	53	-16	744	0	0	1.1	0.5	1.2
6200103	99	SPEED	SUR	50	-3	744	0	0	1.0	0.5	1.1
6200105	99	SPEED	SUR	55	-13	744	0	0	1.1	0.3	1.2
6200163	99	SPEED	SUR	47	-8	744	0	0	0.9	0.4	1.0
6201065	99	SPEED	SUR	54	7	740	0	0	1.5	-0.3	1.5
62029	99	SPEED	SUR	49	-12	1483	0	0	1.4	0.5	1.5
62050	99	SPEED	SUR	50	-4	1483	0	0	1.2	0.1	1.2
62081	99	SPEED	SUR	51	-13	1486	0	0	1.2	0.4	1.3
62091	99	SPEED	SUR	53	-5	744	0	0	1.2	1.2	1.7
62092	99	SPEED	SUR	51	-11	744	0	0	1.1	0.6	1.3

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND SPEED (M/S) (CONTINU

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
62094	99	SPEED	SUR	52	-7	744	0	0	1.2	-0.4	1.3
62095	99	SPEED	SUR	53	-16	744	0	0	1.2	0.6	1.3
62102	99	SPEED	SUR	58	2	1432	0	0	1.5	0.1	1.5
62103	99	SPEED	SUR	50	-3	1488	0	0	1.1	0.3	1.1
62104	99	SPEED	SUR	57	1	1482	0	0	1.4	0.0	1.4
62105	99	SPEED	SUR	55	-13	1485	0	0	1.2	0.2	1.2
62112	99	SPEED	SUR	58	0	1481	0	0	1.4	-0.2	1.4
62113	99	SPEED	SUR	58	0	1484	0	0	1.7	0.5	1.8
62114	99	SPEED	SUR	58	0	1484	0	0	1.7	1.1	2.0
62118	99	SPEED	SUR	58	1	1484	0	0	1.5	1.0	1.8
62119	99	SPEED	SUR	57	2	1484	0	0	1.7	-0.4	1.7
62120	99	SPEED	SUR	56	2	1458	0	0	1.4	-0.7	1.5
62121	99	SPEED	SUR	54	3	1482	0	0	1.3	-0.5	1.5
62122	99	SPEED	SUR	57	2	1454	0	0	1.4	0.0	1.4
62129	99	SPEED	SUR	58	0	1448	0	0	1.7	0.8	1.8
62131	99	SPEED	SUR	54	1	1484	0	0	1.5	0.0	1.5
62133	99	SPEED	SUR	57	1	1484	0	0	1.8	-0.7	2.0
62134	99	SPEED	SUR	58	1	1478	0	0	1.3	-1.0	1.6
62140	99	SPEED	SUR	57	1	1118	0	0	1.5	0.2	1.5
62143	99	SPEED	SUR	58	2	1484	0	0	2.1	-0.8	2.2
62144	99	SPEED	SUR	53	2	1484	0	0	1.8	-0.6	1.9
62145	99	SPEED	SUR	53	3	1396	0	0	1.4	0.4	1.4
62146	99	SPEED	SUR	57	2	1476	0	0	1.3	0.1	1.3
62148	99	SPEED	SUR	54	2	1332	0	0	1.5	0.0	1.5
62149	99	SPEED	SUR	54	1	1480	0	0	1.4	-0.3	1.5
62152	99	SPEED	SUR	57	2	1484	0	0	1.7	0.1	1.8
62154	99	SPEED	SUR	56	2	1484	0	0	1.4	0.2	1.4
62155	99	SPEED	SUR	58	1	1446	0	0	1.6	0.7	1.8
62163	99	SPEED	SUR	48	-9	1485	0	0	1.0	0.4	1.0
62164	99	SPEED	SUR	57	1	208	0	0	1.3	-1.0	1.6
62165	99	SPEED	SUR	54	1	1484	0	0	1.9	-0.8	2.1
62170	99	SPEED	SUR	51	2	1488	0	0	1.5	0.9	1.7
62304	99	SPEED	SUR	51	2	1488	0	0	1.5	0.8	1.8
62305	99	SPEED	SUR	50	0	1488	0	0	1.4	0.8	1.6
62442	99	SPEED	SUR	49	-16	1482	0	0	1.3	0.3	1.4
6301003	99	SPEED	SUR	74	24	376	0	0	1.1	-0.8	1.4
63055	99	SPEED	SUR	61	2	1368	0	0	1.3	-0.7	1.5
63056	99	SPEED	SUR	60	2	1484	0	0	1.4	0.6	1.5
63057	99	SPEED	SUR	59	2	1302	0	0	2.2	-0.2	2.2
63058	99	SPEED	SUR	53	2	1475	0	0	1.4	-0.2	1.4
63108	99	SPEED	SUR	61	2	1002	0	0	2.9	-0.3	2.9

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND SPEED (M/S) (CONTINU

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
63109	99	SPEED	SUR	60	2	1484	0	0	1.4	0.4	1.5
63110	99	SPEED	SUR	60	2	1484	0	0	1.4	-0.1	1.4
63112	99	SPEED	SUR	61	1	1228	0	0	1.5	-0.2	1.5
63115	99	SPEED	SUR	62	1	1481	0	0	1.4	-0.5	1.5
6400045	99	SPEED	SUR	59	-12	744	0	0	1.3	0.3	1.3
6400046	99	SPEED	SUR	61	-4	744	0	0	1.2	0.3	1.2
64041	99	SPEED	SUR	61	-3	1465	0	0	1.4	0.0	1.4
64045	99	SPEED	SUR	59	-12	1486	0	0	1.3	0.2	1.4
64046	99	SPEED	SUR	61	-4	1486	0	0	1.2	0.2	1.2
6600021	99	SPEED	SUR	55	14	169	0	0	1.1	0.3	1.1
6600022	99	SPEED	SUR	54	14	416	1	0	1.6	0.0	1.6
7001004	99	SPEED	SUR	28	-65	1595	0	0	1.6	-0.7	1.7
9193264	99	SPEED	SUR	40	-59	11	0	0	2.4	2.8	3.7
9632026	99	SPEED	SUR	55	5	11	0	0	2.5	0.2	2.5

4.11 Table 23 - Drifter Monitoring Statistics (EUCOS): Wind direction

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          DRIFTER MONITORING STATISTICS (EUCOS)
                   MONITORING CENTRE     : ECMWF
                   ELEMENT MONITORED     : WIND DIRECTION (DEGREES)
                   AREA                  : 10N - 90N, 70W - 40E
                   PERIOD                : OCT 2026
                   STANDARD OF COMPARISON: FIRST-GUESS FIELD


TIME = 99 => AVERAGE OF ALL OBSERVATIONS
GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S
WIND SPEEDS > 3M/S USED
```

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
1000048	99	DIRN	SUR	32	-80	855	0	0	24.7	0.3	24.7
1000049	99	DIRN	SUR	22	-67	31	0	0	54.0	19.1	57.3
1000050	99	DIRN	SUR	22	-65	428	0	0	23.9	-2.3	24.0
1000051	99	DIRN	SUR	28	-68	746	0	0	43.0	14.0	45.2
1300130	99	DIRN	SUR	28	-16	623	0	0	13.5	3.0	13.8
1300131	99	DIRN	SUR	28	-17	429	0	0	18.9	4.2	19.4
1801560	99	DIRN	SUR	30	-61	2175	0	0	25.9	5.8	26.6
1801577	99	DIRN	SUR	27	-85	3982	0	0	17.2	0.5	17.2
1801590	99	DIRN	SUR	30	-68	2530	0	0	29.1	-1.3	29.1
1801599	99	DIRN	SUR	28	-60	2163	0	0	20.0	2.7	20.2
1801600	99	DIRN	SUR	17	-66	3609	0	0	13.5	-3.3	13.9
1801607	99	DIRN	SUR	19	-67	3441	0	0	14.6	-4.0	15.2
2000980	99	DIRN	SUR	17	-66	167	0	0	32.0	8.3	33.1
3001001	99	DIRN	SUR	22	-68	171	0	0	44.5	64.9	78.7
4000010	99	DIRN	SUR	26	-69	311	0	0	61.2	15.7	63.1
4000011	99	DIRN	SUR	22	-66	300	0	0	60.6	33.8	69.4
4100002	99	DIRN	SUR	32	-75	108	0	0	12.1	7.6	14.3
4100004	99	DIRN	SUR	33	-79	3639	0	0	15.6	7.2	17.2
4100008	99	DIRN	SUR	31	-81	3643	0	0	17.4	7.6	19.0
4100009	99	DIRN	SUR	29	-80	3845	0	0	20.6	3.4	20.9
4100010	99	DIRN	SUR	29	-78	3805	0	0	18.9	5.0	19.6
4100013	99	DIRN	SUR	33	-78	3747	0	0	17.3	9.7	19.8
4100024	99	DIRN	SUR	34	-78	248	0	0	14.4	2.0	14.6
4100025	99	DIRN	SUR	35	-75	3753	0	0	17.0	4.8	17.7
4100029	99	DIRN	SUR	33	-80	596	0	0	14.7	1.5	14.8
4100033	99	DIRN	SUR	32	-80	605	0	0	14.6	-3.4	15.0
4100037	99	DIRN	SUR	34	-77	151	0	0	128.5	51.8	138.6
4100038	99	DIRN	SUR	34	-78	605	0	0	16.2	-3.2	16.5
4100040	99	DIRN	SUR	15	-53	4170	0	0	13.2	-1.1	13.2
4100041	99	DIRN	SUR	14	-46	4123	0	0	14.0	-3.2	14.4
4100043	99	DIRN	SUR	21	-65	3791	0	0	14.9	3.0	15.2
4100044	99	DIRN	SUR	22	-59	3131	0	0	14.6	3.0	14.9

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4100046	99	DIRN	SUR	24	-68	3206	0	0	36.3	7.3	37.1
4100047	99	DIRN	SUR	28	-71	3050	0	0	26.5	1.9	26.6
4100048	99	DIRN	SUR	32	-70	3624	0	0	23.8	-0.4	23.8
4100049	99	DIRN	SUR	28	-62	2975	0	0	21.5	15.9	26.8
4100053	99	DIRN	SUR	18	-66	2176	0	0	21.2	-7.9	22.7
4100056	99	DIRN	SUR	18	-65	3385	0	0	17.2	0.8	17.2
4100064	99	DIRN	SUR	34	-77	613	0	0	16.6	-21.7	27.4
4100066	99	DIRN	SUR	33	-80	610	0	0	16.9	-6.5	18.1
4100068	99	DIRN	SUR	28	-80	598	0	0	25.5	0.4	25.5
4100069	99	DIRN	SUR	29	-81	367	0	0	17.4	-15.2	23.1
4100082	99	DIRN	SUR	36	-75	3714	0	0	13.9	-9.2	16.7
4100083	99	DIRN	SUR	36	-75	3794	0	0	17.2	-9.6	19.7
41002	99	DIRN	SUR	32	-75	16	0	0	14.0	8.9	16.6
4100230	99	DIRN	SUR	16	-59	420	0	0	9.5	-2.7	9.9
41004	99	DIRN	SUR	33	-79	610	0	0	15.6	7.3	17.2
41008	99	DIRN	SUR	31	-81	610	0	0	16.5	7.6	18.2
41009	99	DIRN	SUR	29	-80	639	0	0	21.0	3.4	21.3
41010	99	DIRN	SUR	29	-79	634	0	0	21.1	4.7	21.6
41013	99	DIRN	SUR	33	-78	627	0	0	16.6	9.8	19.2
41024	99	DIRN	SUR	34	-79	244	0	0	14.3	1.7	14.4
41025	99	DIRN	SUR	35	-75	623	0	0	17.4	4.9	18.1
41029	99	DIRN	SUR	33	-80	600	0	0	16.5	1.3	16.5
41033	99	DIRN	SUR	32	-80	610	0	0	16.0	-3.5	16.3
41037	99	DIRN	SUR	34	-77	156	0	0	136.8	22.1	138.5
41038	99	DIRN	SUR	34	-78	610	0	0	15.5	-3.1	15.8
41040	99	DIRN	SUR	15	-53	684	0	0	13.5	-1.5	13.6
41041	99	DIRN	SUR	14	-46	685	0	0	14.6	-3.2	15.0
41043	99	DIRN	SUR	21	-65	617	0	0	14.1	2.9	14.4
41044	99	DIRN	SUR	22	-59	509	0	0	15.6	2.4	15.8
41046	99	DIRN	SUR	24	-68	516	0	0	35.5	6.6	36.1
41047	99	DIRN	SUR	28	-72	510	0	0	28.4	2.4	28.5
41048	99	DIRN	SUR	32	-70	586	0	0	24.1	-0.4	24.1
41049	99	DIRN	SUR	28	-62	473	0	0	21.9	15.3	26.7
41053	99	DIRN	SUR	19	-66	322	0	0	24.0	-8.9	25.6
41056	99	DIRN	SUR	18	-66	657	0	0	17.4	1.7	17.4
41064	99	DIRN	SUR	34	-77	613	0	0	16.1	-21.8	27.1
41066	99	DIRN	SUR	33	-80	2	0	0	3.8	-17.3	17.7
41068	99	DIRN	SUR	28	-80	603	0	0	24.5	-0.2	24.5
41069	99	DIRN	SUR	29	-81	369	0	0	17.7	-15.2	23.3
41082	99	DIRN	SUR	36	-75	609	0	0	14.2	-9.3	17.0
41083	99	DIRN	SUR	36	-75	618	0	0	15.6	-9.8	18.4

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4200013	99	DIRN	SUR	27	-83	1310	0	0	21.1	0.3	21.2
4200022	99	DIRN	SUR	28	-84	3	0	0	5.1	-7.0	8.7
4200023	99	DIRN	SUR	26	-83	838	0	0	15.9	-3.9	16.3
4200026	99	DIRN	SUR	25	-83	1369	0	0	13.9	-1.9	14.1
4200036	99	DIRN	SUR	29	-85	4006	0	0	23.6	7.2	24.7
4200056	99	DIRN	SUR	20	-85	4007	0	0	17.4	-3.6	17.8
4200057	99	DIRN	SUR	17	-82	3669	0	0	14.3	3.9	14.9
4200058	99	DIRN	SUR	14	-76	3916	0	0	13.4	4.3	14.1
4200060	99	DIRN	SUR	16	-63	4130	0	0	13.5	3.3	13.9
4200085	99	DIRN	SUR	18	-67	3417	0	0	21.0	1.9	21.0
42013	99	DIRN	SUR	27	-83	665	0	0	22.6	0.3	22.6
42022	99	DIRN	SUR	28	-84	175	0	0	18.5	-6.4	19.6
42023	99	DIRN	SUR	26	-83	231	0	0	18.9	-2.6	19.1
42026	99	DIRN	SUR	25	-84	693	0	0	15.4	-1.5	15.4
42036	99	DIRN	SUR	29	-85	667	0	0	24.7	6.9	25.7
42056	99	DIRN	SUR	20	-85	661	0	0	17.7	-4.4	18.3
42057	99	DIRN	SUR	17	-82	611	0	0	15.9	3.0	16.2
42058	99	DIRN	SUR	14	-76	651	0	0	12.8	3.7	13.3
42060	99	DIRN	SUR	16	-63	675	0	0	14.6	3.0	14.9
42085	99	DIRN	SUR	18	-67	410	0	0	21.4	0.7	21.4
4400007	99	DIRN	SUR	44	-70	3329	0	0	19.2	1.3	19.2
4400008	99	DIRN	SUR	40	-69	3733	0	0	11.6	6.5	13.2
4400009	99	DIRN	SUR	38	-75	3690	0	0	12.0	3.2	12.4
4400011	99	DIRN	SUR	41	-67	3822	0	0	12.7	5.1	13.7
4400013	99	DIRN	SUR	42	-71	3511	0	0	15.3	2.4	15.5
4400020	99	DIRN	SUR	41	-70	3926	0	0	14.2	2.8	14.4
4400027	99	DIRN	SUR	44	-67	4051	0	0	12.8	7.9	15.0
4400029	99	DIRN	SUR	43	-71	2651	0	0	17.1	2.6	17.3
4400030	99	DIRN	SUR	43	-70	2955	0	0	22.6	12.5	25.8
4400032	99	DIRN	SUR	44	-69	3021	0	0	15.8	3.4	16.1
4400033	99	DIRN	SUR	44	-69	2780	0	0	14.6	1.1	14.6
4400034	99	DIRN	SUR	44	-68	3065	0	0	13.6	2.4	13.8
4400037	99	DIRN	SUR	43	-68	2897	0	0	10.6	4.0	11.3
4400042	99	DIRN	SUR	38	-76	3915	0	0	17.0	6.5	18.2
4400058	99	DIRN	SUR	38	-76	289	0	0	17.0	4.2	17.5
4400062	99	DIRN	SUR	39	-76	3773	0	0	21.0	6.8	22.1
4400063	99	DIRN	SUR	39	-76	3407	0	0	22.8	9.3	24.6
4400065	99	DIRN	SUR	40	-74	3756	0	0	14.3	7.2	16.0
4400072	99	DIRN	SUR	37	-76	4000	0	0	15.6	4.5	16.2
4400074	99	DIRN	SUR	43	-71	335	0	0	13.1	1.1	13.2
4400079	99	DIRN	SUR	36	-75	3591	0	0	17.1	-8.5	19.1

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4400080	99	DIRN	SUR	39	-77	1455	0	0	18.2	0.3	18.2
4400137	99	DIRN	SUR	42	-62	701	0	0	14.1	-6.2	15.4
4400139	99	DIRN	SUR	44	-57	686	0	0	13.3	-0.3	13.3
4400150	99	DIRN	SUR	43	-64	702	0	0	13.2	2.2	13.4
4400258	99	DIRN	SUR	45	-63	663	0	0	12.8	0.1	12.8
4400488	99	DIRN	SUR	45	-61	648	0	0	13.7	9.2	16.5
4400489	99	DIRN	SUR	45	-61	418	0	0	15.7	-3.3	16.1
44007	99	DIRN	SUR	44	-70	558	0	0	20.9	0.5	20.9
44008	99	DIRN	SUR	41	-69	626	0	0	12.1	6.6	13.8
44009	99	DIRN	SUR	39	-75	614	0	0	12.4	2.8	12.7
44011	99	DIRN	SUR	41	-67	629	0	0	13.9	5.0	14.7
44013	99	DIRN	SUR	42	-71	573	0	0	14.9	1.6	15.0
44020	99	DIRN	SUR	42	-70	643	0	0	14.0	2.5	14.2
44027	99	DIRN	SUR	44	-67	671	0	0	12.8	7.3	14.7
44029	99	DIRN	SUR	43	-71	202	0	0	16.1	6.2	17.3
44030	99	DIRN	SUR	43	-70	373	0	0	25.6	13.0	28.7
44032	99	DIRN	SUR	44	-69	249	0	0	15.3	2.4	15.5
44033	99	DIRN	SUR	44	-69	142	0	0	15.3	0.1	15.3
44034	99	DIRN	SUR	44	-68	230	0	0	14.0	2.9	14.3
4403586	99	DIRN	SUR	43	-79	1231	0	0	23.4	3.2	23.6
4403587	99	DIRN	SUR	47	-85	956	0	0	29.6	28.6	41.2
44037	99	DIRN	SUR	44	-68	158	0	0	10.5	3.8	11.1
44042	99	DIRN	SUR	38	-76	535	0	0	17.6	6.6	18.8
44058	99	DIRN	SUR	38	-76	38	0	0	22.3	11.0	24.9
44062	99	DIRN	SUR	39	-76	580	0	0	23.0	8.3	24.5
44063	99	DIRN	SUR	39	-76	465	0	0	24.6	10.2	26.6
44065	99	DIRN	SUR	40	-74	624	0	0	15.1	7.2	16.7
44069	99	DIRN	SUR	41	-73	418	0	0	13.5	-0.6	13.5
44072	99	DIRN	SUR	37	-76	591	0	0	16.2	4.7	16.8
44074	99	DIRN	SUR	43	-71	105	0	0	13.2	2.3	13.4
44078	99	DIRN	SUR	60	-40	392	0	0	16.1	-17.9	24.1
44079	99	DIRN	SUR	36	-75	591	0	0	15.0	-9.0	17.5
44080	99	DIRN	SUR	39	-77	340	0	0	22.8	-2.1	22.8
44137	99	DIRN	SUR	42	-62	702	0	0	14.8	-6.1	16.0
44139	99	DIRN	SUR	44	-57	680	0	0	13.6	-0.9	13.7
44150	99	DIRN	SUR	43	-64	697	0	0	13.7	1.5	13.8
44258	99	DIRN	SUR	45	-63	657	0	0	12.4	-0.9	12.5
44488	99	DIRN	SUR	45	-61	649	0	0	13.8	8.2	16.0
44489	99	DIRN	SUR	46	-61	422	0	0	16.3	-3.6	16.7
4500005	99	DIRN	SUR	42	-82	3257	0	0	15.7	9.1	18.2
4500012	99	DIRN	SUR	44	-77	3682	0	0	22.0	11.2	24.7

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
4500132	99	DIRN	SUR	42	-81	631	0	0	17.6	-1.1	17.6
4500135	99	DIRN	SUR	44	-77	639	0	0	24.2	1.6	24.2
4500137	99	DIRN	SUR	46	-81	658	0	0	14.7	-1.4	14.8
4500139	99	DIRN	SUR	43	-80	533	0	0	21.6	0.8	21.7
4500142	99	DIRN	SUR	43	-79	623	0	0	18.2	2.3	18.3
4500143	99	DIRN	SUR	45	-81	649	0	0	19.2	0.7	19.2
4500159	99	DIRN	SUR	44	-79	578	0	0	21.8	0.1	21.8
4500164	99	DIRN	SUR	42	-82	421	0	0	81.3	-16.0	82.9
4500165	99	DIRN	SUR	42	-83	2243	0	0	20.6	29.9	36.3
4500175	99	DIRN	SUR	46	-85	1391	0	0	28.7	-0.2	28.7
4500176	99	DIRN	SUR	42	-82	2917	0	0	19.1	-11.1	22.1
4500190	99	DIRN	SUR	43	-77	810	0	0	21.8	4.3	22.2
4500196	99	DIRN	SUR	42	-82	484	0	0	25.4	-46.9	53.3
4500197	99	DIRN	SUR	42	-82	476	0	0	16.8	-16.8	23.8
4500200	99	DIRN	SUR	42	-83	776	0	0	15.0	6.6	16.4
4500201	99	DIRN	SUR	42	-83	2492	0	0	28.3	1.8	28.3
4500202	99	DIRN	SUR	42	-83	1953	0	0	23.5	31.5	39.3
4500204	99	DIRN	SUR	42	-82	791	0	0	29.1	-23.8	37.6
4500205	99	DIRN	SUR	42	-82	1835	0	0	27.3	8.4	28.5
4500206	99	DIRN	SUR	42	-82	1749	0	0	22.6	-16.2	27.9
4500207	99	DIRN	SUR	42	-81	2606	0	0	32.9	16.7	36.9
4500208	99	DIRN	SUR	42	-81	897	0	0	30.1	6.3	30.8
4500209	99	DIRN	SUR	43	-82	3240	0	0	18.6	-27.9	33.5
4500220	99	DIRN	SUR	43	-79	2306	0	0	35.5	-10.6	37.1
45005	99	DIRN	SUR	42	-82	533	0	0	15.3	9.0	17.8
45012	99	DIRN	SUR	44	-77	602	0	0	20.3	10.0	22.6
45132	99	DIRN	SUR	43	-81	625	0	0	18.1	-1.7	18.2
45135	99	DIRN	SUR	44	-77	626	0	0	24.7	1.1	24.7
45137	99	DIRN	SUR	46	-81	643	0	0	14.0	-2.5	14.2
45139	99	DIRN	SUR	43	-80	543	0	0	21.1	0.7	21.1
45142	99	DIRN	SUR	43	-79	608	0	0	17.7	0.6	17.7
45143	99	DIRN	SUR	45	-81	632	0	0	19.0	-2.2	19.2
45147	99	DIRN	SUR	42	-83	497	0	0	16.6	-10.7	19.8
45149	99	DIRN	SUR	44	-82	606	0	0	17.7	-7.9	19.4
45151	99	DIRN	SUR	45	-79	493	0	0	17.1	-3.3	17.5
45152	99	DIRN	SUR	46	-80	516	0	0	17.4	-2.1	17.5
45154	99	DIRN	SUR	46	-83	636	0	0	20.2	8.3	21.8
45159	99	DIRN	SUR	44	-79	573	0	0	27.4	2.5	27.5
45164	99	DIRN	SUR	42	-82	410	0	0	81.5	-15.3	82.9
45165	99	DIRN	SUR	42	-83	362	0	0	20.6	30.6	36.9
45175	99	DIRN	SUR	46	-85	504	0	0	29.5	0.9	29.5

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
45176	99	DIRN	SUR	42	-82	527	0	0	23.0	-10.1	25.2
45190	99	DIRN	SUR	43	-77	225	0	0	25.0	6.6	25.9
45196	99	DIRN	SUR	42	-82	472	0	0	26.1	-47.5	54.2
45197	99	DIRN	SUR	42	-82	451	0	0	16.4	-18.2	24.5
45200	99	DIRN	SUR	42	-83	124	0	0	14.4	7.0	16.0
45201	99	DIRN	SUR	42	-83	435	0	0	28.7	1.2	28.7
45202	99	DIRN	SUR	42	-83	324	0	0	24.0	31.6	39.7
45204	99	DIRN	SUR	42	-82	139	0	0	30.4	-20.7	36.8
45205	99	DIRN	SUR	42	-82	305	0	0	26.3	8.5	27.6
45206	99	DIRN	SUR	42	-82	321	0	0	24.6	-14.6	28.6
45207	99	DIRN	SUR	42	-81	426	0	0	33.3	16.4	37.1
45208	99	DIRN	SUR	42	-81	148	0	0	30.2	7.8	31.2
45209	99	DIRN	SUR	43	-82	522	0	0	19.0	-27.2	33.1
45220	99	DIRN	SUR	43	-79	384	0	0	37.6	-8.7	38.6
5001002	99	DIRN	SUR	21	-67	385	0	0	60.2	42.1	73.5
5801955	99	DIRN	SUR	25	-63	2533	0	0	19.2	-2.0	19.3
5801958	99	DIRN	SUR	31	-80	3360	0	0	19.2	0.5	19.2
6001002	99	DIRN	SUR	31	-75	1184	0	0	23.5	-8.2	24.9
6100198	99	DIRN	SUR	37	-2	453	0	0	15.4	10.5	18.7
6100281	99	DIRN	SUR	40	0	263	0	0	33.1	-17.2	37.3
6100417	99	DIRN	SUR	38	0	320	0	0	40.2	-14.3	42.7
6200001	99	DIRN	SUR	45	-5	566	0	0	12.4	0.5	12.5
6200024	99	DIRN	SUR	44	-3	409	0	0	21.8	2.6	21.9
6200025	99	DIRN	SUR	44	-6	383	0	0	23.6	11.2	26.1
6200029	99	DIRN	SUR	49	-12	674	0	0	10.1	0.3	10.1
6200050	99	DIRN	SUR	50	-4	667	0	0	11.4	3.3	11.9
6200081	99	DIRN	SUR	51	-13	729	0	0	11.1	-1.0	11.2
6200082	99	DIRN	SUR	44	-8	540	5	0	12.7	115.7	116.4
6200083	99	DIRN	SUR	43	-9	485	0	0	14.1	8.1	16.3
6200084	99	DIRN	SUR	42	-9	524	0	0	22.5	-5.4	23.2
6200085	99	DIRN	SUR	36	-7	400	0	0	18.0	-5.6	18.9
6200091	99	DIRN	SUR	53	-5	718	0	0	13.9	3.0	14.3
6200092	99	DIRN	SUR	51	-11	674	0	0	14.5	-2.5	14.7
6200094	99	DIRN	SUR	52	-7	702	0	0	10.3	-0.6	10.3
6200095	99	DIRN	SUR	53	-16	688	0	0	11.6	8.5	14.3
6200103	99	DIRN	SUR	50	-3	658	0	0	9.0	4.3	10.0
6200105	99	DIRN	SUR	55	-13	717	0	0	10.4	-0.8	10.4
6200163	99	DIRN	SUR	47	-8	709	0	0	9.7	0.5	9.7
62029	99	DIRN	SUR	49	-12	1367	0	0	13.0	0.7	13.0
62050	99	DIRN	SUR	50	-4	1338	0	0	11.9	3.3	12.3
62081	99	DIRN	SUR	51	-13	1455	0	0	11.3	-1.0	11.3

DRIFTER MONITORING STATISTICS (EUCOS)
MONITORING CENTRE : ECMWF
ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
62091	99	DIRN	SUR	53	-5	714	0	0	14.2	2.7	14.4
62092	99	DIRN	SUR	51	-11	672	0	0	14.7	-3.1	15.0
62094	99	DIRN	SUR	52	-7	700	0	0	10.5	-1.1	10.5
62095	99	DIRN	SUR	53	-16	689	0	0	12.1	8.0	14.5
62103	99	DIRN	SUR	50	-3	1321	0	0	9.6	4.4	10.5
62105	99	DIRN	SUR	55	-13	1431	0	0	11.1	-1.1	11.2
62112	99	DIRN	SUR	58	0	1376	0	0	11.0	3.8	11.6
62114	99	DIRN	SUR	58	0	1393	0	0	11.4	-2.2	11.6
62163	99	DIRN	SUR	48	-9	1410	0	0	10.0	0.5	10.1
62305	99	DIRN	SUR	50	0	1291	0	0	19.8	5.1	20.4
62442	99	DIRN	SUR	49	-16	1436	0	0	13.6	-2.1	13.7
6400045	99	DIRN	SUR	59	-12	731	0	0	13.7	-0.8	13.7
6400046	99	DIRN	SUR	61	-4	699	0	0	10.6	2.0	10.8
64041	99	DIRN	SUR	61	-3	1352	0	0	11.4	5.9	12.8
64045	99	DIRN	SUR	59	-12	1460	0	0	14.3	-0.9	14.3
64046	99	DIRN	SUR	61	-4	1399	0	0	11.3	2.0	11.5
7001004	99	DIRN	SUR	28	-65	1136	0	0	28.5	-1.4	28.5
9193264	99	DIRN	SUR	40	-59	11	0	0	35.6	21.5	41.6

4.12 Table 24 - List of Assimilated BUFR Encoded Radiosonde Stations

ATGU3FT	DEN	FPUW5GN	GKA32CV	GQBZLZL	JNKN7JF	JPBN	KMPLHPW	LAGY8
LAGZ8	LAR	LRYQE3U	SLKFEGK	TLH	USIUB	USSIO	WDK38HS	WFF
XKQLWQB	YLV96WM	2TDJJ8J	7JUNA4N	7KPB	9ZT9MRK	01001	01004	01010
01028	01241	01400	01415	02185	02591	02836	02963	03005
03023	03238	03354	03502	03743	03808	03882	03918	03953
04018	04220	04270	04320	04339	04360	06011	06260	06447
06458	06610	07110	07145	07510	07645	07761	08001	08023
08190	08221	08302	08383	08430	08508	08522	08536	10035
10113	10184	10238	10304	10393	10410	10548	10618	10739
10771	10868	10954	10962	11010	11035	11120	11240	11520
11747	11952	12120	12374	12425	12575	12843	12982	13275
13388	14015	14240	15420	15614	16045	16064	16113	16144
16245	16332	16429	16546	16622	16716	16754	17030	17064
17095	17196	17220	17240	17351	17607	20046	20292	20674
21824	22008	22217	22271	22522	22820	22845	23205	23330
23415	23472	23802	23884	23921	23955	24266	24641	24688
24908	24947	25703	25913	26038	26075	26435	26477	26629
26708	27459	27707	27713	27962	28225	28275	28445	28661
28695	28722	28951	29572	29612	29698	30557	30673	30935
31004	31770	31873	31977	32061	32215	32540	34122	34172
34731	35121	35671	37055	40179	40186	41217	42056	42079
42101	42111	42123	42182	42361	42369	42379	42516	42634
42647	42667	42675	42867	42886	42971	43049	43150	43185
43243	43353	45004	47102	47104	47135	47138	47155	47169
47186	47230	47269	47401	47412	47418	47582	47600	47646
47678	47741	47778	47807	47827	47909	47918	47945	47971
47991	48615	48650	48698	50527	50557	50774	50953	51076
51243	51431	51463	51644	51656	51709	51777	51828	51839
52203	52267	52323	52418	52533	52652	52681	52818	52836
52866	52983	53068	53463	53513	53543	53614	53772	53845
53915	54102	54135	54161	54218	54292	54340	54374	54511
54662	54727	54857	55299	55591	56029	56046	56080	56137
56146	56187	56492	56571	56651	56691	56739	56778	56964
56985	57083	57127	57131	57178	57245	57461	57494	57516
57541	57687	57749	57816	57957	57972	57993	58027	58150
58203	58238	58362	58424	58457	58606	58633	58665	58725
58847	59023	59134	59211	59265	59280	59293	59316	59431
59758	59981	60018	60390	60680	60715	60760	61901	61980
61998	65344	66160	67083	68424	68592	68816	68842	70026
70200	70219	70231	70261	70273	70316	70326	70350	70361
70398	71043	71081	71082	71109	71119	71603	71722	71802
71811	71815	71816	71845	71867	71906	71907	71908	71909
71913	71917	71924	71925	71926	71934	71945	71957	71964
72201	72202	72206	72208	72210	72215	72230	72233	72235
72240	72248	72249	72250	72251	72261	72265	72293	72305
72317	72318	72327	72340	72357	72363	72364	72365	72376
72388	72403	72426	72440	72451	72456	72476	72489	72493
72501	72518	72520	72528	72558	72562	72572	72582	72597
72632	72634	72645	72649	72659	72662	72672	72681	72694
72712	72747	72764	72768	72776	72786	72797	72801	73033
73111	73140	74389	74455	74560	76225	76256	76394	76405
76458	76526	76595	76612	76644	76654	76679	76692	76743
76805	76903	78397	78486	78583	78866	78897	78954	78970
78988	80001	81405	82022	82026	82099	82107	82193	82244
82332	82532	82705	82824	82917	82965	83208	83378	83525
83554	83566	83612	83649	83746	83768	83779	83827	83840
83899	83928	83937	84372	84516	84622	84754	85442	85586
85799	85934	87155	87344	87585	87715	87860	88889	89002
89062	89504	89564	89571	89592	89611	89625	89642	89859

91165	91212	91285	91334	91348	91376	91408	91413	91592
91610	91765	91843	91925	91938	91948	91958	93112	93417
93817	93844	94001	94005	94113	94155	94159	94160	94170
94203	94299	94302	94312	94326	94332	94403	94430	94461
94510	94610	94637	94638	94653	94659	94711	94767	94775
94802	94821	94865	94910	94995	94996	95282	95527	96035
96413	96441	96471	96509	96749	96996	97180	97230	97502

4.13 Table 25 - List of BUFR Encoded Radiosonde Stations with no TAC Counterpart

_646316a		ATGU3FT	CMA	DEN	FPUW5GN	GKA32CV	GQBZLZL	JNKN7JF
KMPLHPW	LAGY8	LAGZ8	LAR	LRYQE3U	SLKFEGK	TLH	WDK38HS	WFF
XKQLWQB	YLV96WM	2TDJJ8J	7JUNA4N	7KPB	9ZT9MRK	01001	01004	01010
01028	01241	01400	01415	02836	02963	06447	06610	07110
07145	07510	07645	07761	08001	08023	08190	08221	08302
08383	08430	08508	08522	08536	11010	11035	11120	11240
12575	14015	17607	37377	40186	41218	48698	50527	50557
50774	50953	51076	51243	51431	51463	51644	51656	51709
51777	51828	51839	52203	52267	52323	52418	52533	52652
52681	52818	52836	52866	52983	53068	53463	53513	53543
53614	53772	53845	53915	54102	54135	54161	54218	54292
54340	54374	54511	54662	54727	54857	55299	55591	56029
56046	56080	56137	56146	56187	56492	56571	56651	56691
56739	56778	56964	56985	57083	57127	57131	57178	57245
57461	57494	57516	57541	57687	57749	57816	57957	57972
57993	58027	58150	58203	58238	58362	58424	58457	58606
58633	58665	58725	58847	59023	59134	59211	59265	59280
59293	59316	59431	59758	59981	65344	66160	67083	72801
76743	76903	83952	84631	84734	89002	89504	89642	89859
91925	91938	91948	91958	93817	94001	94005	94113	94160
94767	94865							

5 Annex - Explanations of figures and tables

5.1 General

All information presented in this report is based on data received at ECMWF before the appropriate analysis. Approximate cut-off times (UTC) are shown below:

Analysis	Obs Time	Cut-off
0000	2101-0300	1530 (16 hours)
1200	0901-1500	1900 (7 hours)

5.2 Data Availability

For each observation type/parameter the average number of reports received per day is displayed in boxes of 5 degrees square. The numbers plotted are the nearest integer values - e.g. if 40 reports were received during the month then the average daily value plotted will be 1. If the average number is greater than 1000 then 999 will be plotted. If the average number is less than 0.5 then the digit 0 will be plotted. If no observations were received then the box will be left blank.

5.3 Data Quality

The information presented on data quality is based on differences between observations and the values of the most recent ECMWF forecast ("first guess") of the same parameter. Depending on the time of the observation, the forecast range is between 9 and 15 hours. The ability of a modern data assimilation system to provide the diagnostic facilities to monitor the performance of the observational network is demonstrated by A. Hollingsworth et. al., Monthly Weather Review, Vol 114, No. 5, May 1986.

It should be noted that:

(i) all results are based on software that may undergo further development;

(ii) although the quality of the ECMWF first-guess fields is of a generally high standard this is only true to a limited extent in the tropics, where small-scale processes such as convection are of much greater importance than in mid-latitudes, and the observations will sometimes not be representative of the scales of motion given by the first-guess;

(iii) the first-guess fields themselves will vary in accuracy depending on the density and quality of data, particularly in the upstream regions and over Antarctica and the southern hemisphere mid-latitudes. Direct comparisons between stations (or airlines) should preferably be restricted to observations in a reasonably homogeneous climatic region.

Tables 1-9 contain lists of SHIPs (including fixed marine platforms), DRIFTERs, TEMPs and TEMPs/PILOTs believed to have supplied suspect reports of surface pressure, geopotential height or wind during the month. The format of the tables is according to Recommendation 3 CBS-Ext(85) and the criteria for stations or data platforms to be classified as suspect are given at the top of each table. For tables 7 and 8 data for the worst

standard pressure level are shown. Units of RMS, standard deviation and bias are hPa in tables 1 and 4, m in table 7 and ms^{-1} in tables 2, 5 and 8. In tables 7 and 8 the station position is indicated; in the case of TEMPSHIPs and PILOTSHIPs this position is obtained from the first report of the month. The gross error limits for first-guess deviations of geopotential in table 7 are as follows:

Level	Geop
1000	100m
925	100m
850	100m
700	100m
500	150m
400	175m
300	200m
250	225m
200	250m
150	275m
100	300m
70	375m
50	400m
30	450m

The corresponding limits for wind (table 8) are:

Level	Wind
1000	$35ms^{-1}$
925	$35ms^{-1}$
850	$35ms^{-1}$
700	$40ms^{-1}$
500	$45ms^{-1}$
400	$50ms^{-1}$
300	$60ms^{-1}$
250	$60ms^{-1}$
200	$50ms^{-1}$
150	$50ms^{-1}$
100	$45ms^{-1}$

In table 7 the weighted RMS values at standard levels are calculated using the following weights:

Level	Weight
1000	3.70
925	3.55
850	3.40
700	2.90
500	2.20
400	1.90
300	1.60
250	1.50
200	1.37
150	1.19
100	1.00
70	0.87
50	0.80
30	0.64

Tables 10 and 11 provide geopotential and wind quality statistics (100 hPa level) for TEMPSHIPs and PILOTSHIPs received during the month. Units and display format are identical to those in tables 7 and 8 respectively. Tables 13, 14 (50 hPa), 15 and 16 (100 hPa), 17 and 18 (500hPa), 19 and 20 (850hPa) provide similar radiosonde statistics for the EUCOS area.

Tables 21-23 are similar to tables 4-6 with data coverage restricted to the EUCOS area.

Figures 14-18 show global charts of SATOB and aircraft wind quality, where the statistics have been averaged over latitude/longitude boxes of 5 degrees square, and the mean observed minus first-guess (or 'bias') wind vectors have been plotted. All observations in the specified layers have been used. For comparison the mean observed wind (from the SATOB reports only) for each layer is shown in figures 14 and 15. A reference value of wind speed is plotted in the top right corner of each figure. An arrow is only plotted if 10 or more observations have been received in that 5 degree square.

Table 12 provides quality statistics of aircraft wind observations in the layer 300-150 hPa stratified by airline carrier. The format and specifications of the table have been defined by NMC Washington, the lead centre for the monitoring of aircraft and satellite data.

Table 24 shows list of Assimilated BUFR Encoded Radiosonde Stations monitored within the month.

Table 25 shows list of BUFR Encoded Radiosonde Stations with no TAC Counterpart monitored within the month.