



ECMWF Global Data Monitoring Report

September 2026

*This paper has not been published
and has only a very limited circulation.*

*Permission to quote from it should be
obtained from the ECMWF.*

**European Centre for Medium-Range Weather Forecasts
Europäisches Zentrum für mittelfristige Wettervorhersage
Centre européen pour les prévisions météorologiques à moyen terme**

Contents

1	Introduction	4
2	Data summary - History of events	5
2.1	Radiosondes	5
2.2	Drifting Buoys	7
3	Global monitoring statistics	7
3.1	Data Availability	7
3.2	Data Quality	7
3.2.1	Figure 1 - Availability - SYNOP PRESSURE	9
3.2.2	Figure 2 - Availability - DRIFTER PRESSURE	10
3.2.3	Figure 3 - Availability - TEMP 500 hPa geopotential	11
3.2.4	Figure 4 - Availability - TEMP/PILOT 300 hPa wind	12
3.2.5	Figure 5 - Availability - AIRCRAFT winds 300-150 hPa	13
3.2.6	Figure 6 - Availability - SATOB winds 400-150 hPa	14
3.2.7	Figure 7 - Availability - SATOB winds 1000-700 hPa	15
3.2.8	Figure 8 - Availability - METOP-B ATOVS : AMSU-A	16
3.2.9	Figure 9 - Availability - METOP-C ATOVS : AMSU-A	17
3.2.10	Table 1 - Suspect ships and fixed marine platforms: Surface pressure - (hPa)	18
3.2.11	Table 2 - Suspect ships and fixed marine platforms: Wind speed (m/s)	20
3.2.12	Table 3 - Suspect ships and fixed marine platforms: Wind direction (DEGREES)	21
3.2.13	Table 4 - Suspect drifters: Surface pressure (HPA)	22
3.2.14	Table 5 - Suspect drifters: Wind speed (m/s)	23
3.2.15	Table 6 - Suspect drifters: Wind direction (degrees)	24
3.2.16	Table 7 - Suspect radiosondes: Geopotential height (metres)	26
3.2.17	Table 8 - Suspect radiosondes: Wind (m/s)	27
3.2.18	Table 9 - Suspect radiosondes: Wind direction (degrees)	28
3.2.19	Figure 10 - Suspect TEMP observations - geopotential : 00 UTC	29
3.2.20	Figure 11 - Suspect TEMP observations - geopotential : 12 UTC	30
3.2.21	Figure 12 - Suspect TEMP/PILOT observations - wind : 00 UTC	31
3.2.22	Figure 13 - Suspect TEMP/PILOT observations - wind : 12 UTC	32
3.2.23	Table 10 - Radiosonde monitoring statistics (SHIPs): Geopotential height (metres)	33
3.2.24	Table 11 - Radiosonde monitoring statistics (SHIPs): Wind (m/s)	35
3.2.25	Figure 14 - SATOB Winds: 700-1000hPa	37
3.2.26	Figure 15 - SATOB Winds: 150- 400hPa	38
3.2.27	Figure 16 - SATOB Winds: 700-1000hPa	39
3.2.28	Figure 17 - SATOB Winds: 150- 400hPa	40
3.2.29	Figure 18 - AIRCRAFT Winds: 150- 300hPa	41
3.2.30	Table 12 - Airep Monitoring Statistics For Airline Carriers (Global)	42
4	EUCOS Area Monitoring Statistics	51
4.1	Table 13 - Radiosonde Monitoring Statistics (EUCOS): 50 hPa Geopotential height (metres)	52
4.2	Table 14 - Radiosonde Monitoring Statistics (EUCOS): 50 hPa Wind (m/s)	55
4.3	Table 15 - Radiosonde Monitoring Statistics (EUCOS): 100 hPa Geopotential height (metres)	58
4.4	Table 16 - Radiosonde Monitoring Statistics (EUCOS): 100 hPa Wind (m/s)	61
4.5	Table 17 - Radiosonde Monitoring Statistics (EUCOS): 500 hPa Geopotential height (metres)	64
4.6	Table 18 - Radiosonde Monitoring Statistics (EUCOS): 500 hPa Wind (m/s)	67
4.7	Table 19 - Radiosonde Monitoring Statistics (EUCOS): 850 hPa Geopotential height (metres)	70
4.8	Table 20 - Radiosonde Monitoring Statistics (EUCOS): 850 hPa Wind (m/s)	73
4.9	Table 21 - Drifter Monitoring Statistics (EUCOS): Surface pressure (hpa)	76
4.10	Table 22 - Drifter Monitoring Statistics (EUCOS): Wind speed (m/s)	86
4.11	Table 23 - Drifter Monitoring Statistics (EUCOS): Wind direction	91
4.12	Table 24 - List of Assimilated BUFR Encoded Radiosonde Stations	98
4.13	Table 25 - List of BUFR Encoded Radiosonde Stations with no TAC Counterpart	100

5 Annex - Explanations of figures and tables	101
5.1 General	101
5.2 Data Availability	101
5.3 Data Quality	101

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)
SATOBS 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 percentage 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	Aug	Sep	Ident	Time	Aug	Sep
30557	(12)	11	0	16622	(00)	0	27
42727	(00)	27	0	16716	(12)	5	22
42867	(00)	29	1	32618	(12)	8	28
42867	(12)	30	1	42348	(12)	0	11
47678	(00)	34	19	43003	(00)	13	29
47678	(12)	33	19	43014	(12)	1	26
48839	(00)	15	0	43185	(12)	0	13
60155	(00)	28	6	60760	(12)	25	39
61052	(00)	26	11	66160	(12)	0	19
61052	(12)	25	11	78970	(00)	0	22
68263	(00)	13	0	82532	(00)	0	27
68263	(12)	11	0	82532	(12)	0	29
72250	(00)	31	16	84734	(12)	14	28
74005	(12)	17	1	-	-	-	-
87155	(12)	27	1	-	-	-	-
87585	(12)	30	2	-	-	-	-
87860	(12)	31	0	-	-	-	-
91680	(12)	24	7	-	-	-	-
94998	(00)	31	4	-	-	-	-
94998	(12)	30	0	-	-	-	-

2.2 Drifting Buoys

Surface pressure observations from **1208** 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.

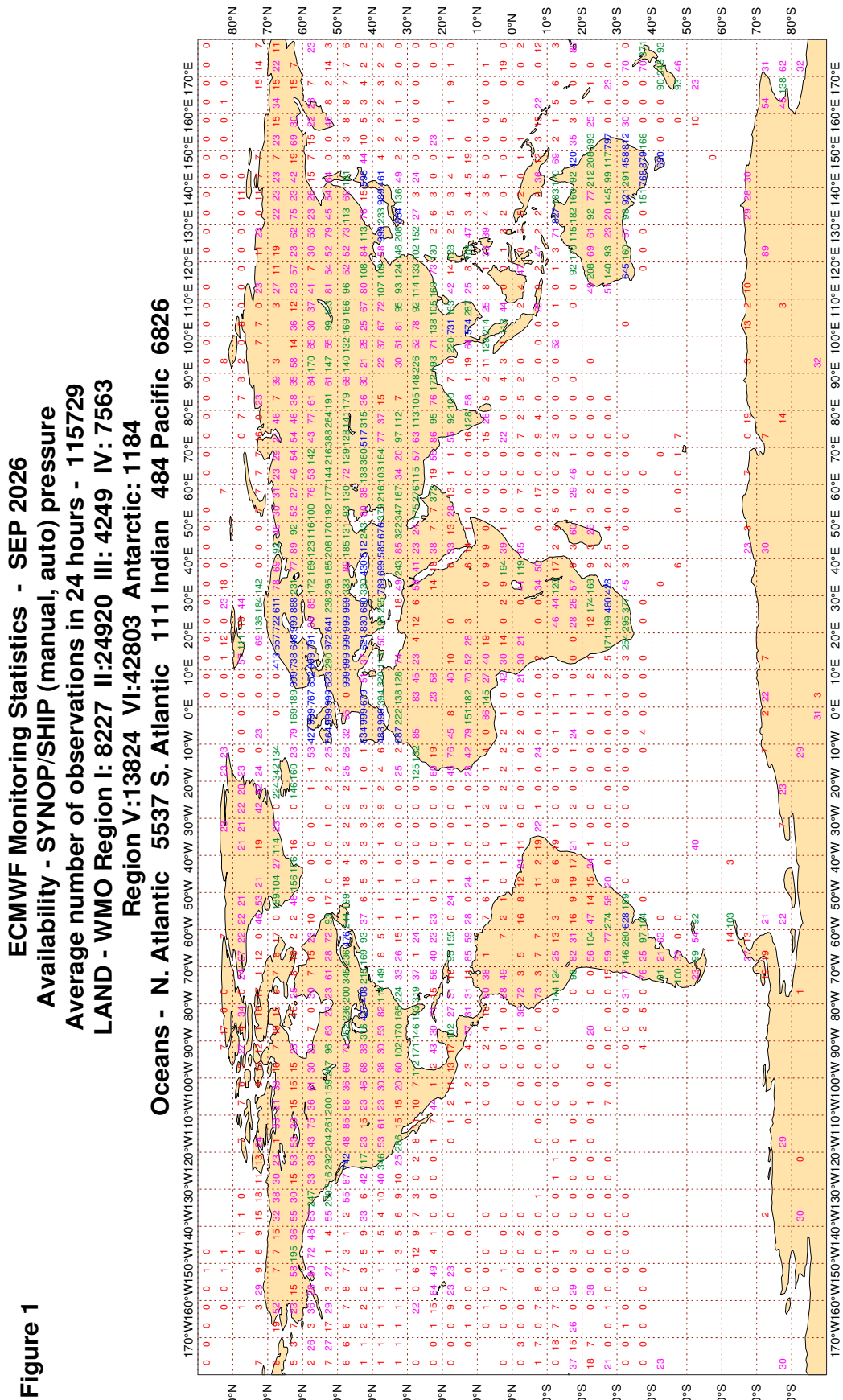
Tab	Parameter	Observation Time
10	Geopotential	00 and 12 UTC
11	Wind	00 and 12 UTC

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.

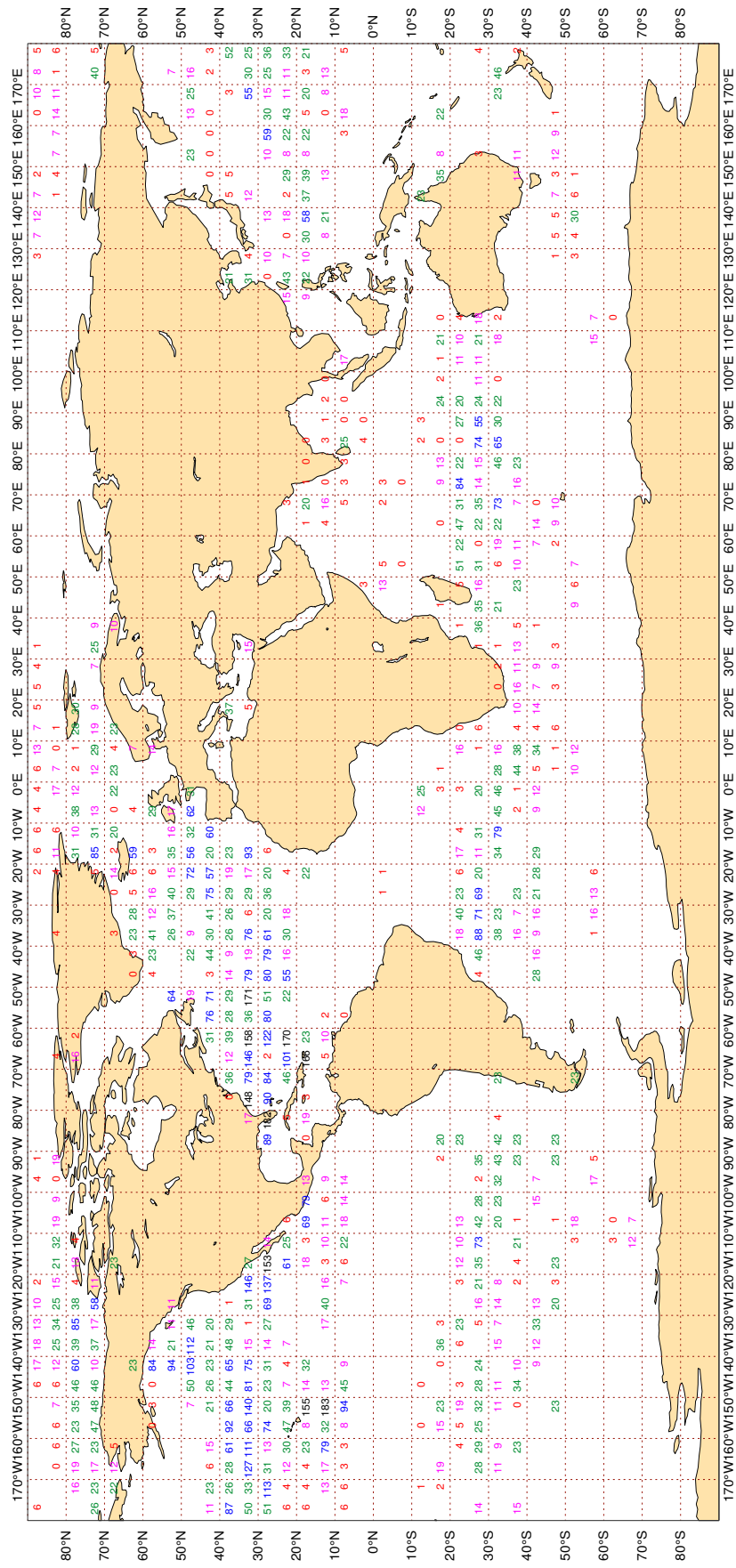
3.2.1 Figure 1 - Availability - SYNOP PRESSURE



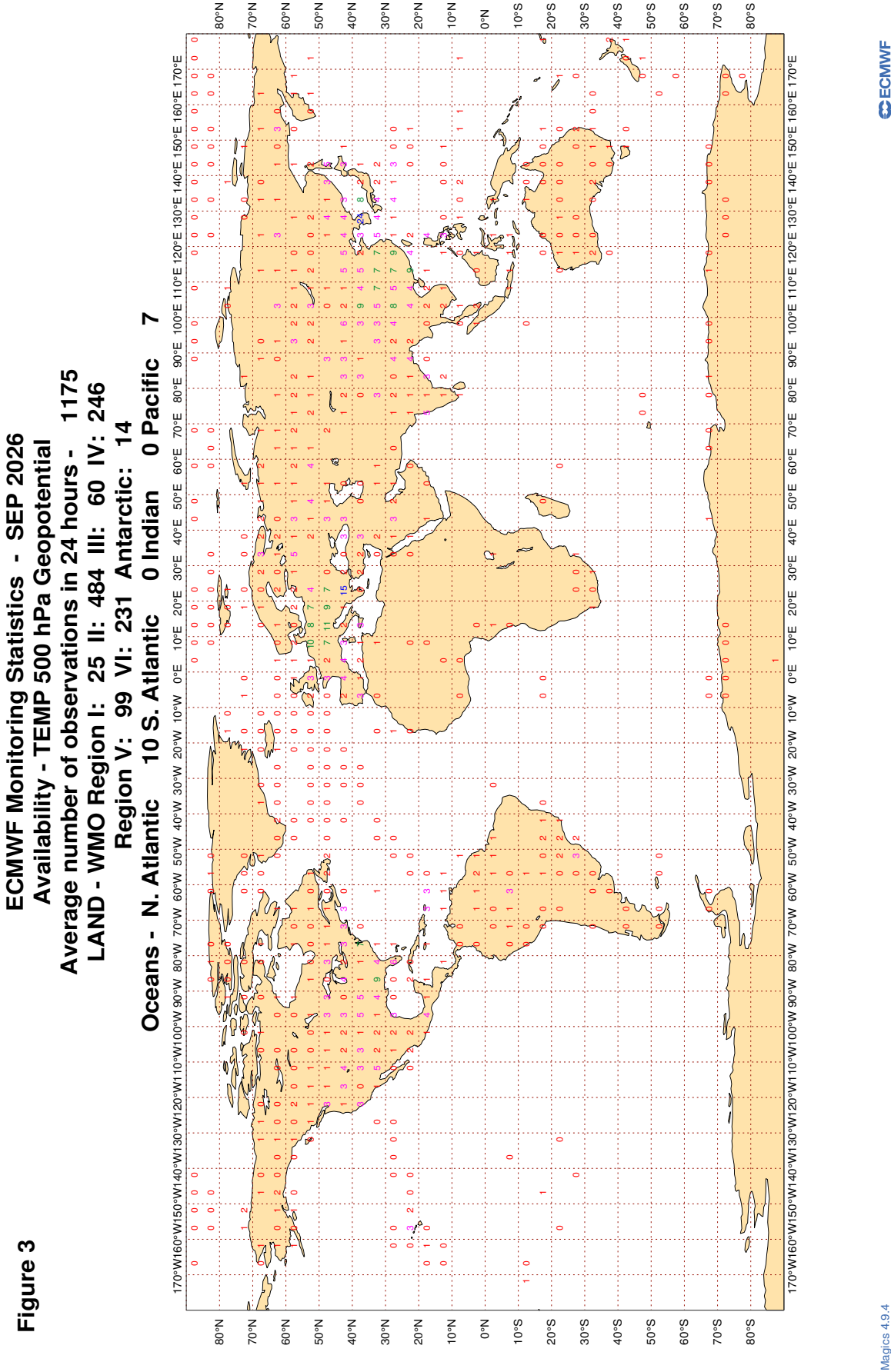
3.2.2 Figure 2 - Availability - DRIFTER PRESSURE

Figure 2

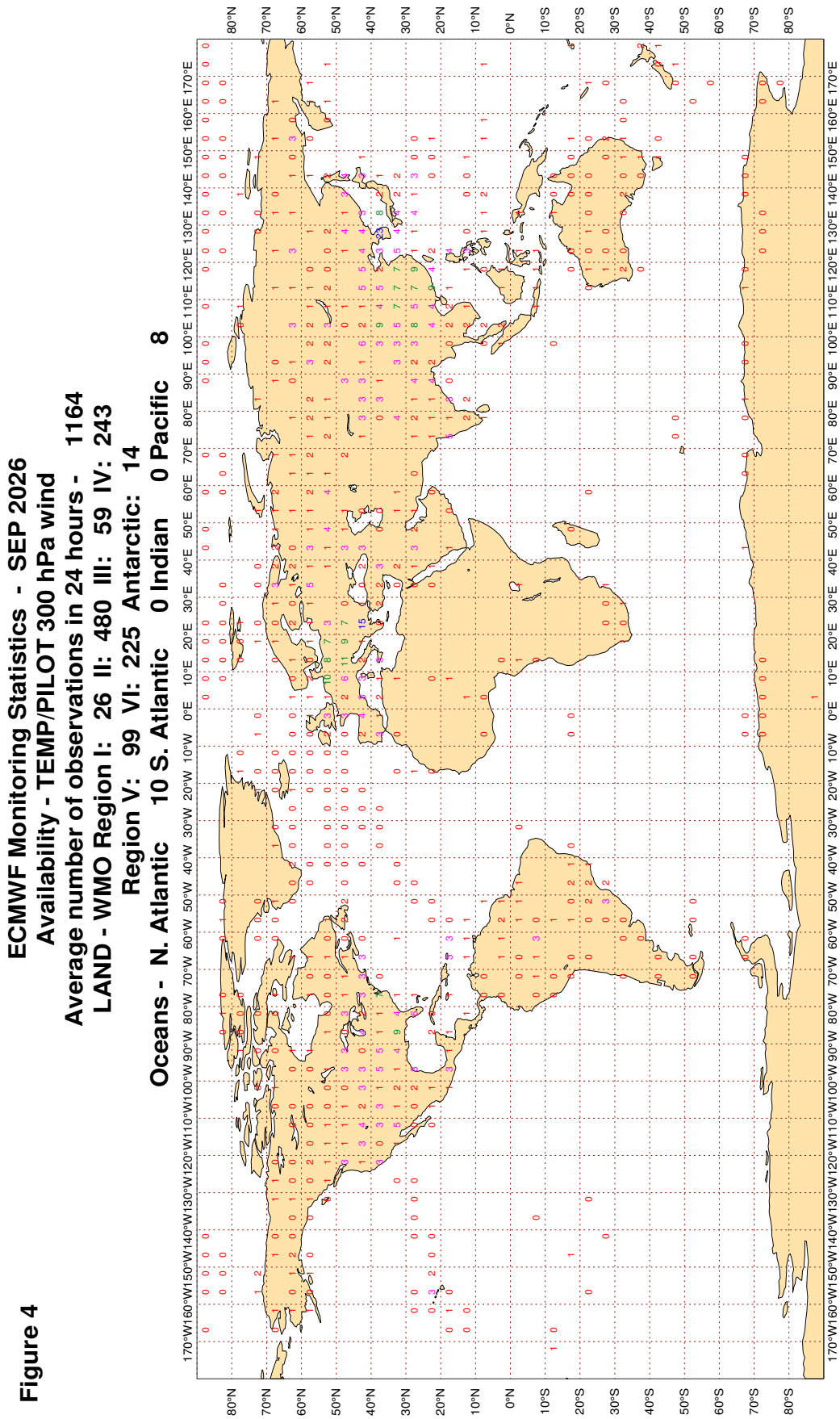
ECMWF Monitoring Statistics - SEP 2026
 Availability - DRIFTER PRESSURE
 Average number of observations in 24 hours - 16798
 Oceans - N. Atlantic 4840 S. Atlantic 1314 Indian 1683 Pacific 8961



3.2.3 Figure 3 - Availability - TEMP 500 hPa geopotential



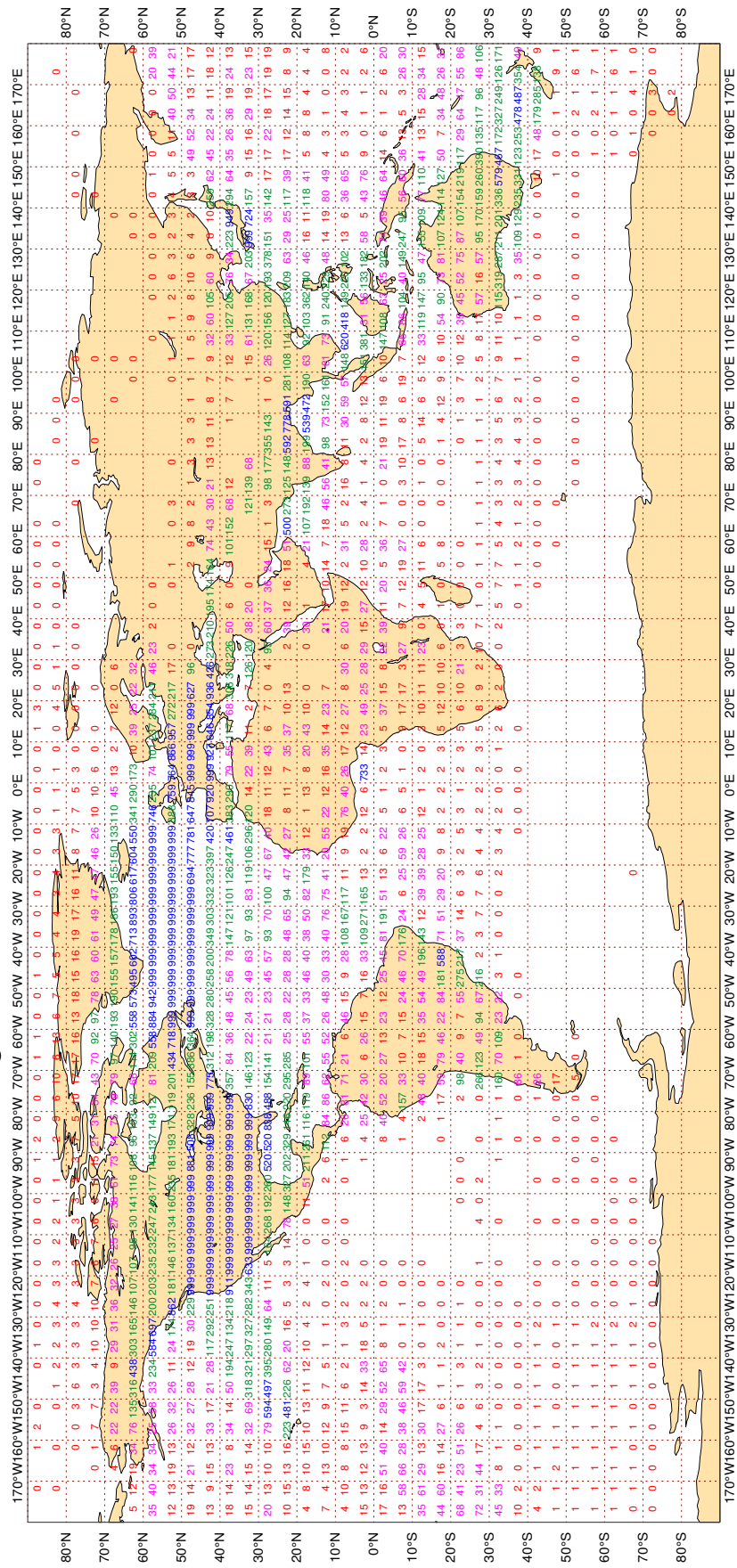
3.2.4 Figure 4 - Availability - TEMP/PILOT 300 hPa wind



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

Figure 5

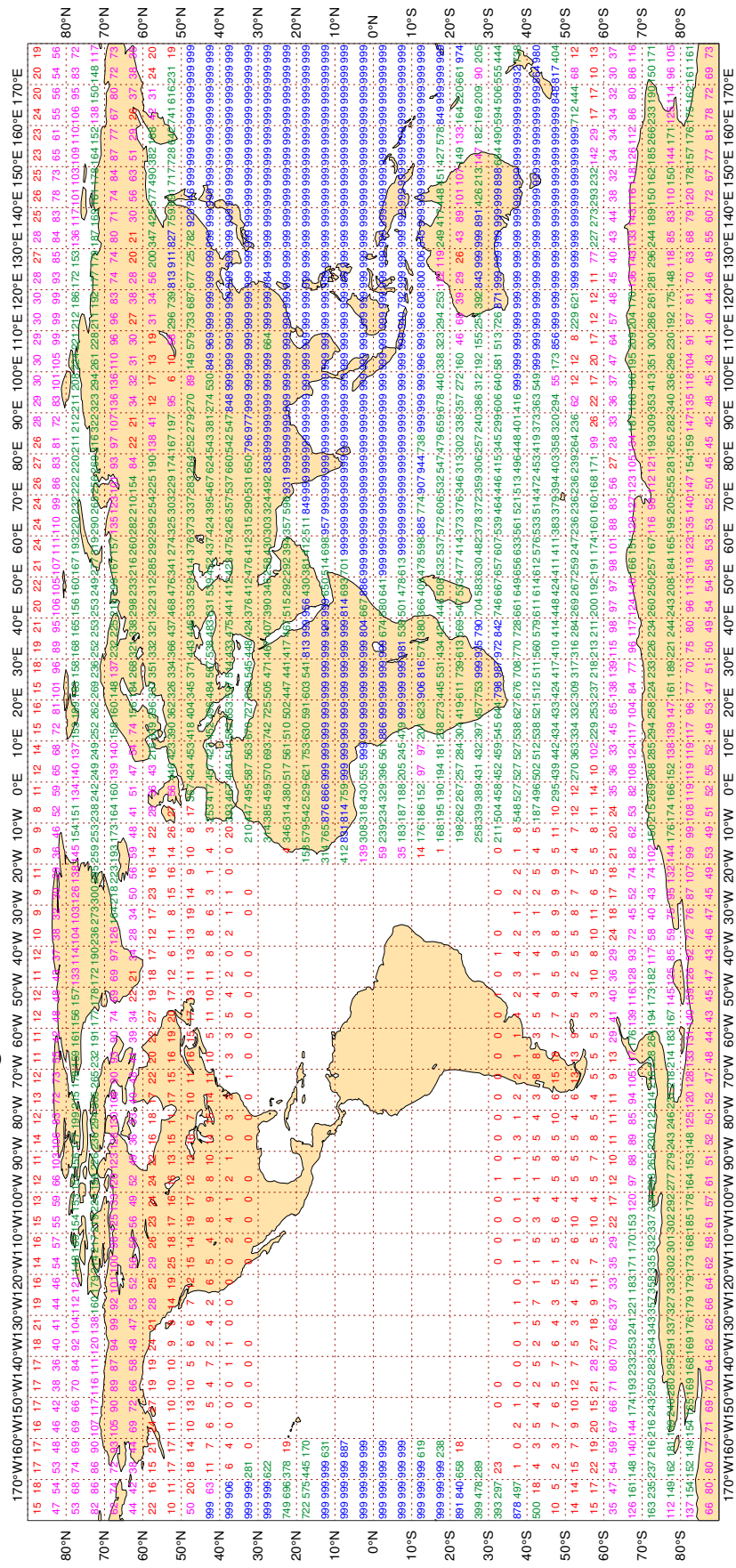
ECMWF Monitoring Statistics - SEP 2026
 Availability - Aircraft winds 300-150 hPa
 Average number of observations in 24 hours - 257933



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

Figure 6

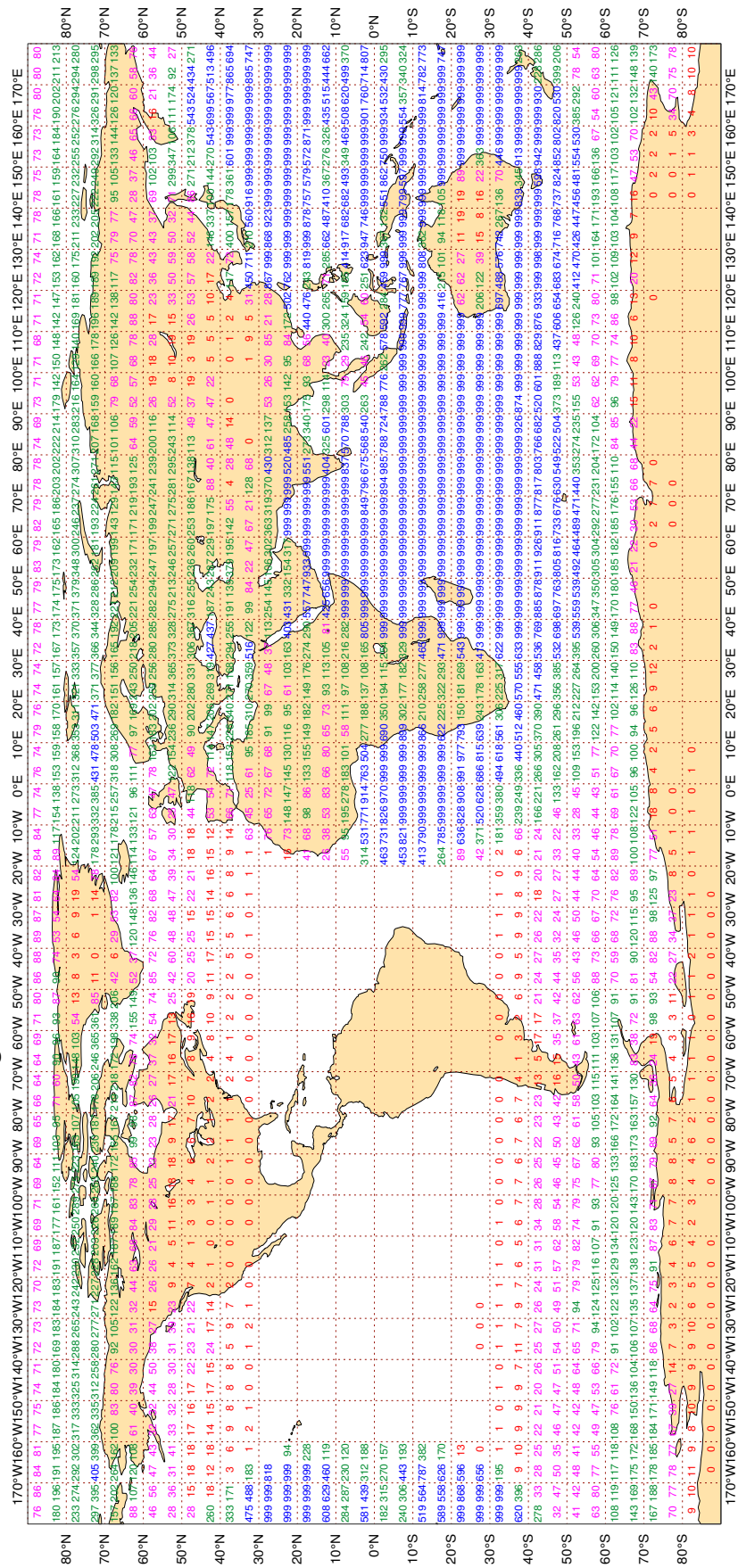
ECMWF Monitoring Statistics - SEP 2026
Availability - AMV winds 400-150 hPa
Average number of observations in 24 hours - 1228588



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

Figure 7

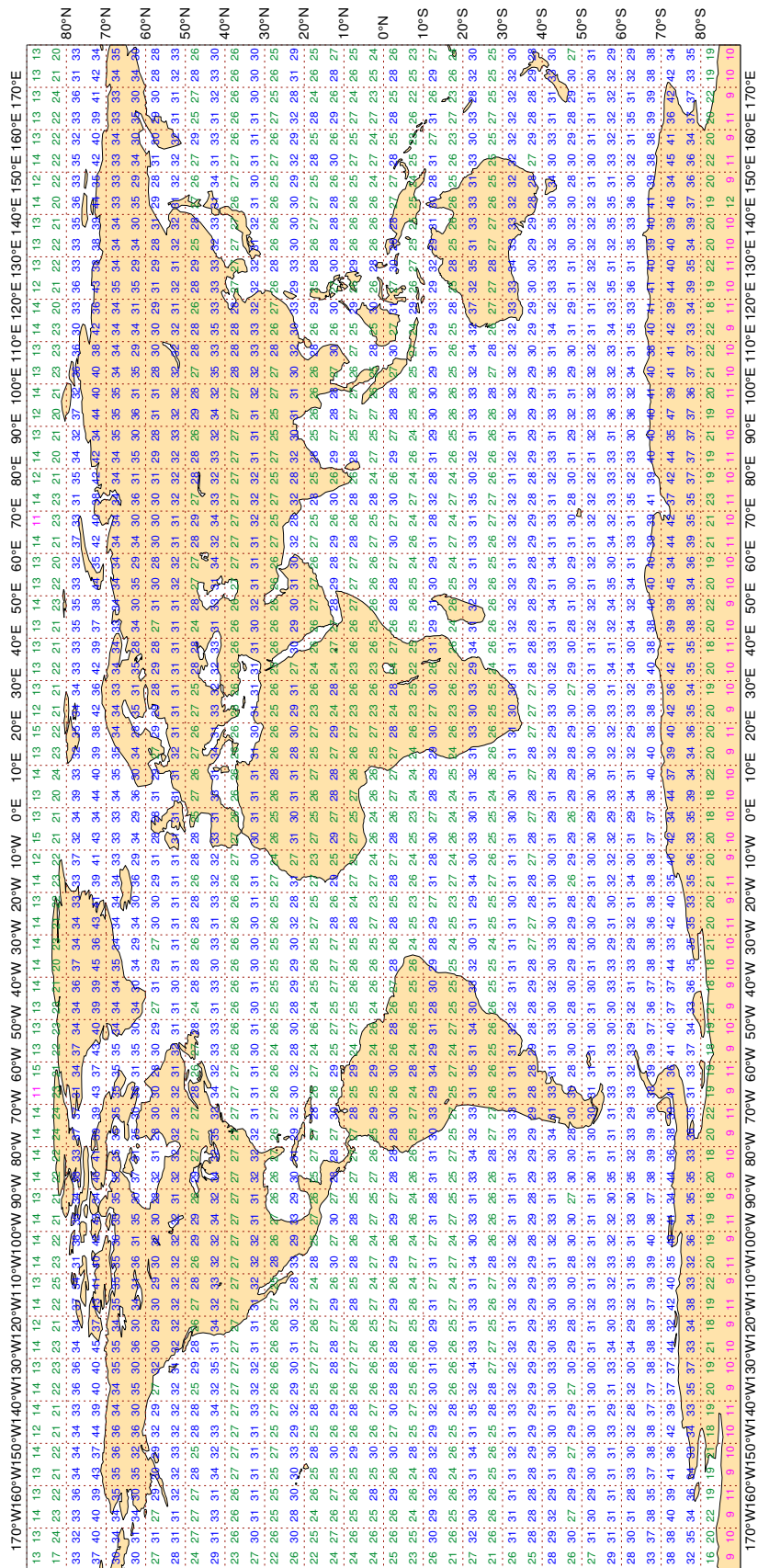
ECMWF Monitoring Statistics - SEP 2026
Availability - AMV winds 1000-700 hPa
Average number of observations in 24 hours - 800590



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

Figure 8

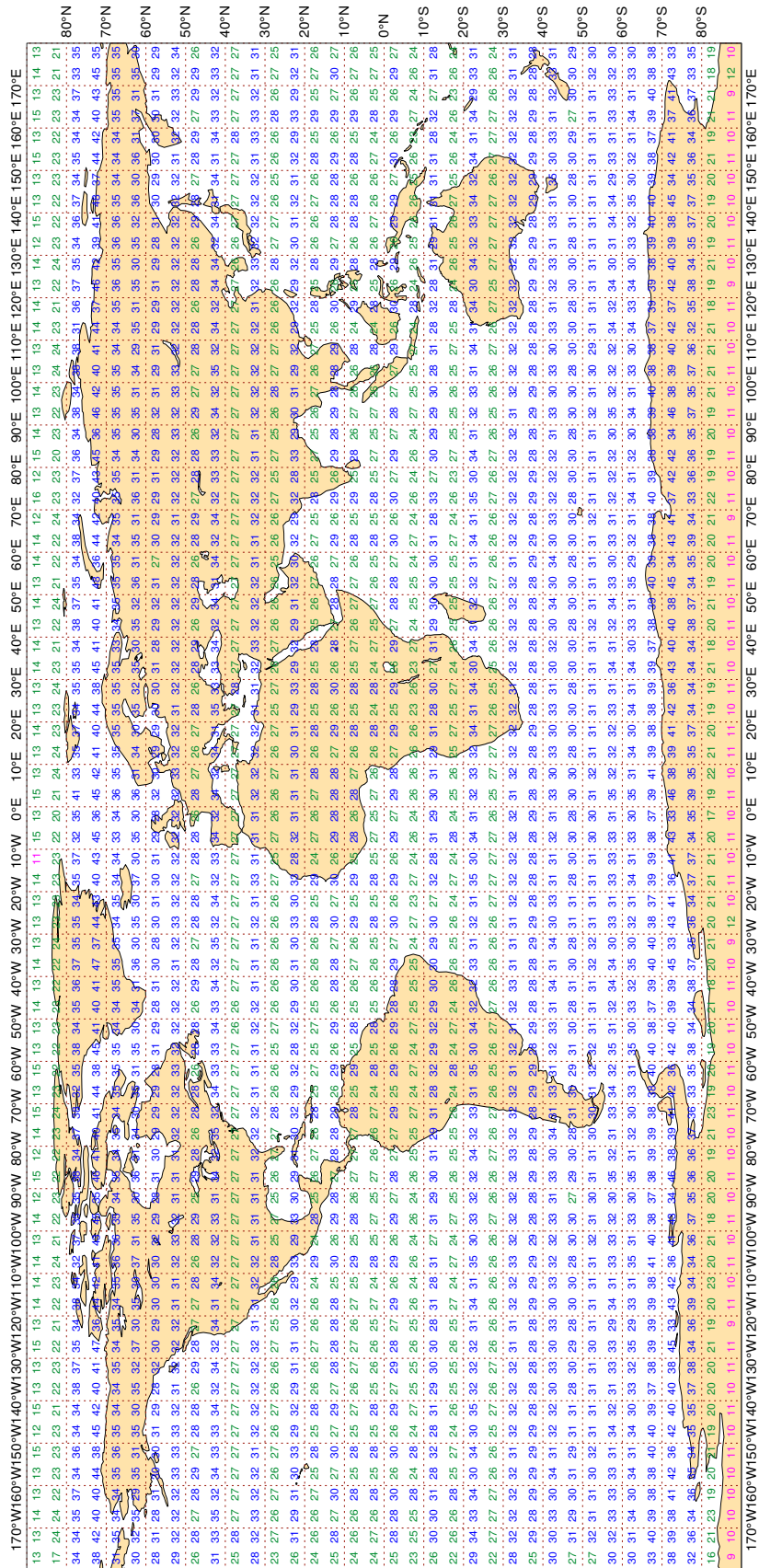
ECMWF Monitoring Statistics - SEP 2026
 Availability - METOP-B ATOVS : AMSU-A
 Average number of observations in 24 hours - 76199



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

Figure 9

ECMWF Monitoring Statistics - SEP 2026
Availability - METOP-C ATOVS : AMSU-A
Average number of observations in 24 hours - 77201



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 : SEP 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
3E2032	99	P	SUR	30	0	0.8	-3.7	3.8
3EIF9	99	P	SUR	26	0	2.2	-3.5	4.1
3EPU6	99	P	SUR	16	0	1.8	4.5	4.9
3ETR7	99	P	SUR	37	0	1.9	4.1	4.5
3FOS8	99	P	SUR	29	0	1.1	-3.5	3.7
45161	99	P	SUR	80	0	0.4	9.5	9.5
5LOH5	99	P	SUR	76	0	2.3	4.7	5.2
7JKC	99	P	SUR	19	0	0.9	3.3	3.4
7JUN	99	P	SUR	15	0	1.3	-3.4	3.7
7KGK	99	P	SUR	27	0	1.2	3.5	3.7
9HA4777	99	P	SUR	36	0	1.5	3.7	4.0
9HA4902	99	P	SUR	31	2	4.3	11.2	12.0
9HA5209	99	P	SUR	21	11	1.2	13.6	13.7
9HA5682	99	P	SUR	46	0	2.6	-8.0	8.4
9HA5782	99	P	SUR	22	0	5.0	0.5	5.0
9HJD9	99	P	SUR	24	0	1.3	-3.3	3.5
9V3241	99	P	SUR	67	0	1.7	-5.6	5.9
9V6222	99	P	SUR	23	0	0.7	3.7	3.8
9V6324	99	P	SUR	17	0	1.9	4.7	5.1
9V6689	99	P	SUR	18	0	1.7	5.0	5.3
9V7754	99	P	SUR	16	0	0.5	7.0	7.0
9V7761	99	P	SUR	42	0	3.1	4.2	5.2
9V9290	99	P	SUR	18	0	1.5	3.8	4.1
9V9567	99	P	SUR	39	0	3.0	3.2	4.4
ALGOM03	99	P	SUR	15	2	5.0	6.8	8.4
BHJH	99	P	SUR	24	0	1.3	10.7	10.8
C6BU3	99	P	SUR	37	0	0.9	5.2	5.3
C6CA7	99	P	SUR	35	0	2.5	3.9	4.6
C6CN5	99	P	SUR	17	0	2.3	4.1	4.7
C6IA9	99	P	SUR	16	0	3.3	9.5	10.0
C6TX6	99	P	SUR	71	0	4.3	10.7	11.5
C6WO8	99	P	SUR	58	0	0.5	4.5	4.6

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
CQ2153	99	P	SUR	24	0	1.8	5.0	5.3
H3WI	99	P	SUR	23	0	0.5	-3.0	3.1
KFMV	99	P	SUR	37	0	0.4	-3.1	3.2
LAPE7	99	P	SUR	89	0	2.1	4.7	5.1
LAQL7	99	P	SUR	26	0	1.7	6.0	6.3
MJKZ4	99	P	SUR	27	0	0.5	3.5	3.5
OBAA	99	P	SUR	20	0	1.3	-7.4	7.5
UAST	99	P	SUR	20	0	2.2	3.7	4.3
UBRI5	99	P	SUR	20	1	4.7	-3.8	6.0
UBRW	99	P	SUR	15	0	2.7	-4.9	5.6
V7A5254	99	P	SUR	21	0	0.8	5.1	5.2
V7A7277	99	P	SUR	20	0	1.1	-3.2	3.3
VRDG3	99	P	SUR	15	0	0.8	-3.1	3.2
VRFU8	99	P	SUR	52	3	2.3	-4.9	5.4
VRID2	99	P	SUR	31	0	1.8	-3.6	4.0
VRTV2	99	P	SUR	28	0	0.5	-5.5	5.5
WAZV	99	P	SUR	24	0	1.0	-3.8	4.0
WFLH	99	P	SUR	41	0	0.9	4.2	4.3
WGEB	99	P	SUR	108	0	0.5	5.9	5.9
XQCNSBH	99	P	SUR	15	0	1.2	-4.4	4.6
YDDP2	99	P	SUR	25	0	0.4	-3.5	3.5
ZGOJ7	99	P	SUR	34	0	0.2	-3.0	3.1

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 : SEP 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 : SEP 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	90	0	0	70.7	-6.5	71.0
45186	99	DIRN	SUR	63	0	0	29.4	36.7	47.1
45187	99	DIRN	SUR	57	0	0	29.7	40.5	50.2
45196	99	DIRN	SUR	74	0	0	27.1	-35.2	44.4
46118	99	DIRN	SUR	49	0	0	55.7	-60.1	81.9
63057	99	DIRN	SUR	106	0	0	10.8	32.6	34.3

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 : SEP 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	-25	74	646	514	10.6	2.0	10.8
2101868	99	P	SUR	50	-128	356	0	1.9	5.4	5.7
2501580	99	P	SUR	75	-128	134	42	3.1	11.0	11.4
2501586	99	P	SUR	76	-134	717	717	0.0	0.0	0.0
2601524	99	P	SUR	68	-168	709	691	2.0	11.7	11.8
3801872	99	P	SUR	79	-147	625	625	0.0	0.0	0.0
4101867	99	P	SUR	6	81	707	382	5.2	-6.3	8.2
4500161	99	P	SUR	43	-86	1443	0	0.4	9.5	9.5
45161	99	P	SUR	43	-86	485	0	0.6	9.5	9.6
4701558	99	P	SUR	79	-18	60	0	0.3	-4.0	4.1
4801639	99	P	SUR	70	-127	545	545	0.0	0.0	0.0
4801762	99	P	SUR	69	-117	720	534	5.8	-5.5	8.0
4801763	99	P	SUR	70	6	720	12	1.7	-12.3	12.5
4802582	99	P	SUR	64	-18	612	0	0.4	-9.8	9.9
5501690	99	P	SUR	-29	153	105	0	0.4	-8.3	8.3
5501735	99	P	SUR	-37	-93	719	719	0.0	0.0	0.0
5802227	99	P	SUR	53	-28	710	710	0.0	0.0	0.0
6203674	99	P	SUR	62	-7	154	0	2.4	10.2	10.4
6204526	99	P	SUR	44	-24	61	0	3.0	4.9	5.8
6801944	99	P	SUR	20	-143	684	682	0.0	14.7	14.7
7301552	99	P	SUR	-29	-132	185	0	1.4	-10.5	10.6
7801597	99	P	SUR	-17	40	57	38	2.2	12.0	12.2
7801770	99	P	SUR	58	-153	695	695	0.0	0.0	0.0
7810038	99	P	SUR	-10	-33	720	1	0.5	13.4	13.5
7810044	99	P	SUR	26	-80	91	0	0.3	-5.4	5.4
7810693	99	P	SUR	30	-153	720	0	0.4	-8.5	8.5
7810707	99	P	SUR	-44	-25	519	219	5.6	-6.7	8.8
7810860	99	P	SUR	34	-170	703	703	0.0	0.0	0.0
7810923	99	P	SUR	9	-100	699	699	0.0	0.0	0.0

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 : SEP 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
1801998	99	SPEED	SUR	14	-162	845	10	0	5.0	-5.7	7.6
4400069	99	SPEED	SUR	41	-73	2851	0	0	2.9	5.7	6.4

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

LIST OF SUSPECT STATIONS : DRIFTER
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : WIND DIRECTION (DEGREES)
 PERIOD : SEP 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
1000049	99	DIRN	SUR	23	-66	67	0	0	51.2	22.0	55.7
2200185	99	DIRN	SUR	37	125	494	0	0	21.6	23.9	32.2
2200193	99	DIRN	SUR	38	124	527	0	0	16.7	38.4	41.9
2200302	99	DIRN	SUR	37	131	556	0	0	20.2	22.0	29.8
2200309	99	DIRN	SUR	34	128	603	0	0	15.0	-20.5	25.4
2300451	99	DIRN	SUR	15	69	114	0	0	63.6	33.0	71.7
2300453	99	DIRN	SUR	8	73	113	0	0	65.2	23.7	69.3
2300459	99	DIRN	SUR	14	87	135	0	0	49.2	27.1	56.1
2300460	99	DIRN	SUR	7	88	61	0	0	141.1	20.5	142.6
23451	99	DIRN	SUR	15	69	145	0	0	58.7	36.7	69.2
23453	99	DIRN	SUR	8	73	144	0	0	69.1	25.2	73.6
23459	99	DIRN	SUR	14	87	172	0	0	45.3	20.0	49.5
23460	99	DIRN	SUR	7	88	58	0	0	141.3	21.7	143.0
23492	99	DIRN	SUR	11	72	123	0	0	16.1	-29.4	33.5
3001000	99	DIRN	SUR	28	-85	172	0	0	34.9	21.3	40.9
3001001	99	DIRN	SUR	23	-68	627	0	0	50.1	25.2	56.1
4100037	99	DIRN	SUR	34	-77	507	0	0	64.1	-10.5	64.9
41037	99	DIRN	SUR	34	-77	525	0	0	66.8	-8.9	67.4
42012	99	DIRN	SUR	30	-88	392	0	0	27.6	20.0	34.1
4500029	99	DIRN	SUR	43	-86	2564	0	0	24.5	25.8	35.6
4500164	99	DIRN	SUR	42	-82	264	0	0	65.1	10.4	66.0
4500168	99	DIRN	SUR	42	-86	2319	0	0	29.0	28.8	40.8
4500186	99	DIRN	SUR	42	-88	2293	0	0	29.5	34.9	45.7
4500187	99	DIRN	SUR	42	-88	2150	0	0	29.4	34.7	45.5
4500196	99	DIRN	SUR	42	-82	488	0	0	29.8	-36.3	47.0
4500202	99	DIRN	SUR	42	-83	2498	0	0	32.8	-21.2	39.1
4500204	99	DIRN	SUR	42	-82	2765	0	0	27.1	-26.4	37.8
4500206	99	DIRN	SUR	42	-82	2056	0	0	25.5	-20.1	32.4
4500209	99	DIRN	SUR	43	-82	3066	0	0	23.9	-21.4	32.1
45029	99	DIRN	SUR	43	-86	449	0	0	27.2	28.5	39.4
45164	99	DIRN	SUR	42	-82	256	0	0	66.3	9.7	66.9

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
45168	99	DIRN	SUR	42	-86	368	0	0	27.8	29.9	40.8
45186	99	DIRN	SUR	42	-88	400	0	0	36.1	31.9	48.2
45187	99	DIRN	SUR	43	-88	387	0	0	30.5	35.1	46.4
45196	99	DIRN	SUR	42	-82	454	0	0	27.3	-36.0	45.2
45202	99	DIRN	SUR	42	-83	457	0	0	31.3	-22.8	38.7
45204	99	DIRN	SUR	42	-82	468	0	0	27.9	-25.8	38.0
45209	99	DIRN	SUR	43	-82	487	0	0	23.7	-20.0	31.0
45220	99	DIRN	SUR	43	-79	437	0	0	37.6	-20.9	43.0
4600118	99	DIRN	SUR	49	-123	1546	0	0	47.3	-65.0	80.4
4600120	99	DIRN	SUR	48	-122	550	0	0	18.8	23.2	29.9
4600303	99	DIRN	SUR	49	-123	332	0	0	29.1	22.6	36.9
4600304	99	DIRN	SUR	49	-123	312	0	0	33.6	23.7	41.1
46092	99	DIRN	SUR	37	-122	333	0	0	14.4	-23.8	27.8
46118	99	DIRN	SUR	49	-123	312	0	0	54.5	-58.8	80.1
46120	99	DIRN	SUR	48	-122	157	0	0	20.7	21.2	29.6
46303	99	DIRN	SUR	49	-123	316	0	0	31.0	21.9	38.0
46304	99	DIRN	SUR	49	-123	323	0	0	38.6	20.7	43.8
5100309	99	DIRN	SUR	8	-170	2220	0	0	32.4	-52.8	62.0
5100311	99	DIRN	SUR	0	-140	1176	0	0	86.6	-3.2	86.7
6100216	99	DIRN	SUR	42	12	660	0	0	108.5	22.9	110.9
6100281	99	DIRN	SUR	40	0	155	0	0	44.6	-25.5	51.4
6100417	99	DIRN	SUR	38	0	394	0	0	73.2	141.7	159.5
6200082	99	DIRN	SUR	44	-8	552	0	0	23.4	112.6	115.0
6200086	99	DIRN	SUR	55	7	188	0	0	10.6	25.9	28.0
62153	99	DIRN	SUR	57	2	369	0	0	11.7	-26.5	29.0
63057	99	DIRN	SUR	59	2	1298	0	0	10.5	31.7	33.3
7001003	99	DIRN	SUR	29	-87	71	0	0	28.1	23.6	36.7

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 : SEP 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
23933	00	Z	250	61	69	30	1	21.0	-94.7	97.0
23933	12	Z	250	61	69	29	0	18.3	-79.0	81.1
23955	12	Z	200	60	78	24	0	43.3	83.3	93.9
25703	12	Z	50	63	152	27	0	99.4	-94.7	137.3
25703	00	Z	30	63	152	24	0	207.6	1.2	207.6
29839	12	Z	250	54	84	25	1	34.4	73.1	80.8
29839	00	Z	200	54	84	26	0	28.1	76.2	81.2
30054	00	Z	70	59	113	19	0	91.5	-99.3	135.0
31300	12	Z	50	54	127	27	0	85.7	-139.5	163.7
32618	00	Z	30	55	166	27	0	125.0	183.1	221.7
42056	12	Z	50	33	75	10	4	110.1	213.6	240.3
42348	00	Z	925	27	76	28	0	7.4	38.9	39.6
42348	12	Z	925	27	76	12	0	19.6	48.5	52.3
43285	00	Z	70	13	75	22	5	119.2	50.0	129.3
56492	00	Z	30	29	105	28	2	128.0	171.6	214.1
76644	12	Z	850	21	-90	25	0	5.3	34.7	35.1
76644	00	Z	850	21	-90	20	0	4.7	37.2	37.5
91680	00	Z	1000	-18	177	26	0	3.6	31.9	32.1

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 : SEP 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
47058	12	V	200	39	126	12	0	-12.5	5.1	15.7

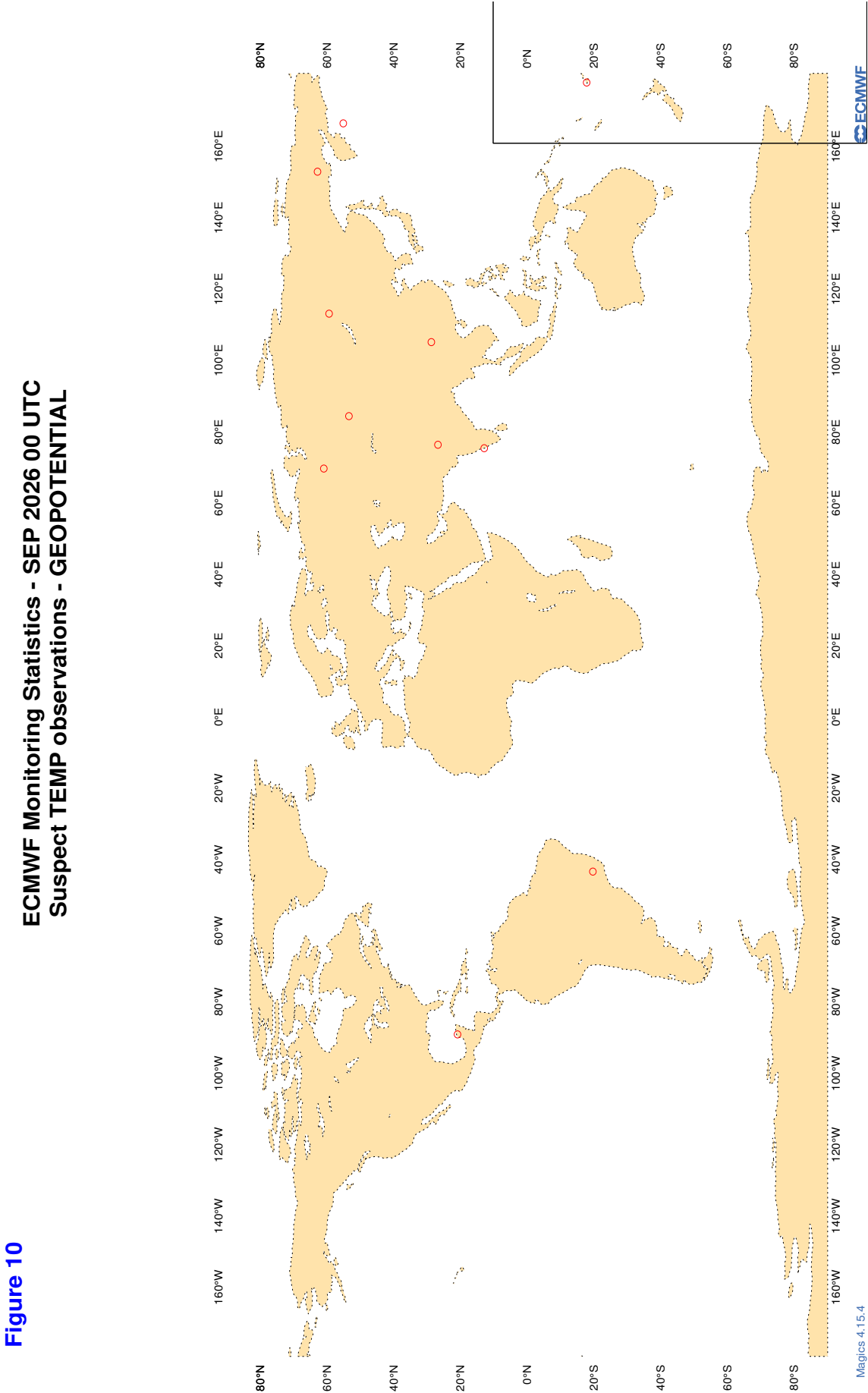
3.2.18 Table 9 - Suspect radiosondes: Wind direction (degrees)

LIST OF SUSPECT STATIONS : RADIOSONDES
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : WIND DIRECTION (DEGREES)
 AREA : GLOBAL
 PERIOD : SEP 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)

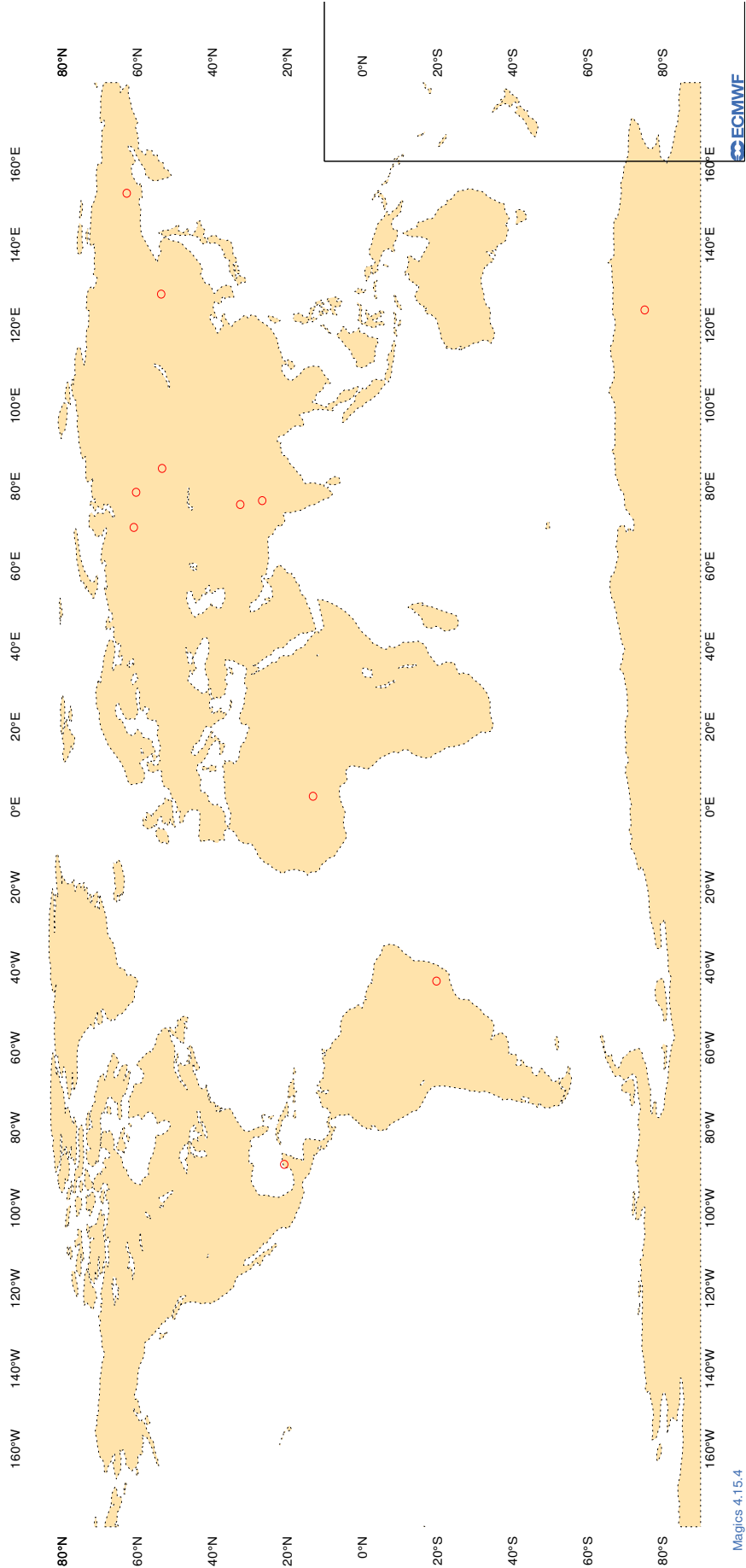
WMO IDENT	OBS TIME	ELM	LAT	LONG	NUM OBS	BIAS	MAX SPREAD	SD
48381	00	DD	16	103	15	13.2	5.8	24.0
48568	00	DD	7	101	18	-12.5	5.9	14.7

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



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

Figure 11
ECMWF Monitoring Statistics - SEP 2026 12 UTC
Suspect TEMP observations - GEOPOTENTIAL

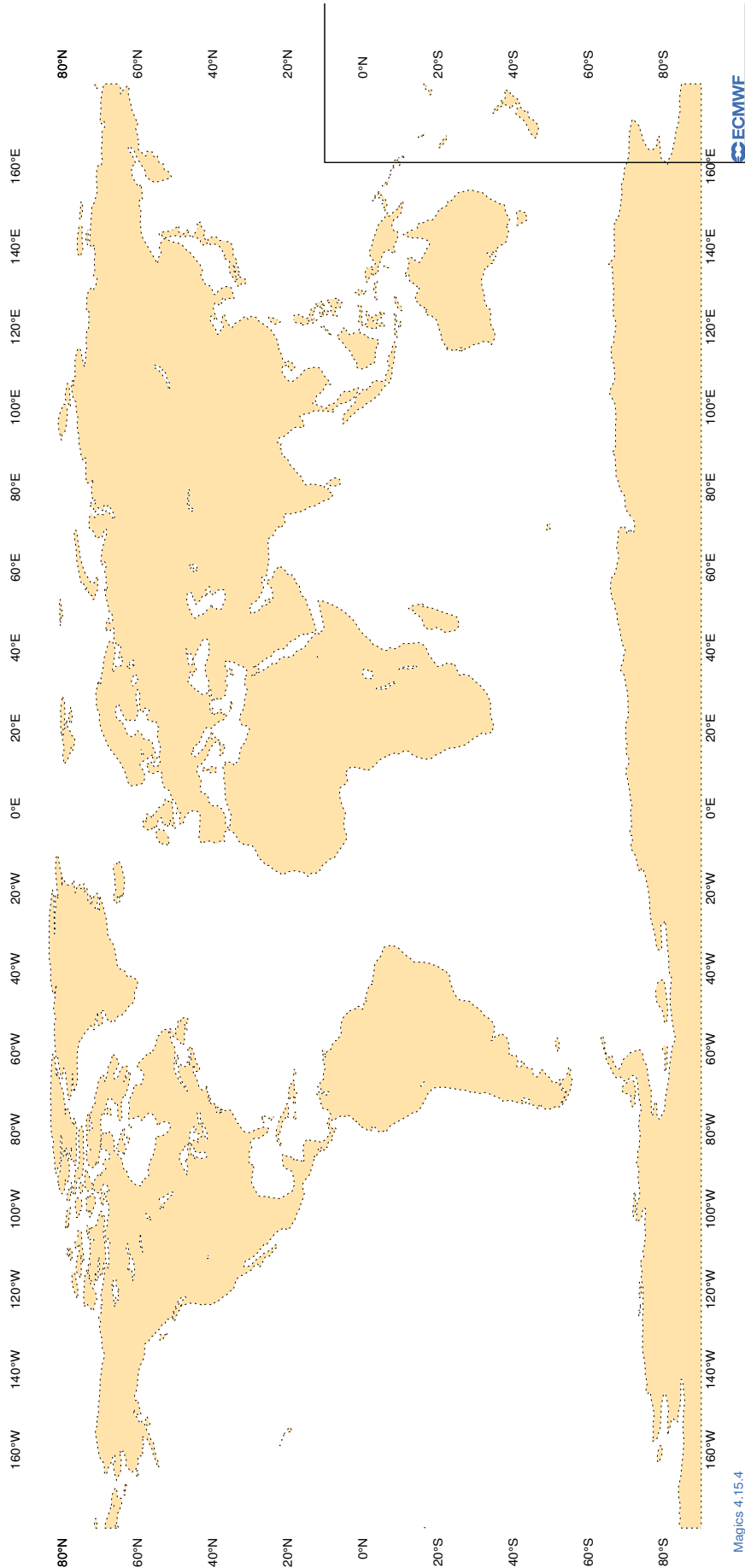


3.2.21 Figure 12 - Suspect TEMP/PILOT observations - wind : 00 UTC

Figure 12

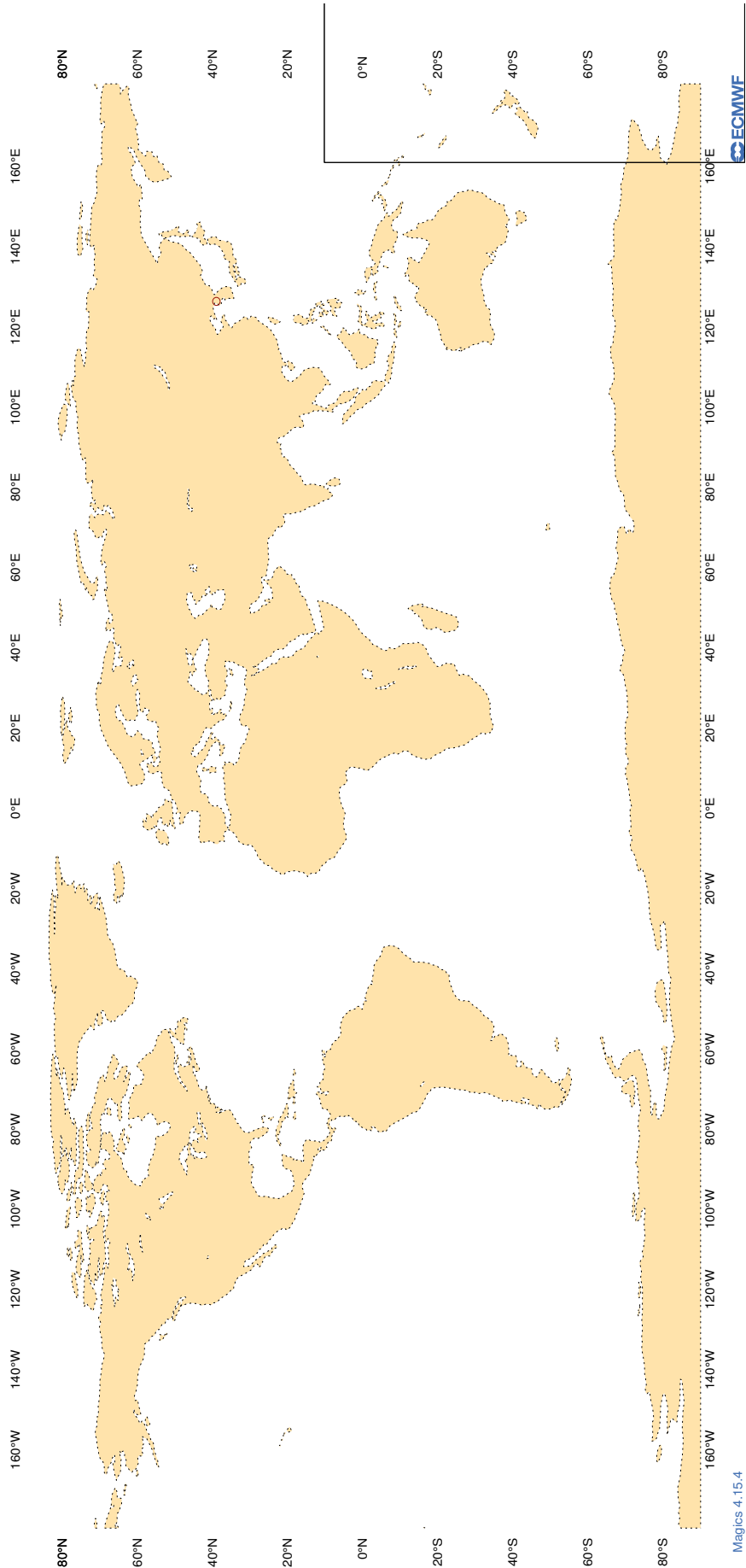
ECMWF Monitoring Statistics - SEP 2026 00 UTC

Suspect TEMP/PILOT observations - WIND



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

Figure 13
ECMWF Monitoring Statistics - SEP 2026 12 UTC
Suspect TEMP/PILOT observations - WIND



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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
2TDJJ8	12	Z	100	28	13.9	13.4
7JUNA4	12	Z	100	5	48.4	45.4
7JUNA4	00	Z	100	4	26.6	21.0
7KPB	00	Z	100	8	4.0	0.9
7KPB	12	Z	100	13	5.5	2.7
9ZT9MR	00	Z	100	9	49.4	-32.5
9ZT9MR	12	Z	100	13	60.6	-46.6
ASDE09	12	Z	100	2	42.3	-39.4
ATGU3F	12	Z	100	10	31.0	-21.6
ATGU3F	00	Z	100	11	26.4	-22.8
CMA	00	Z	100	16	68.7	68.4
CMA	12	Z	100	17	74.6	74.2
DEN	00	Z	100	24	63.7	62.5
DEN	12	Z	100	27	62.5	61.4
FPUW5G	12	Z	100	5	9.5	-9.1
GQBZLZ	12	Z	100	5	44.1	-29.5
GQBZLZ	00	Z	100	4	42.5	-37.5
JNKN7J	00	Z	100	4	15.1	14.7
JNKN7J	12	Z	100	6	22.5	16.1
JPBN	12	Z	100	5	4.8	-2.4
KMPLHP	12	Z	100	8	96.1	70.0
KMPLHP	00	Z	100	7	5.7	0.7
LAGY8	00	Z	100	3	44.6	-44.1
LAGY8	12	Z	100	1	55.0	-55.0
LAGZ8	12	Z	100	7	57.7	57.3
LAR	12	Z	100	12	62.0	61.8
LAR	00	Z	100	19	60.8	60.3
LRYQE3	00	Z	100	10	20.7	-15.2
LRYQE3	12	Z	100	9	60.6	56.7
SLKFEG	00	Z	100	6	5.6	-2.4
SLKFEG	12	Z	100	8	7.7	2.6
SMLQ	00	Z	100	19	19.5	2.7
SMLQ	12	Z	100	18	4.5	-2.2
TLH	12	Z	100	21	76.4	76.3
TLH	00	Z	100	12	71.9	71.8
USIUB	12	Z	100	1	22.0	22.0
USVAL	12	Z	100	0	0.0	0.0
WDK38H	00	Z	100	8	14.6	-14.2
WDK38H	12	Z	100	14	15.8	-15.6

RADIOSONDE MONITORING STATISTICS (SHIPS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
WFF	12	Z	100	21	70.0	69.7
WFF	00	Z	100	19	63.0	62.8
XKQLWQ	12	Z	100	20	38.2	34.6
YLV96W	12	Z	100	5	36.3	26.5
YLV96W	00	Z	100	2	24.7	-13.2

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OB TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
2TDJJ8	12	V	100	28	2.1	-0.2	0.1
7JUNA4	12	V	100	5	3.5	-0.3	1.2
7JUNA4	00	V	100	4	2.9	0.4	0.2
7KPB	00	V	100	8	2.8	-0.6	0.8
7KPB	12	V	100	13	2.7	-0.3	0.4
9ZT9MR	00	V	100	9	2.5	0.6	0.5
9ZT9MR	12	V	100	13	2.1	-0.1	0.2
ASDE09	12	V	100	2	2.5	0.5	0.0
ATGU3F	12	V	100	10	3.8	-0.6	0.1
ATGU3F	00	V	100	11	2.2	0.3	0.7
CMA	00	V	100	13	2.9	-0.1	0.0
CMA	12	V	100	17	3.6	-0.2	1.2
DEN	00	V	100	20	4.2	-0.7	-0.2
DEN	12	V	100	27	4.9	-0.9	-0.4
FPUW5G	12	V	100	5	1.6	0.1	0.2
GQBZLZ	12	V	100	5	2.4	-1.7	-0.5
GQBZLZ	00	V	100	4	3.3	1.3	-0.3
JNKN7J	00	V	100	4	4.0	-1.3	0.9
JNKN7J	12	V	100	6	2.7	1.2	1.2
JPBN	12	V	100	5	3.4	0.5	-2.3
KMPLHP	12	V	100	8	4.5	-2.0	0.7
KMPLHP	00	V	100	7	4.1	0.1	1.2
LAGY8	00	V	100	3	3.9	-1.2	1.0
LAGY8	12	V	100	1	4.9	1.9	-4.5
LAGZ8	12	V	100	7	1.7	-0.6	0.5
LAR	12	V	100	12	3.6	0.0	-0.3
LAR	00	V	100	16	5.7	-1.4	1.0
LRYQE3	00	V	100	10	3.3	0.6	1.1
LRYQE3	12	V	100	9	3.2	0.4	1.2
SLKFEG	00	V	100	6	2.3	0.5	-0.1
SLKFEG	12	V	100	8	3.1	1.4	0.4
SMLQ	00	V	100	19	2.5	0.0	0.4
SMLQ	12	V	100	18	1.9	-0.1	-0.3
TLH	12	V	100	21	3.1	-1.3	0.2
TLH	00	V	100	11	2.9	0.4	0.0
USIUB	12	V	100	1	1.5	0.9	-1.2
USVAL	12	V	100	0	0.0	0.0	0.0
WDK38H	00	V	100	8	1.4	-0.1	0.7
WDK38H	12	V	100	14	2.1	0.0	0.3

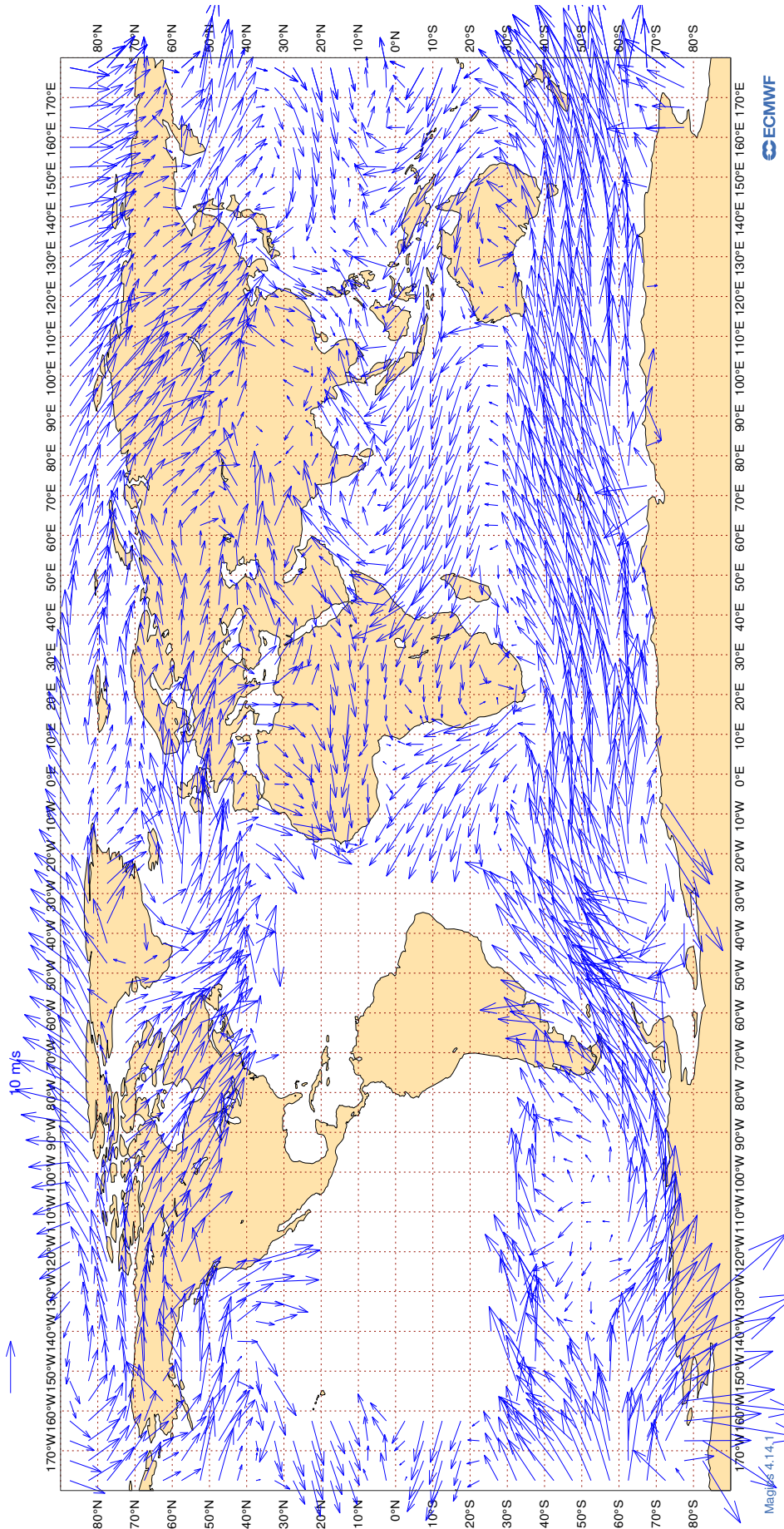
RADIOSONDE MONITORING STATISTICS (SHIPS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
WFF	12	V	100	21	3.6	-0.2	0.7
WFF	00	V	100	16	3.4	-1.1	0.3
XKQLWQ	12	V	100	20	4.0	1.3	0.4
YLV96W	12	V	100	5	2.6	-1.9	1.2
YLV96W	00	V	100	2	3.9	-2.9	0.4

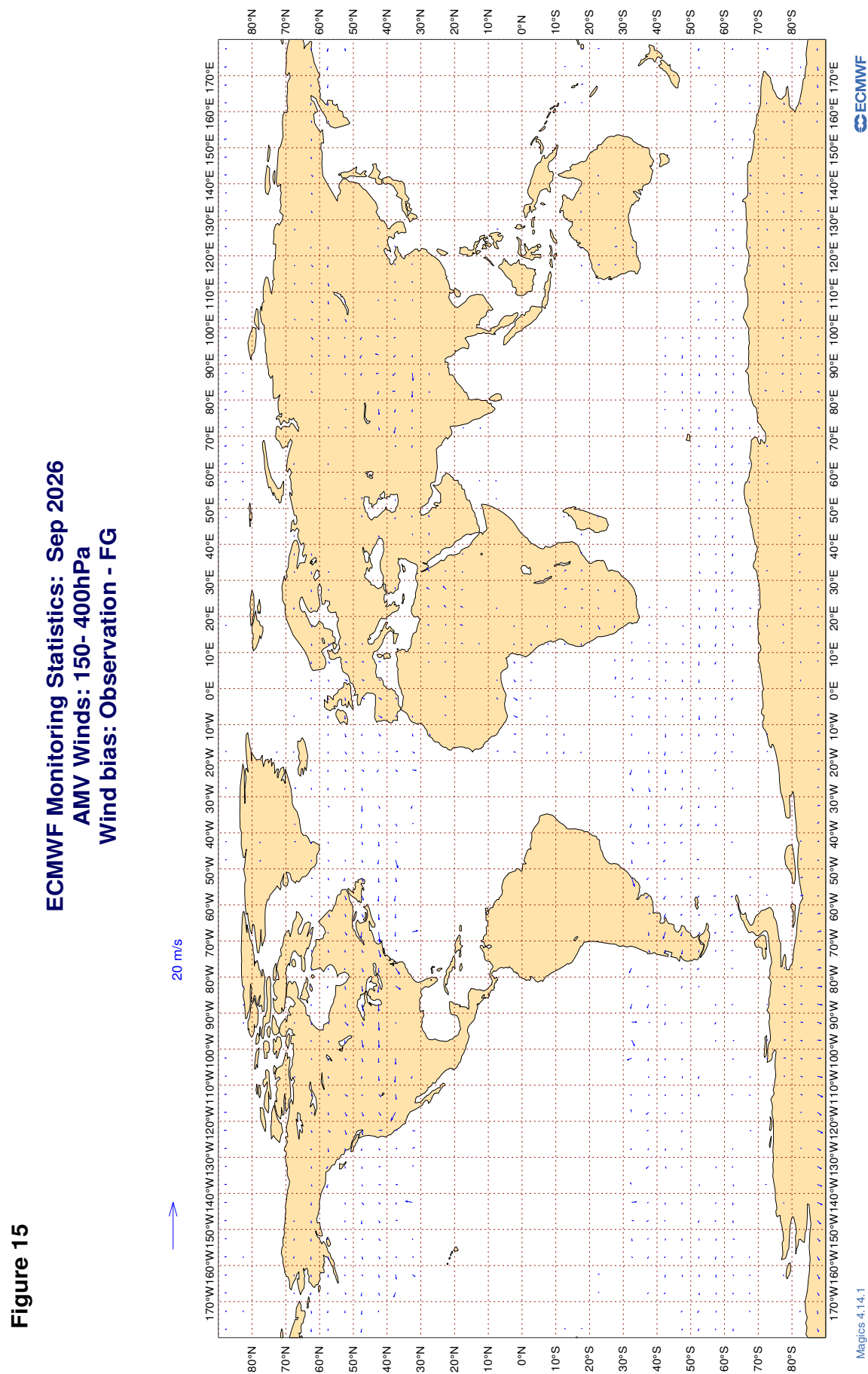
3.2.25 Figure 14 - SATOB Winds: 700-1000hPa

Figure 14

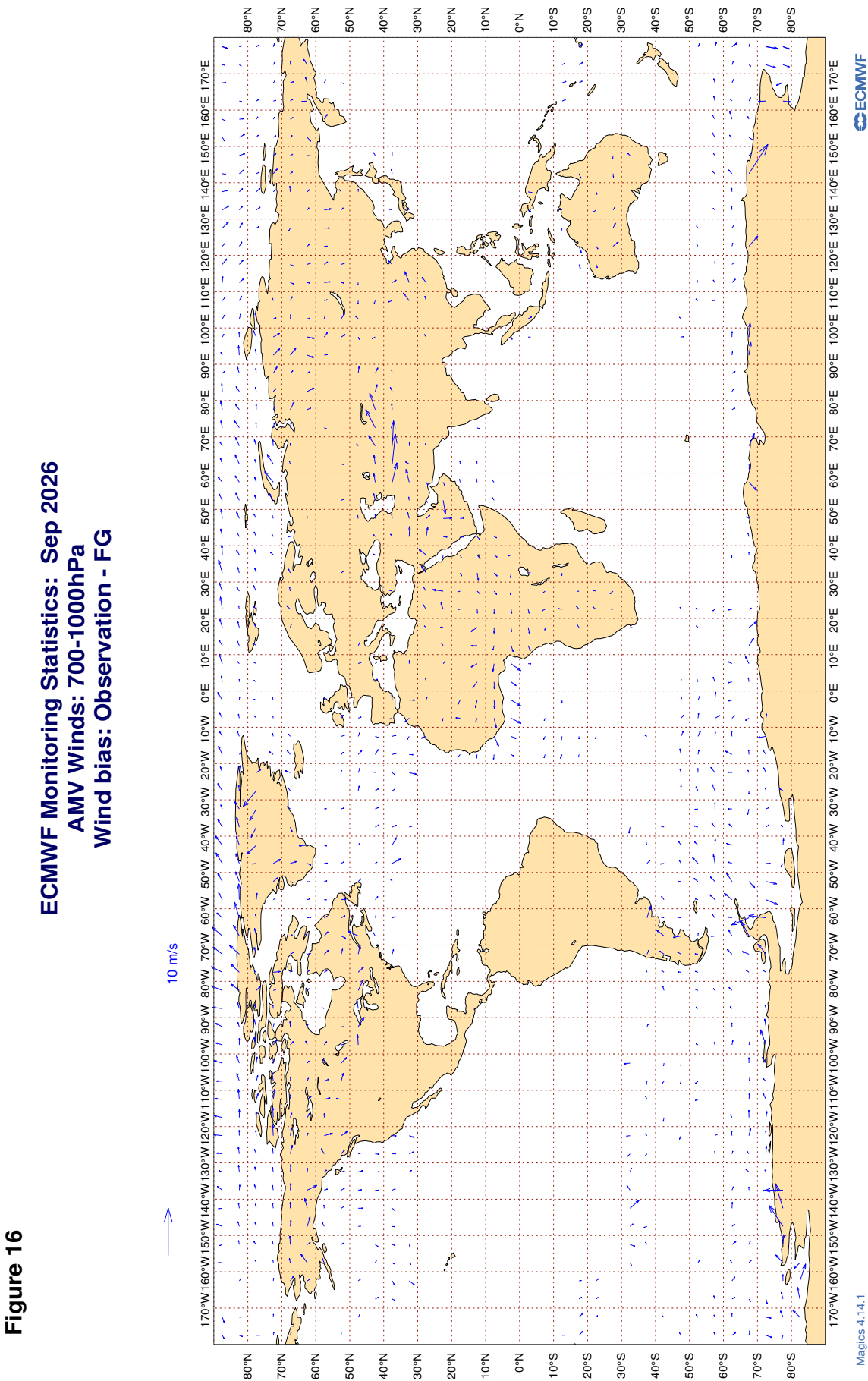
ECMWF Monitoring Statistics: Sep 2026
AMV Winds: 700-1000hPa
Mean Observed Wind



3.2.26 Figure 15 - SATOB Winds: 150- 400hPa



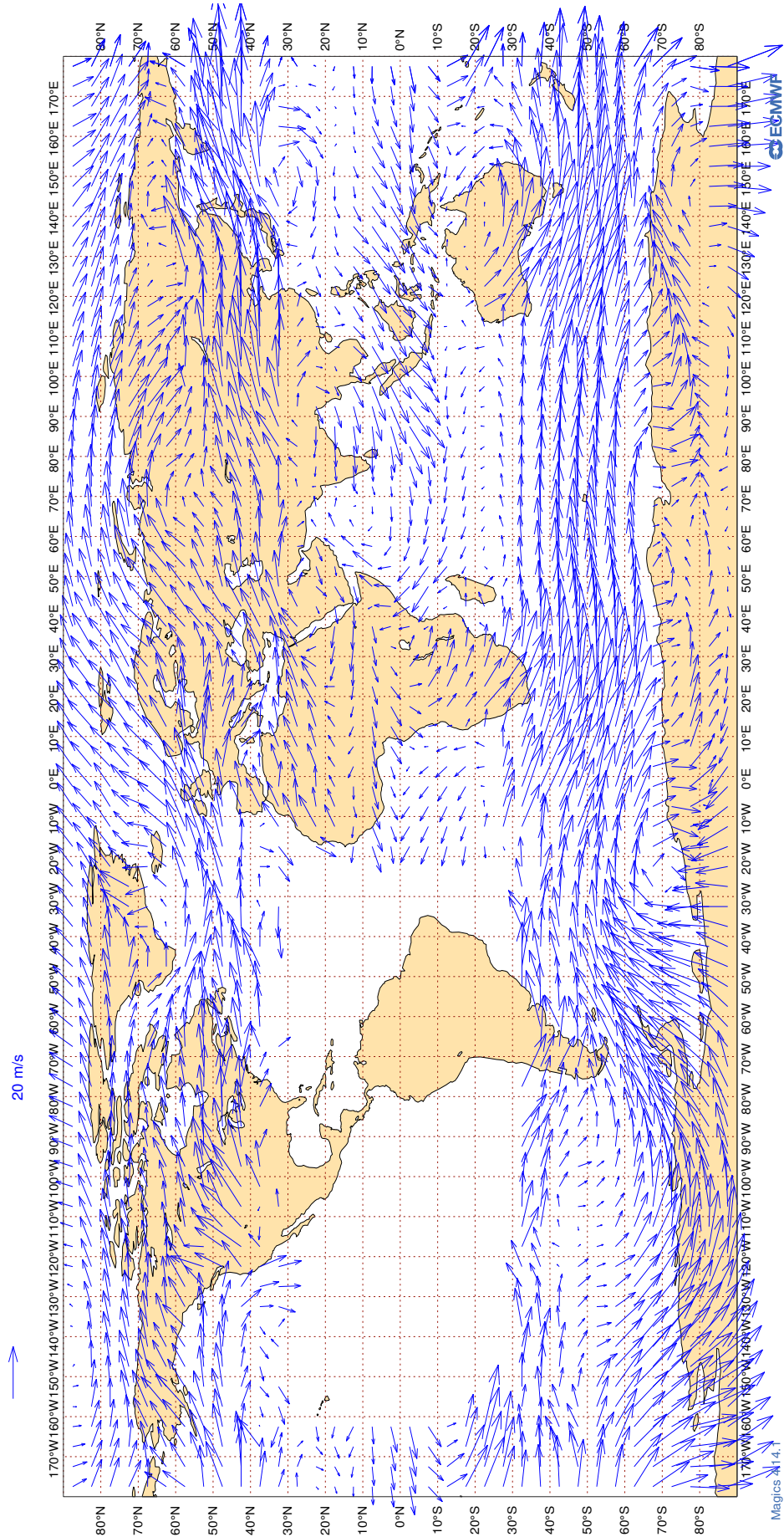
3.2.27 Figure 16 - SATOB Winds: 700-1000hPa



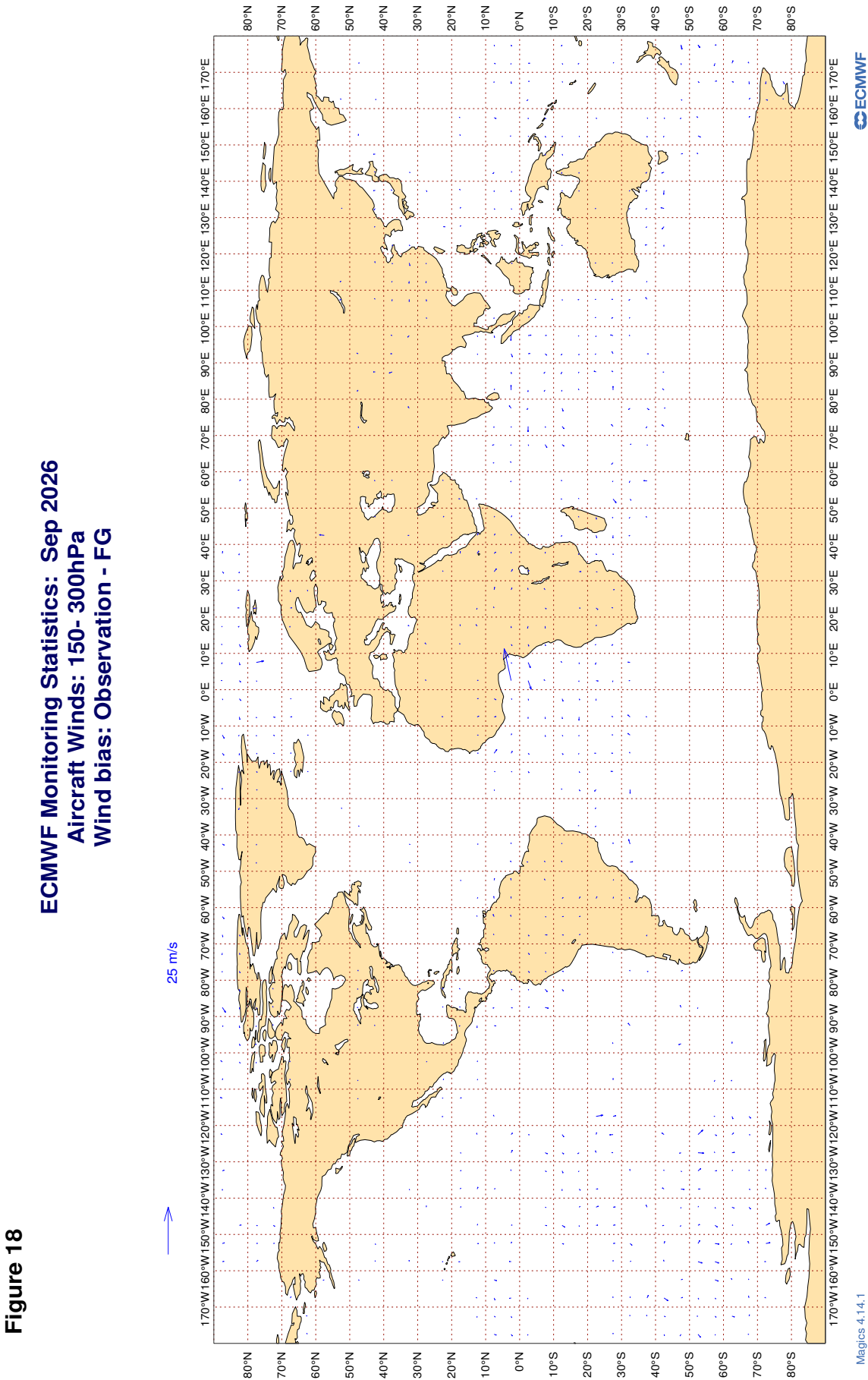
3.2.28 Figure 17 - SATOB Winds: 150- 400hPa

Figure 17

ECMWF Monitoring Statistics: Sep 2026
AMV Winds: 150- 400hPa
Mean Observed Wind



3.2.29 Figure 18 - AIRCRAFT Winds: 150- 300hPa



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 : SEP 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	48	0	0	3.5	-0.2
AAE	99	V	300-150	445	0	0	4.1	-0.5
AAL	99	V	300-150	56611	5	0	4.6	0.0
ABB	99	V	300-150	21	0	0	4.3	0.1
ABD	99	V	300-150	415	0	0	4.7	0.4
ABP	99	V	300-150	65	0	0	3.3	0.0
ABX	99	V	300-150	35	0	0	3.3	0.7
ABY	99	V	300-150	69	0	0	3.6	1.1
ACA	99	V	300-150	40391	3	0	4.0	0.0
ACI	99	V	300-150	550	0	0	3.5	0.3
ADZ	99	V	300-150	173	0	0	4.7	1.7
AEA	99	V	300-150	672	10	0	5.0	-0.2
AFP	99	V	300-150	49	0	0	4.0	0.6
AFR	99	V	300-150	36721	0	0	3.5	0.0
AIC	99	V	300-150	6563	2	0	4.9	0.2
AIH	99	V	300-150	177	0	0	3.5	-1.5
AIZ	99	V	300-150	644	4	0	3.4	0.2
AJD	99	V	300-150	68	0	0	3.4	-0.4
AJO	99	V	300-150	28	0	0	2.2	-0.4
AJT	99	V	300-150	172	0	0	3.3	0.1
AME	99	V	300-150	37	0	0	3.0	-0.4

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
AMQ	99	V	300-150	37	0	0	3.0	0.3
AMX	99	V	300-150	5925	10	0	5.2	-0.2
ANA	99	V	300-150	221	0	0	5.8	0.5
ANZ	99	V	300-150	13585	0	0	3.2	0.2
AOJ	99	V	300-150	203	0	0	3.3	-0.5
ARG	99	V	300-150	28	0	0	4.0	0.2
ARL	99	V	300-150	20	0	0	3.5	-2.5
ASA	99	V	300-150	902	7	0	5.9	0.0
ASL	99	V	300-150	1460	0	0	3.1	0.2
ASP	99	V	300-150	20	0	0	2.8	1.0
ASY	99	V	300-150	30	0	0	4.0	-1.0
ATC	99	V	300-150	31	0	0	4.6	0.1
ATG	99	V	300-150	79	0	0	3.3	-0.5
ATN	99	V	300-150	69	0	0	6.2	-1.2
AUA	99	V	300-150	5194	5	0	4.2	-0.1
AUH	99	V	300-150	23	0	0	3.4	1.6
AVA	99	V	300-150	783	10	0	5.2	-0.2
AVL	99	V	300-150	29	0	0	2.2	-0.1
AWC	99	V	300-150	59	0	0	3.0	0.5
AXB	99	V	300-150	22	0	0	2.9	-0.1
AXS	99	V	300-150	56	0	0	3.5	-0.1
AXY	99	V	300-150	51	0	0	2.5	0.0
AYJ	99	V	300-150	29	0	0	3.0	-0.5
AZG	99	V	300-150	1569	0	0	3.8	0.5
BAF	99	V	300-150	105	0	0	3.0	-0.3
BAW	99	V	300-150	50197	3	0	4.2	0.0
BBB	99	V	300-150	56	0	0	3.1	0.5
BBC	99	V	300-150	426	11	0	6.7	-0.2
BCS	99	V	300-150	1561	0	0	3.2	0.3
BEL	99	V	300-150	1589	0	0	3.0	0.1
BFF	99	V	300-150	43	0	0	7.5	-0.4
BKI	99	V	300-150	33	0	0	3.0	-0.6
BLU	99	V	300-150	36	0	0	4.2	0.8
BOE	99	V	300-150	30	0	0	3.4	-0.3
BOX	99	V	300-150	4756	0	0	3.4	0.2
BRE	99	V	300-150	41	0	0	3.2	0.2
BRK	99	V	300-150	120	0	0	4.3	-0.5
BTX	99	V	300-150	79	0	0	3.3	-1.1
BVR	99	V	300-150	36	0	0	3.0	0.4
CAL	99	V	300-150	1781	0	0	4.9	1.0
CBJ	99	V	300-150	456	0	0	4.1	0.3
CCA	99	V	300-150	240	0	0	3.4	0.5
CCK	99	V	300-150	20	0	0	5.9	0.2

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
CEB	99	V	300-150	477	0	0	3.9	0.1
CES	99	V	300-150	1033	0	0	3.3	0.4
CFC	99	V	300-150	205	0	0	3.5	0.0
CFG	99	V	300-150	6023	0	0	3.2	0.2
CGS	99	V	300-150	32	0	0	2.8	0.6
CHG	99	V	300-150	662	0	0	3.7	-0.3
CHH	99	V	300-150	371	1	0	4.5	0.3
CJT	99	V	300-150	489	0	0	3.7	0.0
CKS	99	V	300-150	1527	0	0	3.7	0.2
CLX	99	V	300-150	4296	0	0	3.8	-0.4
CLY	99	V	300-150	78	0	0	4.0	-0.5
CMA	99	V	300-150	162	0	0	3.8	0.9
CMB	99	V	300-150	1534	0	0	3.8	0.0
CND	99	V	300-150	252	0	0	3.4	-0.2
CNK	99	V	300-150	50	0	0	3.0	1.0
CNV	99	V	300-150	150	0	0	2.9	0.2
CPA	99	V	300-150	2607	0	0	3.5	0.3
CPI	99	V	300-150	50	0	0	2.5	-0.1
CRL	99	V	300-150	654	0	0	2.8	0.4
CRV	99	V	300-150	34	0	0	3.5	0.8
CSC	99	V	300-150	664	0	0	3.9	0.3
CSG	99	V	300-150	78	0	0	2.6	0.2
CSN	99	V	300-150	654	0	0	3.8	0.3
CSS	99	V	300-150	190	0	1	3.5	0.7
CTM	99	V	300-150	114	0	0	3.5	0.1
CXF	99	V	300-150	32	0	0	4.7	-1.2
DAH	99	V	300-150	1267	0	0	3.2	0.1
DAL	99	V	300-150	77510	0	0	3.3	0.1
DCM	99	V	300-150	28	0	0	3.3	0.3
DCS	99	V	300-150	21	0	0	2.9	-0.6
DGX	99	V	300-150	31	0	0	2.4	0.0
DHK	99	V	300-150	2323	0	0	3.6	0.0
DHX	99	V	300-150	126	0	0	4.5	1.5
DJT	99	V	300-150	2251	0	0	3.3	0.1
DLH	99	V	300-150	30775	2	0	3.6	-0.1
DSO	99	V	300-150	23	0	0	3.3	1.4
DTA	99	V	300-150	73	0	0	4.8	0.6
DUB	99	V	300-150	57	0	0	3.5	0.3
DWC	99	V	300-150	50	0	0	3.7	0.1
EAU	99	V	300-150	92	0	0	3.3	0.4
EDW	99	V	300-150	1310	0	0	3.7	-0.4
EIN	99	V	300-150	22609	0	0	3.2	0.1
EJM	99	V	300-150	1062	0	0	3.6	0.1

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
EJO	99	V	300-150	30	0	0	3.3	0.7
ELG	99	V	300-150	37	0	0	3.6	-0.9
ELY	99	V	300-150	4829	8	0	5.1	-0.2
ESW	99	V	300-150	35	0	0	3.0	-0.1
ETD	99	V	300-150	11090	3	0	4.3	0.0
ETH	99	V	300-150	5070	4	0	4.7	0.1
EVA	99	V	300-150	1662	1	0	5.8	1.1
EVE	99	V	300-150	522	0	0	3.9	-0.1
EXS	99	V	300-150	3379	0	0	2.8	-0.1
EZY	99	V	300-150	171	0	0	2.3	0.2
FBU	99	V	300-150	2363	0	0	3.7	0.0
FDX	99	V	300-150	7855	0	0	3.4	0.2
FEX	99	V	300-150	69	0	0	3.8	-1.1
FIN	99	V	300-150	2157	0	0	3.5	0.4
FJI	99	V	300-150	1790	0	0	3.5	0.2
FJO	99	V	300-150	153	0	0	3.1	0.1
FLW	99	V	300-150	31	0	0	3.0	0.3
FWI	99	V	300-150	929	0	0	3.2	-0.3
FYG	99	V	300-150	220	0	0	3.8	0.3
FYL	99	V	300-150	26	0	0	2.7	0.1
GAF	99	V	300-150	291	0	0	3.3	-0.1
GCK	99	V	300-150	204	0	0	4.0	0.4
GEC	99	V	300-150	1192	0	0	3.2	0.0
GES	99	V	300-150	67	0	0	4.1	0.7
GFA	99	V	300-150	1376	2	0	5.5	0.1
GIA	99	V	300-150	102	0	0	3.9	0.2
GJE	99	V	300-150	100	0	0	3.3	0.5
GJI	99	V	300-150	36	0	0	3.2	-0.8
GJW	99	V	300-150	56	0	0	3.4	-0.1
GLH	99	V	300-150	34	0	0	5.5	-1.6
GLJ	99	V	300-150	102	0	0	3.6	0.5
GLO	99	V	300-150	21	0	0	3.9	0.6
GNJ	99	V	300-150	43	0	0	4.2	0.2
GOL	99	V	300-150	24	0	0	2.8	-1.0
GSM	99	V	300-150	151	0	0	3.5	0.6
GTI	99	V	300-150	2479	0	0	3.7	-0.3
GTR	99	V	300-150	221	0	0	3.8	0.1
HAF	99	V	300-150	58	0	0	3.3	-0.4
HAI	99	V	300-150	43	0	0	3.9	1.2
HGO	99	V	300-150	27	0	0	4.1	0.5
HIM	99	V	300-150	35	0	0	3.7	0.0
HKC	99	V	300-150	236	0	0	3.8	0.2
HLF	99	V	300-150	71	0	0	4.1	0.6

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
HPJ	99	V	300-150	33	0	0	4.6	-2.0
HRN	99	V	300-150	35	0	0	3.5	0.2
HRT	99	V	300-150	56	0	0	3.0	-0.1
HTT	99	V	300-150	157	0	0	10.6	1.1
HUE	99	V	300-150	196	0	0	4.3	0.5
HUF	99	V	300-150	96	0	0	3.2	-0.1
HVN	99	V	300-150	1946	1	0	5.0	0.4
HYP	99	V	300-150	81	0	0	3.3	0.2
HYS	99	V	300-150	402	0	0	3.2	0.0
HZS	99	V	300-150	24	0	0	3.4	1.4
HZS	99	V	300-150	90	0	0	3.5	0.3
IAM	99	V	300-150	57	0	0	3.2	0.1
IBE	99	V	300-150	7770	0	0	3.3	0.0
ICE	99	V	300-150	11447	0	0	3.0	0.2
ICL	99	V	300-150	660	0	0	3.5	0.2
ICV	99	V	300-150	116	0	0	4.4	-1.2
IFA	99	V	300-150	692	0	0	3.3	0.0
IGA	99	V	300-150	129	0	0	4.0	0.5
IJM	99	V	300-150	168	0	0	3.7	-0.2
IRL	99	V	300-150	37	0	0	3.5	0.1
ISR	99	V	300-150	176	0	0	3.6	0.2
ITY	99	V	300-150	7939	0	0	3.3	0.2
JAL	99	V	300-150	238	0	0	4.9	0.3
JAS	99	V	300-150	170	15	0	7.0	0.2
JBU	99	V	300-150	12597	0	0	3.3	0.2
JCO	99	V	300-150	119	0	0	3.0	0.4
JDI	99	V	300-150	87	0	0	3.4	0.4
JEF	99	V	300-150	35	0	0	3.0	-0.5
JEN	99	V	300-150	67	0	0	2.7	0.0
JME	99	V	300-150	41	0	0	3.2	0.1
JNY	99	V	300-150	47	0	0	4.5	-0.5
JST	99	V	300-150	1967	0	0	3.2	0.3
JTL	99	V	300-150	52	0	0	3.6	-0.1
KAC	99	V	300-150	1367	0	0	3.8	0.7
KAF	99	V	300-150	76	0	0	5.7	-0.6
KAI	99	V	300-150	121	0	0	3.8	-0.1
KAL	99	V	300-150	345	0	0	5.8	0.2
KAY	99	V	300-150	170	0	0	3.0	0.1
KFE	99	V	300-150	44	0	0	3.7	0.1
KIW	99	V	300-150	24	0	0	4.8	0.1
KLM	99	V	300-150	18975	5	0	4.4	0.0
KNE	99	V	300-150	64	0	0	3.4	0.4
KOC	99	V	300-150	58	0	0	3.4	-0.2

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
KQA	99	V	300-150	205	0	0	4.5	0.2
KRH	99	V	300-150	33	0	0	2.8	-0.5
KUG	99	V	300-150	139	0	0	2.9	0.4
LAN	99	V	300-150	33	0	0	3.6	1.0
LCO	99	V	300-150	551	0	0	3.8	-1.1
LDX	99	V	300-150	101	0	0	3.0	0.6
LEA	99	V	300-150	26	0	0	3.7	-1.9
LNK	99	V	300-150	157	0	0	2.9	0.0
LOT	99	V	300-150	4909	4	0	5.4	-0.3
LRQ	99	V	300-150	66	0	0	3.8	0.5
LRT	99	V	300-150	32	0	0	2.8	0.5
LTG	99	V	300-150	171	0	0	3.6	-0.7
LUA	99	V	300-150	156	0	0	3.9	-0.2
LVL	99	V	300-150	1372	0	0	3.5	0.5
LXJ	99	V	300-150	1391	0	0	3.2	0.2
MAS	99	V	300-150	3199	0	0	4.0	0.1
MED	99	V	300-150	35	0	0	4.0	-0.1
MFN	99	V	300-150	265	0	0	3.8	0.7
MJF	99	V	300-150	51	0	0	3.0	-0.4
MLM	99	V	300-150	89	0	0	3.0	0.7
MMD	99	V	300-150	346	0	0	3.1	0.2
MMF	99	V	300-150	57	0	0	2.6	-0.2
MNB	99	V	300-150	642	0	0	3.2	0.2
MPH	99	V	300-150	392	0	0	3.8	-0.3
MSR	99	V	300-150	3010	4	0	4.7	-0.2
MVJ	99	V	300-150	77	0	0	3.8	0.7
MXD	99	V	300-150	573	0	0	4.1	0.7
NBT	99	V	300-150	1581	14	0	5.4	-0.1
NCR	99	V	300-150	809	0	0	3.5	0.0
NEW	99	V	300-150	67	0	0	3.3	0.5
NJE	99	V	300-150	616	0	0	3.4	0.2
NJU	99	V	300-150	22	0	0	2.8	0.4
NOJ	99	V	300-150	116	0	0	3.7	0.2
NOS	99	V	300-150	662	11	0	5.7	0.0
NUM	99	V	300-150	72	0	0	3.2	0.1
OAE	99	V	300-150	204	0	0	3.8	0.5
OCN	99	V	300-150	5081	0	0	3.2	0.2
OLI	99	V	300-150	30	0	0	2.6	-0.4
OMA	99	V	300-150	1316	0	0	5.7	0.2
ORF	99	V	300-150	32	0	0	3.5	1.2
PAA	99	V	300-150	21	0	0	3.7	1.1
PAL	99	V	300-150	808	0	0	4.1	0.4
PEX	99	V	300-150	83	0	0	2.8	0.2

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
PIA	99	V	300-150	85	0	0	2.8	-0.1
PJV	99	V	300-150	31	0	0	7.3	-1.0
PLF	99	V	300-150	97	0	0	2.6	-0.3
PRD	99	V	300-150	28	0	0	3.6	1.5
PVA	99	V	300-150	352	0	0	3.1	0.0
QAF	99	V	300-150	99	0	0	3.4	0.7
QFA	99	V	300-150	5541	0	0	4.1	0.0
QFX	99	V	300-150	31	0	0	2.6	0.6
QLK	99	V	300-150	157	0	0	3.5	0.0
QNT	99	V	300-150	38	0	0	3.9	0.1
QQE	99	V	300-150	637	0	0	3.1	0.3
QTR	99	V	300-150	19553	0	0	3.8	0.0
RAM	99	V	300-150	1135	11	0	5.8	0.3
RBA	99	V	300-150	222	0	0	5.6	0.7
RCH	99	V	300-150	4773	0	0	4.3	0.2
RCR	99	V	300-150	32	0	0	3.1	0.9
RHH	99	V	300-150	30	0	0	5.7	0.9
RJA	99	V	300-150	2922	7	0	5.9	-0.2
ROU	99	V	300-150	1216	0	0	3.3	0.0
RPP	99	V	300-150	23	0	0	3.5	1.4
RRR	99	V	300-150	234	0	0	4.3	0.2
RXI	99	V	300-150	771	0	0	5.5	0.2
RYR	99	V	300-150	326	0	0	2.6	-0.2
RZO	99	V	300-150	448	0	0	3.8	0.1
SAM	99	V	300-150	169	0	0	3.8	0.0
SAS	99	V	300-150	5728	0	0	2.9	0.1
SAZ	99	V	300-150	102	0	0	3.8	0.4
SCX	99	V	300-150	42	0	0	3.9	-0.3
SIA	99	V	300-150	14790	0	0	4.1	0.3
SIO	99	V	300-150	237	0	0	3.3	0.2
SIS	99	V	300-150	26	0	0	6.4	-2.8
SJE	99	V	300-150	20	0	0	3.4	-0.5
SJX	99	V	300-150	217	0	0	3.4	0.6
SKV	99	V	300-150	94	0	0	3.1	-0.7
SLM	99	V	300-150	126	0	0	2.5	-0.1
SMR	99	V	300-150	34	0	0	2.8	0.4
SON	99	V	300-150	68	0	0	3.6	0.7
SPA	99	V	300-150	162	0	0	3.4	0.4
SPM	99	V	300-150	52	0	0	3.3	-0.2
SSG	99	V	300-150	32	0	0	3.6	-0.1
SVA	99	V	300-150	4981	1	0	4.5	0.2
SVW	99	V	300-150	272	0	0	3.4	0.3
SWR	99	V	300-150	12920	0	0	3.5	0.2

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
SWW	99	V	300-150	38	0	0	3.8	-0.1
SYB	99	V	300-150	307	0	0	3.7	-0.1
TAI	99	V	300-150	33	0	0	4.9	0.9
TAM	99	V	300-150	64	2	0	5.2	0.5
TAP	99	V	300-150	4820	0	0	3.5	0.3
TAR	99	V	300-150	472	0	0	3.1	0.3
TAX	99	V	300-150	212	0	0	3.8	0.5
TAY	99	V	300-150	495	0	0	3.9	0.2
TBJ	99	V	300-150	36	0	0	3.6	0.8
TFF	99	V	300-150	129	0	0	3.6	0.5
TFL	99	V	300-150	1252	13	0	5.4	-0.2
TGW	99	V	300-150	935	1	0	6.1	-0.1
THA	99	V	300-150	5866	0	0	4.0	0.4
THT	99	V	300-150	2149	2	0	5.2	-0.1
THY	99	V	300-150	26003	3	0	4.5	0.2
TLK	99	V	300-150	32	0	0	2.6	0.9
TMN	99	V	300-150	404	0	0	3.3	0.5
TOM	99	V	300-150	4586	11	0	5.5	-0.1
TOR	99	V	300-150	169	0	0	3.9	0.0
TRK	99	V	300-150	51	0	0	3.1	-0.6
TSC	99	V	300-150	23411	0	0	3.4	0.2
TUA	99	V	300-150	171	0	0	3.9	0.7
TVR	99	V	300-150	192	0	1	3.4	0.7
TVS	99	V	300-150	77	0	0	2.4	0.0
TWY	99	V	300-150	999	0	0	3.4	-0.1
UAE	99	V	300-150	18729	0	0	3.6	0.1
UAF	99	V	300-150	72	0	0	5.9	0.0
UAG	99	V	300-150	99	0	1	3.0	0.1
UAL	99	V	300-150	82575	3	1	4.4	0.0
UBT	99	V	300-150	1414	13	0	6.0	-0.3
UKN	99	V	300-150	40	0	0	3.1	-0.3
ULC	99	V	300-150	127	0	0	3.5	0.3
UNI	99	V	300-150	33	0	0	3.7	-0.1
UPS	99	V	300-150	4866	0	0	3.8	-0.1
UZB	99	V	300-150	637	0	0	4.8	0.6
VCG	99	V	300-150	83	0	0	3.7	0.2
VCJ	99	V	300-150	99	0	0	3.1	-0.3
VET	99	V	300-150	71	0	0	3.1	0.1
VHA	99	V	300-150	77	0	0	4.0	1.3
VIR	99	V	300-150	20677	1	0	3.7	0.0
VJA	99	V	300-150	261	0	0	3.7	0.2
VJC	99	V	300-150	24	0	8	3.0	-0.6
VJH	99	V	300-150	20	0	0	4.8	1.4

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
VJT	99	V	300-150	2301	0	0	3.4	0.3
VLZ	99	V	300-150	54	0	0	3.7	0.4
VOZ	99	V	300-150	778	0	0	3.2	0.2
VSV	99	V	300-150	58	0	0	3.6	1.0
WFL	99	V	300-150	74	0	0	4.4	-1.5
WGN	99	V	300-150	23	0	0	2.6	1.2
WIN	99	V	300-150	439	0	0	3.2	0.3
WJA	99	V	300-150	8190	2	0	4.3	0.0
WPK	99	V	300-150	84	0	0	5.2	1.5
WWI	99	V	300-150	223	0	0	4.2	0.5
XAX	99	V	300-150	893	0	0	4.2	0.3
XEN	99	V	300-150	36	0	0	3.8	1.4
YZR	99	V	300-150	78	0	0	3.3	0.7

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	50	30	8.8	5.6
01001	12	Z	50	27	11.1	-8.9
01028	00	Z	50	29	4.3	-1.6
01028	12	Z	50	30	5.9	-3.5
01400	12	Z	50	26	16.8	11.2
01400	00	Z	50	26	20.8	19.0
01415	00	Z	50	29	7.7	1.4
01415	12	Z	50	30	12.5	-3.4
02591	00	Z	50	1	2.0	2.0
02591	12	Z	50	15	12.7	3.0
02836	00	Z	50	30	5.9	-1.6
02836	12	Z	50	32	9.4	-7.5
02963	00	Z	50	30	6.1	-2.3
02963	12	Z	50	32	8.0	-5.1
03005	00	Z	50	29	10.0	-6.9
03005	12	Z	50	30	15.9	-7.4
03238	00	Z	50	30	8.9	-4.2
03808	00	Z	50	30	6.8	-2.0
03808	12	Z	50	29	9.0	-3.6
03918	12	Z	50	1	4.7	4.7
03918	00	Z	50	30	9.9	-5.8
03953	00	Z	50	30	8.8	-1.5
03953	12	Z	50	30	9.5	-5.3
04018	12	Z	50	29	13.2	-7.0
04018	00	Z	50	28	7.5	0.3
04220	00	Z	50	30	18.1	-16.3
04220	12	Z	50	28	23.0	-19.5
04270	00	Z	50	26	19.3	-17.7
04270	12	Z	50	29	24.9	-22.6
04320	12	Z	50	29	11.8	-3.9
04320	00	Z	50	30	11.3	-5.8
04339	00	Z	50	27	37.1	-32.1
04339	12	Z	50	26	38.4	-33.8
04360	12	Z	50	28	42.7	-41.3
04360	00	Z	50	23	44.5	-41.5
06011	12	Z	50	27	21.0	-16.0
06260	12	Z	50	5	9.0	1.1
06260	00	Z	50	30	6.2	-1.4
06610	00	Z	50	27	4.5	-1.1

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	50	29	8.0	-4.3
07110	00	Z	50	29	9.5	-2.0
07110	12	Z	50	29	11.9	-3.8
07510	12	Z	50	28	21.4	-12.9
07510	00	Z	50	25	14.6	-11.1
07645	12	Z	50	28	58.5	-58.1
07645	00	Z	50	29	47.4	-46.2
07761	00	Z	50	29	17.8	-11.7
07761	12	Z	50	29	20.0	-11.3
08001	00	Z	50	29	7.1	5.2
08001	12	Z	50	30	6.5	-3.6
08221	12	Z	50	30	5.4	-2.7
08221	00	Z	50	30	6.2	2.9
08302	00	Z	50	28	5.9	-4.3
08302	12	Z	50	30	15.5	-13.4
08508	12	Z	50	29	9.8	-5.7
08522	12	Z	50	30	5.8	-4.3
10035	00	Z	50	29	8.0	-3.3
10035	12	Z	50	30	11.3	-10.1
10393	12	Z	50	30	10.3	-7.6
10393	00	Z	50	30	5.8	-1.2
10410	00	Z	50	30	6.5	-2.6
10410	12	Z	50	30	11.3	-9.6
10739	00	Z	50	29	17.1	-16.6
10739	12	Z	50	29	51.1	-32.4
11035	00	Z	50	29	11.6	-0.1
11035	12	Z	50	29	13.5	-9.9
12982	12	Z	50	30	7.9	-4.7
12982	00	Z	50	30	5.6	2.3
16245	12	Z	50	28	7.3	-5.2
16245	00	Z	50	30	5.0	2.4
16429	00	Z	50	30	8.5	6.2
16429	12	Z	50	30	7.5	-4.3
16622	00	Z	50	14	20.5	6.8
16754	00	Z	50	10	11.8	-6.6
17607	00	Z	50	8	8.2	5.7
17607	12	Z	50	20	6.6	0.3
26435	12	Z	50	6	8.6	-6.4
60018	00	Z	50	28	5.5	3.9
60018	12	Z	50	30	6.0	-2.4
7JUNA4	12	Z	50	4	80.1	76.8
7JUNA4	00	Z	50	4	17.9	13.8
9ZT9MR	00	Z	50	8	55.3	-38.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	12	Z	50	13	61.4	-48.3
ASDE09	12	Z	50	2	49.4	-45.9
ATGU3F	12	Z	50	8	40.3	-29.5
ATGU3F	00	Z	50	10	34.8	-30.1
CMA	00	Z	50	12	90.6	90.4
CMA	12	Z	50	14	99.1	98.8
FPUW5G	12	Z	50	5	13.5	-12.8
GQBZLZ	12	Z	50	2	69.0	-63.7
GQBZLZ	00	Z	50	1	17.8	-17.8
JNKN7J	00	Z	50	4	16.2	16.1
JNKN7J	12	Z	50	6	24.7	12.9
KMPLHP	12	Z	50	8	178.2	138.1
KMPLHP	00	Z	50	6	7.7	5.9
LAGY8	00	Z	50	2	39.5	-38.9
LAGY8	12	Z	50	1	65.7	-65.7
LAGZ8	12	Z	50	6	65.8	64.6
LRYPE3	00	Z	50	9	23.9	-15.6
LRYPE3	12	Z	50	9	135.8	131.6
SLKFEG	00	Z	50	6	6.5	-6.1
SLKFEG	12	Z	50	6	13.4	-5.0
TLH	12	Z	50	18	102.8	102.7
TLH	00	Z	50	14	95.1	94.8
USIUB	12	Z	50	1	24.7	24.7
USVAL	12	Z	50	0	0.0	0.0
WDK38H	00	Z	50	8	14.4	-12.7
WDK38H	12	Z	50	11	15.0	-14.2
WFF	12	Z	50	19	94.7	94.0
WFF	00	Z	50	20	88.9	88.5
XKQLWQ	12	Z	50	19	44.6	40.5
YLV96W	12	Z	50	3	98.8	74.8
YLV96W	00	Z	50	2	47.7	-31.7

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	50	24	2.5	0.4	-0.5
01001	12	V	50	27	2.7	-0.1	0.4
01028	00	V	50	24	3.0	0.2	-0.4
01028	12	V	50	27	2.7	-0.3	0.3
01400	12	V	50	25	3.5	-0.3	-0.2
01400	00	V	50	22	3.7	0.6	-0.6
01415	00	V	50	26	4.0	0.2	-0.8
01415	12	V	50	30	3.3	-0.1	0.7
02591	00	V	50	1	1.5	-1.5	0.0
02591	12	V	50	14	3.8	-0.6	0.6
02836	00	V	50	0	0.0	0.0	0.0
02836	12	V	50	9	2.9	-0.6	-0.1
02963	00	V	50	0	0.0	0.0	0.0
02963	12	V	50	7	2.7	0.1	0.6
03005	00	V	50	22	3.2	0.1	-0.2
03005	12	V	50	30	2.9	0.5	-0.1
03238	00	V	50	24	4.3	0.1	-1.1
03808	00	V	50	24	3.6	-0.3	-0.3
03808	12	V	50	28	2.9	0.1	-0.4
03918	12	V	50	1	6.1	-6.1	0.7
03918	00	V	50	25	3.9	-0.8	-0.6
03953	00	V	50	25	2.9	0.0	-0.3
03953	12	V	50	30	3.1	-0.2	-0.1
04018	12	V	50	29	3.2	0.4	0.5
04018	00	V	50	24	3.1	0.3	0.2
04220	00	V	50	25	2.8	-0.2	0.3
04220	12	V	50	28	3.0	0.2	-0.4
04270	00	V	50	25	3.4	-0.1	0.4
04270	12	V	50	29	3.4	0.5	0.2
04320	12	V	50	29	3.5	-0.6	0.7
04320	00	V	50	27	3.2	0.3	-0.7
04339	00	V	50	22	3.5	-0.1	-0.5
04339	12	V	50	26	2.8	-0.8	0.2
04360	12	V	50	28	3.4	0.5	-0.2
04360	00	V	50	18	2.8	0.2	-0.4
06011	12	V	50	27	2.9	-0.3	0.3
06260	12	V	50	5	2.1	-0.1	-0.4
06260	00	V	50	30	3.2	-0.3	-0.3
06610	00	V	50	24	2.8	0.1	-0.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	50	29	3.3	0.1	-0.6
07110	00	V	50	25	2.5	0.2	-0.1
07110	12	V	50	29	3.4	-0.2	0.3
07510	12	V	50	28	2.6	-0.3	0.0
07510	00	V	50	21	2.3	0.2	-0.6
07645	12	V	50	28	3.0	-0.5	-0.4
07645	00	V	50	24	3.0	-0.3	0.1
07761	00	V	50	24	3.6	0.6	-0.8
07761	12	V	50	29	3.4	-0.4	0.0
08001	00	V	50	21	2.9	0.0	-0.2
08001	12	V	50	30	2.7	0.3	0.0
08221	12	V	50	30	3.3	0.2	-0.4
08221	00	V	50	23	3.4	-0.6	-0.5
08302	00	V	50	24	3.3	0.2	-0.1
08302	12	V	50	30	3.3	-0.3	-0.1
08508	12	V	50	28	3.3	-0.3	0.2
08522	12	V	50	30	3.0	-0.4	0.1
10035	00	V	50	29	3.2	-0.2	0.9
10035	12	V	50	30	2.9	-0.3	-0.2
10393	12	V	50	30	3.6	0.2	-0.2
10393	00	V	50	30	2.9	0.5	-0.5
10410	00	V	50	29	2.9	0.1	-0.2
10410	12	V	50	30	3.1	0.2	-0.1
10739	00	V	50	28	2.8	-0.1	0.2
10739	12	V	50	29	3.5	-0.4	0.2
11035	00	V	50	25	3.2	0.5	-0.4
11035	12	V	50	29	3.0	-0.1	-0.3
12982	12	V	50	30	3.4	0.4	0.2
12982	00	V	50	26	3.5	0.0	-0.3
16245	12	V	50	28	3.4	-0.2	0.6
16245	00	V	50	28	3.5	0.0	0.2
16429	00	V	50	25	3.4	-0.2	0.0
16429	12	V	50	30	3.3	-0.3	0.9
16622	00	V	50	13	4.1	0.1	-1.0
16754	00	V	50	10	2.4	0.9	-0.8
17607	00	V	50	8	3.5	-0.5	1.6
17607	12	V	50	20	2.6	0.1	-0.8
26435	12	V	50	3	3.1	0.6	-2.3
60018	00	V	50	24	3.3	0.3	1.3
60018	12	V	50	30	3.2	-0.6	0.3
7JUNA4	12	V	50	4	3.9	0.4	0.2
7JUNA4	00	V	50	4	2.0	0.7	-1.1
9ZT9MR	00	V	50	8	3.3	0.3	0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	12	V	50	13	2.3	0.0	-0.1
ASDE09	12	V	50	2	2.2	-1.4	-0.3
ATGU3F	12	V	50	8	3.0	1.0	1.0
ATGU3F	00	V	50	10	3.7	0.6	-0.6
CMA	00	V	50	11	3.3	-0.5	1.1
CMA	12	V	50	14	2.5	-0.4	0.6
FPUW5G	12	V	50	5	2.3	0.8	-0.6
GQBZLZ	12	V	50	2	1.3	0.6	0.7
GQBZLZ	00	V	50	1	3.9	3.9	0.1
JNKN7J	00	V	50	4	3.8	-2.1	1.5
JNKN7J	12	V	50	6	2.3	-1.1	-0.3
KMPLHP	12	V	50	8	3.8	-0.6	0.8
KMPLHP	00	V	50	6	4.4	0.8	0.4
LAGY8	00	V	50	2	2.0	1.7	0.7
LAGY8	12	V	50	1	6.4	-2.2	6.0
LAGZ8	12	V	50	6	3.5	-1.5	2.1
LRYQE3	00	V	50	9	2.7	0.4	-0.8
LRYQE3	12	V	50	9	2.9	0.6	0.4
SLKFEG	00	V	50	6	1.7	-0.7	0.2
SLKFEG	12	V	50	6	4.0	0.0	-0.5
TLH	12	V	50	18	2.3	-0.2	-0.4
TLH	00	V	50	11	3.6	0.2	1.2
USIUB	12	V	50	1	0.8	-0.8	-0.1
USVAL	12	V	50	0	0.0	0.0	0.0
WDK38H	00	V	50	7	2.9	0.2	0.9
WDK38H	12	V	50	8	2.7	0.6	1.0
WFF	12	V	50	19	2.8	0.2	-0.3
WFF	00	V	50	16	3.3	-0.2	-0.5
XKQLWQ	12	V	50	18	3.2	0.3	-0.4
YLV96W	12	V	50	3	1.4	0.4	1.0
YLV96W	00	V	50	2	2.8	-1.3	-2.0

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	100	30	7.3	3.6
01001	12	Z	100	27	10.2	-8.3
01028	00	Z	100	30	5.8	-4.1
01028	12	Z	100	30	6.3	-4.5
01400	12	Z	100	27	18.8	13.9
01400	00	Z	100	26	20.3	18.7
01415	00	Z	100	30	7.8	0.2
01415	12	Z	100	30	9.2	-3.6
02591	00	Z	100	5	6.6	3.9
02591	12	Z	100	15	12.4	4.7
02836	00	Z	100	30	5.4	-3.1
02836	12	Z	100	32	8.5	-6.6
02963	00	Z	100	30	6.0	-1.7
02963	12	Z	100	32	7.1	-3.9
03005	00	Z	100	31	8.6	-6.4
03005	12	Z	100	30	13.0	-6.0
03238	00	Z	100	30	8.5	-2.6
03808	00	Z	100	30	5.8	-0.9
03808	12	Z	100	29	7.1	-1.6
03918	12	Z	100	1	6.5	6.5
03918	00	Z	100	30	9.2	-4.7
03953	00	Z	100	30	6.6	-0.1
03953	12	Z	100	30	6.4	-2.2
04018	12	Z	100	29	9.2	-7.0
04018	00	Z	100	30	6.2	-2.2
04220	00	Z	100	30	15.4	-14.0
04220	12	Z	100	28	17.3	-15.1
04270	00	Z	100	27	17.5	-16.3
04270	12	Z	100	29	20.0	-18.6
04320	12	Z	100	30	7.7	-2.9
04320	00	Z	100	30	7.9	-3.6
04339	00	Z	100	28	28.6	-25.5
04339	12	Z	100	29	26.8	-23.9
04360	12	Z	100	28	34.0	-32.9
04360	00	Z	100	25	35.7	-33.7
06011	12	Z	100	29	16.2	-12.4
06260	12	Z	100	5	4.6	-0.1
06260	00	Z	100	30	5.2	-1.3
06610	00	Z	100	30	4.9	-1.4

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	100	30	5.5	-2.1
07110	00	Z	100	29	7.6	-0.2
07110	12	Z	100	29	9.5	-2.8
07510	12	Z	100	30	11.8	-7.5
07510	00	Z	100	28	9.8	-7.8
07645	12	Z	100	29	41.2	-40.7
07645	00	Z	100	29	36.3	-35.4
07761	00	Z	100	29	14.9	-9.8
07761	12	Z	100	29	15.6	-8.9
08001	00	Z	100	30	6.4	5.3
08001	12	Z	100	30	5.5	-0.7
08221	12	Z	100	30	3.6	-0.4
08221	00	Z	100	30	5.5	3.5
08302	00	Z	100	28	5.9	-4.4
08302	12	Z	100	30	10.9	-9.2
08508	12	Z	100	30	6.9	-1.7
08522	12	Z	100	30	4.0	2.4
10035	00	Z	100	29	6.9	-2.6
10035	12	Z	100	30	8.1	-6.3
10393	12	Z	100	30	7.0	-4.6
10393	00	Z	100	30	6.1	-1.8
10410	00	Z	100	30	6.0	-3.1
10410	12	Z	100	30	8.2	-6.2
10739	00	Z	100	30	16.4	-15.6
10739	12	Z	100	29	48.5	-28.3
11035	00	Z	100	30	8.8	-0.1
11035	12	Z	100	29	8.3	-5.1
12982	12	Z	100	30	5.6	-2.2
12982	00	Z	100	30	5.5	1.5
16245	12	Z	100	30	6.9	-3.3
16245	00	Z	100	30	3.5	0.7
16429	00	Z	100	30	7.0	5.5
16429	12	Z	100	30	5.0	-1.4
16622	00	Z	100	17	8.4	1.7
16754	00	Z	100	10	7.8	-4.5
17607	00	Z	100	8	8.0	6.3
17607	12	Z	100	20	7.6	2.5
26435	12	Z	100	11	5.6	-3.5
60018	00	Z	100	29	7.8	6.5
60018	12	Z	100	30	5.9	3.5
7JUNA4	12	Z	100	5	48.4	45.4
7JUNA4	00	Z	100	4	26.6	21.0
9ZT9MR	00	Z	100	9	49.4	-32.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	12	Z	100	13	60.6	-46.6
ASDE09	12	Z	100	2	42.3	-39.4
ATGU3F	12	Z	100	10	31.0	-21.6
ATGU3F	00	Z	100	11	26.4	-22.8
CMA	00	Z	100	16	68.7	68.4
CMA	12	Z	100	17	74.6	74.2
FPUW5G	12	Z	100	5	9.5	-9.1
GQBZLZ	12	Z	100	5	44.1	-29.5
GQBZLZ	00	Z	100	4	42.5	-37.5
JNKN7J	00	Z	100	4	15.1	14.7
JNKN7J	12	Z	100	6	22.5	16.1
KMPLHP	12	Z	100	8	96.1	70.0
KMPLHP	00	Z	100	7	5.7	0.7
LAGY8	00	Z	100	3	44.6	-44.1
LAGY8	12	Z	100	1	55.0	-55.0
LAGZ8	12	Z	100	7	57.7	57.3
LRYQE3	00	Z	100	10	20.7	-15.2
LRYQE3	12	Z	100	9	60.6	56.7
SLKFEG	00	Z	100	6	5.6	-2.4
SLKFEG	12	Z	100	8	7.7	2.6
TLH	12	Z	100	21	76.4	76.3
TLH	00	Z	100	12	71.9	71.8
USIUB	12	Z	100	1	22.0	22.0
USVAL	12	Z	100	0	0.0	0.0
WDK38H	00	Z	100	8	14.6	-14.2
WDK38H	12	Z	100	14	15.8	-15.6
WFF	12	Z	100	21	70.0	69.7
WFF	00	Z	100	19	63.0	62.8
XKQLWQ	12	Z	100	20	38.2	34.6
YLV96W	12	Z	100	5	36.3	26.5
YLV96W	00	Z	100	2	24.7	-13.2

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	100	25	2.1	-0.3	0.2
01001	12	V	100	27	2.3	0.5	-0.5
01028	00	V	100	25	2.6	-0.8	0.0
01028	12	V	100	30	2.5	-0.2	-0.9
01400	12	V	100	27	2.9	0.7	0.7
01400	00	V	100	24	2.8	0.9	0.1
01415	00	V	100	26	4.0	0.4	-0.2
01415	12	V	100	30	3.1	1.0	0.0
02591	00	V	100	2	4.3	-2.3	2.1
02591	12	V	100	14	2.9	-0.9	-0.4
02836	00	V	100	0	0.0	0.0	0.0
02836	12	V	100	20	2.8	-0.1	0.5
02963	00	V	100	0	0.0	0.0	0.0
02963	12	V	100	13	3.9	-0.3	0.1
03005	00	V	100	24	2.8	0.5	0.1
03005	12	V	100	30	2.6	0.4	-0.1
03238	00	V	100	25	3.1	0.3	0.9
03808	00	V	100	26	3.0	-0.1	0.2
03808	12	V	100	28	2.6	0.0	0.3
03918	12	V	100	1	2.2	-1.6	-1.5
03918	00	V	100	26	3.7	0.4	0.2
03953	00	V	100	26	3.2	-0.1	-0.1
03953	12	V	100	30	3.1	0.0	-0.1
04018	12	V	100	29	3.0	0.2	0.1
04018	00	V	100	29	3.0	0.3	-0.2
04220	00	V	100	28	2.7	-0.1	-0.2
04220	12	V	100	28	2.5	-0.5	-0.1
04270	00	V	100	27	2.8	-0.3	0.3
04270	12	V	100	29	3.0	-0.7	0.7
04320	12	V	100	30	2.1	0.7	-0.4
04320	00	V	100	30	2.6	0.4	0.4
04339	00	V	100	28	2.2	0.3	-0.5
04339	12	V	100	29	1.9	0.2	0.0
04360	12	V	100	28	2.2	-0.2	0.0
04360	00	V	100	24	2.8	-1.1	0.2
06011	12	V	100	29	3.1	0.5	0.3
06260	12	V	100	5	2.5	0.1	-0.3
06260	00	V	100	30	3.0	-0.5	0.0
06610	00	V	100	28	3.5	1.2	0.2

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	100	29	3.3	-0.1	-0.6
07110	00	V	100	29	3.0	-0.2	0.1
07110	12	V	100	29	3.0	-0.2	0.5
07510	12	V	100	30	3.0	0.4	0.0
07510	00	V	100	26	3.1	-0.3	0.0
07645	12	V	100	29	3.1	-0.4	0.3
07645	00	V	100	24	3.6	0.2	0.6
07761	00	V	100	24	2.9	0.4	0.0
07761	12	V	100	29	3.7	0.4	0.1
08001	00	V	100	23	2.8	0.6	-0.7
08001	12	V	100	30	2.7	-0.1	0.5
08221	12	V	100	30	2.8	0.4	0.3
08221	00	V	100	27	3.3	0.4	0.9
08302	00	V	100	26	3.5	0.3	0.2
08302	12	V	100	30	2.6	0.3	-0.4
08508	12	V	100	29	3.2	-0.6	0.0
08522	12	V	100	30	2.8	0.1	-0.2
10035	00	V	100	29	2.8	-0.3	-0.2
10035	12	V	100	30	2.9	-0.3	-0.3
10393	12	V	100	30	2.7	-0.6	0.2
10393	00	V	100	30	2.4	-0.1	-0.1
10410	00	V	100	30	3.3	0.3	0.0
10410	12	V	100	30	3.1	-0.3	-0.5
10739	00	V	100	30	3.0	0.2	-0.2
10739	12	V	100	29	2.8	-0.6	0.5
11035	00	V	100	26	3.8	0.5	0.7
11035	12	V	100	29	3.1	-0.5	0.6
12982	12	V	100	30	3.5	0.0	-0.1
12982	00	V	100	29	2.9	0.0	0.4
16245	12	V	100	30	3.6	0.2	1.1
16245	00	V	100	30	3.3	0.4	-1.0
16429	00	V	100	29	3.8	0.5	-0.8
16429	12	V	100	30	3.7	0.4	0.4
16622	00	V	100	17	4.1	0.2	-0.4
16754	00	V	100	10	3.7	-0.4	-1.6
17607	00	V	100	8	2.9	0.2	0.5
17607	12	V	100	20	3.7	0.2	1.1
26435	12	V	100	8	2.8	0.0	0.8
60018	00	V	100	27	3.7	0.5	0.5
60018	12	V	100	30	3.8	0.9	0.5
7JUNA4	12	V	100	5	3.5	-0.3	1.2
7JUNA4	00	V	100	4	2.9	0.4	0.2
9ZT9MR	00	V	100	9	2.5	0.6	0.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	12	V	100	13	2.1	-0.1	0.2
ASDE09	12	V	100	2	2.5	0.5	0.0
ATGU3F	12	V	100	10	3.8	-0.6	0.1
ATGU3F	00	V	100	11	2.2	0.3	0.7
CMA	00	V	100	13	2.9	-0.1	0.0
CMA	12	V	100	17	3.6	-0.2	1.2
FPUW5G	12	V	100	5	1.6	0.1	0.2
GQBZLZ	12	V	100	5	2.4	-1.7	-0.5
GQBZLZ	00	V	100	4	3.3	1.3	-0.3
JNKN7J	00	V	100	4	4.0	-1.3	0.9
JNKN7J	12	V	100	6	2.7	1.2	1.2
KMPLHP	12	V	100	8	4.5	-2.0	0.7
KMPLHP	00	V	100	7	4.1	0.1	1.2
LAGY8	00	V	100	3	3.9	-1.2	1.0
LAGY8	12	V	100	1	4.9	1.9	-4.5
LAGZ8	12	V	100	7	1.7	-0.6	0.5
LRYQE3	00	V	100	10	3.3	0.6	1.1
LRYQE3	12	V	100	9	3.2	0.4	1.2
SLKFEG	00	V	100	6	2.3	0.5	-0.1
SLKFEG	12	V	100	8	3.1	1.4	0.4
TLH	12	V	100	21	3.1	-1.3	0.2
TLH	00	V	100	11	2.9	0.4	0.0
USIUB	12	V	100	1	1.5	0.9	-1.2
USVAL	12	V	100	0	0.0	0.0	0.0
WDK38H	00	V	100	8	1.4	-0.1	0.7
WDK38H	12	V	100	14	2.1	0.0	0.3
WFF	12	V	100	21	3.6	-0.2	0.7
WFF	00	V	100	16	3.4	-1.1	0.3
XKQLWQ	12	V	100	20	4.0	1.3	0.4
YLV96W	12	V	100	5	2.6	-1.9	1.2
YLV96W	00	V	100	2	3.9	-2.9	0.4

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 : SEP 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	500	30	9.3	8.5
01001	12	Z	500	27	5.1	-1.1
01028	00	Z	500	30	2.8	1.2
01028	12	Z	500	30	2.4	0.0
01400	12	Z	500	27	21.2	19.5
01400	00	Z	500	27	23.0	22.4
01415	00	Z	500	30	4.7	3.3
01415	12	Z	500	30	3.7	2.3
02591	00	Z	500	17	7.5	7.2
02591	12	Z	500	16	6.4	6.1
02836	00	Z	500	30	2.8	0.4
02836	12	Z	500	32	2.6	-0.6
02963	00	Z	500	30	4.3	0.1
02963	12	Z	500	31	4.0	0.9
03005	00	Z	500	32	4.6	-1.7
03005	12	Z	500	30	11.0	-0.3
03238	00	Z	500	30	4.3	3.1
03808	00	Z	500	30	4.9	4.0
03808	12	Z	500	28	3.4	2.5
03918	12	Z	500	1	3.3	-3.3
03918	00	Z	500	30	3.7	1.1
03953	00	Z	500	30	4.1	3.0
03953	12	Z	500	30	2.9	1.7
04018	12	Z	500	29	2.9	0.7
04018	00	Z	500	30	3.9	2.1
04220	00	Z	500	30	3.8	-1.5
04220	12	Z	500	29	4.2	-1.3
04270	00	Z	500	30	9.8	-9.3
04270	12	Z	500	30	11.2	-10.2
04320	12	Z	500	30	6.8	4.9
04320	00	Z	500	30	6.8	4.9
04339	00	Z	500	28	10.4	-8.8
04339	12	Z	500	30	10.5	-7.9
04360	12	Z	500	28	12.4	-11.8
04360	00	Z	500	27	14.3	-13.3
06011	12	Z	500	30	8.3	-3.6
06260	12	Z	500	5	2.2	1.9
06260	00	Z	500	30	3.1	0.9
06610	00	Z	500	32	2.6	2.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	500	32	2.7	1.2
07110	00	Z	500	30	6.8	3.2
07110	12	Z	500	30	7.2	4.2
07510	12	Z	500	31	3.5	1.6
07510	00	Z	500	31	2.6	0.9
07645	12	Z	500	30	11.4	-11.0
07645	00	Z	500	30	12.8	-12.3
07761	00	Z	500	30	10.6	-9.2
07761	12	Z	500	30	7.7	-6.1
08001	00	Z	500	30	5.6	5.2
08001	12	Z	500	30	3.5	3.0
08221	12	Z	500	30	4.1	3.9
08221	00	Z	500	30	4.8	4.5
08302	00	Z	500	28	5.7	-5.1
08302	12	Z	500	30	6.1	-5.8
08508	12	Z	500	30	4.7	3.4
08522	12	Z	500	30	7.4	7.2
10035	00	Z	500	29	2.7	1.3
10035	12	Z	500	30	2.4	0.4
10393	12	Z	500	30	2.4	0.9
10393	00	Z	500	30	2.1	0.5
10410	00	Z	500	30	2.1	0.1
10410	12	Z	500	30	2.3	-1.0
10739	00	Z	500	30	12.9	-12.7
10739	12	Z	500	30	16.4	-15.3
11035	00	Z	500	30	3.7	0.6
11035	12	Z	500	29	5.1	3.8
12982	12	Z	500	30	3.7	2.2
12982	00	Z	500	30	3.1	1.8
16245	12	Z	500	30	3.6	3.0
16245	00	Z	500	30	4.1	3.5
16429	00	Z	500	30	4.8	4.1
16429	12	Z	500	30	4.0	3.5
16622	00	Z	500	27	13.7	9.0
16754	00	Z	500	10	4.2	-3.5
17607	00	Z	500	8	5.4	4.8
17607	12	Z	500	20	5.9	4.4
26435	12	Z	500	15	2.8	-1.1
60018	00	Z	500	29	4.1	2.9
60018	12	Z	500	30	4.6	4.0
7JUNA4	12	Z	500	5	34.0	30.2
7JUNA4	00	Z	500	4	39.7	33.7
9ZT9MR	00	Z	500	10	24.6	-23.7

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	12	Z	500	13	33.3	-23.5
ASDE09	12	Z	500	2	33.8	-28.0
ATGU3F	12	Z	500	11	13.3	-8.9
ATGU3F	00	Z	500	12	11.4	-9.9
CMA	00	Z	500	6	27.0	26.9
CMA	12	Z	500	4	29.2	28.9
FPUW5G	12	Z	500	5	1.3	-1.1
GQBZLZ	12	Z	500	9	44.0	-32.3
GQBZLZ	00	Z	500	8	35.9	-13.3
JNKN7J	00	Z	500	5	28.7	28.0
JNKN7J	12	Z	500	6	34.7	34.5
KMPLHP	12	Z	500	8	8.2	1.7
KMPLHP	00	Z	500	7	4.2	0.5
LAGY8	00	Z	500	3	44.1	-43.9
LAGY8	12	Z	500	1	41.7	-41.7
LAGZ8	12	Z	500	7	66.8	66.4
LRYQE3	00	Z	500	10	9.8	-7.3
LRYQE3	12	Z	500	9	6.8	-4.3
SLKFEG	00	Z	500	8	6.4	6.2
SLKFEG	12	Z	500	8	10.3	10.0
TLH	12	Z	500	5	19.9	19.8
TLH	00	Z	500	8	17.3	17.2
USIUB	12	Z	500	1	22.8	22.8
USVAL	12	Z	500	1	0.2	0.2
WDK38H	00	Z	500	8	10.3	-10.1
WDK38H	12	Z	500	20	12.4	-12.1
WFF	12	Z	500	8	21.1	21.0
WFF	00	Z	500	10	19.2	19.1
XKQLWQ	12	Z	500	20	13.4	12.8
YLV96W	12	Z	500	7	16.2	-1.6
YLV96W	00	Z	500	6	6.1	1.2

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

RADIOSONDE MONITORING STATISTICS (EUCOS)

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

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	500	30	2.3	0.1	0.3
01001	12	V	500	27	2.3	-0.1	-0.1
01028	00	V	500	30	2.5	0.2	-0.1
01028	12	V	500	30	2.3	-0.1	0.3
01400	12	V	500	27	2.4	0.0	-0.2
01400	00	V	500	26	1.9	0.3	-0.1
01415	00	V	500	30	2.5	0.1	0.2
01415	12	V	500	30	2.5	0.3	-0.4
02591	00	V	500	17	2.2	0.4	-0.2
02591	12	V	500	16	1.8	0.3	-0.3
02836	00	V	500	29	2.3	0.0	-0.3
02836	12	V	500	30	3.3	0.2	-0.2
02963	00	V	500	29	2.3	0.2	0.1
02963	12	V	500	30	2.6	0.1	0.1
03005	00	V	500	30	3.3	0.4	1.0
03005	12	V	500	30	3.3	0.0	-0.1
03238	00	V	500	30	2.6	0.1	0.2
03808	00	V	500	30	2.5	0.1	0.0
03808	12	V	500	28	2.5	0.2	0.5
03918	12	V	500	1	0.7	0.2	-0.7
03918	00	V	500	30	2.6	0.1	-0.2
03953	00	V	500	29	2.7	-0.1	0.0
03953	12	V	500	30	3.2	-0.5	0.1
04018	12	V	500	29	3.0	-0.1	0.4
04018	00	V	500	30	3.1	-0.5	0.0
04220	00	V	500	30	2.0	-0.1	-0.5
04220	12	V	500	29	2.2	0.0	-0.3
04270	00	V	500	30	2.9	-0.1	0.5
04270	12	V	500	30	2.9	-0.1	-0.1
04320	12	V	500	30	2.2	0.1	-0.1
04320	00	V	500	30	2.0	-0.3	0.0
04339	00	V	500	28	2.8	1.1	-0.6
04339	12	V	500	30	3.0	0.2	0.3
04360	12	V	500	28	2.3	0.1	0.0
04360	00	V	500	26	2.6	0.2	0.4
06011	12	V	500	30	3.0	0.4	-0.2
06260	12	V	500	5	2.0	0.8	-0.4
06260	00	V	500	30	1.9	0.5	0.0
06610	00	V	500	30	1.8	0.4	-0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	500	30	1.8	0.0	-0.1
07110	00	V	500	30	2.3	0.2	-0.1
07110	12	V	500	30	1.7	0.4	0.2
07510	12	V	500	30	1.5	0.0	-0.1
07510	00	V	500	30	1.7	0.4	-0.5
07645	12	V	500	29	1.7	0.0	-0.1
07645	00	V	500	29	1.7	0.0	-0.2
07761	00	V	500	30	2.0	0.5	0.0
07761	12	V	500	30	1.7	-0.1	0.0
08001	00	V	500	30	2.0	0.3	0.6
08001	12	V	500	30	2.4	-0.2	-0.5
08221	12	V	500	30	2.1	0.2	-0.5
08221	00	V	500	30	1.9	-0.1	-0.2
08302	00	V	500	28	2.3	-0.1	0.5
08302	12	V	500	30	1.5	0.0	-0.3
08508	12	V	500	29	1.9	0.1	0.1
08522	12	V	500	30	1.8	-0.3	0.4
10035	00	V	500	29	2.3	0.2	-0.4
10035	12	V	500	30	2.5	-0.1	0.4
10393	12	V	500	30	2.3	0.2	0.0
10393	00	V	500	30	1.9	-0.1	-0.4
10410	00	V	500	30	2.0	0.0	-0.3
10410	12	V	500	30	2.5	0.4	-0.3
10739	00	V	500	30	1.8	-0.2	-0.1
10739	12	V	500	29	1.7	0.2	-0.3
11035	00	V	500	29	2.8	0.5	0.1
11035	12	V	500	29	1.7	0.0	0.4
12982	12	V	500	30	1.9	0.1	-0.6
12982	00	V	500	30	2.3	-0.2	0.0
16245	12	V	500	30	1.8	0.2	0.1
16245	00	V	500	30	2.1	0.1	-0.6
16429	00	V	500	30	2.4	-0.2	-0.3
16429	12	V	500	30	1.8	0.2	-0.2
16622	00	V	500	27	1.8	0.3	-0.7
16754	00	V	500	10	2.1	0.1	0.2
17607	00	V	500	8	2.0	0.3	0.3
17607	12	V	500	20	1.7	0.1	0.3
26435	12	V	500	15	3.0	0.2	0.2
60018	00	V	500	29	2.1	0.0	0.1
60018	12	V	500	30	2.1	0.4	0.5
7JUNA4	12	V	500	5	1.9	-0.8	0.4
7JUNA4	00	V	500	4	2.8	-0.2	-0.4
9ZT9MR	00	V	500	10	2.0	0.6	0.4

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	12	V	500	13	3.8	-0.6	-1.0
ASDE09	12	V	500	2	1.2	0.6	-0.3
ATGU3F	12	V	500	11	3.3	0.3	-0.2
ATGU3F	00	V	500	12	1.8	0.1	-0.2
CMA	00	V	500	6	1.8	0.3	0.4
CMA	12	V	500	4	2.4	1.2	0.1
FPUW5G	12	V	500	5	2.8	-0.9	-0.7
GQBZLZ	12	V	500	9	2.0	0.4	0.7
GQBZLZ	00	V	500	8	5.6	1.2	-0.3
JNKN7J	00	V	500	5	2.8	-0.1	0.0
JNKN7J	12	V	500	6	1.8	0.5	0.5
KMPLHP	12	V	500	8	4.1	1.4	0.2
KMPLHP	00	V	500	7	3.8	-0.7	0.4
LAGY8	00	V	500	3	1.7	0.2	-0.2
LAGY8	12	V	500	1	1.8	1.3	1.2
LAGZ8	12	V	500	7	2.2	-0.9	0.7
LRYQE3	00	V	500	10	2.7	-0.1	-0.1
LRYQE3	12	V	500	9	3.3	-1.2	-0.4
SLKFEG	00	V	500	8	1.5	0.0	-0.8
SLKFEG	12	V	500	8	2.4	-0.4	-0.1
TLH	12	V	500	5	1.9	-0.3	0.2
TLH	00	V	500	8	3.1	0.5	0.1
USIUB	12	V	500	1	1.5	-1.3	0.8
USVAL	12	V	500	1	4.4	-3.3	-2.9
WDK38H	00	V	500	8	2.6	-0.9	-0.8
WDK38H	12	V	500	20	1.9	-0.5	-0.3
WFF	12	V	500	8	2.2	0.2	0.3
WFF	00	V	500	10	2.6	-0.4	-0.6
XKQLWQ	12	V	500	20	1.8	-0.1	0.3
YLV96W	12	V	500	7	4.6	1.7	1.7
YLV96W	00	V	500	6	3.2	0.9	-0.3

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

RADIOSONDE MONITORING STATISTICS (EUCOS)

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

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	850	30	9.0	8.5
01001	12	Z	850	28	4.2	-1.0
01028	00	Z	850	30	2.5	1.7
01028	12	Z	850	30	2.9	1.0
01400	12	Z	850	28	20.6	19.5
01400	00	Z	850	27	22.4	21.8
01415	00	Z	850	30	4.5	4.0
01415	12	Z	850	30	3.9	3.4
02591	00	Z	850	17	6.2	6.0
02591	12	Z	850	16	5.2	5.0
02836	00	Z	850	30	2.1	0.5
02836	12	Z	850	31	1.6	-0.5
02963	00	Z	850	30	4.8	0.9
02963	12	Z	850	31	2.0	1.1
03005	00	Z	850	32	2.7	-1.1
03005	12	Z	850	30	11.8	1.4
03238	00	Z	850	30	2.8	1.8
03808	00	Z	850	30	2.7	1.5
03808	12	Z	850	28	2.1	1.0
03918	12	Z	850	1	3.6	-3.6
03918	00	Z	850	30	2.7	0.7
03953	00	Z	850	30	2.2	0.3
03953	12	Z	850	31	2.5	0.1
04018	12	Z	850	29	2.5	0.1
04018	00	Z	850	30	2.8	1.8
04220	00	Z	850	30	2.5	-1.2
04220	12	Z	850	30	7.6	-0.5
04270	00	Z	850	30	10.7	-10.3
04270	12	Z	850	30	11.1	-10.9
04320	12	Z	850	30	5.8	4.2
04320	00	Z	850	30	8.2	6.9
04339	00	Z	850	28	10.6	-8.2
04339	12	Z	850	30	9.6	-7.8
04360	12	Z	850	28	8.4	-7.9
04360	00	Z	850	27	10.0	-8.7
06011	12	Z	850	30	3.7	-2.2
06260	12	Z	850	5	1.6	0.1
06260	00	Z	850	30	2.0	0.2
06610	00	Z	850	32	2.3	0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	850	32	1.9	0.6
07110	00	Z	850	30	1.8	0.6
07110	12	Z	850	30	1.9	0.3
07510	12	Z	850	31	2.1	-1.5
07510	00	Z	850	31	2.4	-1.7
07645	12	Z	850	30	4.9	-4.6
07645	00	Z	850	30	5.6	-5.3
07761	00	Z	850	30	13.2	-13.0
07761	12	Z	850	30	12.3	-12.2
08001	00	Z	850	30	2.4	1.9
08001	12	Z	850	30	2.0	1.2
08221	12	Z	850	30	1.7	0.9
08221	00	Z	850	30	2.1	1.2
08302	00	Z	850	28	7.7	-7.6
08302	12	Z	850	30	9.0	-8.9
08508	12	Z	850	30	3.1	2.1
08522	12	Z	850	30	4.4	4.0
10035	00	Z	850	29	1.9	-0.4
10035	12	Z	850	30	1.4	0.5
10393	12	Z	850	30	1.6	0.2
10393	00	Z	850	30	1.4	-0.4
10410	00	Z	850	30	1.8	-1.1
10410	12	Z	850	30	2.0	-1.6
10739	00	Z	850	30	13.9	-13.7
10739	12	Z	850	31	17.0	-15.8
11035	00	Z	850	30	2.7	-0.5
11035	12	Z	850	29	2.9	1.9
12982	12	Z	850	30	2.7	2.0
12982	00	Z	850	30	1.6	0.8
16245	12	Z	850	30	3.3	2.8
16245	00	Z	850	30	2.9	2.5
16429	00	Z	850	30	3.2	2.8
16429	12	Z	850	30	2.7	2.0
16622	00	Z	850	28	5.3	5.0
16754	00	Z	850	12	6.0	-5.9
17607	00	Z	850	8	3.2	1.8
17607	12	Z	850	21	3.1	1.3
26435	12	Z	850	15	2.0	-1.0
60018	00	Z	850	29	2.1	0.4
60018	12	Z	850	30	2.4	1.7
7JUNA4	12	Z	850	5	34.0	28.4
7JUNA4	00	Z	850	5	43.5	39.4
9ZT9MR	00	Z	850	10	17.8	-17.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	12	Z	850	13	15.7	-11.2
ASDE09	12	Z	850	2	36.6	-28.6
ATGU3F	12	Z	850	11	14.0	-11.9
ATGU3F	00	Z	850	12	12.3	-10.4
CMA	00	Z	850	5	21.7	21.7
CMA	12	Z	850	3	20.9	20.3
FPUW5G	12	Z	850	5	2.2	-0.8
GQBZLZ	12	Z	850	9	18.9	-8.2
GQBZLZ	00	Z	850	8	21.8	-5.5
JNKN7J	00	Z	850	5	39.4	39.3
JNKN7J	12	Z	850	6	38.9	38.8
KMPLHP	12	Z	850	8	4.2	-2.1
KMPLHP	00	Z	850	8	5.7	1.3
LAGY8	00	Z	850	3	49.4	-49.4
LAGY8	12	Z	850	1	45.5	-45.5
LAGZ8	12	Z	850	7	76.6	76.4
LRYQE3	00	Z	850	10	9.0	-6.3
LRYQE3	12	Z	850	9	8.4	-7.1
SLKFEG	00	Z	850	8	7.3	6.9
SLKFEG	12	Z	850	8	8.6	7.9
TLH	12	Z	850	6	6.2	5.7
TLH	00	Z	850	5	7.1	6.2
USIUB	12	Z	850	1	23.8	23.8
USVAL	12	Z	850	1	1.5	-1.5
WDK38H	00	Z	850	9	11.6	-10.8
WDK38H	12	Z	850	20	12.5	-11.6
WFF	12	Z	850	4	9.6	9.6
WFF	00	Z	850	6	12.5	12.2
XKQLWQ	12	Z	850	21	3.4	2.3
YLV96W	12	Z	850	7	19.8	-0.3
YLV96W	00	Z	850	6	5.8	-0.7

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

RADIOSONDE MONITORING STATISTICS (EUCOS)

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

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	850	30	2.7	-0.4	0.3
01001	12	V	850	28	3.4	-0.2	0.6
01028	00	V	850	30	2.5	-0.1	-0.6
01028	12	V	850	30	3.1	-0.1	-0.2
01400	12	V	850	28	2.0	0.3	0.9
01400	00	V	850	27	2.1	-0.1	0.0
01415	00	V	850	30	2.3	0.5	0.5
01415	12	V	850	30	2.8	0.3	-0.7
02591	00	V	850	17	2.4	0.7	0.5
02591	12	V	850	16	2.0	0.1	-0.3
02836	00	V	850	30	1.9	0.3	0.3
02836	12	V	850	30	2.6	0.4	-0.1
02963	00	V	850	30	2.4	-0.3	0.1
02963	12	V	850	30	1.8	0.3	0.2
03005	00	V	850	30	3.3	0.1	0.2
03005	12	V	850	30	2.1	0.0	0.4
03238	00	V	850	30	2.6	-0.6	-0.1
03808	00	V	850	30	2.1	0.0	-0.3
03808	12	V	850	28	3.0	0.1	-0.8
03918	12	V	850	1	2.8	0.9	-2.7
03918	00	V	850	30	2.9	-0.2	-0.1
03953	00	V	850	29	2.5	0.4	0.5
03953	12	V	850	30	2.3	0.5	0.7
04018	12	V	850	29	2.9	-0.3	0.3
04018	00	V	850	30	2.1	-0.5	0.2
04220	00	V	850	30	2.5	0.0	-0.5
04220	12	V	850	30	2.5	0.1	-0.4
04270	00	V	850	30	2.3	0.1	0.4
04270	12	V	850	30	2.8	0.2	0.6
04320	12	V	850	30	3.0	-0.2	0.2
04320	00	V	850	30	2.6	-0.5	0.4
04339	00	V	850	28	6.2	1.4	0.4
04339	12	V	850	30	6.0	1.2	1.3
04360	12	V	850	28	4.0	1.2	1.3
04360	00	V	850	26	3.6	0.9	0.7
06011	12	V	850	30	2.8	-0.1	-0.5
06260	12	V	850	5	3.1	0.1	-1.0
06260	00	V	850	30	2.5	0.0	0.0
06610	00	V	850	30	2.2	1.1	0.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	850	30	2.1	0.0	-0.2
07110	00	V	850	30	1.7	0.0	0.1
07110	12	V	850	30	2.5	0.5	-0.1
07510	12	V	850	30	2.3	0.3	-0.3
07510	00	V	850	30	2.4	0.3	0.3
07645	12	V	850	29	3.2	-0.1	0.7
07645	00	V	850	29	2.6	-0.1	0.1
07761	00	V	850	30	1.9	0.1	-0.4
07761	12	V	850	30	2.0	-0.3	0.4
08001	00	V	850	30	1.9	0.4	0.0
08001	12	V	850	30	2.1	0.4	-0.4
08221	12	V	850	30	1.9	0.8	-0.1
08221	00	V	850	30	2.4	0.0	0.6
08302	00	V	850	28	2.1	-0.2	-0.4
08302	12	V	850	30	2.5	0.3	0.3
08508	12	V	850	29	2.8	0.7	-0.9
08522	12	V	850	30	2.8	0.3	0.4
10035	00	V	850	29	2.4	0.2	-0.3
10035	12	V	850	30	2.1	0.6	0.1
10393	12	V	850	30	2.8	0.6	-0.4
10393	00	V	850	30	2.0	0.4	0.0
10410	00	V	850	30	1.6	-0.4	0.0
10410	12	V	850	30	2.0	0.1	-0.1
10739	00	V	850	30	2.2	-0.1	-0.3
10739	12	V	850	29	1.7	0.2	-0.3
11035	00	V	850	29	2.4	0.0	-0.3
11035	12	V	850	29	2.1	0.0	0.3
12982	12	V	850	30	2.3	0.3	0.7
12982	00	V	850	30	2.1	0.4	-0.1
16245	12	V	850	30	2.0	-0.1	0.0
16245	00	V	850	30	1.8	0.0	0.5
16429	00	V	850	30	2.5	0.6	0.5
16429	12	V	850	30	2.3	-0.4	-0.2
16622	00	V	850	28	2.3	0.8	0.1
16754	00	V	850	11	1.8	0.2	0.0
17607	00	V	850	8	3.1	0.3	-0.6
17607	12	V	850	21	2.8	0.7	0.5
26435	12	V	850	15	2.8	-0.4	-0.4
60018	00	V	850	29	2.7	0.6	0.6
60018	12	V	850	30	2.8	1.2	-0.1
7JUNA4	12	V	850	5	3.5	-1.5	1.2
7JUNA4	00	V	850	5	3.2	-1.1	0.4
9ZT9MR	00	V	850	10	8.6	2.6	-2.1

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	12	V	850	13	8.8	0.2	-2.0
ASDE09	12	V	850	2	2.1	0.9	-1.4
ATGU3F	12	V	850	11	2.4	0.9	0.6
ATGU3F	00	V	850	12	2.7	-0.2	-0.1
CMA	00	V	850	5	1.1	0.0	-0.2
CMA	12	V	850	3	3.9	-0.1	2.6
FPUW5G	12	V	850	5	2.7	-0.4	0.8
GQBZLZ	12	V	850	9	1.8	0.4	0.4
GQBZLZ	00	V	850	8	8.2	2.1	0.3
JNKN7J	00	V	850	5	2.7	-2.0	0.4
JNKN7J	12	V	850	6	2.3	-0.2	-0.9
KMPLHP	12	V	850	8	2.3	-0.5	-0.3
KMPLHP	00	V	850	8	2.4	-0.1	0.5
LAGY8	00	V	850	3	2.2	-1.5	0.2
LAGY8	12	V	850	1	1.0	0.2	-1.0
LAGZ8	12	V	850	7	2.2	0.1	-1.1
LRYQE3	00	V	850	10	2.0	0.3	0.1
LRYQE3	12	V	850	9	2.3	-0.4	1.4
SLKFEG	00	V	850	8	2.3	0.1	0.0
SLKFEG	12	V	850	8	2.1	1.0	-0.5
TLH	12	V	850	6	1.4	0.0	-0.6
TLH	00	V	850	5	2.5	0.4	-0.5
USIUB	12	V	850	1	3.2	0.8	3.1
USVAL	12	V	850	1	1.7	1.3	1.1
WDK38H	00	V	850	9	2.1	-0.3	0.8
WDK38H	12	V	850	20	2.8	-0.3	0.6
WFF	12	V	850	4	3.0	1.7	0.4
WFF	00	V	850	6	2.3	0.1	-0.9
XKQLWQ	12	V	850	21	2.7	-0.3	-0.7
YLV96W	12	V	850	7	3.4	-0.9	0.2
YLV96W	00	V	850	6	1.8	0.0	0.3

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

DRIFTER MONITORING STATISTICS (EUCOS)

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

TIME = 99 => AVERAGE OF ALL OBSERVATIONS
 GROSS ERROR LIMIT = 15 HPA

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
1000049	99	P	SUR	23	-66	206	0	0.2	0.3	0.3
1000050	99	P	SUR	22	-66	2092	0	0.4	-0.2	0.4
1000051	99	P	SUR	21	-66	1882	0	0.5	0.1	0.5
1300130	99	P	SUR	28	-16	720	0	0.4	0.3	0.5
1300131	99	P	SUR	28	-17	720	0	0.5	0.2	0.5
1301622	99	P	SUR	30	-37	716	0	0.2	0.0	0.2
1301726	99	P	SUR	34	-52	346	0	0.4	-0.2	0.4
1301782	99	P	SUR	45	-12	720	0	0.3	0.0	0.3
1301784	99	P	SUR	17	-25	702	0	0.4	-2.1	2.1
1301785	99	P	SUR	30	-26	718	0	0.2	-0.1	0.2
1301805	99	P	SUR	63	-34	720	0	0.8	-0.3	0.9
1301806	99	P	SUR	52	-37	720	0	0.4	0.0	0.4
1301808	99	P	SUR	64	9	229	0	0.3	-0.2	0.4
1301809	99	P	SUR	50	-25	720	0	0.4	0.0	0.4
1301810	99	P	SUR	26	-49	720	0	0.3	-0.4	0.5
1301814	99	P	SUR	25	-44	720	0	0.3	-0.1	0.3
1301819	99	P	SUR	31	-52	720	0	0.3	-0.5	0.6
1301823	99	P	SUR	34	-52	720	0	0.3	-0.1	0.4
1401617	99	P	SUR	57	-41	711	0	0.4	-0.1	0.4
1801560	99	P	SUR	31	-64	4032	0	0.4	-0.2	0.4
1801590	99	P	SUR	30	-67	3822	0	0.4	-0.2	0.4
1801599	99	P	SUR	27	-61	3444	0	0.3	0.0	0.3
1801600	99	P	SUR	16	-67	3639	0	0.3	0.0	0.3
1801607	99	P	SUR	20	-66	3820	0	0.5	0.2	0.5
1801670	99	P	SUR	49	-7	701	0	0.3	0.2	0.4
1801675	99	P	SUR	62	-18	691	0	0.4	0.2	0.4
1801695	99	P	SUR	50	-30	720	0	0.4	-0.4	0.5
1801716	99	P	SUR	29	-46	720	0	0.4	0.3	0.5
1801732	99	P	SUR	32	-16	720	0	0.3	0.0	0.3
1801777	99	P	SUR	35	-35	718	0	0.4	0.0	0.4
1801778	99	P	SUR	51	-11	688	0	0.3	-0.2	0.4
1801814	99	P	SUR	42	-61	710	0	0.5	-0.1	0.5
1801943	99	P	SUR	46	-42	693	0	0.4	0.2	0.4
1801944	99	P	SUR	45	-53	706	0	0.4	-0.1	0.5
1801945	99	P	SUR	44	-25	693	0	0.3	0.2	0.4
1801946	99	P	SUR	49	-13	695	27	3.1	-0.8	3.2

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	16	-67	330	0	0.3	0.0	0.3
2801970	99	P	SUR	23	-32	720	0	0.3	-0.4	0.5
2801979	99	P	SUR	51	-53	720	1	0.3	-0.1	0.3
2801980	99	P	SUR	52	-53	720	0	0.3	0.2	0.4
2802007	99	P	SUR	22	-58	720	0	0.3	-0.1	0.3
2802008	99	P	SUR	65	-40	135	0	0.6	-0.4	0.8
2802010	99	P	SUR	28	-69	720	0	0.5	-0.2	0.5
2802011	99	P	SUR	34	-23	720	0	0.2	-0.3	0.3
2802022	99	P	SUR	29	-41	720	0	0.3	-0.3	0.5
2802100	99	P	SUR	75	2	700	0	0.3	0.2	0.4
2802124	99	P	SUR	23	-43	660	0	0.4	-0.1	0.4
2802242	99	P	SUR	47	-22	705	7	1.9	0.3	1.9
2802243	99	P	SUR	44	-25	705	0	0.3	0.2	0.3
2802244	99	P	SUR	58	-12	700	12	1.8	0.0	1.8
2802246	99	P	SUR	48	-33	707	0	0.4	0.3	0.5
2802247	99	P	SUR	64	-5	708	0	0.3	0.1	0.3
2802258	99	P	SUR	47	-47	683	0	0.5	-3.5	3.6
3001001	99	P	SUR	23	-68	913	0	0.5	0.1	0.5
3801596	99	P	SUR	28	-61	720	0	0.4	-0.4	0.6
3801598	99	P	SUR	32	-48	720	0	0.3	0.0	0.3
3801612	99	P	SUR	29	-64	720	0	0.4	-0.1	0.4
3801625	99	P	SUR	22	-62	720	0	0.4	0.5	0.6
3801676	99	P	SUR	79	16	715	0	0.5	0.1	0.5
3801713	99	P	SUR	33	-19	712	0	0.3	0.0	0.3
3801834	99	P	SUR	49	-27	692	0	0.4	0.0	0.4
3801835	99	P	SUR	43	-30	693	0	0.3	0.0	0.3
3801836	99	P	SUR	44	-32	706	0	0.3	0.2	0.4
3801837	99	P	SUR	68	-15	708	0	0.4	0.3	0.5
3801838	99	P	SUR	48	-26	711	0	0.3	0.2	0.4
3801839	99	P	SUR	45	-23	223	0	0.4	-1.8	1.8
3801840	99	P	SUR	49	-20	694	0	0.3	-0.1	0.3
3801841	99	P	SUR	52	-40	691	3	2.1	0.2	2.1
3801842	99	P	SUR	65	3	697	3	0.9	0.0	0.9
3801846	99	P	SUR	32	32	484	0	0.3	-0.1	0.4
4000010	99	P	SUR	21	-65	557	0	0.4	0.0	0.4
4000011	99	P	SUR	22	-65	489	0	0.3	-0.2	0.4
4100040	99	P	SUR	15	-53	4252	0	0.3	-0.4	0.5
4100041	99	P	SUR	14	-46	4249	0	0.3	0.1	0.3
4100043	99	P	SUR	21	-65	4249	0	0.3	-0.7	0.8
4100044	99	P	SUR	22	-59	4253	0	0.3	-0.6	0.7
4100046	99	P	SUR	24	-68	4255	0	0.5	-0.4	0.6
4100048	99	P	SUR	32	-70	4260	0	0.4	0.0	0.4
4100049	99	P	SUR	28	-62	4261	0	0.4	0.1	0.4

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
4100053	99	P	SUR	18	-66	3764	0	0.4	-0.4	0.5
4100056	99	P	SUR	18	-65	3448	0	0.3	-0.6	0.7
4101725	99	P	SUR	18	-63	717	0	0.3	-0.2	0.3
4101727	99	P	SUR	34	-62	714	0	0.4	-0.2	0.5
4101728	99	P	SUR	29	-56	718	0	0.3	0.2	0.4
4101729	99	P	SUR	30	-62	369	21	4.4	1.0	4.5
4101863	99	P	SUR	31	-68	720	0	0.4	-0.4	0.6
4101870	99	P	SUR	31	-61	720	0	0.4	-0.4	0.5
4101873	99	P	SUR	27	-44	57	0	0.3	-0.2	0.4
4101875	99	P	SUR	26	-61	720	0	0.4	0.0	0.4
4101877	99	P	SUR	29	-26	720	0	0.2	0.0	0.2
4101878	99	P	SUR	21	-36	720	0	0.3	-0.1	0.3
41040	99	P	SUR	15	-53	716	0	0.3	-0.4	0.5
41041	99	P	SUR	14	-46	716	0	0.3	0.0	0.3
41043	99	P	SUR	21	-65	718	0	0.3	-0.7	0.8
41044	99	P	SUR	22	-59	719	0	0.3	-0.6	0.7
41046	99	P	SUR	24	-68	715	0	0.5	-0.4	0.6
41048	99	P	SUR	32	-70	717	0	0.4	0.0	0.4
41049	99	P	SUR	28	-62	719	0	0.4	0.1	0.4
41053	99	P	SUR	19	-66	557	0	0.4	-0.4	0.6
41056	99	P	SUR	18	-66	708	0	0.3	-0.6	0.7
4200060	99	P	SUR	16	-63	4254	0	0.3	-0.2	0.4
4200085	99	P	SUR	18	-67	3621	0	0.3	-0.4	0.5
42060	99	P	SUR	16	-63	717	0	0.3	-0.2	0.4
42085	99	P	SUR	18	-67	596	0	0.3	-0.4	0.6
4400008	99	P	SUR	40	-69	4254	0	0.4	-0.5	0.7
4400011	99	P	SUR	41	-67	4261	0	0.4	-0.2	0.4
4400027	99	P	SUR	44	-67	4239	0	0.4	-1.1	1.2
4400137	99	P	SUR	42	-62	707	0	0.4	-0.1	0.4
4400139	99	P	SUR	44	-57	717	0	0.4	-0.2	0.4
4400150	99	P	SUR	43	-64	719	0	0.4	-0.2	0.5
4400258	99	P	SUR	45	-63	720	0	0.4	-0.1	0.4
4400488	99	P	SUR	45	-61	719	0	0.4	-0.1	0.4
4400489	99	P	SUR	45	-61	718	0	0.4	0.1	0.4
44008	99	P	SUR	41	-69	718	0	0.4	-0.6	0.7
44011	99	P	SUR	41	-67	717	0	0.3	-0.3	0.4
4401584	99	P	SUR	33	-54	718	0	0.3	0.0	0.3
44027	99	P	SUR	44	-67	716	0	0.4	-1.1	1.2
4402730	99	P	SUR	27	-41	658	0	0.4	-0.2	0.5
4402737	99	P	SUR	53	-36	720	39	3.2	-0.4	3.3
4402744	99	P	SUR	31	-48	720	0	0.3	-0.1	0.3
4402749	99	P	SUR	72	3	597	0	0.3	-0.1	0.3
4403568	99	P	SUR	28	-51	720	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
44078	99	P	SUR	60	-40	517	0	0.5	-0.6	0.8
44137	99	P	SUR	42	-62	706	0	0.4	-0.1	0.4
44139	99	P	SUR	44	-57	716	0	0.4	-0.2	0.4
44150	99	P	SUR	43	-64	719	0	0.5	-0.2	0.5
44258	99	P	SUR	45	-63	719	0	0.4	-0.1	0.4
44488	99	P	SUR	45	-61	720	0	0.4	-0.1	0.4
44489	99	P	SUR	46	-61	718	0	0.4	0.1	0.4
4601782	99	P	SUR	29	-36	720	0	0.2	0.5	0.5
4701550	99	P	SUR	82	-3	678	0	0.4	-0.2	0.5
4701555	99	P	SUR	64	-22	11	0	0.3	-5.6	5.6
4701558	99	P	SUR	79	-18	60	0	0.3	-4.0	4.1
4801763	99	P	SUR	70	6	720	12	1.7	-12.3	12.5
4802582	99	P	SUR	64	-18	612	0	0.4	-9.8	9.9
4802664	99	P	SUR	79	-66	718	0	0.4	0.0	0.4
4803997	99	P	SUR	45	-21	716	0	0.3	-0.3	0.4
4804127	99	P	SUR	28	-56	720	0	0.4	-0.1	0.4
4804130	99	P	SUR	15	-61	116	0	0.4	-0.8	0.9
4804272	99	P	SUR	65	-5	709	0	0.3	0.0	0.3
4804311	99	P	SUR	45	-49	616	0	0.4	0.3	0.5
5001002	99	P	SUR	21	-65	1197	0	0.4	0.2	0.4
5801955	99	P	SUR	24	-65	4296	0	0.4	0.0	0.4
5801972	99	P	SUR	36	-16	718	0	0.3	-0.2	0.4
5802011	99	P	SUR	25	-61	720	0	0.3	0.2	0.4
5802033	99	P	SUR	24	-61	157	0	0.9	0.8	1.2
5802095	99	P	SUR	51	-39	163	0	0.3	-0.3	0.4
5802112	99	P	SUR	19	-53	695	0	0.3	0.0	0.3
5802116	99	P	SUR	38	-46	720	0	0.5	0.1	0.5
5802118	99	P	SUR	27	-47	720	0	0.4	-0.2	0.4
5802227	99	P	SUR	53	-28	710	710	0.0	0.0	0.0
5802253	99	P	SUR	38	-22	695	0	0.2	0.2	0.3
5802254	99	P	SUR	57	-32	707	0	0.4	0.0	0.4
5802255	99	P	SUR	61	-31	709	0	0.4	0.2	0.5
5802256	99	P	SUR	58	-26	710	0	0.4	-0.2	0.5
5802257	99	P	SUR	57	-26	708	0	0.4	0.1	0.4
6100001	99	P	SUR	43	8	687	0	0.4	0.2	0.4
6100002	99	P	SUR	42	5	660	0	0.4	0.1	0.4
6100196	99	P	SUR	42	4	720	0	0.4	0.2	0.5
6100197	99	P	SUR	40	4	720	0	0.3	0.0	0.3
6100198	99	P	SUR	37	-2	720	0	0.4	0.4	0.6
6100207	99	P	SUR	37	15	1248	0	0.4	-0.5	0.6
6100210	99	P	SUR	39	17	1306	0	0.4	-0.5	0.6
6100211	99	P	SUR	39	16	1317	0	0.4	-0.5	0.7
6100214	99	P	SUR	41	13	1290	0	0.3	0.6	0.7

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6100215	99	P	SUR	41	17	1322	0	0.4	-0.3	0.5
6100216	99	P	SUR	42	12	1218	0	0.4	-0.8	0.9
6100217	99	P	SUR	42	15	1220	0	0.5	-0.1	0.5
6100218	99	P	SUR	44	14	975	0	0.5	-0.2	0.6
6100220	99	P	SUR	45	13	1260	0	0.5	-0.1	0.5
6100280	99	P	SUR	41	1	720	0	0.3	0.2	0.4
6100281	99	P	SUR	40	0	718	0	0.4	0.3	0.5
6100417	99	P	SUR	38	0	720	0	0.4	0.3	0.5
6100430	99	P	SUR	40	2	720	0	0.3	0.5	0.6
6101031	99	P	SUR	42	8	862	0	0.4	0.1	0.4
6101032	99	P	SUR	42	10	676	0	0.3	0.1	0.3
6101033	99	P	SUR	43	8	668	0	0.3	0.2	0.4
6101034	99	P	SUR	42	6	683	0	0.3	-0.1	0.3
6101035	99	P	SUR	41	7	851	0	0.5	0.1	0.5
6101036	99	P	SUR	42	7	679	0	0.3	0.0	0.3
6200001	99	P	SUR	45	-5	664	0	0.3	0.1	0.3
6200024	99	P	SUR	44	-3	355	0	0.3	-0.6	0.7
6200025	99	P	SUR	44	-6	719	0	0.4	0.2	0.4
6200029	99	P	SUR	49	-12	719	0	0.4	-0.1	0.4
6200050	99	P	SUR	50	-4	716	0	0.3	0.0	0.3
6200081	99	P	SUR	51	-13	718	0	0.4	-0.2	0.4
6200082	99	P	SUR	44	-8	720	0	0.3	0.1	0.4
6200083	99	P	SUR	43	-9	720	0	0.3	0.3	0.4
6200084	99	P	SUR	42	-9	720	0	0.3	0.2	0.4
6200085	99	P	SUR	36	-7	720	0	0.4	0.1	0.4
6200086	99	P	SUR	55	7	198	0	0.2	-0.3	0.4
6200087	99	P	SUR	55	7	240	0	0.3	-0.3	0.5
6200091	99	P	SUR	53	-5	720	0	0.4	-0.1	0.4
6200092	99	P	SUR	51	-11	720	0	0.3	-0.1	0.4
6200094	99	P	SUR	52	-7	720	0	0.3	0.0	0.3
6200095	99	P	SUR	53	-16	720	0	0.5	-0.2	0.5
6200103	99	P	SUR	50	-3	716	0	0.3	0.2	0.4
6200105	99	P	SUR	55	-13	720	2	0.4	-0.1	0.4
6200163	99	P	SUR	48	-8	720	0	0.3	-0.1	0.3
6200442	99	P	SUR	49	-16	494	0	0.3	-0.1	0.3
6201065	99	P	SUR	54	7	665	0	0.2	1.2	1.2
6202598	99	P	SUR	37	-47	369	29	4.6	-2.5	5.3
6202599	99	P	SUR	43	-41	666	111	0.5	0.0	0.5
62029	99	P	SUR	49	-13	1433	0	0.4	-0.1	0.4
62030	99	P	SUR	50	-4	1429	0	0.3	0.0	0.3
6203615	99	P	SUR	26	-44	716	0	0.4	0.1	0.4
6203625	99	P	SUR	30	-40	718	0	0.3	-0.3	0.4
6203632	99	P	SUR	29	-35	719	0	0.2	0.2	0.3

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6203639	99	P	SUR	28	-45	719	0	0.4	-0.4	0.5
6203662	99	P	SUR	75	-19	715	0	0.4	-0.6	0.7
6203666	99	P	SUR	55	-10	225	0	0.6	0.3	0.6
6203669	99	P	SUR	80	14	70	0	0.6	0.9	1.0
6203672	99	P	SUR	31	-55	716	0	0.3	0.1	0.3
6203674	99	P	SUR	62	-7	154	0	2.4	10.2	10.4
6203676	99	P	SUR	60	-22	716	0	0.3	0.2	0.4
6203677	99	P	SUR	27	-30	717	0	0.2	-0.4	0.4
6203679	99	P	SUR	25	-48	718	0	0.3	-0.2	0.4
6203680	99	P	SUR	65	11	715	0	0.3	-0.2	0.4
6203683	99	P	SUR	24	-50	719	0	0.3	0.1	0.3
6203686	99	P	SUR	29	-52	715	0	0.3	0.1	0.3
6203831	99	P	SUR	70	32	584	0	0.2	-0.2	0.3
6203836	99	P	SUR	59	-39	720	0	0.3	-0.1	0.4
6203853	99	P	SUR	79	11	720	0	0.4	0.0	0.4
6203854	99	P	SUR	71	27	225	0	0.3	-0.2	0.3
6204523	99	P	SUR	43	-53	718	0	0.4	-0.2	0.5
6204524	99	P	SUR	40	-34	717	0	0.4	0.1	0.4
6204525	99	P	SUR	42	-42	715	0	0.5	-0.7	0.9
6204526	99	P	SUR	44	-24	61	0	3.0	4.9	5.8
6204527	99	P	SUR	42	-31	718	0	0.5	0.1	0.5
6204528	99	P	SUR	44	-15	553	34	2.7	0.1	2.7
6204529	99	P	SUR	39	-29	232	0	0.3	-0.8	0.8
6204530	99	P	SUR	42	-12	720	50	3.8	1.9	4.2
6204531	99	P	SUR	46	-22	716	6	3.5	0.2	3.5
6204533	99	P	SUR	42	-20	714	13	1.5	-0.3	1.5
6204534	99	P	SUR	44	-24	717	0	0.4	-0.4	0.6
6204535	99	P	SUR	39	-35	720	0	0.5	0.3	0.5
6204536	99	P	SUR	42	-23	719	0	0.4	0.1	0.4
6204537	99	P	SUR	42	-56	714	0	0.4	0.3	0.5
62050	99	P	SUR	50	-4	1433	0	0.3	0.0	0.3
62081	99	P	SUR	51	-13	1434	0	0.4	-0.2	0.4
62091	99	P	SUR	53	-5	714	0	0.4	-0.1	0.4
62092	99	P	SUR	51	-11	714	0	0.3	-0.1	0.4
62094	99	P	SUR	52	-7	714	0	0.3	0.0	0.3
62095	99	P	SUR	53	-16	714	0	0.5	-0.2	0.5
62102	99	P	SUR	58	2	1438	0	0.5	0.2	0.5
62103	99	P	SUR	50	-3	1438	0	0.3	0.2	0.4
62104	99	P	SUR	57	1	1438	0	0.4	-0.1	0.4
62105	99	P	SUR	55	-13	1437	4	0.4	-0.2	0.4
62107	99	P	SUR	50	-6	1431	0	0.3	-0.4	0.5
62112	99	P	SUR	58	0	1434	0	0.3	0.0	0.3
62113	99	P	SUR	58	0	1438	0	0.5	0.2	0.6

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
62114	99	P	SUR	58	0	1438	0	0.4	-0.2	0.4
62115	99	P	SUR	58	-3	889	0	0.4	0.1	0.4
62116	99	P	SUR	58	1	1438	0	0.4	-0.1	0.4
62118	99	P	SUR	58	1	1432	0	0.3	0.3	0.5
62119	99	P	SUR	57	2	1430	0	0.4	0.1	0.4
62120	99	P	SUR	56	2	1360	0	0.4	-0.4	0.6
62121	99	P	SUR	54	3	1438	0	0.3	0.3	0.4
62122	99	P	SUR	57	2	1436	0	0.4	0.0	0.4
62124	99	P	SUR	54	-4	1265	0	0.4	-0.2	0.5
62127	99	P	SUR	54	1	1438	0	0.3	0.2	0.4
62129	99	P	SUR	58	0	444	0	0.4	0.2	0.5
62130	99	P	SUR	59	1	1438	0	0.4	-0.3	0.5
62131	99	P	SUR	54	1	1438	0	0.3	0.4	0.5
62132	99	P	SUR	56	2	1436	0	0.5	0.0	0.5
62133	99	P	SUR	57	1	1438	0	0.5	0.1	0.5
62134	99	P	SUR	58	1	1430	0	0.4	0.3	0.5
62138	99	P	SUR	54	0	1404	0	0.3	0.6	0.7
62140	99	P	SUR	57	1	1438	0	0.3	0.1	0.3
62141	99	P	SUR	58	0	1422	0	0.3	0.0	0.3
62143	99	P	SUR	58	2	1438	0	0.5	0.7	0.9
62144	99	P	SUR	53	2	1438	0	0.3	0.2	0.4
62145	99	P	SUR	53	3	1436	0	0.3	0.2	0.4
62146	99	P	SUR	57	2	1438	0	0.6	0.4	0.7
62148	99	P	SUR	54	2	1140	0	0.4	0.5	0.7
62149	99	P	SUR	54	1	1436	0	0.3	0.4	0.5
62151	99	P	SUR	57	2	1438	0	0.4	0.2	0.5
62152	99	P	SUR	57	2	1438	0	0.4	0.6	0.7
62153	99	P	SUR	57	2	1436	0	0.3	-0.2	0.4
62154	99	P	SUR	56	2	1438	0	0.3	-0.3	0.4
62155	99	P	SUR	58	1	902	0	0.4	0.5	0.7
62157	99	P	SUR	58	0	1438	0	0.3	-0.1	0.3
62160	99	P	SUR	57	2	1398	0	0.3	0.1	0.3
62161	99	P	SUR	58	1	1438	0	0.5	0.0	0.5
62162	99	P	SUR	57	1	1438	0	0.3	0.0	0.3
62163	99	P	SUR	48	-9	1436	0	0.3	-0.1	0.3
62164	99	P	SUR	57	1	1438	0	0.3	0.2	0.3
62165	99	P	SUR	54	1	1436	0	0.3	0.3	0.4
62168	99	P	SUR	58	1	1436	0	0.3	0.2	0.4
62170	99	P	SUR	51	2	1436	0	0.3	-0.4	0.5
62198	99	P	SUR	52	2	1438	0	0.3	-0.6	0.7
62302	99	P	SUR	61	-2	1432	0	0.6	0.1	0.6
62304	99	P	SUR	51	2	1434	0	0.3	-0.1	0.3
62305	99	P	SUR	50	0	1438	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
62442	99	P	SUR	49	-16	1433	0	0.3	-0.1	0.4
6301003	99	P	SUR	74	24	719	0	0.3	-0.2	0.4
6301583	99	P	SUR	52	-18	719	0	0.5	0.1	0.5
6301584	99	P	SUR	78	-16	199	6	4.6	-1.3	4.8
6301587	99	P	SUR	76	-10	718	9	2.1	0.0	2.1
6301634	99	P	SUR	56	-32	717	0	0.8	0.2	0.8
6301636	99	P	SUR	63	-34	716	0	1.5	0.3	1.5
6301638	99	P	SUR	59	-46	718	0	1.9	-0.2	1.9
6301641	99	P	SUR	79	7	717	0	0.8	-0.1	0.8
6301642	99	P	SUR	73	14	718	0	0.4	0.2	0.5
6301643	99	P	SUR	75	-9	719	0	0.4	-0.1	0.4
6301644	99	P	SUR	71	9	718	0	0.3	-0.2	0.4
6301645	99	P	SUR	75	-6	717	0	0.4	0.1	0.4
6301647	99	P	SUR	70	36	626	0	0.3	-0.1	0.4
6301648	99	P	SUR	88	5	718	0	0.4	-0.3	0.5
6301649	99	P	SUR	88	-19	712	0	0.5	-0.1	0.5
63055	99	P	SUR	61	2	1414	0	0.4	0.1	0.4
63056	99	P	SUR	60	2	1438	0	0.4	0.5	0.6
63057	99	P	SUR	59	2	1438	0	0.3	-0.4	0.5
63058	99	P	SUR	53	2	1420	0	0.3	0.0	0.3
63059	99	P	SUR	58	-1	1433	0	0.4	0.5	0.6
63102	99	P	SUR	61	1	1438	0	0.4	0.1	0.4
63108	99	P	SUR	61	2	1434	0	0.5	0.1	0.5
63109	99	P	SUR	60	2	1438	0	0.4	-0.2	0.5
63110	99	P	SUR	60	2	1438	0	0.4	-0.1	0.4
63112	99	P	SUR	61	1	1438	0	0.3	-0.2	0.4
63115	99	P	SUR	62	1	1401	0	0.4	0.1	0.5
63118	99	P	SUR	58	-2	1434	0	0.6	-0.5	0.8
6400045	99	P	SUR	59	-12	719	1	0.3	0.0	0.3
6400046	99	P	SUR	61	-4	714	0	0.3	-0.2	0.4
6401599	99	P	SUR	75	-12	716	0	0.6	0.3	0.7
6401600	99	P	SUR	83	-21	717	0	0.4	0.2	0.5
6401601	99	P	SUR	59	-35	719	0	0.5	0.0	0.5
6401602	99	P	SUR	67	-21	184	9	4.8	-1.0	4.9
6401765	99	P	SUR	87	-23	717	0	0.5	-0.3	0.5
6402617	99	P	SUR	36	-37	270	0	0.2	0.3	0.4
64041	99	P	SUR	61	-3	1432	0	0.4	0.0	0.4
64045	99	P	SUR	59	-12	1437	2	0.3	-0.1	0.3
64046	99	P	SUR	61	-4	1431	0	0.3	-0.3	0.5
6600021	99	P	SUR	55	14	174	0	0.3	-1.0	1.0
6600022	99	P	SUR	54	14	361	0	0.4	-0.2	0.4
6600024	99	P	SUR	55	13	21	0	0.3	-1.0	1.0
6801771	99	P	SUR	42	-11	719	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
6801791	99	P	SUR	30	-21	720	0	0.2	0.2	0.3
6801897	99	P	SUR	84	-40	134	0	0.4	-0.6	0.7
6801907	99	P	SUR	67	-5	705	0	0.4	0.0	0.4
6801923	99	P	SUR	41	-63	717	0	0.5	-0.3	0.6
6801929	99	P	SUR	29	-53	719	0	0.4	-0.1	0.4
6802060	99	P	SUR	50	-25	694	0	0.4	0.0	0.4
6802061	99	P	SUR	65	-31	689	0	0.5	-0.1	0.6
6802062	99	P	SUR	71	-12	180	0	0.5	0.2	0.6
6802079	99	P	SUR	50	-55	708	0	0.4	0.6	0.7
6802080	99	P	SUR	50	-54	673	0	0.4	0.1	0.4
7001004	99	P	SUR	26	-66	2142	0	0.5	0.0	0.5
7801593	99	P	SUR	65	-39	720	0	0.5	-0.1	0.5
7801594	99	P	SUR	71	30	716	0	0.3	-0.3	0.4
7801616	99	P	SUR	21	-63	720	0	0.3	0.0	0.3
7801627	99	P	SUR	23	-63	720	0	0.3	0.3	0.5
7801647	99	P	SUR	32	-49	720	0	0.3	-0.3	0.4
7801697	99	P	SUR	25	-51	715	0	0.3	-0.4	0.5
7801699	99	P	SUR	34	-26	715	0	0.2	0.3	0.4
7801742	99	P	SUR	23	-48	635	0	0.3	-0.1	0.3
7801749	99	P	SUR	32	-19	718	0	0.3	-0.1	0.3
7801755	99	P	SUR	24	-45	638	0	0.4	-0.4	0.6
7810095	99	P	SUR	56	-23	720	0	0.4	0.0	0.4
7810096	99	P	SUR	42	-31	720	0	0.3	0.0	0.3
7810098	99	P	SUR	43	-17	720	0	0.3	-0.1	0.3
7810099	99	P	SUR	45	-13	720	0	0.3	-0.6	0.7
7810263	99	P	SUR	46	-30	720	0	0.4	-1.3	1.3
7810264	99	P	SUR	48	-20	720	0	0.3	-0.4	0.5
7810265	99	P	SUR	42	-26	719	0	0.3	-0.1	0.3
7810266	99	P	SUR	45	-41	720	0	0.4	0.3	0.5
7810268	99	P	SUR	20	-38	594	0	0.3	0.1	0.3
7810290	99	P	SUR	39	-28	720	0	0.4	-0.2	0.4
7810312	99	P	SUR	27	-36	720	0	0.3	-0.1	0.3
7810437	99	P	SUR	48	-31	706	0	0.5	-0.2	0.5
7810438	99	P	SUR	43	-49	717	0	0.5	0.1	0.5
7810439	99	P	SUR	52	-40	711	0	0.4	0.3	0.5
7810440	99	P	SUR	49	-45	705	0	0.4	0.1	0.4
7810441	99	P	SUR	51	-45	715	0	0.3	-0.1	0.3
7810442	99	P	SUR	51	-26	710	0	0.4	-0.3	0.5
7810443	99	P	SUR	54	-48	714	0	0.4	-0.4	0.6
7810445	99	P	SUR	48	-26	711	0	0.4	0.1	0.4
7810446	99	P	SUR	44	-32	295	0	1.5	0.3	1.5
7810478	99	P	SUR	11	-58	720	0	0.4	-0.3	0.5
7810616	99	P	SUR	46	-39	720	0	0.4	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
7810617	99	P	SUR	35	19	656	0	0.4	-0.1	0.5
7810618	99	P	SUR	37	17	666	0	0.4	0.5	0.6
7810712	99	P	SUR	43	-60	714	0	0.5	0.2	0.5
7810732	99	P	SUR	44	-58	715	0	0.4	-0.1	0.4
7810733	99	P	SUR	40	-48	718	0	0.5	-0.8	0.9
7810734	99	P	SUR	44	-51	718	0	0.4	0.0	0.4
7810765	99	P	SUR	36	-55	716	0	0.5	0.2	0.5
7810766	99	P	SUR	35	-29	718	0	0.3	0.3	0.4
7810767	99	P	SUR	39	-45	717	0	0.5	0.2	0.5
7810768	99	P	SUR	40	-59	715	0	0.4	0.0	0.4
7810770	99	P	SUR	32	-53	721	0	0.4	0.2	0.5
7810771	99	P	SUR	35	-54	716	0	0.4	-0.2	0.4
7810772	99	P	SUR	34	-19	709	0	0.3	0.1	0.3
7810773	99	P	SUR	32	-35	718	0	0.3	-0.1	0.3
7810774	99	P	SUR	35	-29	714	0	0.3	0.0	0.3
7810775	99	P	SUR	38	-21	204	0	0.2	0.0	0.2
7810777	99	P	SUR	33	-41	715	0	0.4	0.0	0.4
7810778	99	P	SUR	33	-37	716	0	0.3	-0.2	0.3
7810780	99	P	SUR	33	-16	711	0	0.4	0.1	0.4
7810781	99	P	SUR	45	-39	223	0	1.2	-0.3	1.3
7810782	99	P	SUR	49	-21	625	0	1.2	-1.1	1.6
7810783	99	P	SUR	47	-24	711	0	0.4	0.1	0.4
7810977	99	P	SUR	72	-18	710	0	0.4	0.2	0.5
7810979	99	P	SUR	72	-18	707	0	0.4	0.3	0.5
7810980	99	P	SUR	72	-18	713	0	0.4	0.4	0.6
7810981	99	P	SUR	72	-18	709	0	0.4	0.2	0.4
7811007	99	P	SUR	86	33	463	0	0.5	-0.4	0.7
7894568	99	P	SUR	56	-6	678	0	0.4	0.2	0.4
7894569	99	P	SUR	49	-8	693	0	0.3	0.4	0.5
7894570	99	P	SUR	46	-19	685	0	0.3	0.3	0.4
7894571	99	P	SUR	70	-12	181	0	0.6	0.4	0.7
7894597	99	P	SUR	51	-53	679	0	0.3	-0.1	0.3
9014066	99	P	SUR	41	30	1	0	0.0	-4.0	4.0

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

DRIFTER MONITORING STATISTICS (EUCOS)

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

TIME = 99 => AVERAGE OF ALL OBSERVATIONS

GROSS ERROR LIMIT FOR VECTOR WIND = 25 M/S

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
1000049	99	SPEED	SUR	23	-66	206	0	0	0.9	-0.8	1.2
1000050	99	SPEED	SUR	22	-66	2092	0	0	1.2	-0.8	1.4
1000051	99	SPEED	SUR	21	-66	1882	0	0	1.1	-1.0	1.4
1300130	99	SPEED	SUR	28	-16	720	0	0	1.1	-0.1	1.1
1300131	99	SPEED	SUR	28	-17	720	0	0	2.5	1.3	2.8
1801560	99	SPEED	SUR	31	-64	4032	0	0	1.3	0.3	1.3
1801590	99	SPEED	SUR	30	-67	3822	0	0	1.5	0.3	1.5
1801599	99	SPEED	SUR	27	-61	3444	0	0	1.1	0.2	1.1
1801600	99	SPEED	SUR	16	-67	3639	0	0	0.8	0.5	0.9
1801607	99	SPEED	SUR	20	-66	3821	0	0	0.9	0.8	1.2
2000980	99	SPEED	SUR	16	-67	343	0	0	0.9	-1.4	1.7
3001001	99	SPEED	SUR	23	-68	914	0	0	1.4	-0.7	1.6
4000010	99	SPEED	SUR	21	-65	557	0	0	1.3	-0.7	1.4
4000011	99	SPEED	SUR	22	-65	492	0	0	1.1	-1.0	1.4
4100040	99	SPEED	SUR	15	-53	4251	0	0	1.0	0.2	1.0
4100041	99	SPEED	SUR	14	-46	4249	0	0	0.8	0.2	0.9
4100043	99	SPEED	SUR	21	-65	4248	0	0	0.9	0.0	1.0
4100044	99	SPEED	SUR	22	-59	4253	0	0	1.1	0.2	1.1
4100046	99	SPEED	SUR	24	-68	4238	0	0	1.6	0.6	1.7
4100048	99	SPEED	SUR	32	-70	4259	0	0	1.3	0.1	1.3
4100049	99	SPEED	SUR	28	-62	4260	0	0	1.3	-0.1	1.3
4100053	99	SPEED	SUR	18	-66	3764	0	0	1.4	0.8	1.6
4100056	99	SPEED	SUR	18	-65	3448	0	0	1.1	0.0	1.1
41040	99	SPEED	SUR	15	-53	716	0	0	1.1	-0.2	1.1
41041	99	SPEED	SUR	14	-46	716	0	0	1.0	-0.3	1.0
41043	99	SPEED	SUR	21	-65	718	0	0	1.0	-0.3	1.1
41044	99	SPEED	SUR	22	-59	719	0	0	1.1	0.0	1.1
41046	99	SPEED	SUR	24	-68	711	0	0	1.7	0.3	1.7
41048	99	SPEED	SUR	32	-70	717	0	0	1.4	-0.2	1.4
41049	99	SPEED	SUR	28	-62	719	0	0	1.4	-0.3	1.5
41053	99	SPEED	SUR	19	-66	557	0	0	1.6	-0.2	1.6
41056	99	SPEED	SUR	18	-66	708	0	0	1.2	-0.4	1.2
4200060	99	SPEED	SUR	16	-63	4253	0	0	1.2	0.2	1.2
4200085	99	SPEED	SUR	18	-67	3621	0	0	1.2	0.4	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
42060	99	SPEED	SUR	16	-63	717	0	0	1.3	-0.2	1.3
42085	99	SPEED	SUR	18	-67	596	0	0	1.4	0.5	1.5
4400008	99	SPEED	SUR	40	-69	4206	0	0	1.4	0.0	1.4
4400011	99	SPEED	SUR	41	-67	4261	0	0	1.6	0.7	1.7
4400027	99	SPEED	SUR	44	-67	4237	0	0	1.3	-0.4	1.3
4400032	99	SPEED	SUR	44	-69	3337	0	0	1.4	-0.1	1.4
4400033	99	SPEED	SUR	44	-69	3331	0	0	1.5	0.0	1.5
4400034	99	SPEED	SUR	44	-68	3892	0	0	1.4	-0.5	1.5
4400137	99	SPEED	SUR	42	-62	707	0	0	1.2	-0.3	1.2
4400139	99	SPEED	SUR	44	-57	717	0	0	1.1	-0.2	1.2
4400150	99	SPEED	SUR	43	-64	719	0	0	1.1	0.3	1.2
4400258	99	SPEED	SUR	45	-63	720	0	0	1.3	0.2	1.3
4400488	99	SPEED	SUR	45	-61	719	0	0	1.3	0.8	1.5
4400489	99	SPEED	SUR	45	-61	718	0	0	1.5	1.8	2.4
44008	99	SPEED	SUR	41	-69	714	0	0	1.6	-0.7	1.7
44011	99	SPEED	SUR	41	-67	717	0	0	1.6	0.2	1.7
44027	99	SPEED	SUR	44	-67	715	0	0	1.4	-1.0	1.7
44032	99	SPEED	SUR	44	-69	319	0	0	1.4	-0.5	1.5
44033	99	SPEED	SUR	44	-69	292	0	0	1.4	0.0	1.4
44034	99	SPEED	SUR	44	-68	427	0	0	1.5	-1.1	1.8
44078	99	SPEED	SUR	60	-40	517	0	0	1.8	-1.5	2.4
44137	99	SPEED	SUR	42	-62	706	0	0	1.2	-0.3	1.2
44139	99	SPEED	SUR	44	-57	716	0	0	1.2	-0.2	1.2
44150	99	SPEED	SUR	43	-64	719	0	0	1.3	-0.2	1.3
44258	99	SPEED	SUR	45	-63	719	0	0	1.4	0.2	1.4
44488	99	SPEED	SUR	45	-61	720	0	0	1.4	0.9	1.7
44489	99	SPEED	SUR	46	-61	718	0	0	1.5	1.7	2.2
5001002	99	SPEED	SUR	21	-65	1200	0	0	1.0	-1.0	1.4
5801955	99	SPEED	SUR	24	-65	4296	0	0	1.1	0.3	1.1
6100001	99	SPEED	SUR	43	8	687	0	0	1.4	0.3	1.4
6100002	99	SPEED	SUR	42	5	660	0	0	1.1	0.9	1.4
6100196	99	SPEED	SUR	42	4	720	0	0	1.5	-0.6	1.6
6100197	99	SPEED	SUR	40	4	720	0	0	1.0	0.0	1.0
6100198	99	SPEED	SUR	37	-2	720	0	0	1.4	-1.3	1.9
6100207	99	SPEED	SUR	37	15	1248	0	0	1.6	2.2	2.7
6100210	99	SPEED	SUR	39	17	1306	0	0	1.6	1.0	1.9
6100211	99	SPEED	SUR	39	16	1317	0	0	1.7	1.0	1.9
6100214	99	SPEED	SUR	41	13	1290	0	0	1.3	0.4	1.4
6100215	99	SPEED	SUR	41	17	1322	0	0	1.5	1.5	2.1
6100216	99	SPEED	SUR	42	12	1218	0	0	1.4	0.7	1.5
6100217	99	SPEED	SUR	42	15	1220	0	0	1.7	0.7	1.8

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
6100218	99	SPEED	SUR	44	14	975	0	0	1.7	0.5	1.7
6100220	99	SPEED	SUR	45	13	1260	0	0	1.5	0.2	1.5
6100280	99	SPEED	SUR	41	1	720	0	0	1.3	-0.5	1.4
6100281	99	SPEED	SUR	40	0	718	0	0	1.8	0.2	1.8
6100417	99	SPEED	SUR	38	0	720	0	0	1.1	-1.0	1.4
6100430	99	SPEED	SUR	40	2	720	0	0	1.2	0.1	1.2
6101031	99	SPEED	SUR	42	8	860	0	0	1.3	0.7	1.5
6101032	99	SPEED	SUR	42	10	678	0	0	1.3	0.6	1.4
6101033	99	SPEED	SUR	43	8	668	0	0	1.1	0.5	1.2
6101034	99	SPEED	SUR	42	6	684	0	0	1.2	1.0	1.5
6101035	99	SPEED	SUR	41	7	851	0	0	1.4	0.8	1.6
6101036	99	SPEED	SUR	42	7	679	0	0	1.0	0.3	1.0
6200001	99	SPEED	SUR	45	-5	664	0	0	1.0	0.7	1.2
6200024	99	SPEED	SUR	44	-3	720	0	0	1.3	-0.5	1.3
6200025	99	SPEED	SUR	44	-6	719	0	0	1.5	-1.0	1.8
6200029	99	SPEED	SUR	49	-12	719	0	0	1.1	1.0	1.5
6200050	99	SPEED	SUR	50	-4	716	0	0	1.1	-0.1	1.1
6200081	99	SPEED	SUR	51	-13	718	0	0	1.2	0.3	1.2
6200082	99	SPEED	SUR	44	-8	720	0	0	1.2	-0.8	1.4
6200083	99	SPEED	SUR	43	-9	720	0	0	1.2	-1.1	1.7
6200084	99	SPEED	SUR	42	-9	720	0	0	1.2	-0.9	1.5
6200085	99	SPEED	SUR	36	-7	720	0	0	1.4	-1.2	1.9
6200086	99	SPEED	SUR	55	7	198	0	0	1.5	1.5	2.1
6200087	99	SPEED	SUR	55	7	240	0	0	1.8	1.0	2.0
6200091	99	SPEED	SUR	53	-5	720	0	0	1.3	0.5	1.4
6200092	99	SPEED	SUR	51	-11	720	0	0	1.1	0.5	1.2
6200094	99	SPEED	SUR	52	-7	720	0	0	1.0	-0.4	1.1
6200095	99	SPEED	SUR	53	-16	720	0	0	1.2	0.5	1.3
6200103	99	SPEED	SUR	50	-3	716	0	0	1.1	0.4	1.2
6200105	99	SPEED	SUR	55	-13	720	0	0	1.2	0.2	1.2
6200163	99	SPEED	SUR	48	-8	720	0	0	1.0	0.7	1.2
6200442	99	SPEED	SUR	49	-16	494	0	0	1.4	0.2	1.5
6201065	99	SPEED	SUR	54	7	665	0	0	1.6	-0.8	1.7
62029	99	SPEED	SUR	49	-13	1433	0	0	1.1	0.5	1.2
62050	99	SPEED	SUR	50	-4	1433	0	0	1.1	0.0	1.1
62081	99	SPEED	SUR	51	-13	1434	0	0	1.2	0.3	1.2
62091	99	SPEED	SUR	53	-5	714	0	0	1.3	0.8	1.5
62092	99	SPEED	SUR	51	-11	714	0	0	1.2	0.6	1.3
62094	99	SPEED	SUR	52	-7	714	0	0	1.1	-0.4	1.1
62095	99	SPEED	SUR	53	-16	714	0	0	1.2	0.6	1.4
62102	99	SPEED	SUR	58	2	1438	0	0	1.5	0.1	1.5

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
62103	99	SPEED	SUR	50	-3	1438	0	0	1.2	0.3	1.2
62104	99	SPEED	SUR	57	1	1438	0	0	1.3	0.1	1.3
62105	99	SPEED	SUR	55	-13	1437	0	0	1.2	0.1	1.2
62112	99	SPEED	SUR	58	0	1434	0	0	1.2	-0.3	1.3
62113	99	SPEED	SUR	58	0	1438	0	0	1.3	0.2	1.3
62114	99	SPEED	SUR	58	0	1438	0	0	1.5	1.0	1.8
62118	99	SPEED	SUR	58	1	1428	0	0	1.5	0.8	1.7
62119	99	SPEED	SUR	57	2	1426	0	0	1.5	-0.2	1.5
62120	99	SPEED	SUR	56	2	1356	0	0	1.3	-0.6	1.5
62121	99	SPEED	SUR	54	3	1438	0	0	1.2	-0.5	1.3
62122	99	SPEED	SUR	57	2	1436	0	0	1.5	0.2	1.5
62129	99	SPEED	SUR	58	0	442	0	0	1.7	0.8	1.9
62131	99	SPEED	SUR	54	1	1438	0	0	1.2	0.0	1.2
62133	99	SPEED	SUR	57	1	1438	0	0	1.3	-0.7	1.5
62134	99	SPEED	SUR	58	1	1430	0	0	1.1	-1.1	1.5
62140	99	SPEED	SUR	57	1	1358	0	0	1.3	0.1	1.3
62143	99	SPEED	SUR	58	2	1438	0	0	2.0	-0.9	2.2
62144	99	SPEED	SUR	53	2	1438	0	0	1.7	-0.7	1.9
62145	99	SPEED	SUR	53	3	1436	0	0	1.2	0.3	1.3
62146	99	SPEED	SUR	57	2	1438	0	0	1.3	0.2	1.3
62148	99	SPEED	SUR	54	2	1262	0	0	1.3	0.0	1.3
62149	99	SPEED	SUR	54	1	1438	0	0	1.5	-0.4	1.5
62152	99	SPEED	SUR	57	2	1434	0	0	1.6	0.1	1.6
62153	99	SPEED	SUR	57	2	432	0	0	2.2	-2.1	3.0
62154	99	SPEED	SUR	56	2	1438	0	0	1.3	0.0	1.3
62155	99	SPEED	SUR	58	1	902	0	0	1.6	0.6	1.7
62163	99	SPEED	SUR	48	-9	1436	0	0	1.0	0.7	1.3
62164	99	SPEED	SUR	57	1	1438	0	0	1.6	-1.2	2.0
62165	99	SPEED	SUR	54	1	1436	0	0	1.7	-0.8	1.9
62170	99	SPEED	SUR	51	2	1436	0	0	1.3	0.4	1.3
62304	99	SPEED	SUR	51	2	1434	0	0	1.4	0.4	1.5
62305	99	SPEED	SUR	50	0	1438	0	0	1.2	0.5	1.3
62442	99	SPEED	SUR	49	-16	1433	0	0	1.5	0.3	1.5
6301003	99	SPEED	SUR	74	24	719	0	0	1.1	-0.3	1.1
63055	99	SPEED	SUR	61	2	1412	0	0	1.1	-0.8	1.3
63056	99	SPEED	SUR	60	2	1438	0	0	1.2	0.4	1.3
63057	99	SPEED	SUR	59	2	1438	0	0	2.1	-0.7	2.2
63058	99	SPEED	SUR	53	2	1420	0	0	1.2	-0.2	1.2
63108	99	SPEED	SUR	61	2	1434	0	0	1.4	0.5	1.5
63109	99	SPEED	SUR	60	2	1438	0	0	1.1	0.2	1.2
63110	99	SPEED	SUR	60	2	1438	0	0	1.3	-0.4	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
63112	99	SPEED	SUR	61	1	1438	0	0	1.1	-0.3	1.2
63115	99	SPEED	SUR	62	1	1401	0	0	1.1	-0.4	1.2
6400045	99	SPEED	SUR	59	-12	719	0	0	1.1	0.0	1.1
6400046	99	SPEED	SUR	61	-4	714	0	0	1.1	0.6	1.2
64041	99	SPEED	SUR	61	-3	1426	0	0	1.2	0.1	1.2
64045	99	SPEED	SUR	59	-12	1437	0	0	1.1	0.0	1.2
64046	99	SPEED	SUR	61	-4	1431	0	0	1.1	0.5	1.2
6600021	99	SPEED	SUR	55	14	174	0	0	1.2	0.4	1.2
6600022	99	SPEED	SUR	54	14	361	0	0	1.4	0.1	1.4
6600024	99	SPEED	SUR	55	13	16	0	0	0.5	0.5	0.7
7001004	99	SPEED	SUR	26	-66	2141	0	0	1.4	-0.6	1.5
9014066	99	SPEED	SUR	41	30	1	0	0	0.0	6.5	6.5

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

DRIFTER MONITORING STATISTICS (EUCOS)

MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : WIND DIRECTION (DEGREES)
 AREA : 10N - 90N, 70W - 40E
 PERIOD : SEP 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	373	0	0	27.2	-1.1	27.2
1000049	99	DIRN	SUR	23	-66	67	0	0	51.2	22.0	55.7
1000050	99	DIRN	SUR	22	-66	1064	0	0	19.7	-2.2	19.8
1000051	99	DIRN	SUR	21	-66	1283	0	0	20.9	1.6	21.0
1300130	99	DIRN	SUR	28	-16	641	0	0	13.5	0.9	13.6
1300131	99	DIRN	SUR	28	-17	216	0	0	18.0	0.0	18.0
1801560	99	DIRN	SUR	31	-64	2542	0	0	23.4	3.2	23.7
1801577	99	DIRN	SUR	26	-84	1506	0	0	27.0	-1.8	27.0
1801590	99	DIRN	SUR	30	-67	1820	0	0	35.7	7.7	36.5
1801599	99	DIRN	SUR	27	-61	1120	0	0	22.8	1.7	22.8
1801600	99	DIRN	SUR	16	-67	3592	0	0	9.3	-2.0	9.5
1801607	99	DIRN	SUR	20	-66	3538	0	0	12.9	-2.5	13.2
2000980	99	DIRN	SUR	16	-67	343	0	0	31.3	15.9	35.1
3001001	99	DIRN	SUR	23	-68	627	0	0	50.1	25.2	56.1
4000010	99	DIRN	SUR	21	-65	274	0	0	29.4	10.6	31.3
4000011	99	DIRN	SUR	22	-65	341	0	0	52.9	19.7	56.4
4100002	99	DIRN	SUR	32	-75	2930	0	0	24.1	7.5	25.2
4100004	99	DIRN	SUR	33	-79	3120	0	0	19.4	5.6	20.2
4100008	99	DIRN	SUR	31	-81	2823	0	0	22.5	9.8	24.5
4100009	99	DIRN	SUR	29	-80	2189	0	0	34.0	8.4	35.0
4100010	99	DIRN	SUR	29	-78	2210	0	0	28.2	6.5	28.9
4100013	99	DIRN	SUR	33	-78	3039	0	0	17.4	5.2	18.2
4100024	99	DIRN	SUR	34	-78	320	0	0	18.1	0.3	18.1
4100025	99	DIRN	SUR	35	-75	3302	0	0	19.1	7.5	20.5
4100029	99	DIRN	SUR	33	-80	534	0	0	17.7	0.5	17.7
4100033	99	DIRN	SUR	32	-80	528	0	0	23.6	0.5	23.6
4100037	99	DIRN	SUR	34	-77	507	0	0	64.1	-10.5	64.9
4100038	99	DIRN	SUR	34	-78	532	0	0	20.4	-0.7	20.4
4100040	99	DIRN	SUR	15	-53	4116	0	0	12.0	0.2	12.0
4100041	99	DIRN	SUR	14	-46	4003	0	0	11.2	-0.5	11.2
4100043	99	DIRN	SUR	21	-65	3715	0	0	13.8	3.4	14.2
4100044	99	DIRN	SUR	22	-59	3084	0	0	14.8	4.4	15.5

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
4100046	99	DIRN	SUR	24	-68	3121	0	0	21.6	4.9	22.1
4100047	99	DIRN	SUR	28	-71	1912	0	0	37.1	7.1	37.8
4100048	99	DIRN	SUR	32	-70	2248	0	0	18.4	4.5	18.9
4100049	99	DIRN	SUR	28	-62	1772	0	0	25.0	17.6	30.6
4100053	99	DIRN	SUR	18	-66	2279	0	0	19.9	-8.1	21.4
4100056	99	DIRN	SUR	18	-65	3243	0	0	16.0	-0.5	16.0
4100064	99	DIRN	SUR	34	-77	532	0	0	23.8	-18.0	29.8
4100066	99	DIRN	SUR	33	-80	549	0	0	18.5	-3.8	18.9
4100068	99	DIRN	SUR	28	-80	293	0	0	37.7	12.3	39.7
4100069	99	DIRN	SUR	29	-81	94	0	0	36.1	-1.5	36.1
4100082	99	DIRN	SUR	36	-75	3197	0	0	16.3	-13.1	20.9
4100083	99	DIRN	SUR	36	-75	3020	0	0	17.0	-10.7	20.1
41002	99	DIRN	SUR	32	-75	478	0	0	25.8	6.6	26.6
41004	99	DIRN	SUR	33	-79	518	0	0	20.0	5.1	20.6
41008	99	DIRN	SUR	31	-81	477	0	0	23.5	8.7	25.1
41009	99	DIRN	SUR	29	-80	361	0	0	35.0	8.3	36.0
41010	99	DIRN	SUR	29	-79	354	0	0	28.9	6.7	29.7
41013	99	DIRN	SUR	33	-78	512	0	0	17.3	4.3	17.9
41024	99	DIRN	SUR	34	-79	281	0	0	17.3	0.1	17.3
41025	99	DIRN	SUR	35	-75	551	0	0	18.4	7.6	19.9
41029	99	DIRN	SUR	33	-80	514	0	0	18.3	0.1	18.3
41033	99	DIRN	SUR	32	-80	531	0	0	22.8	-0.2	22.8
41037	99	DIRN	SUR	34	-77	525	0	0	66.8	-8.9	67.4
41038	99	DIRN	SUR	34	-78	546	0	0	19.2	-0.7	19.2
41040	99	DIRN	SUR	15	-53	691	0	0	13.9	0.3	14.0
41041	99	DIRN	SUR	14	-46	674	0	0	11.8	-0.6	11.8
41043	99	DIRN	SUR	21	-65	597	0	0	13.8	3.1	14.2
41044	99	DIRN	SUR	22	-59	511	0	0	14.2	3.7	14.7
41046	99	DIRN	SUR	24	-68	511	0	0	20.6	4.8	21.1
41047	99	DIRN	SUR	28	-72	310	0	0	35.7	7.3	36.4
41048	99	DIRN	SUR	32	-70	370	0	0	18.2	4.7	18.8
41049	99	DIRN	SUR	28	-62	280	0	0	28.1	19.0	33.9
41053	99	DIRN	SUR	19	-66	356	0	0	19.3	-6.6	20.4
41056	99	DIRN	SUR	18	-66	645	0	0	16.1	0.8	16.1
41064	99	DIRN	SUR	34	-77	530	0	0	24.9	-17.3	30.3
41066	99	DIRN	SUR	33	-80	4	0	0	8.7	-10.9	13.9
41068	99	DIRN	SUR	28	-80	299	0	0	42.9	11.4	44.4
41069	99	DIRN	SUR	29	-81	82	0	0	31.8	1.8	31.8
41082	99	DIRN	SUR	36	-75	528	0	0	17.3	-13.3	21.8
41083	99	DIRN	SUR	36	-75	502	0	0	17.5	-10.8	20.6
4200013	99	DIRN	SUR	27	-83	688	0	0	25.3	1.7	25.3

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
4200023	99	DIRN	SUR	26	-83	314	0	0	26.0	0.4	26.1
4200026	99	DIRN	SUR	25	-83	566	0	0	27.5	-1.9	27.5
4200036	99	DIRN	SUR	29	-85	2421	0	0	24.5	11.2	27.0
4200056	99	DIRN	SUR	20	-85	2646	0	0	22.6	-2.5	22.7
4200057	99	DIRN	SUR	17	-82	3829	0	0	15.1	2.4	15.3
4200058	99	DIRN	SUR	14	-76	4254	0	0	6.6	1.5	6.8
4200060	99	DIRN	SUR	16	-63	3882	0	0	12.4	2.4	12.6
4200085	99	DIRN	SUR	18	-67	3338	0	0	17.6	1.4	17.7
42013	99	DIRN	SUR	27	-83	352	0	0	28.7	4.0	28.9
42022	99	DIRN	SUR	28	-84	8	0	0	29.6	-2.6	29.7
42023	99	DIRN	SUR	26	-83	92	0	0	23.5	-2.0	23.6
42026	99	DIRN	SUR	25	-84	282	0	0	29.9	-0.6	29.9
42036	99	DIRN	SUR	29	-85	398	0	0	25.5	12.7	28.4
42056	99	DIRN	SUR	20	-85	417	0	0	22.6	-2.6	22.7
42057	99	DIRN	SUR	17	-82	631	0	0	15.4	1.8	15.5
42058	99	DIRN	SUR	14	-76	717	0	0	7.1	1.2	7.2
42060	99	DIRN	SUR	16	-63	650	0	0	12.8	1.8	12.9
42085	99	DIRN	SUR	18	-67	518	0	0	18.9	-1.1	18.9
4400007	99	DIRN	SUR	44	-70	2755	0	0	20.0	7.0	21.2
4400008	99	DIRN	SUR	40	-69	3136	0	0	15.0	8.1	17.1
4400009	99	DIRN	SUR	38	-75	422	0	0	37.2	4.1	37.4
4400011	99	DIRN	SUR	41	-67	3688	0	0	18.1	5.9	19.0
4400013	99	DIRN	SUR	42	-71	3275	0	0	14.9	7.3	16.6
4400020	99	DIRN	SUR	41	-70	3639	0	0	17.2	2.4	17.4
4400027	99	DIRN	SUR	44	-67	2940	0	0	14.1	13.2	19.3
4400029	99	DIRN	SUR	43	-71	2541	0	0	15.3	2.9	15.5
4400030	99	DIRN	SUR	43	-70	2706	0	0	17.4	15.5	23.2
4400032	99	DIRN	SUR	44	-69	2437	0	0	18.1	7.2	19.5
4400033	99	DIRN	SUR	44	-69	2340	0	0	19.6	7.9	21.1
4400034	99	DIRN	SUR	44	-68	2635	0	0	15.3	7.4	17.0
4400042	99	DIRN	SUR	38	-76	3692	0	0	22.3	5.3	22.9
4400058	99	DIRN	SUR	38	-76	3413	0	0	22.7	0.7	22.7
4400062	99	DIRN	SUR	39	-76	3540	0	0	23.3	4.8	23.8
4400063	99	DIRN	SUR	39	-76	3389	0	0	22.4	8.0	23.8
4400065	99	DIRN	SUR	40	-74	3271	0	0	18.5	5.2	19.2
4400072	99	DIRN	SUR	37	-76	3712	0	0	25.0	-4.3	25.3
4400074	99	DIRN	SUR	43	-71	518	0	0	13.8	-6.0	15.0
4400079	99	DIRN	SUR	36	-75	3007	0	0	13.9	-15.0	20.5
4400080	99	DIRN	SUR	39	-77	2029	0	0	15.5	-2.2	15.7
4400137	99	DIRN	SUR	42	-62	630	0	0	14.9	-2.2	15.1
4400139	99	DIRN	SUR	44	-57	584	0	0	14.6	-2.0	14.8

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
4400150	99	DIRN	SUR	43	-64	622	0	0	17.7	7.0	19.0
4400258	99	DIRN	SUR	45	-63	574	0	0	14.9	0.9	14.9
4400488	99	DIRN	SUR	45	-61	558	0	0	16.7	11.7	20.4
4400489	99	DIRN	SUR	45	-61	459	0	0	13.3	-3.5	13.8
44007	99	DIRN	SUR	44	-70	474	0	0	21.7	6.9	22.8
44008	99	DIRN	SUR	41	-69	520	0	0	16.2	8.8	18.4
44009	99	DIRN	SUR	39	-75	71	0	0	43.1	7.1	43.7
44011	99	DIRN	SUR	41	-67	620	0	0	19.0	5.9	19.8
44013	99	DIRN	SUR	42	-71	540	0	0	14.9	7.0	16.5
44020	99	DIRN	SUR	42	-70	606	0	0	17.0	2.5	17.2
44027	99	DIRN	SUR	44	-67	483	0	0	15.1	12.8	19.8
44029	99	DIRN	SUR	43	-71	215	0	0	14.3	1.8	14.4
44030	99	DIRN	SUR	43	-70	319	0	0	17.2	16.6	23.9
44032	99	DIRN	SUR	44	-69	230	0	0	17.5	3.9	18.0
44033	99	DIRN	SUR	44	-69	214	0	0	20.7	6.6	21.7
44034	99	DIRN	SUR	44	-68	275	0	0	13.7	5.8	14.8
4403586	99	DIRN	SUR	43	-79	1329	0	0	20.9	-11.4	23.8
44042	99	DIRN	SUR	38	-76	487	0	0	25.6	4.6	26.0
44058	99	DIRN	SUR	38	-76	431	0	0	22.1	2.2	22.2
44062	99	DIRN	SUR	39	-76	514	0	0	22.7	5.9	23.5
44063	99	DIRN	SUR	39	-76	443	0	0	23.5	8.4	24.9
44065	99	DIRN	SUR	40	-74	550	0	0	19.5	5.2	20.2
44069	99	DIRN	SUR	41	-73	524	0	0	21.3	1.3	21.3
44072	99	DIRN	SUR	37	-76	513	0	0	23.6	-1.4	23.7
44074	99	DIRN	SUR	43	-71	139	0	0	15.7	-4.3	16.2
44078	99	DIRN	SUR	60	-40	439	0	0	15.2	-16.2	22.2
44079	99	DIRN	SUR	36	-75	495	0	0	14.2	-15.0	20.7
44080	99	DIRN	SUR	39	-77	347	0	0	18.8	-2.6	19.0
44137	99	DIRN	SUR	42	-62	627	0	0	15.4	-3.1	15.7
44139	99	DIRN	SUR	44	-57	566	0	0	15.1	-2.7	15.3
44150	99	DIRN	SUR	43	-64	622	0	0	18.7	6.5	19.8
44258	99	DIRN	SUR	45	-63	569	0	0	16.0	0.0	16.0
44488	99	DIRN	SUR	45	-61	543	0	0	16.9	11.2	20.3
44489	99	DIRN	SUR	46	-61	479	0	0	17.1	-3.7	17.5
4500005	99	DIRN	SUR	42	-82	3447	0	0	22.9	5.4	23.5
4500012	99	DIRN	SUR	44	-77	3156	0	0	21.5	4.0	21.9
4500132	99	DIRN	SUR	42	-81	565	1	0	22.5	1.8	22.6
4500135	99	DIRN	SUR	44	-77	606	1	0	16.3	-2.4	16.5
4500137	99	DIRN	SUR	46	-81	562	0	0	17.9	0.0	17.9
4500139	99	DIRN	SUR	43	-80	379	0	0	26.9	-1.0	26.9
4500142	99	DIRN	SUR	43	-79	538	0	0	22.6	-1.1	22.7

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
4500143	99	DIRN	SUR	45	-81	546	0	0	19.7	3.5	20.0
4500159	99	DIRN	SUR	44	-79	409	0	0	22.8	-0.9	22.8
4500162	99	DIRN	SUR	45	-83	849	0	0	16.2	-0.9	16.2
4500164	99	DIRN	SUR	42	-82	264	0	0	65.1	10.4	66.0
4500165	99	DIRN	SUR	42	-83	3055	0	0	24.6	19.1	31.2
4500167	99	DIRN	SUR	42	-80	1261	0	0	30.2	-8.5	31.4
4500175	99	DIRN	SUR	46	-85	774	0	0	24.7	-12.2	27.5
4500176	99	DIRN	SUR	42	-82	2974	0	0	27.3	-15.2	31.2
4500178	99	DIRN	SUR	45	-73	894	0	0	20.1	3.0	20.3
4500190	99	DIRN	SUR	43	-77	864	0	0	30.6	5.8	31.1
4500196	99	DIRN	SUR	42	-82	488	0	0	29.8	-36.3	47.0
4500197	99	DIRN	SUR	42	-82	471	0	0	26.3	-14.9	30.2
4500200	99	DIRN	SUR	42	-83	2272	0	0	17.5	4.6	18.1
4500201	99	DIRN	SUR	42	-83	2923	0	0	28.0	-4.6	28.4
4500202	99	DIRN	SUR	42	-83	2498	0	0	32.8	-21.2	39.1
4500203	99	DIRN	SUR	41	-83	1080	0	0	30.2	17.8	35.1
4500204	99	DIRN	SUR	42	-82	2765	0	0	27.1	-26.4	37.8
4500205	99	DIRN	SUR	42	-82	2247	0	0	28.8	-4.4	29.1
4500206	99	DIRN	SUR	42	-82	2056	0	0	25.5	-20.1	32.4
4500207	99	DIRN	SUR	42	-81	2541	0	0	31.3	15.4	34.9
4500208	99	DIRN	SUR	42	-81	2295	0	0	28.8	2.8	28.9
4500209	99	DIRN	SUR	43	-82	3066	0	0	23.9	-21.4	32.1
4500220	99	DIRN	SUR	43	-79	2643	0	0	36.5	-19.4	41.4
4500221	99	DIRN	SUR	45	-73	2271	0	0	26.3	7.2	27.3
45005	99	DIRN	SUR	42	-82	585	0	0	24.8	5.2	25.3
45012	99	DIRN	SUR	44	-77	537	0	0	23.0	4.0	23.4
45132	99	DIRN	SUR	43	-81	560	1	0	24.7	1.0	24.7
45135	99	DIRN	SUR	44	-77	599	1	0	17.8	-3.3	18.1
45137	99	DIRN	SUR	46	-81	547	0	0	18.8	-0.6	18.8
45139	99	DIRN	SUR	43	-80	385	0	0	26.7	-1.5	26.7
45142	99	DIRN	SUR	43	-79	525	0	0	23.3	-1.4	23.4
45143	99	DIRN	SUR	45	-81	529	0	0	19.6	2.3	19.7
45147	99	DIRN	SUR	42	-83	532	0	0	22.1	-10.6	24.5
45149	99	DIRN	SUR	44	-82	556	0	0	19.9	-2.6	20.0
45151	99	DIRN	SUR	45	-79	466	0	0	16.6	-3.3	16.9
45152	99	DIRN	SUR	46	-80	389	0	0	16.1	-0.8	16.1
45154	99	DIRN	SUR	46	-83	465	0	0	16.4	5.7	17.4
45159	99	DIRN	SUR	44	-79	427	0	0	28.9	3.1	29.1
45162	99	DIRN	SUR	45	-83	283	0	0	16.9	-1.1	17.0
45164	99	DIRN	SUR	42	-82	256	0	0	66.3	9.7	66.9
45165	99	DIRN	SUR	42	-83	503	0	0	26.4	18.6	32.3

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
45167	99	DIRN	SUR	42	-80	436	0	0	30.4	-9.6	31.9
45175	99	DIRN	SUR	46	-85	280	0	0	24.6	-11.6	27.2
45176	99	DIRN	SUR	42	-82	537	0	0	28.9	-12.5	31.5
45178	99	DIRN	SUR	45	-73	315	0	0	21.4	0.5	21.4
45190	99	DIRN	SUR	43	-77	261	0	0	27.7	4.6	28.0
45196	99	DIRN	SUR	42	-82	454	0	0	27.3	-36.0	45.2
45197	99	DIRN	SUR	42	-82	454	0	0	23.2	-17.2	28.9
45200	99	DIRN	SUR	42	-83	412	0	0	16.9	5.8	17.9
45201	99	DIRN	SUR	42	-83	515	0	0	30.0	-4.8	30.4
45202	99	DIRN	SUR	42	-83	457	0	0	31.3	-22.8	38.7
45203	99	DIRN	SUR	41	-83	211	0	0	34.2	16.8	38.2
45204	99	DIRN	SUR	42	-82	468	0	0	27.9	-25.8	38.0
45205	99	DIRN	SUR	42	-82	384	0	0	28.1	-5.7	28.7
45206	99	DIRN	SUR	42	-82	390	0	0	24.8	-17.5	30.3
45207	99	DIRN	SUR	42	-81	411	0	0	30.4	14.7	33.7
45208	99	DIRN	SUR	42	-81	384	0	0	29.3	3.9	29.6
45209	99	DIRN	SUR	43	-82	487	0	0	23.7	-20.0	31.0
45220	99	DIRN	SUR	43	-79	437	0	0	37.6	-20.9	43.0
45221	99	DIRN	SUR	45	-73	340	0	0	26.2	5.7	26.8
5001002	99	DIRN	SUR	21	-65	939	0	0	23.1	6.6	24.0
5801955	99	DIRN	SUR	24	-65	2414	0	0	18.3	-1.3	18.4
5801958	99	DIRN	SUR	34	-78	2260	0	0	18.2	0.5	18.2
5801959	99	DIRN	SUR	32	-72	405	0	0	14.4	0.4	14.4
6001002	99	DIRN	SUR	32	-75	1280	0	0	26.2	-13.0	29.3
6100198	99	DIRN	SUR	37	-2	402	0	0	14.7	9.6	17.5
6100281	99	DIRN	SUR	40	0	155	0	0	44.6	-25.5	51.4
6100417	99	DIRN	SUR	38	0	394	0	0	73.2	141.7	159.5
6200001	99	DIRN	SUR	45	-5	439	0	0	15.4	0.8	15.4
6200024	99	DIRN	SUR	44	-3	346	0	0	21.3	-2.1	21.4
6200025	99	DIRN	SUR	44	-6	435	0	0	20.2	6.7	21.3
6200029	99	DIRN	SUR	49	-12	665	0	0	12.9	0.3	13.0
6200050	99	DIRN	SUR	50	-4	601	0	0	13.6	6.2	14.9
6200081	99	DIRN	SUR	51	-13	688	0	0	11.2	-0.4	11.2
6200082	99	DIRN	SUR	44	-8	552	0	0	23.4	112.6	115.0
6200083	99	DIRN	SUR	43	-9	507	0	0	14.1	7.9	16.2
6200084	99	DIRN	SUR	42	-9	465	0	0	13.0	2.3	13.2
6200085	99	DIRN	SUR	36	-7	362	0	0	16.0	-0.8	16.0
6200091	99	DIRN	SUR	53	-5	672	0	0	15.4	7.2	17.0
6200092	99	DIRN	SUR	51	-11	681	0	0	13.6	-4.8	14.4
6200094	99	DIRN	SUR	52	-7	661	0	0	11.9	1.6	12.0
6200095	99	DIRN	SUR	53	-16	690	0	0	12.5	7.4	14.5

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
6200103	99	DIRN	SUR	50	-3	602	0	0	11.6	7.4	13.7
6200105	99	DIRN	SUR	55	-13	701	0	0	9.0	-0.4	9.0
6200163	99	DIRN	SUR	48	-8	600	0	0	15.0	2.5	15.2
6200442	99	DIRN	SUR	49	-16	479	0	0	12.7	-1.0	12.8
62029	99	DIRN	SUR	49	-13	1339	0	0	13.3	0.3	13.3
62050	99	DIRN	SUR	50	-4	1214	0	0	13.8	6.3	15.2
62081	99	DIRN	SUR	51	-13	1379	0	0	11.5	-0.3	11.5
62091	99	DIRN	SUR	53	-5	661	0	0	13.2	7.2	15.0
62092	99	DIRN	SUR	51	-11	666	0	0	13.7	-5.7	14.9
62094	99	DIRN	SUR	52	-7	646	0	0	11.9	0.8	11.9
62095	99	DIRN	SUR	53	-16	682	0	0	12.8	6.8	14.5
62103	99	DIRN	SUR	50	-3	1212	0	0	12.1	7.7	14.4
62105	99	DIRN	SUR	55	-13	1399	0	0	9.7	-0.3	9.7
62112	99	DIRN	SUR	58	0	1386	0	0	13.4	2.5	13.7
62114	99	DIRN	SUR	58	0	1393	0	0	12.4	-2.6	12.7
62163	99	DIRN	SUR	48	-9	1198	0	0	15.3	2.6	15.5
62305	99	DIRN	SUR	50	0	1265	0	0	20.7	3.3	21.0
62442	99	DIRN	SUR	49	-16	1405	0	0	14.5	-1.6	14.6
6400045	99	DIRN	SUR	59	-12	713	0	0	10.4	0.8	10.5
6400046	99	DIRN	SUR	61	-4	702	0	0	11.8	1.7	11.9
64041	99	DIRN	SUR	61	-3	1407	0	0	10.7	8.1	13.4
64045	99	DIRN	SUR	59	-12	1425	0	0	10.7	0.5	10.8
64046	99	DIRN	SUR	61	-4	1403	0	0	12.0	1.9	12.1
7001004	99	DIRN	SUR	26	-66	804	0	0	25.9	6.5	26.7
9193264	99	DIRN	SUR	28	-77	1	0	0	0.0	-18.5	18.5

4.12 Table 24 - List of Assimilated BUFR Encoded Radiosonde Stations

ASDE09	ATGU3FT	DEN	FPUW5GN	GQBZLZL	JNKN7JF	JPBN	KMPLHPW	LAGY8
LAGZ8	LAR	LRVQE3U	SLKFEGK	SMLQ	TLH	USIUB	USVAL	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	29572	29612	29698	30673	30935	31004
31770	31873	31977	32061	32215	32540	34122	34172	34731
35121	35671	37055	40179	40186	42056	42079	42101	42111
42182	42369	42379	42516	42634	42647	42667	42867	42886
42971	43041	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	60096
60155	60390	60680	60715	60760	61901	61980	61998	65344
66160	67083	68424	68442	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	72413	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	83937	84372	84516	84622	84754	85442	85586	85799
85934	87155	87344	87585	87623	88889	89002	89062	89504
89564	89571	89592	89611	89625	89642	89859	91165	91212

91285	91334	91348	91376	91408	91413	91592	91765	91925
91938	91948	91958	93112	93417	93844	94001	94005	94113
94155	94159	94160	94170	94203	94299	94302	94312	94326
94332	94403	94430	94461	94510	94610	94637	94653	94659
94711	94767	94775	94802	94821	94865	94910	94995	94996
94998	95282	95527	96413	96441	96471	96996		

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

_646316a		ASDE09	ATGU3FT	CMA	DEN	edmonton		FPUW5GN
GQBZLZL	JNKN7JF	KMPLHPW	LAGY8	LAGZ8	LAR	LRYQE3U	RS_PUNO	SLKFEGK
SMLQ	TLH	USVAL	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	40186
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	60096
64384	65344	66160	67083	68442	72413	72801	76743	76903
84629	84631	84734	89002	89504	89642	89859	91925	91938
91948	91958	94001	94005	94113	94160	94653	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.