



ECMWF Global Data Monitoring Report

August 2026

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

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Summary of Revisions (in reverse order)

- Revision 31 (Dec 25) - Due to decommissioning of NOAA-15 and NOAA-18 AMSU-A in 2025,
Figure 9.3 becomes Figure 8 (METOP-B ATOVS : AMSU-A)
Figure 9.2 becomes Figure 9 (METOP-C ATOVS : AMSU-A)
Removed Figure 9.1
- Revision 30 (Nov 23) - Coverage charts for AIREP/AMDARs updated:
Added MODE-S and ADS-C to Figure 5 and Figure 18
- Revision 29 (Dec 22) - Coverage charts for ATOVS AMSU-A updated:
METOP-C replaces Aqua-ATOVS (Figure 9.2)
METOP-B replaces METOP-ATOVS (Figure 9.3)
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	Jul	Aug	Ident	Time	Jul	Aug
16754	(00)	21	0	32389	(00)	0	30
28225	(00)	12	0	32540	(12)	0	29
30557	(12)	25	11	40706	(12)	0	27
32477	(12)	16	0	40856	(00)	0	13
32618	(00)	30	6	42314	(00)	1	27
43014	(00)	25	2	42314	(12)	0	27
43369	(00)	26	0	42410	(00)	1	29
43369	(12)	23	0	42410	(12)	0	30
47909	(00)	35	21	42647	(00)	1	26
47909	(12)	35	17	42647	(12)	2	18
47991	(00)	30	5	42867	(00)	2	29
47991	(12)	29	5	42867	(12)	1	30
61090	(12)	28	9	43003	(00)	0	13
68263	(12)	24	11	43110	(00)	6	26
72456	(00)	30	18	43110	(12)	1	28
74004	(00)	11	0	43128	(12)	13	29
74004	(12)	30	0	43192	(00)	18	30
78866	(00)	31	17	44373	(00)	0	19
82411	(00)	28	8	44453	(00)	3	14
82411	(12)	30	9	64384	(00)	9	25
82532	(00)	14	0	64384	(12)	11	26
82532	(12)	14	0	64910	(12)	4	24
83928	(12)	14	0	70133	(12)	0	13
85586	(00)	25	0	70350	(00)	3	31
85586	(12)	26	0	72518	(12)	6	30
91610	(12)	22	2	72572	(12)	0	21
94155	(00)	18	4	72776	(00)	0	30
94578	(00)	30	0	72776	(12)	0	29
94578	(12)	29	0	78970	(12)	4	28
94672	(00)	19	0	82705	(00)	18	31
94672	(12)	21	0	89009	(12)	0	16

2.2 Drifting Buoys

Surface pressure observations from **1190** 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.

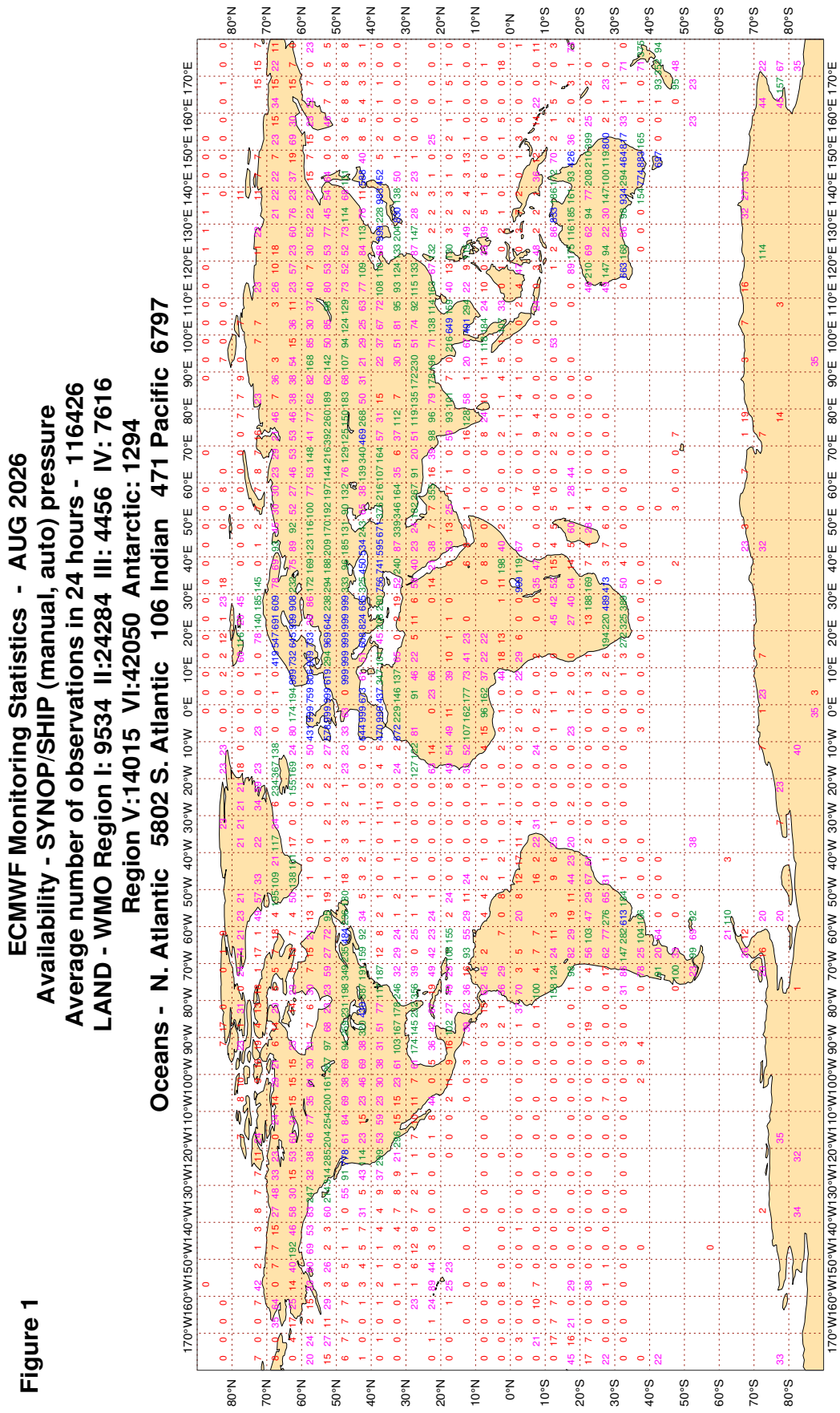
Tab	Parameter	Observation Time
10	Geopotential	00 and 12 UTC
11	Wind	00 and 12 UTC

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.

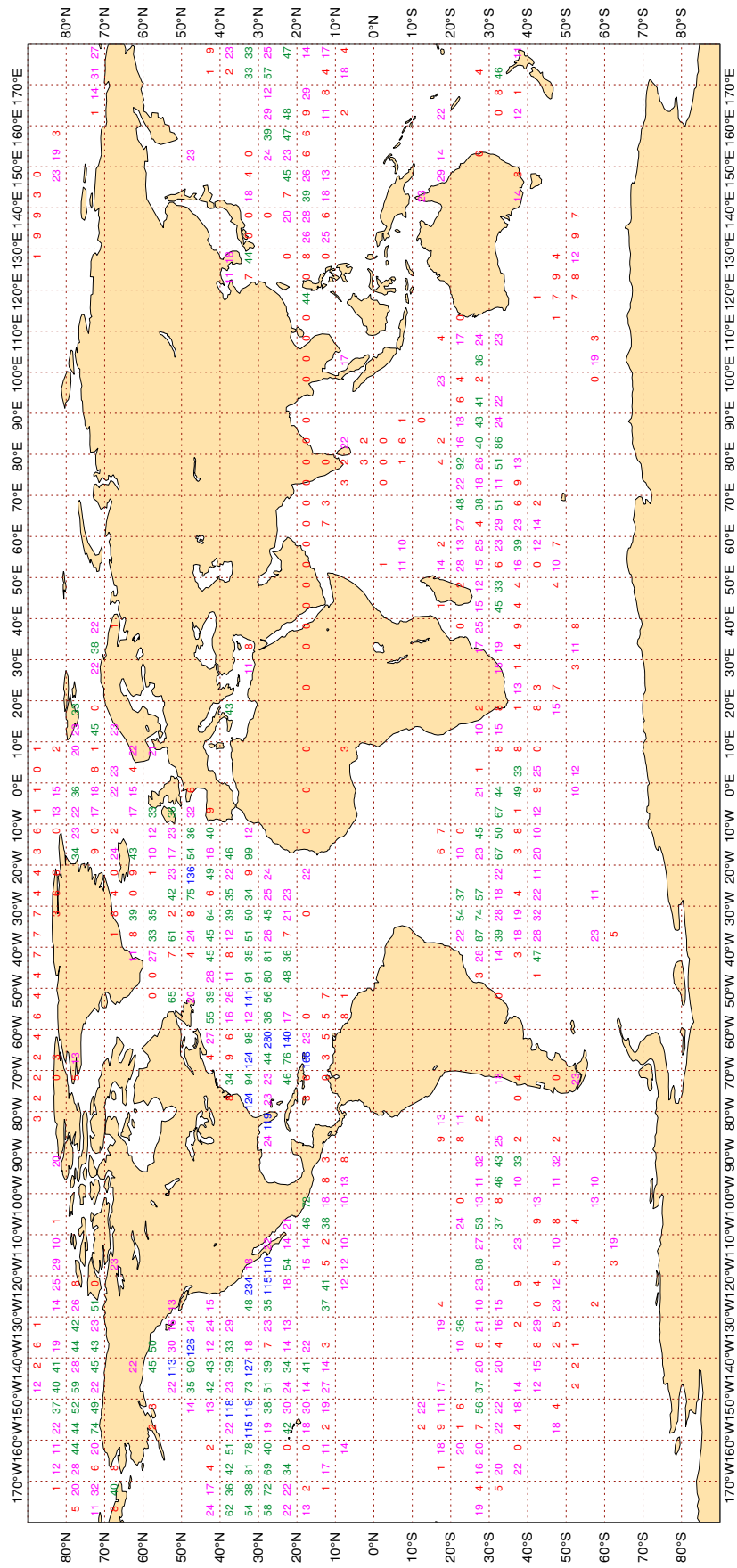
3.2.1 Figure 1 - Availability - SYNOP PRESSURE



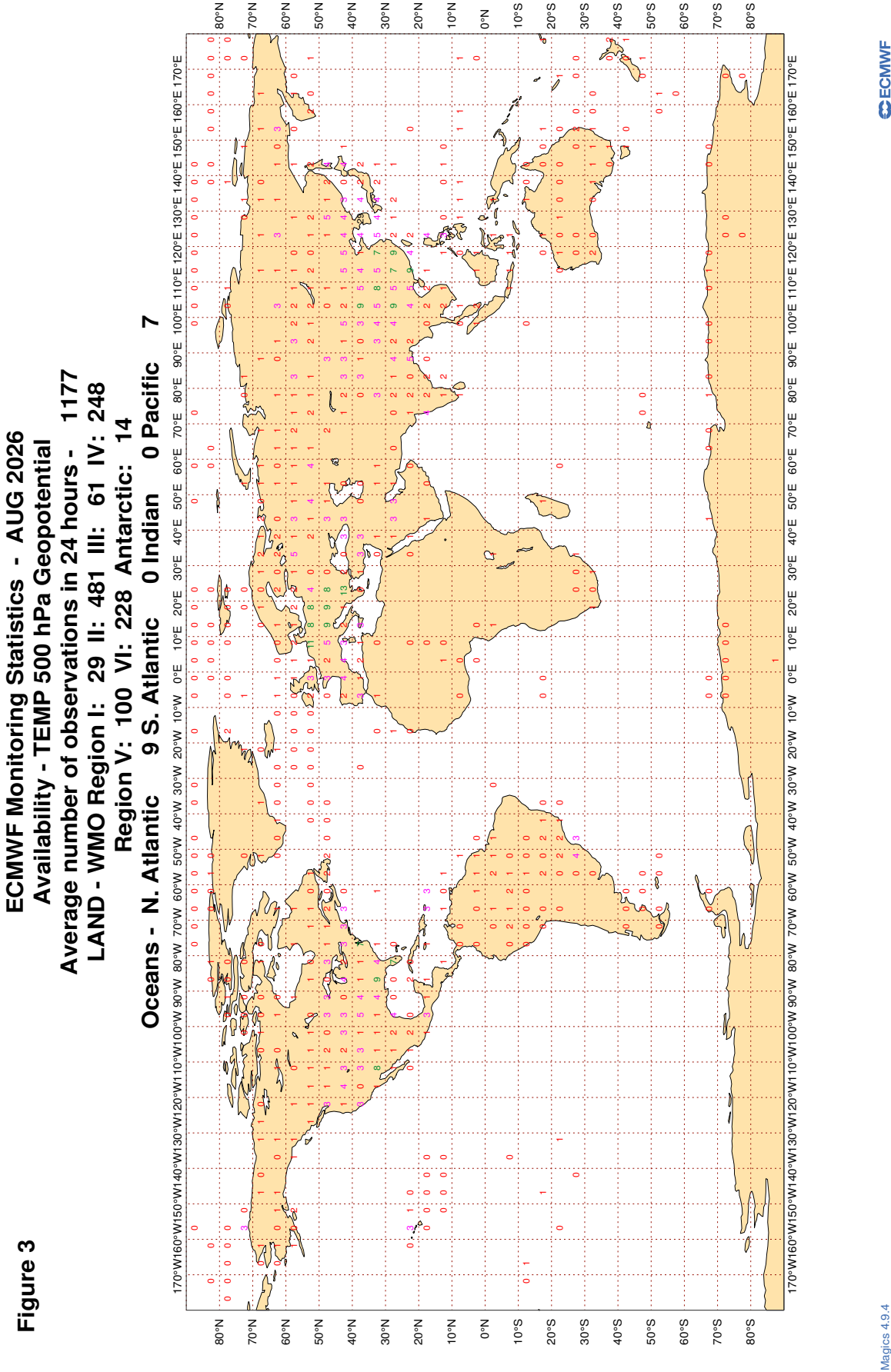
3.2.2 Figure 2 - Availability - DRIFTER PRESSURE

Figure 2

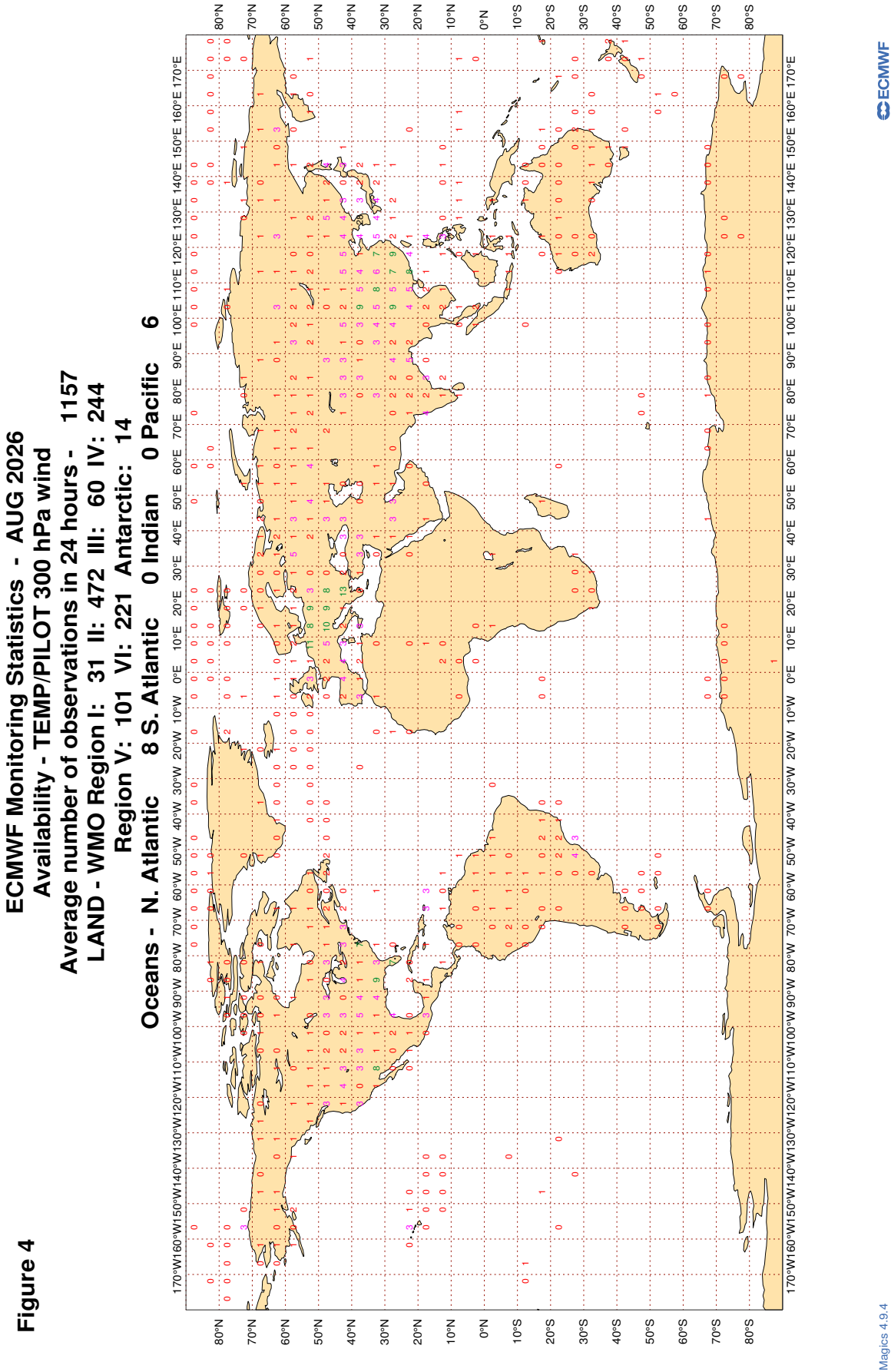
ECMWF Monitoring Statistics - AUG 2026
Availability - DRIFTER PRESSURE
Average number of observations in 24 hours - 16028
Oceans - N. Atlantic 4849 S. Atlantic 1346 Indian 1649 Pacific 8183



3.2.3 Figure 3 - Availability - TEMP 500 hPa geopotential



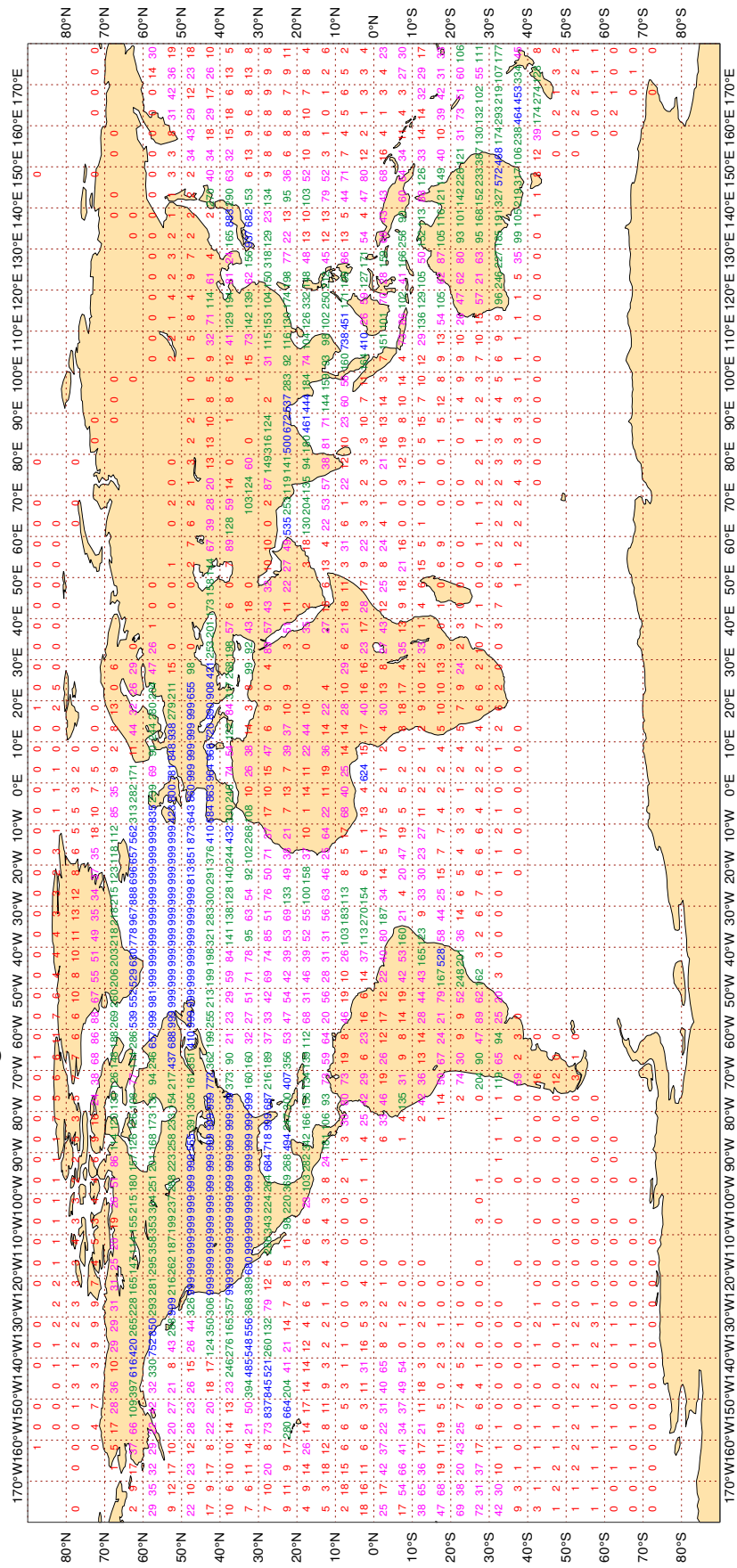
3.2.4 Figure 4 - Availability - TEMP/PILOT 300 hPa wind



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

Figure 5

ECMWF Monitoring Statistics - AUG 2026
Availability - Aircraft winds 300-150 hPa
Average number of observations in 24 hours - 272053



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

Figure 6

ECMWF Monitoring Statistics - AUG 2026
Availability - AMV winds 400-150 hPa
Average number of observations in 24 hours - 1312176

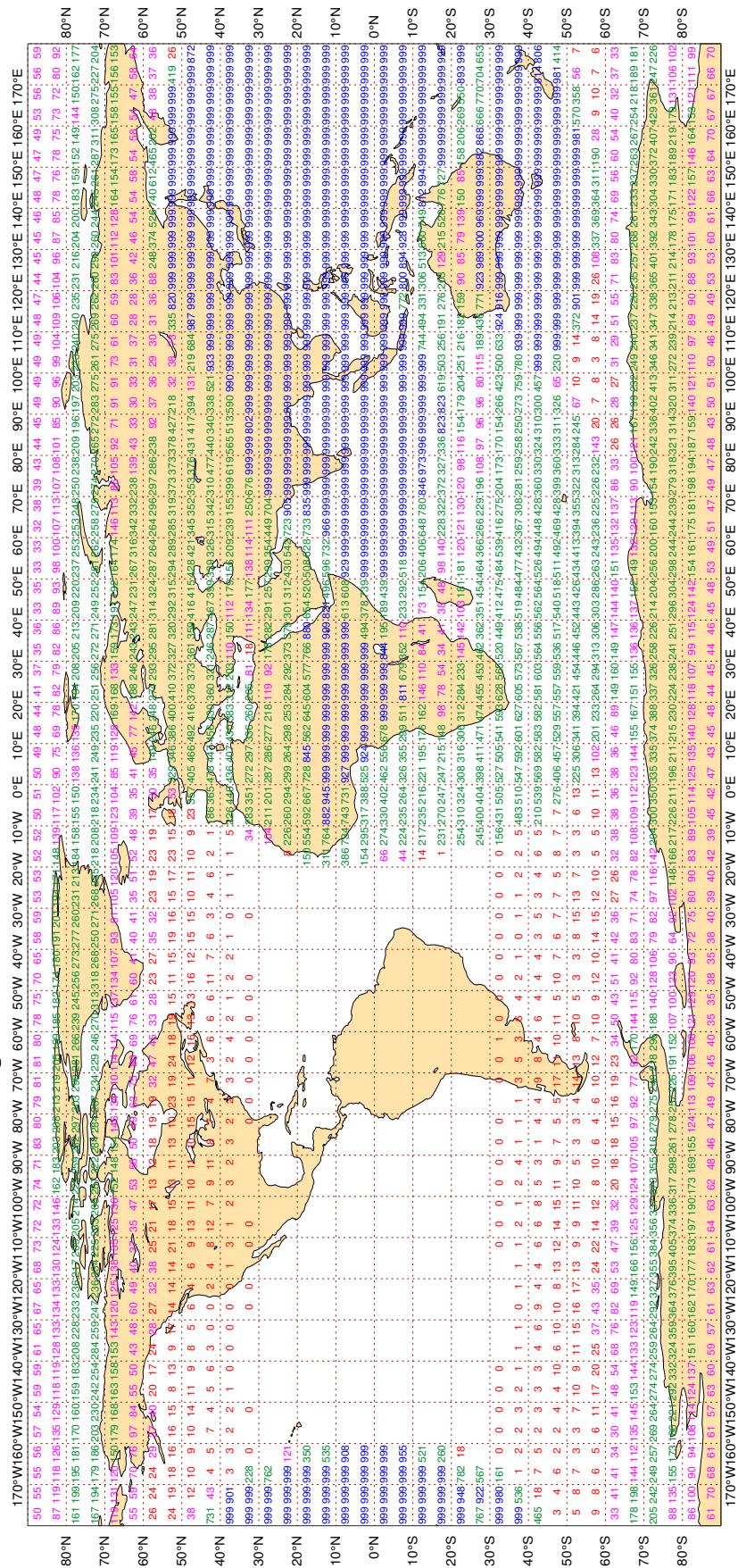
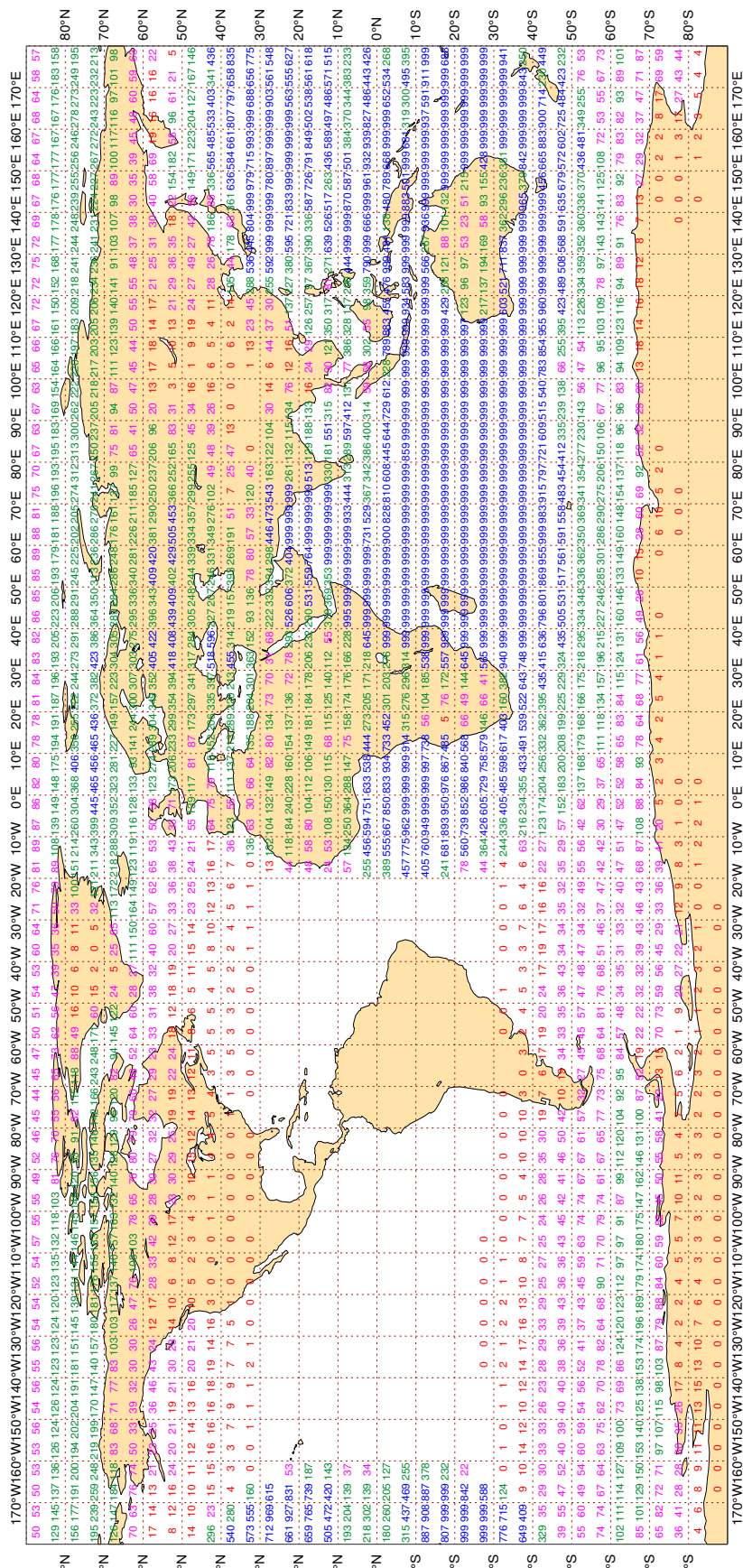


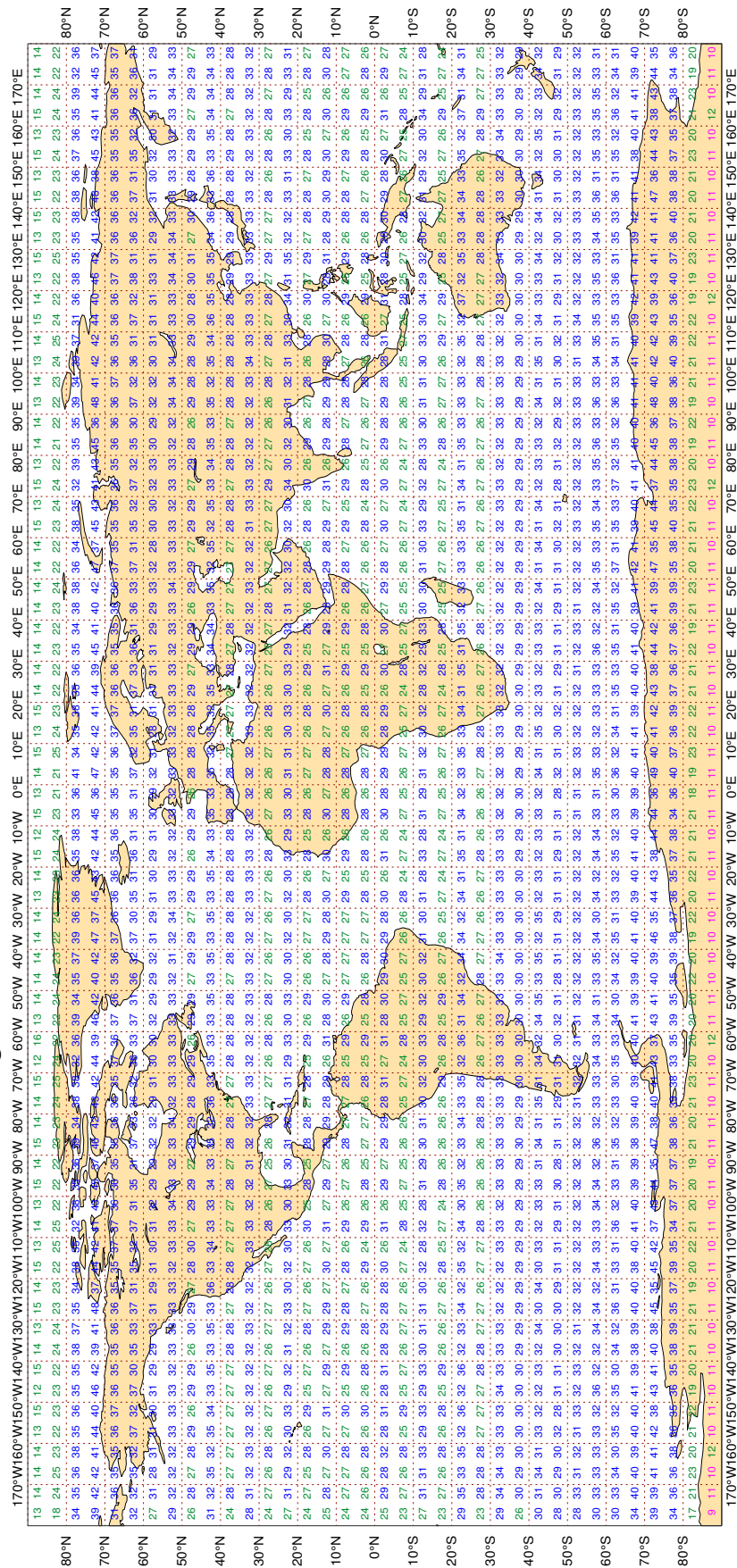
Figure 7



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

Figure 8

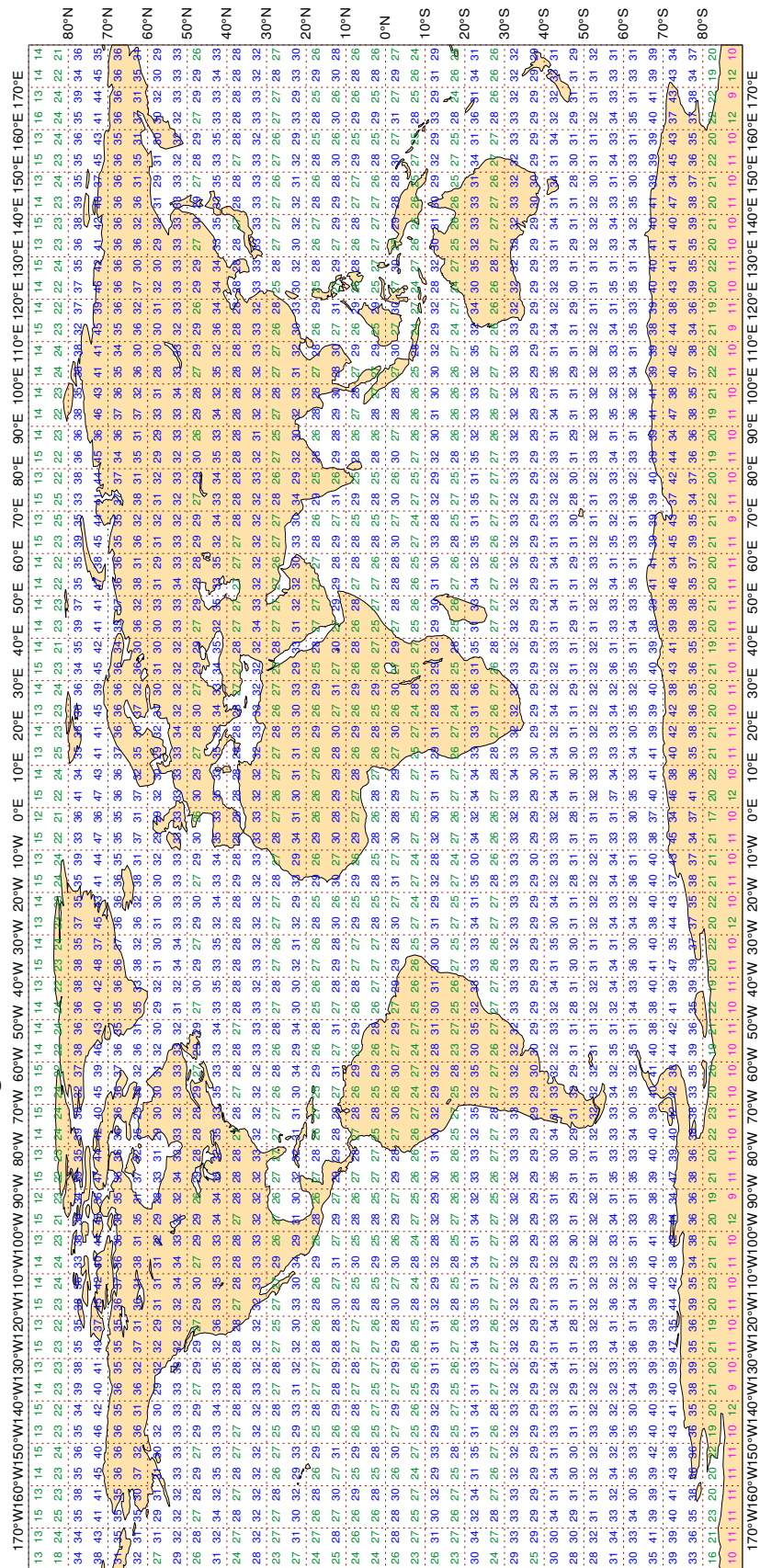
ECMWF Monitoring Statistics - AUG 2026
 Availability - METOP-B ATOVS : AMSU-A
 Average number of observations in 24 hours - 79387



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

Figure 9

ECMWF Monitoring Statistics - AUG 2026
 Availability - METOP-C ATOVS : AMSU-A
 Average number of observations in 24 hours - 7894



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 : AUG 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
2FRK7	99	P	SUR	17	0	1.0	5.7	5.7
3E2032	99	P	SUR	20	0	0.8	-5.0	5.1
3E4612	99	P	SUR	35	0	0.9	3.6	3.8
3EBY2	99	P	SUR	39	19	3.9	0.9	4.0
3EIF9	99	P	SUR	34	0	0.7	-4.8	4.8
3EPL4	99	P	SUR	15	0	1.7	4.9	5.2
3ETR7	99	P	SUR	45	0	2.6	4.5	5.2
3FOS8	99	P	SUR	25	0	1.0	-4.7	4.8
45161	99	P	SUR	65	0	0.4	9.8	9.8
45174	99	P	SUR	122	0	0.7	3.3	3.4
45201	99	P	SUR	119	19	4.7	4.4	6.5
5LIH2	99	P	SUR	27	0	0.8	5.0	5.0
5LOH5	99	P	SUR	48	0	1.9	5.0	5.4
5LYQ3	99	P	SUR	33	1	2.5	8.8	9.2
7KBT	99	P	SUR	85	0	2.4	3.4	4.2
7KJS	99	P	SUR	51	0	1.9	5.2	5.6
7KPJ	99	P	SUR	26	0	2.1	5.4	5.8
7KSY	99	P	SUR	23	0	0.8	3.5	3.6
9HA4638	99	P	SUR	24	0	2.6	11.7	12.0
9HA4777	99	P	SUR	80	0	1.4	5.4	5.5
9HA5209	99	P	SUR	19	10	0.9	13.8	13.8
9HA5677	99	P	SUR	19	0	1.9	5.0	5.3
9HA5782	99	P	SUR	28	0	4.5	-3.0	5.4
9V2732	99	P	SUR	29	0	1.9	5.5	5.8
9V6324	99	P	SUR	31	0	2.2	5.3	5.7
9V6625	99	P	SUR	21	1	1.8	4.0	4.4
9V7754	99	P	SUR	30	1	1.1	7.0	7.1
9V9290	99	P	SUR	18	0	2.4	5.2	5.7
9V9567	99	P	SUR	46	21	4.7	8.3	9.5
AVLD	99	P	SUR	17	0	0.9	-3.2	3.3
C6BU3	99	P	SUR	47	0	0.9	5.5	5.5
C6CA7	99	P	SUR	30	0	2.6	3.2	4.1

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

WMO IDENT	OBS TIME	ELM	LEVEL	NUM OBS	NUM GROSS	SD	BIAS	RMS
C6CN5	99	P	SUR	54	0	1.6	4.0	4.3
C6HY8	99	P	SUR	23	0	2.3	-3.3	4.0
C6TX6	99	P	SUR	82	0	5.9	8.9	10.7
C6WO8	99	P	SUR	43	0	0.4	4.5	4.5
C6XM2	99	P	SUR	38	0	2.7	-3.0	4.1
D5HF3	99	P	SUR	15	0	5.0	7.8	9.3
H3FV	99	P	SUR	31	0	2.7	-3.5	4.4
H3JW	99	P	SUR	18	0	1.7	4.0	4.3
H9DU	99	P	SUR	39	0	0.8	-5.9	6.0
LAJF7	99	P	SUR	94	0	2.5	4.1	4.8
LAQL7	99	P	SUR	22	0	1.5	4.9	5.2
LAQN7	99	P	SUR	38	0	2.7	5.4	6.0
LAQO7	99	P	SUR	30	0	1.4	5.6	5.8
LATL8	99	P	SUR	75	0	1.4	-5.8	5.9
MJKZ4	99	P	SUR	17	0	1.0	3.1	3.2
OBAA	99	P	SUR	35	0	1.1	-7.1	7.2
OXLK2	99	P	SUR	19	0	2.1	3.2	3.8
UAST	99	P	SUR	51	0	4.3	3.3	5.4
UBRW	99	P	SUR	114	0	3.7	-4.2	5.5
UBSI9	99	P	SUR	18	1	5.5	-1.4	5.6
UCQX	99	P	SUR	108	86	3.2	1.2	3.5
UCSJ	99	P	SUR	20	1	2.2	4.0	4.5
V7A5254	99	P	SUR	48	0	1.1	3.8	3.9
V7A7277	99	P	SUR	26	0	2.1	-3.4	4.0
V7FA7	99	P	SUR	21	0	1.8	3.3	3.8
VRFU8	99	P	SUR	38	0	1.6	-4.7	5.0
VRID2	99	P	SUR	48	0	1.4	-3.5	3.8
VRJT5	99	P	SUR	17	0	0.5	3.9	4.0
VRMX8	99	P	SUR	55	0	2.1	3.1	3.8
VRTV2	99	P	SUR	36	0	0.7	-4.9	5.0
VRWA8	99	P	SUR	29	0	2.3	-5.8	6.3
WAZV	99	P	SUR	16	0	0.8	-3.7	3.8
WDK7414	99	P	SUR	19	1	1.1	-3.2	3.4
WDQ3486	99	P	SUR	33	0	1.0	-3.1	3.3
WFLH	99	P	SUR	16	0	1.0	4.1	4.2
WGEB	99	P	SUR	105	0	0.5	5.9	6.0
WHDB	99	P	SUR	19	0	0.7	7.1	7.2
XQCNSBH	99	P	SUR	21	0	2.1	-3.7	4.2
YDDP2	99	P	SUR	19	0	0.7	-3.9	4.0

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 : AUG 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
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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 : AUG 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
45187	99	DIRN	SUR	64	0	0	31.2	36.2	47.8
45209	99	DIRN	SUR	58	0	0	20.2	-35.3	40.6
46081	99	DIRN	SUR	28	0	0	30.6	35.7	47.0
46118	99	DIRN	SUR	65	0	0	45.8	-53.1	70.1
46120	99	DIRN	SUR	38	0	0	19.9	40.5	45.1
63057	99	DIRN	SUR	98	0	0	12.7	33.9	36.2

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

LIST OF SUSPECT STATIONS : DRIFTER
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : SURFACE PRESSURE (HPA)
 AREA : GLOBAL
 PERIOD : AUG 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
1301626	99	P	SUR	5	6	98	31	3.9	-5.8	7.0
1701664	99	P	SUR	-36	-76	736	394	5.6	-5.4	7.8
1701678	99	P	SUR	-25	72	385	100	5.6	2.0	6.0
2101868	99	P	SUR	50	-128	441	0	1.9	5.0	5.4
2501555	99	P	SUR	80	-156	744	197	0.3	0.0	0.3
2501586	99	P	SUR	75	-138	744	744	0.0	0.0	0.0
2501587	99	P	SUR	76	-152	744	0	2.3	4.9	5.4
2601522	99	P	SUR	70	174	149	123	5.7	4.6	7.3
2601529	99	P	SUR	68	-175	726	191	3.3	2.5	4.1
2802165	99	P	SUR	-63	-134	87	87	0.0	0.0	0.0
3801767	99	P	SUR	-59	-129	87	49	5.7	-6.6	8.7
3801872	99	P	SUR	78	-153	348	348	0.0	0.0	0.0
4101867	99	P	SUR	6	81	731	632	4.3	-9.8	10.7
4500161	99	P	SUR	43	-86	1120	0	0.4	9.8	9.8
4500201	99	P	SUR	42	83	4257	557	4.9	4.7	6.8
45161	99	P	SUR	43	-86	391	0	0.6	9.8	9.8
45201	99	P	SUR	42	83	718	95	4.9	4.7	6.8
4701555	99	P	SUR	64	-22	25	0	0.3	-5.8	5.8
4701558	99	P	SUR	79	-18	53	0	0.4	-4.2	4.2
4801639	99	P	SUR	70	-127	545	545	0.0	0.0	0.0
4801763	99	P	SUR	69	2	744	7	0.5	-13.5	13.5
4802582	99	P	SUR	64	-18	643	0	0.4	-9.9	10.0
5501690	99	P	SUR	-29	153	213	0	0.4	-8.5	8.5
5501735	99	P	SUR	-36	-97	743	743	0.0	0.0	0.0
5802097	99	P	SUR	-27	160	87	87	0.0	0.0	0.0
5802227	99	P	SUR	53	-32	736	736	0.0	0.0	0.0
5802238	99	P	SUR	-29	114	87	87	0.0	0.0	0.0
6801944	99	P	SUR	18	-141	712	711	0.0	14.5	14.5
6801990	99	P	SUR	-40	-135	87	87	0.0	0.0	0.0
6801991	99	P	SUR	-52	-147	105	105	0.0	0.0	0.0
6802080	99	P	SUR	52	-55	715	245	0.3	0.2	0.4
7801770	99	P	SUR	58	-153	716	194	1.6	-8.7	8.8

LIST OF SUSPECT STATIONS : DRIFTER
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : SURFACE PRESSURE (HPA)
 (CONTINUED)

WMO IDENT	OBS TIME	ELM	ME LEVEL	LAT	N LONG	N OBS	GROSS	SD	BIAS	RMS
7801783	99	P	SUR	-16	-14	87	87	0.0	0.0	0.0
7810038	99	P	SUR	-9	-31	735	5	0.7	13.4	13.5
7810044	99	P	SUR	26	-80	37	0	0.7	-4.4	4.4
7810693	99	P	SUR	32	-154	736	0	0.0	-7.4	7.4
7810860	99	P	SUR	33	-171	709	414	1.9	0.4	1.9
7810917	99	P	SUR	18	-112	733	717	5.2	9.4	10.8
7810923	99	P	SUR	9	-101	726	633	1.6	0.5	1.7

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

LIST OF SUSPECT STATIONS : DRIFTER
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : WIND SPEED (M/S)
 AREA : GLOBAL
 PERIOD : AUG 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
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3.2.15 Table 6 - Suspect drifters: Wind direction (degrees)

LIST OF SUSPECT STATIONS : DRIFTER
 MONITORING CENTRE : ECMWF
 ELEMENT MONITORED : WIND DIRECTION (DEGREES)
 PERIOD : AUG 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
2200192	99	DIRN	SUR	34	123	571	0	0	20.4	-21.3	29.5
2200193	99	DIRN	SUR	38	124	517	0	0	25.2	40.7	47.8
2200309	99	DIRN	SUR	34	128	589	0	0	14.1	-22.5	26.6
2300009	99	DIRN	SUR	15	89	138	0	0	115.6	-55.3	128.2
2300453	99	DIRN	SUR	8	73	223	0	0	42.1	102.1	110.4
23099	99	DIRN	SUR	13	80	61	0	0	89.6	81.0	120.8
23453	99	DIRN	SUR	8	73	229	0	0	42.2	100.5	109.0
23491	99	DIRN	SUR	12	93	602	0	0	29.4	23.1	37.4
23492	99	DIRN	SUR	11	72	177	0	0	24.7	-25.0	35.2
23497	99	DIRN	SUR	11	72	114	0	0	75.4	68.5	101.8
4500001	99	DIRN	SUR	48	-88	2155	0	0	17.8	21.0	27.6
4500029	99	DIRN	SUR	43	-86	2413	0	0	25.0	26.8	36.7
4500165	99	DIRN	SUR	42	-83	2644	0	0	31.1	29.2	42.7
4500168	99	DIRN	SUR	42	-86	2358	0	0	25.8	30.9	40.2
4500186	99	DIRN	SUR	42	-88	2029	0	0	29.4	24.2	38.1
4500187	99	DIRN	SUR	42	-88	2009	0	0	27.5	32.7	42.8
4500206	99	DIRN	SUR	42	-82	1482	0	0	27.7	-20.3	34.3
4500207	99	DIRN	SUR	42	-81	1977	0	0	41.2	21.9	46.7
4500209	99	DIRN	SUR	43	-82	2321	0	0	22.6	-35.3	41.9
45004	99	DIRN	SUR	48	-87	353	0	0	21.1	20.1	29.2
45029	99	DIRN	SUR	43	-86	416	0	0	26.0	28.1	38.3
45165	99	DIRN	SUR	42	-83	424	0	0	31.1	28.3	42.1
45168	99	DIRN	SUR	42	-86	401	0	0	27.4	32.2	42.3
45186	99	DIRN	SUR	42	-88	368	0	0	28.2	24.1	37.1
45187	99	DIRN	SUR	43	-88	378	0	0	27.1	33.6	43.2
45196	99	DIRN	SUR	42	-82	360	0	0	69.3	6.2	69.6
45201	99	DIRN	SUR	42	83	270	0	0	62.2	4.2	62.4
45206	99	DIRN	SUR	42	-82	278	0	0	26.0	-20.1	32.9
45207	99	DIRN	SUR	42	-81	313	0	0	40.6	20.2	45.3
45209	99	DIRN	SUR	43	-82	367	0	0	25.1	-34.4	42.5
4600081	99	DIRN	SUR	61	-148	924	0	0	44.7	27.2	52.3

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
4600087	99	DIRN	SUR	48	-125	594	0	0	18.5	20.7	27.8
4600118	99	DIRN	SUR	49	-123	2187	0	0	41.2	-58.8	71.8
4600120	99	DIRN	SUR	48	-122	814	0	0	27.2	35.5	44.7
4600303	99	DIRN	SUR	49	-123	306	0	0	32.4	24.3	40.5
46081	99	DIRN	SUR	61	-148	169	0	0	43.1	27.8	51.2
46092	99	DIRN	SUR	37	-122	260	1	0	15.3	-22.0	26.8
46118	99	DIRN	SUR	49	-123	403	0	0	43.6	-54.2	69.5
46120	99	DIRN	SUR	48	-122	224	0	0	29.0	34.2	44.8
46303	99	DIRN	SUR	49	-123	295	0	0	35.8	25.3	43.9
5100312	99	DIRN	SUR	10	-170	1151	0	0	49.0	64.4	81.0
6100216	99	DIRN	SUR	42	12	638	0	0	96.2	-19.1	98.1
6100281	99	DIRN	SUR	40	0	260	0	0	38.1	-27.1	46.7
6100417	99	DIRN	SUR	38	0	297	0	0	93.3	123.6	154.8
6200082	99	DIRN	SUR	44	-8	483	0	0	58.1	83.1	101.4
6200083	99	DIRN	SUR	43	-9	544	0	0	68.5	-26.7	73.5
6200086	99	DIRN	SUR	55	7	228	0	0	14.6	28.5	32.1
6301004	99	DIRN	SUR	72	20	210	0	0	63.3	14.3	64.9
63057	99	DIRN	SUR	59	2	1169	0	0	13.2	35.0	37.4
6600024	99	DIRN	SUR	55	13	215	0	0	13.9	29.7	32.8

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

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

ONLY THE WORST LEVEL IS SHOWN (WITH UNWEIGHTED RMS)

WMO IDENT	OBS TIME	ELM	LEV	LAT	LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
01400	12	Z	1000	57	3	31	0	24.3	66.3	70.6
01400	00	Z	1000	57	3	29	0	23.8	68.7	72.7
23933	12	Z	250	61	69	30	0	28.7	-101.2	105.2
23933	00	Z	250	61	69	30	0	32.2	-108.0	112.7
25913	00	Z	50	60	151	29	0	86.6	-144.2	168.2
25913	12	Z	30	60	151	24	0	89.7	-225.5	242.7
29231	00	Z	250	58	83	16	0	117.4	24.5	119.9
29839	12	Z	250	54	84	26	0	19.1	106.8	108.5
30054	12	Z	70	59	113	18	0	124.4	-104.9	162.7
30054	00	Z	50	59	113	22	0	98.5	-87.7	131.9
31873	00	Z	50	46	134	28	0	28.8	171.1	173.5
31873	12	Z	50	46	134	27	1	98.8	119.3	154.9
34247	00	Z	30	50	41	20	0	85.1	-169.1	189.3
42056	12	Z	50	33	75	14	5	140.5	181.5	229.5
42079	00	Z	30	32	77	11	6	153.1	140.6	207.9
42348	00	Z	925	27	76	25	0	5.0	41.7	42.0
42634	00	Z	150	23	70	17	0	77.3	-83.2	113.6
42727	00	Z	850	24	93	28	0	6.4	-41.2	41.7
56492	00	Z	30	29	105	28	0	145.7	165.4	220.4
76644	12	Z	850	21	-90	28	0	2.6	34.5	34.6
76644	00	Z	850	21	-90	23	0	7.0	40.5	41.1
89625	12	Z	1000	-75	123	26	16	6.0	-89.3	89.5
91680	00	Z	1000	-18	177	28	0	2.6	33.8	33.9
91680	12	Z	1000	-18	177	24	0	2.5	31.4	31.5
JNKN7J	12	Z	925	47	-52	10	0	5.7	40.1	40.5

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 : AUG 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
48381	00	V	100	16	103	20	0	13.4	-2.3	19.1

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

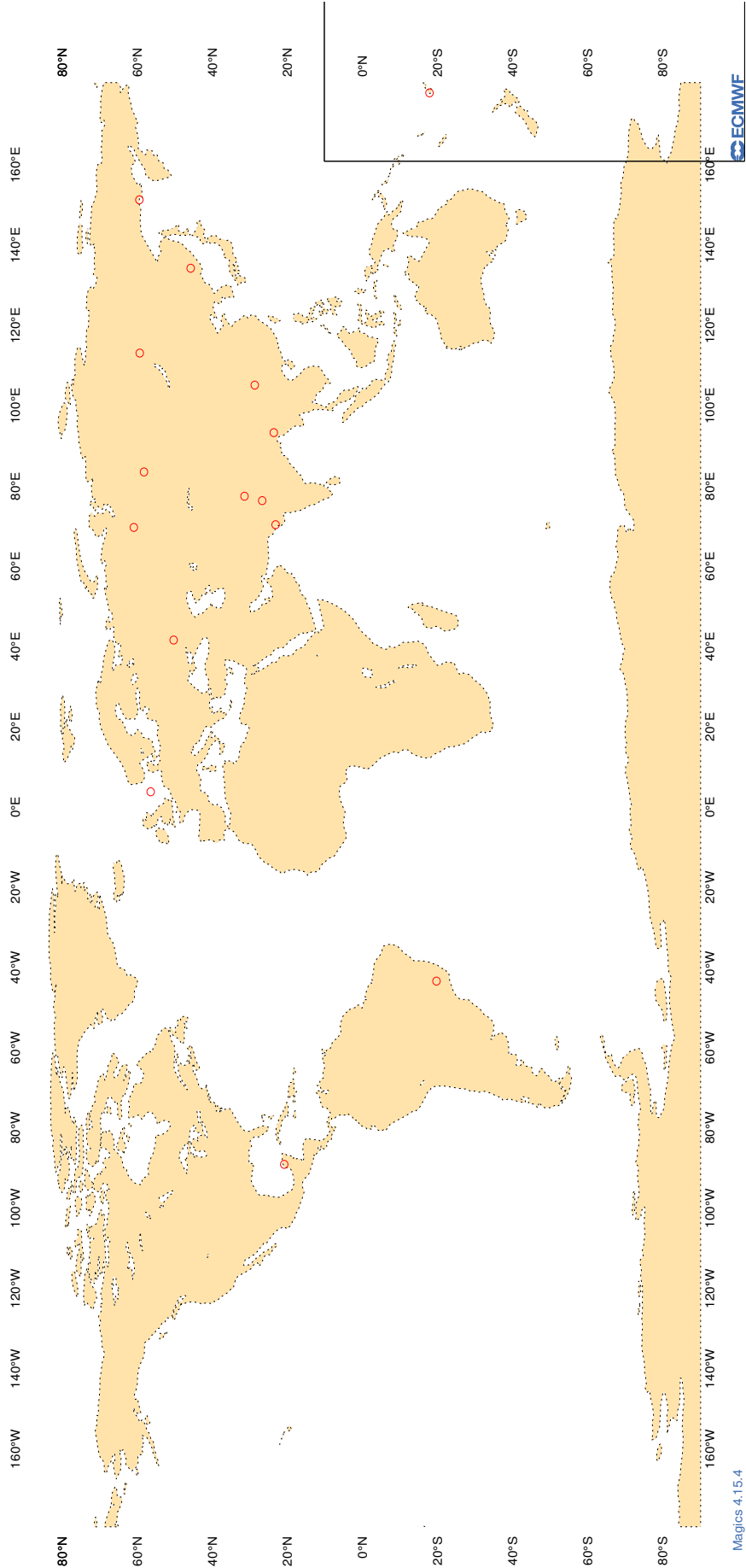
SELECTION CRITERIA: OBSERVED/FORECAST WIND SPEEDS ≥ 5 M/S
 NO. OF OBSERVATIONS ≥ 5 , AND,
 ABSOLUTE BIAS ≥ 10 DEGREES, WITH
 STANDARD DEVIATION < 30 DEGREES, AND,
 VERTICAL SPREAD < 10 DEGREES
 (AVERAGE BETWEEN 500 AND 150 HPA)

WMO IDENT	OBS TIME	ELM	LAT	LONG	NUM OBS	BIAS	MAX SPREAD	SD
34247	12	DD	50	41	20	-11.5	5.3	16.6
48568	00	DD	7	101	24	-12.3	5.8	10.2

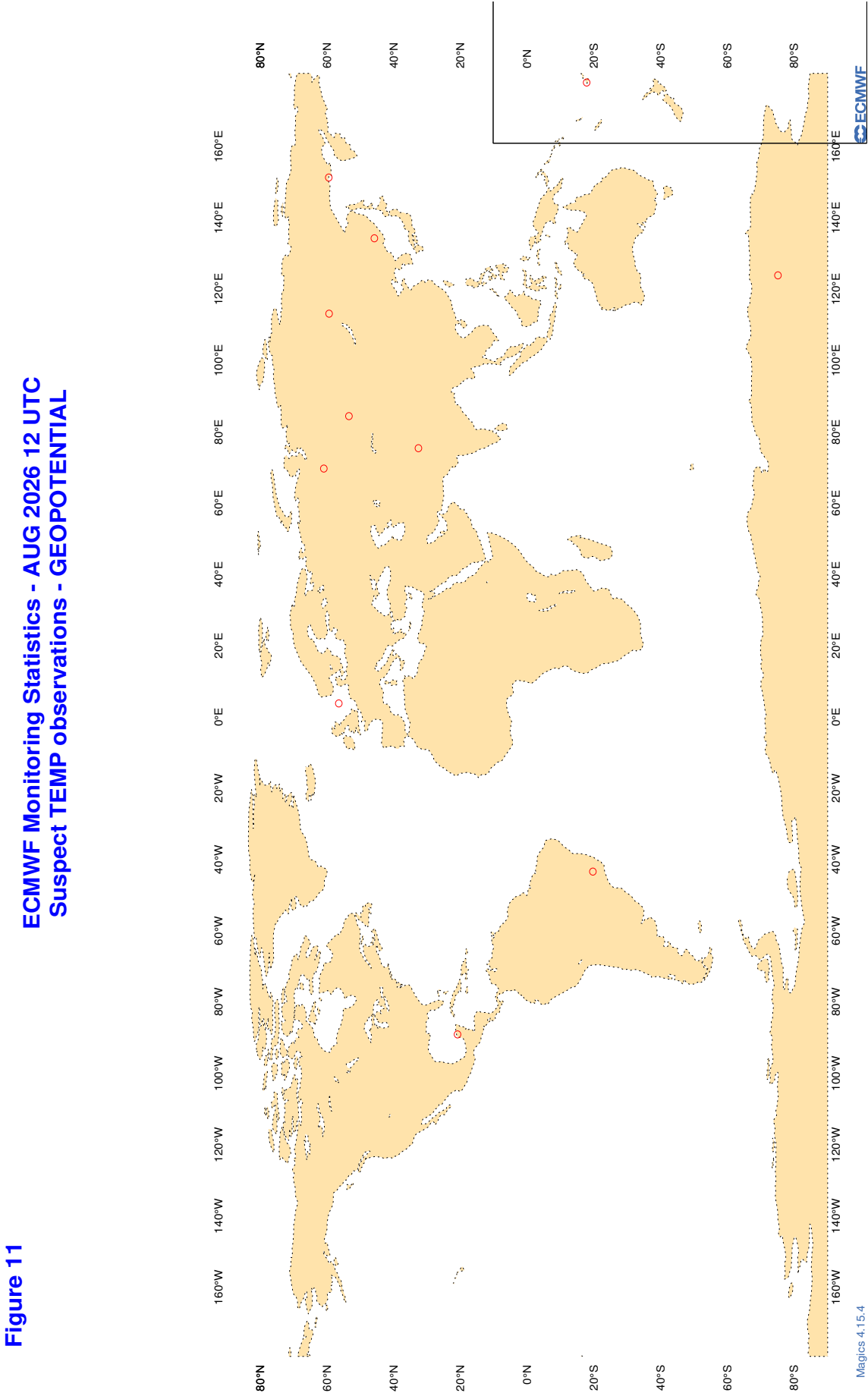
3.2.19 Figure 10 - Suspect TEMP observations - geopotential : 00 UTC

Figure 10

ECMWF Monitoring Statistics - AUG 2026 00 UTC
Suspect TEMP observations - GEOPOTENTIAL



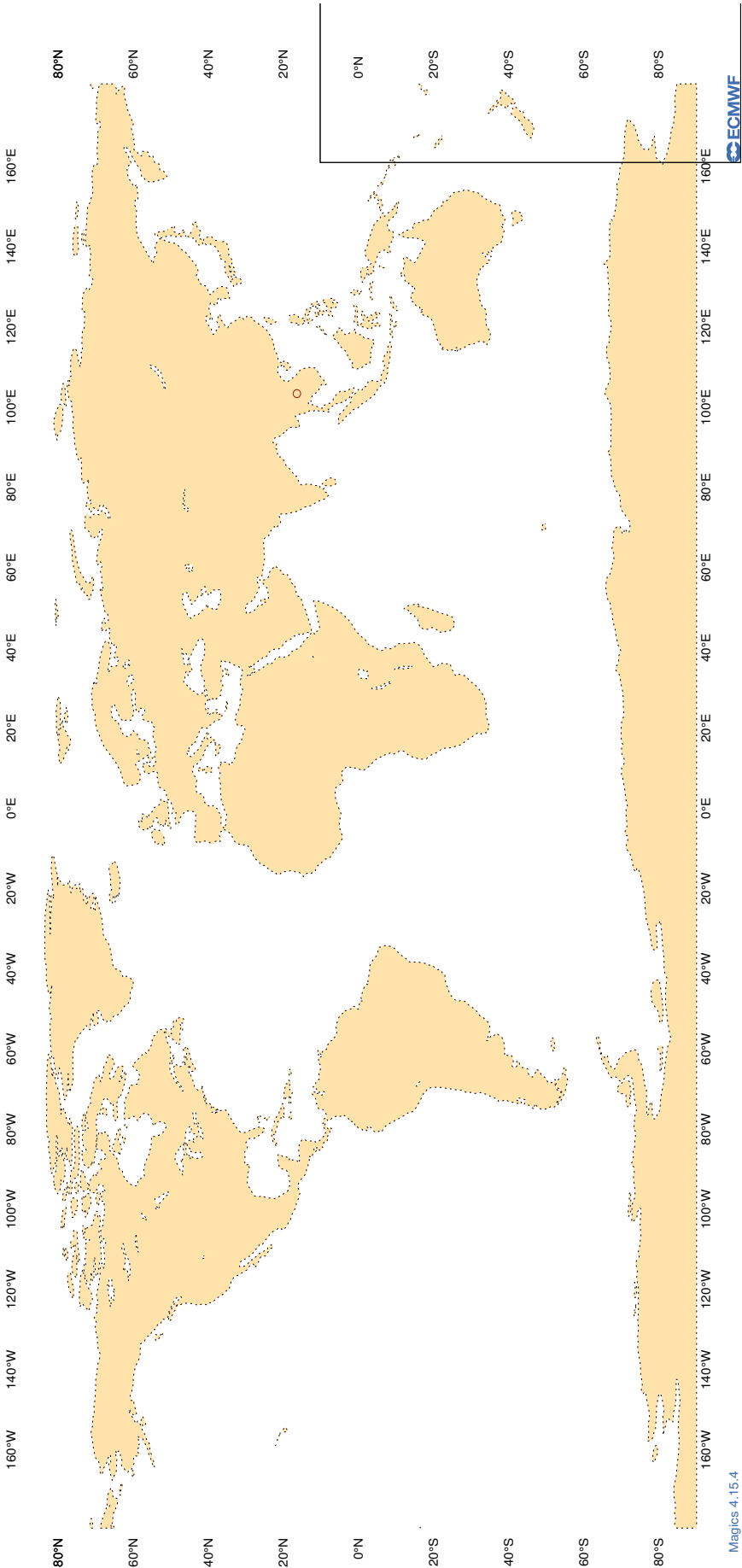
3.2.20 Figure 11 - Suspect TEMP observations - geopotential : 12 UTC



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

Figure 12

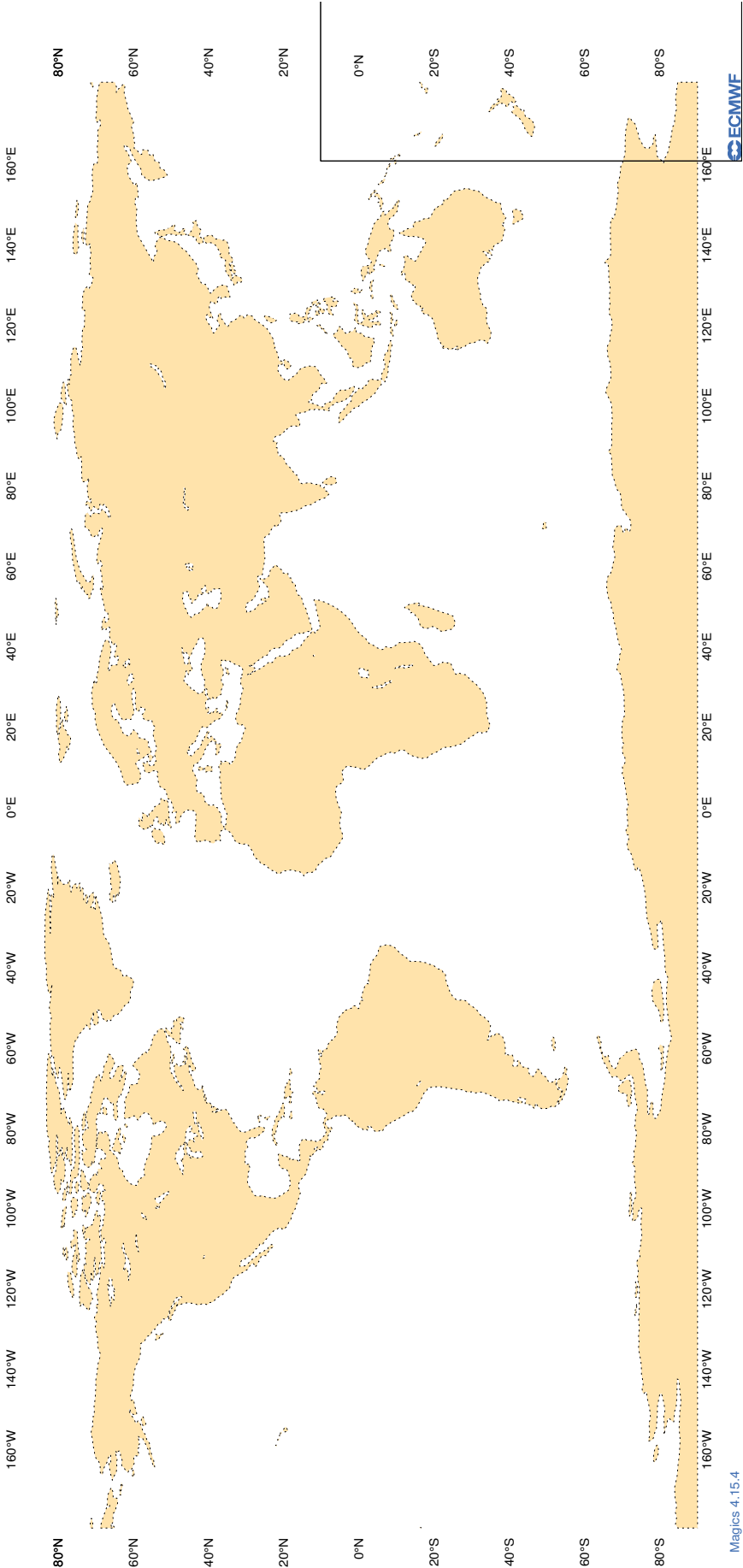
ECMWF Monitoring Statistics - AUG 2026 00 UTC
Suspect TEMP/PILOT observations - WIND



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

Figure 13

ECMWF Monitoring Statistics - AUG 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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
2TDJJ8	12	Z	100	20	12.1	11.7
7JOO	00	Z	100	3	3.8	-3.2
7JOO	12	Z	100	3	1.1	-0.3
7JUNA4	12	Z	100	3	24.9	17.1
7JUNA4	00	Z	100	7	15.5	9.3
7KPB	00	Z	100	3	4.4	3.1
7KPB	12	Z	100	7	3.5	1.3
9ZT9MR	12	Z	100	6	18.6	-17.8
9ZT9MR	00	Z	100	5	22.3	-19.4
ASDE09	12	Z	100	2	15.2	-10.0
ATGU3F	12	Z	100	8	29.1	-25.0
ATGU3F	00	Z	100	7	35.0	-33.6
CMA	12	Z	100	0	0.0	0.0
CMA	00	Z	100	0	0.0	0.0
DEN	12	Z	100	5	62.3	62.2
DEN	00	Z	100	5	67.7	67.0
DSQL7	12	Z	100	11	6.7	-1.3
DSQL7	00	Z	100	11	7.1	-1.6
GQBZLZ	12	Z	100	0	0.0	0.0
GQBZLZ	00	Z	100	0	0.0	0.0
JNKN7J	12	Z	100	10	17.8	16.4
JNKN7J	00	Z	100	8	28.0	26.3
JPBN	12	Z	100	10	5.4	1.5
JPBN	00	Z	100	6	7.4	4.0
KMPLHP	12	Z	100	6	52.3	43.0
KMPLHP	00	Z	100	8	9.6	-3.9
LAGY8	00	Z	100	2	48.8	-48.8
LAGY8	12	Z	100	2	28.7	-28.4
LAGZ8	12	Z	100	2	74.6	72.3
LAR	12	Z	100	0	0.0	0.0
LAR	00	Z	100	0	0.0	0.0
LRQEQ3	12	Z	100	9	100.1	93.9
LRQEQ3	00	Z	100	9	11.2	-8.4
SMLQ	12	Z	100	19	5.4	0.8
SMLQ	00	Z	100	18	12.2	5.0
TLH	12	Z	100	0	0.0	0.0
TLH	00	Z	100	0	0.0	0.0
WDK38H	12	Z	100	29	15.4	-14.7
WDK38H	00	Z	100	27	22.8	-18.1

RADIOSONDE MONITORING STATISTICS (SHIPS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
WFF	12	Z	100	0	0.0	0.0
WFF	00	Z	100	0	0.0	0.0
XKQLWQ	12	Z	100	21	13.8	12.5
YLV96W	12	Z	100	7	25.0	14.0
YLV96W	00	Z	100	7	8.5	-4.7

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OB TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
2TDJJ8	12	V	100	20	2.2	0.1	0.5
7JOO	00	V	100	3	2.2	1.0	-1.2
7JOO	12	V	100	3	2.2	1.3	-0.6
7JUNA4	12	V	100	3	1.0	0.4	-0.3
7JUNA4	00	V	100	7	2.9	-0.3	0.0
7KPB	00	V	100	3	3.4	-1.0	2.6
7KPB	12	V	100	7	2.7	0.0	-0.9
9ZT9MR	12	V	100	6	2.3	-0.2	0.0
9ZT9MR	00	V	100	5	3.3	0.6	-0.2
ASDE09	12	V	100	2	2.2	0.8	-0.2
ATGU3F	12	V	100	8	2.3	0.0	0.0
ATGU3F	00	V	100	7	2.1	-0.1	1.1
CMA	12	V	100	0	0.0	0.0	0.0
CMA	00	V	100	0	0.0	0.0	0.0
DEN	12	V	100	5	4.7	-3.1	2.0
DEN	00	V	100	4	5.1	1.6	1.8
DSQL7	12	V	100	10	1.9	0.6	-0.5
DSQL7	00	V	100	7	1.3	0.0	-0.3
GQBZLZ	12	V	100	0	0.0	0.0	0.0
GQBZLZ	00	V	100	0	0.0	0.0	0.0
JNKN7J	12	V	100	10	2.6	0.8	0.5
JNKN7J	00	V	100	8	3.5	1.5	-1.2
JPNB	12	V	100	10	2.9	-0.3	-1.4
JPNB	00	V	100	6	2.9	-0.9	-0.3
KMPLHP	12	V	100	6	3.2	-1.0	0.7
KMPLHP	00	V	100	8	2.9	0.2	0.8
LAGY8	00	V	100	2	5.1	-3.6	0.9
LAGY8	12	V	100	2	1.6	0.4	0.0
LAGZ8	12	V	100	2	1.0	-0.3	0.6
LAR	12	V	100	0	0.0	0.0	0.0
LAR	00	V	100	0	0.0	0.0	0.0
LRQEQ3	12	V	100	9	3.1	0.4	0.8
LRQEQ3	00	V	100	9	2.2	-0.1	-0.1
SMLQ	12	V	100	19	2.4	-0.1	0.2
SMLQ	00	V	100	18	2.3	-0.6	0.3
TLH	12	V	100	0	0.0	0.0	0.0
TLH	00	V	100	0	0.0	0.0	0.0
WDK38H	12	V	100	29	2.1	-0.1	0.7
WDK38H	00	V	100	27	3.6	-0.6	0.6

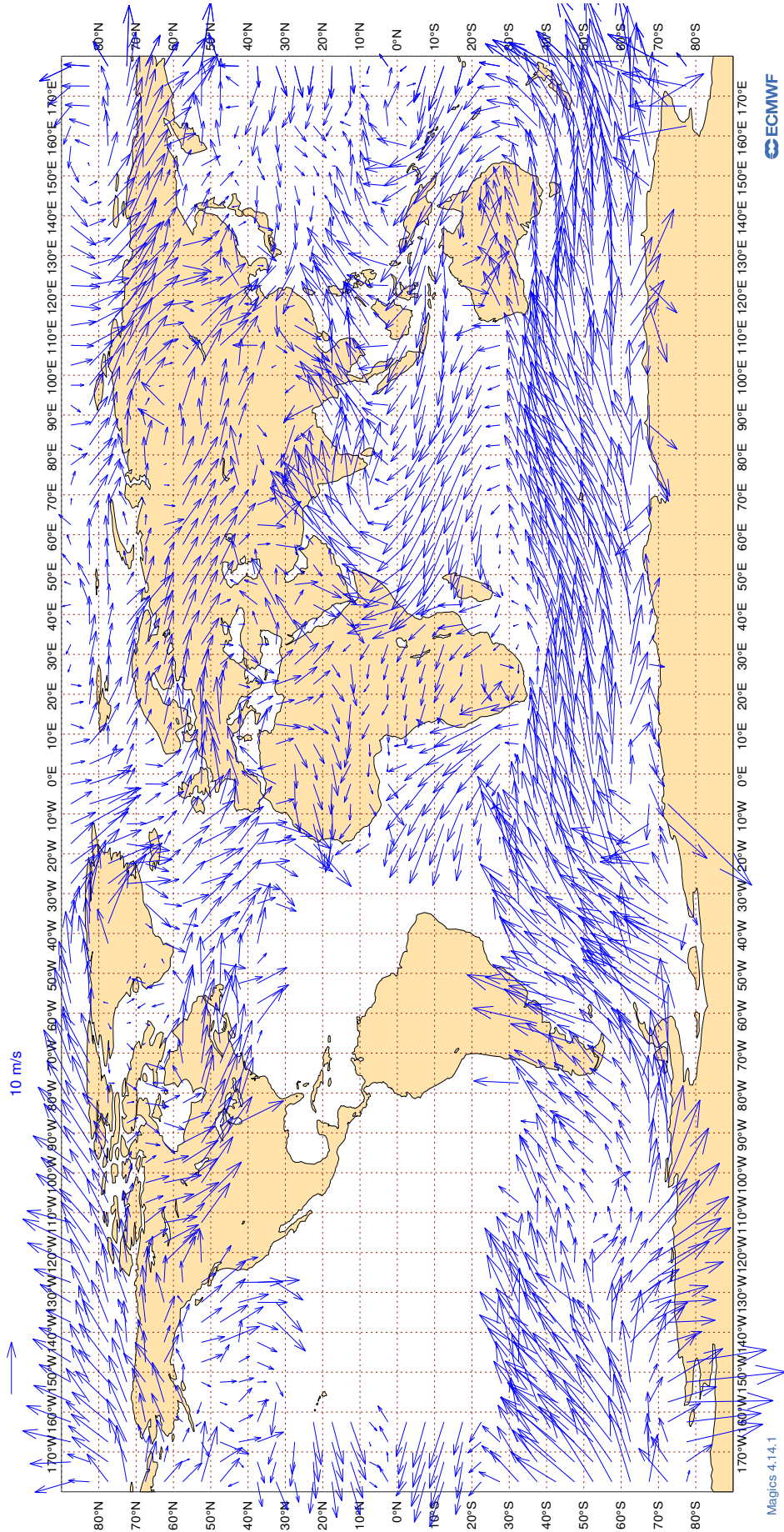
RADIOSONDE MONITORING STATISTICS (SHIPS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
WFF	12	V	100	0	0.0	0.0	0.0
WFF	00	V	100	0	0.0	0.0	0.0
XKQLWQ	12	V	100	21	3.7	0.1	1.5
YLV96W	12	V	100	7	2.2	-0.1	-0.6
YLV96W	00	V	100	7	2.5	0.6	-0.2

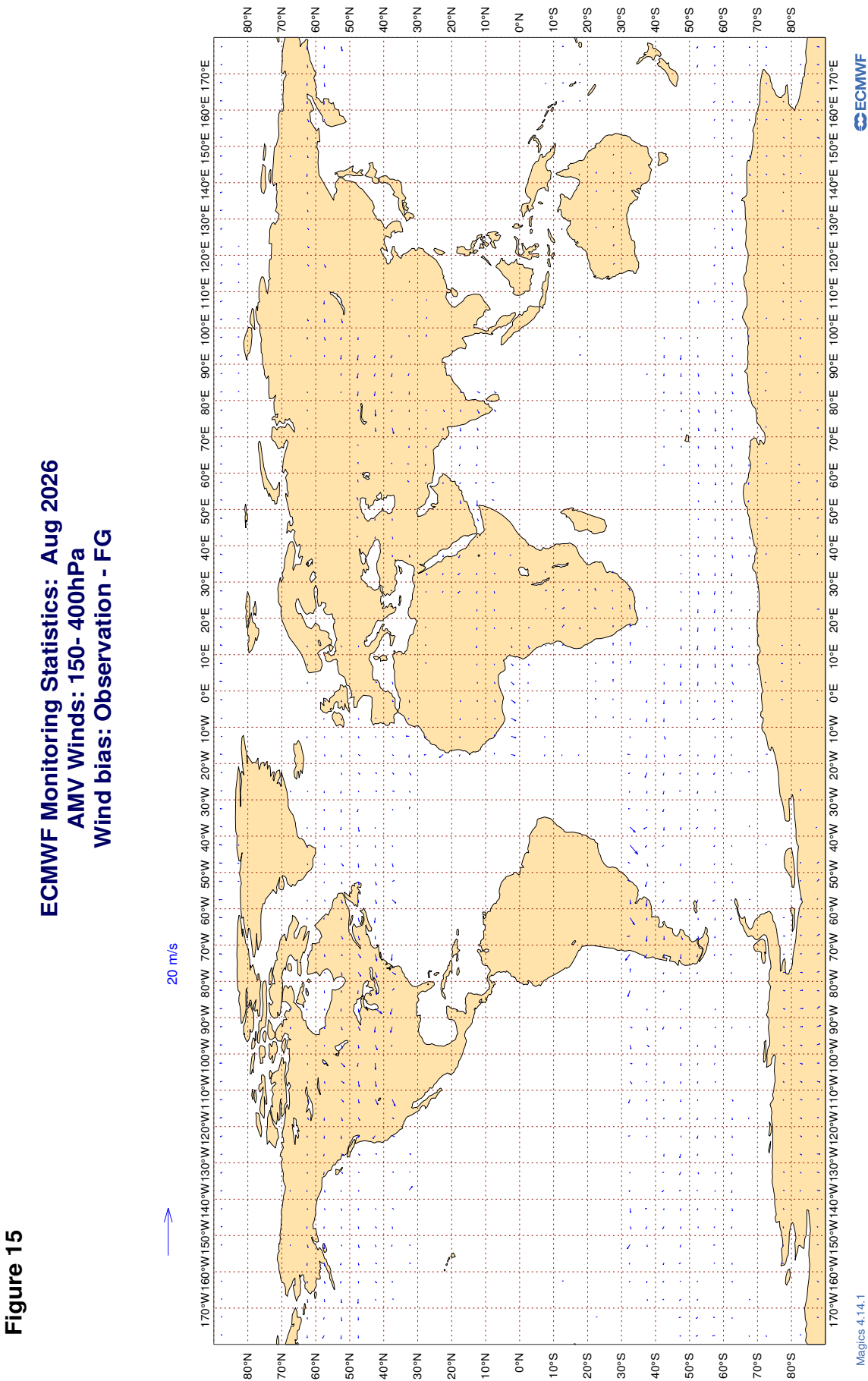
3.2.25 Figure 14 - SATOB Winds: 700-1000hPa

Figure 14

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



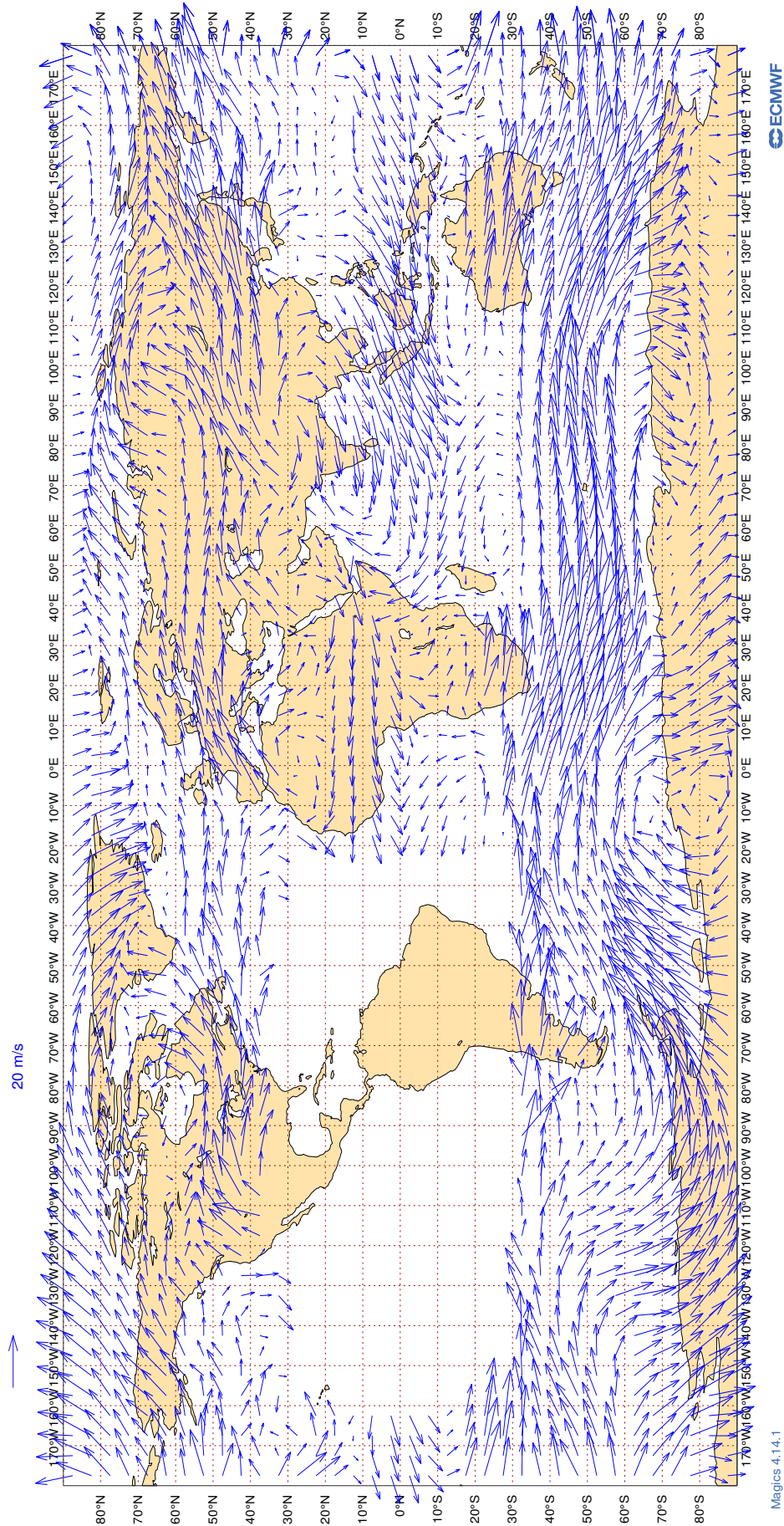
3.2.26 Figure 15 - SATOB Winds: 150- 400hPa



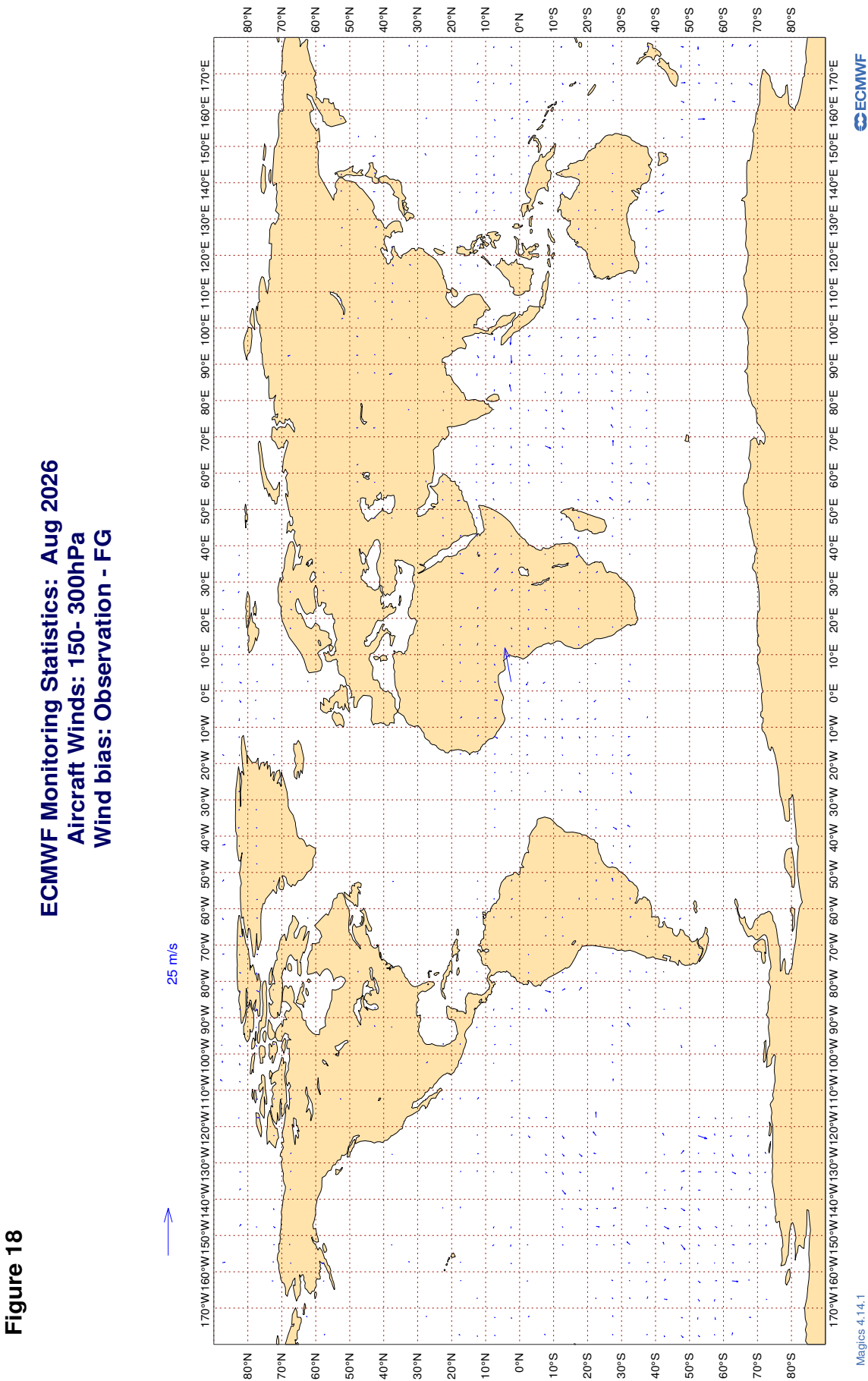
3.2.28 Figure 17 - SATOB Winds: 150- 400hPa

Figure 17

ECMWF Monitoring Statistics: Aug 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 : AUG 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	33	0	0	3.1	0.8
AAE	99	V	300-150	450	0	0	4.3	-0.1
AAL	99	V	300-150	65614	2	0	4.8	0.0
ABB	99	V	300-150	95	0	0	4.2	-0.5
ABD	99	V	300-150	227	0	0	3.9	0.3
ABP	99	V	300-150	23	0	0	3.2	1.4
ABX	99	V	300-150	32	0	0	2.5	0.5
ABY	99	V	300-150	45	0	0	4.6	0.8
ACA	99	V	300-150	47231	1	0	3.9	0.1
ACI	99	V	300-150	403	0	0	3.8	0.6
ADZ	99	V	300-150	148	0	1	5.7	1.7
AEA	99	V	300-150	791	4	0	5.5	0.2
AEW	99	V	300-150	31	0	0	2.9	0.0
AFR	99	V	300-150	45244	0	0	3.3	0.1
AHY	99	V	300-150	21	0	0	3.3	1.3
AIC	99	V	300-150	5225	1	0	4.9	0.1
AIH	99	V	300-150	185	0	0	3.7	-1.7
AIZ	99	V	300-150	839	1	0	4.9	0.2
AJO	99	V	300-150	67	0	0	3.6	0.2
AJT	99	V	300-150	155	0	0	3.0	0.7
AMX	99	V	300-150	6720	4	0	5.8	-0.1
ANA	99	V	300-150	159	0	0	4.2	0.2
ANZ	99	V	300-150	13649	0	0	3.2	0.3

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
AOJ	99	V	300-150	60	0	0	2.7	1.0
ASA	99	V	300-150	1357	3	0	5.2	0.0
ASL	99	V	300-150	1766	0	0	3.0	0.1
ASP	99	V	300-150	124	0	0	3.1	-0.2
ASY	99	V	300-150	20	0	0	2.9	0.3
ATG	99	V	300-150	65	0	0	5.3	1.3
ATN	99	V	300-150	169	2	1	5.0	0.8
AUA	99	V	300-150	5145	2	0	4.9	-0.1
AVA	99	V	300-150	843	3	0	6.7	-0.1
AXS	99	V	300-150	39	0	0	2.8	1.4
AXY	99	V	300-150	26	0	0	2.6	0.5
AZG	99	V	300-150	1618	0	0	4.0	0.4
BAF	99	V	300-150	35	0	0	2.8	-1.1
BAH	99	V	300-150	40	0	0	3.0	0.6
BAW	99	V	300-150	54434	1	0	4.1	0.1
BBA	99	V	300-150	35	0	3	3.2	-0.5
BBC	99	V	300-150	459	6	0	5.1	0.0
BCS	99	V	300-150	1330	0	0	3.5	0.2
BEL	99	V	300-150	1776	0	0	2.8	0.2
BFF	99	V	300-150	38	0	0	8.7	2.4
BLU	99	V	300-150	20	0	0	3.1	1.0
BOX	99	V	300-150	5226	0	0	3.4	0.1
BOX	99	V	300-150	73	0	0	2.7	0.0
BRJ	99	V	300-150	39	0	0	3.1	0.8
BRK	99	V	300-150	98	0	0	7.8	0.8
BSF	99	V	300-150	39	0	0	3.8	-0.2
BTX	99	V	300-150	101	0	0	2.7	-0.2
CAL	99	V	300-150	1419	0	0	4.1	0.8
CBJ	99	V	300-150	372	0	0	5.0	0.6
CCA	99	V	300-150	189	0	0	3.9	0.4
CEB	99	V	300-150	640	0	0	5.2	0.6
CES	99	V	300-150	1000	0	0	3.9	0.3
CFC	99	V	300-150	168	0	0	3.8	0.4
CFG	99	V	300-150	6707	0	0	3.0	0.2
CHG	99	V	300-150	379	0	0	3.3	-0.3
CHH	99	V	300-150	212	0	0	4.6	0.5
CHZ	99	V	300-150	34	0	0	2.8	0.0
CJT	99	V	300-150	220	0	0	3.8	0.2
CKK	99	V	300-150	20	0	0	5.1	0.4
CKS	99	V	300-150	1571	0	0	3.2	0.2
CLX	99	V	300-150	4620	0	0	3.6	-0.3
CMA	99	V	300-150	128	0	0	3.9	0.8
CMB	99	V	300-150	1232	0	0	3.3	-0.2

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
CND	99	V	300-150	350	0	0	3.6	0.3
CNV	99	V	300-150	156	0	0	3.0	-0.1
COL	99	V	300-150	38	0	0	3.4	0.9
CPA	99	V	300-150	2335	0	0	4.0	0.5
CRL	99	V	300-150	1164	0	0	3.0	0.3
CSC	99	V	300-150	537	0	0	4.3	0.3
CSG	99	V	300-150	41	0	0	2.7	-0.2
CSN	99	V	300-150	543	0	0	3.9	0.6
CSS	99	V	300-150	55	0	0	4.8	0.6
CTM	99	V	300-150	80	0	0	3.6	-0.1
CTP	99	V	300-150	44	0	0	2.7	0.2
CWG	99	V	300-150	37	0	0	2.0	0.0
DAH	99	V	300-150	1816	0	0	3.0	0.3
DAL	99	V	300-150	84633	0	0	3.0	0.1
DCW	99	V	300-150	41	0	0	3.0	-0.1
DGX	99	V	300-150	42	0	0	2.4	-0.2
DHK	99	V	300-150	2775	0	0	3.4	-0.2
DHX	99	V	300-150	93	0	0	4.5	0.8
DJT	99	V	300-150	1758	0	0	3.0	0.2
DLH	99	V	300-150	33746	1	0	3.7	0.0
DTA	99	V	300-150	32	0	0	4.5	1.0
DUB	99	V	300-150	82	0	0	3.0	0.2
DWC	99	V	300-150	33	0	0	2.9	0.0
EAL	99	V	300-150	26	0	0	3.9	-0.5
EAU	99	V	300-150	95	0	0	2.6	0.3
ECC	99	V	300-150	67	0	0	3.1	0.9
EDG	99	V	300-150	29	0	0	2.4	0.7
EDW	99	V	300-150	2197	0	0	3.2	-0.1
EIN	99	V	300-150	23001	0	0	3.0	0.2
EJM	99	V	300-150	897	2	0	4.9	0.2
EJO	99	V	300-150	24	0	0	3.1	0.1
EJU	99	V	300-150	30	0	0	2.5	0.7
ELY	99	V	300-150	6316	4	0	5.9	0.0
ETD	99	V	300-150	11502	1	0	4.8	0.1
ETH	99	V	300-150	5534	2	0	5.3	0.1
EVA	99	V	300-150	1351	0	0	4.9	0.9
EVE	99	V	300-150	499	0	0	3.8	0.2
EXS	99	V	300-150	3419	0	0	3.2	0.1
EZY	99	V	300-150	275	0	0	3.1	0.1
FAF	99	V	300-150	37	0	0	3.3	0.5
FBU	99	V	300-150	3751	0	0	3.4	0.0
FDX	99	V	300-150	8048	0	0	3.0	0.1
FIN	99	V	300-150	2043	0	0	4.5	0.4

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
FJI	99	V	300-150	2490	0	0	3.4	0.4
FJO	99	V	300-150	155	0	0	2.5	0.1
FLW	99	V	300-150	34	0	0	2.6	-0.2
FWI	99	V	300-150	2407	0	0	3.0	0.2
FYL	99	V	300-150	39	0	0	3.9	0.2
GAF	99	V	300-150	199	0	0	2.7	0.3
GBG	99	V	300-150	23	0	0	2.4	0.0
GCK	99	V	300-150	194	0	0	3.4	-0.1
GEC	99	V	300-150	1258	0	0	3.2	0.2
GFA	99	V	300-150	1341	1	0	5.8	0.4
GIA	99	V	300-150	95	0	0	4.1	0.6
GJE	99	V	300-150	165	0	0	3.5	0.9
GNJ	99	V	300-150	75	0	0	3.5	0.1
GRB	99	V	300-150	52	0	0	2.8	0.5
GRP	99	V	300-150	22	0	0	4.4	-0.8
GSM	99	V	300-150	67	0	0	4.0	-0.3
GTI	99	V	300-150	2753	0	0	3.3	-0.2
GTR	99	V	300-150	111	0	0	4.0	0.5
HGO	99	V	300-150	45	0	0	4.8	1.1
HKC	99	V	300-150	310	0	0	4.7	0.7
HLF	99	V	300-150	97	0	0	4.0	1.0
HRN	99	V	300-150	25	0	0	3.3	-1.0
HRT	99	V	300-150	44	0	0	3.1	0.8
HTT	99	V	300-150	71	0	0	7.1	1.2
HUE	99	V	300-150	94	0	0	3.9	0.6
HUF	99	V	300-150	37	0	0	2.6	1.1
HVN	99	V	300-150	1867	1	0	5.3	0.5
HYS	99	V	300-150	611	0	0	3.0	0.2
IBE	99	V	300-150	7440	0	0	3.4	0.2
ICE	99	V	300-150	13371	0	0	3.0	0.0
ICL	99	V	300-150	682	0	0	3.2	0.0
ICV	99	V	300-150	139	0	0	4.5	-2.0
IFA	99	V	300-150	755	0	0	3.2	0.1
IGA	99	V	300-150	54	0	0	3.4	-0.6
IJM	99	V	300-150	89	0	0	2.8	-0.2
IND	99	V	300-150	49	0	0	3.7	0.5
ITY	99	V	300-150	9538	0	0	3.0	0.2
JAL	99	V	300-150	264	0	0	5.9	0.4
JAS	99	V	300-150	116	0	0	3.1	0.0
JBD	99	V	300-150	67	0	0	3.5	-0.3
JBU	99	V	300-150	13954	0	0	3.0	0.2
JCO	99	V	300-150	101	0	0	3.3	1.5
JDI	99	V	300-150	66	0	0	2.9	0.6

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
JEN	99	V	300-150	37	0	0	3.1	-0.1
JME	99	V	300-150	34	0	0	3.0	0.4
JML	99	V	300-150	42	0	0	2.7	0.3
JNY	99	V	300-150	70	0	0	6.5	2.0
JST	99	V	300-150	1801	0	0	3.3	0.5
JTH	99	V	300-150	20	0	0	5.2	0.4
JVW	99	V	300-150	33	0	0	3.3	-0.2
KAC	99	V	300-150	1015	0	0	4.5	0.5
KAF	99	V	300-150	111	0	0	5.3	1.1
KAI	99	V	300-150	147	0	1	4.2	0.4
KAL	99	V	300-150	430	0	0	4.8	0.2
KAY	99	V	300-150	315	0	0	3.2	0.1
KCE	99	V	300-150	32	0	0	2.8	-0.3
KFE	99	V	300-150	20	0	0	2.5	0.2
KIW	99	V	300-150	92	0	0	4.4	-0.3
KLM	99	V	300-150	20875	2	0	4.6	0.1
KNE	99	V	300-150	49	0	0	4.1	0.6
KPO	99	V	300-150	28	0	0	2.8	0.5
KQA	99	V	300-150	92	0	0	7.0	2.0
KUG	99	V	300-150	49	0	0	3.8	0.4
LAN	99	V	300-150	38	0	0	3.4	1.1
LCO	99	V	300-150	642	0	0	3.3	-0.8
LDX	99	V	300-150	55	0	0	3.5	-0.3
LEA	99	V	300-150	55	0	0	3.6	0.3
LNK	99	V	300-150	118	0	0	3.2	0.1
LOT	99	V	300-150	5612	2	0	5.2	-0.2
LSI	99	V	300-150	80	0	0	3.4	-0.4
LSM	99	V	300-150	36	0	0	2.5	0.2
LTG	99	V	300-150	249	0	0	3.0	-0.8
LUA	99	V	300-150	54	0	0	4.3	0.7
LVL	99	V	300-150	1816	0	0	3.6	0.5
LXJ	99	V	300-150	1089	0	0	2.9	0.3
MAS	99	V	300-150	2991	0	0	5.2	0.7
MTX	99	V	300-150	250	0	0	4.5	0.9
MLM	99	V	300-150	108	0	0	3.0	0.2
MMD	99	V	300-150	249	0	0	3.5	0.0
MMF	99	V	300-150	35	0	0	3.1	1.1
MNB	99	V	300-150	683	0	0	3.6	0.2
MPH	99	V	300-150	349	0	0	3.1	0.0
MSR	99	V	300-150	3499	2	0	5.1	-0.1
MVJ	99	V	300-150	81	0	0	2.6	0.2
MXD	99	V	300-150	539	0	0	5.5	0.5
NBT	99	V	300-150	1903	6	0	6.2	-0.1

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
NCR	99	V	300-150	709	0	0	3.6	-0.1
NJE	99	V	300-150	580	0	0	3.2	0.1
NJU	99	V	300-150	24	0	0	3.2	0.0
NOJ	99	V	300-150	85	0	0	3.5	-1.0
NOS	99	V	300-150	1046	4	0	6.2	0.0
NUM	99	V	300-150	113	0	0	2.9	-0.1
OAE	99	V	300-150	44	0	0	4.3	0.5
OCN	99	V	300-150	5573	0	0	3.0	0.1
OLI	99	V	300-150	34	0	0	3.4	0.8
OMA	99	V	300-150	1174	0	0	5.9	0.7
PAL	99	V	300-150	731	0	0	5.4	0.7
PEX	99	V	300-150	23	0	0	2.7	0.0
PGQ	99	V	300-150	40	0	0	3.0	0.4
PIA	99	V	300-150	66	0	0	2.6	0.3
PLF	99	V	300-150	47	0	0	3.1	-0.2
PRD	99	V	300-150	67	0	0	3.2	0.9
PVA	99	V	300-150	181	0	0	3.1	0.0
QAF	99	V	300-150	46	0	0	3.9	-0.4
QFA	99	V	300-150	5555	1	0	4.3	0.2
QID	99	V	300-150	28	0	0	3.5	2.1
QLK	99	V	300-150	152	0	0	3.4	0.5
QQE	99	V	300-150	594	0	0	3.5	0.2
QTR	99	V	300-150	20927	0	0	3.9	0.2
RAM	99	V	300-150	1165	8	0	6.1	0.2
RBA	99	V	300-150	116	0	1	5.7	0.7
RBI	99	V	300-150	31	0	0	3.2	0.9
RCH	99	V	300-150	4946	0	0	4.2	0.4
RJA	99	V	300-150	3855	3	0	5.7	-0.1
RKK	99	V	300-150	28	0	0	3.2	-1.4
ROJ	99	V	300-150	41	0	0	2.9	0.2
ROU	99	V	300-150	1390	0	0	3.1	0.1
RRR	99	V	300-150	149	0	0	3.4	1.2
RSF	99	V	300-150	35	0	0	3.4	0.8
RXI	99	V	300-150	318	0	0	5.5	0.4
RYR	99	V	300-150	357	0	0	3.0	0.1
RZO	99	V	300-150	619	0	0	4.0	0.7
SAM	99	V	300-150	140	0	0	3.5	-0.2
SAS	99	V	300-150	6716	0	0	2.8	0.1
SAZ	99	V	300-150	43	0	0	4.3	0.4
SCX	99	V	300-150	55	2	2	4.5	0.8
SDE	99	V	300-150	40	0	0	3.3	0.5
SIA	99	V	300-150	14152	0	0	4.7	0.5
SIO	99	V	300-150	44	0	0	3.2	-0.1

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
SJX	99	V	300-150	224	0	0	4.2	0.5
SKV	99	V	300-150	89	0	0	2.9	0.5
SLM	99	V	300-150	135	0	0	4.1	0.5
SON	99	V	300-150	103	0	0	3.1	0.0
SPA	99	V	300-150	146	0	0	3.4	-0.4
SPM	99	V	300-150	195	0	0	2.9	0.3
SVA	99	V	300-150	5265	1	0	4.6	0.3
SVW	99	V	300-150	287	0	0	2.8	0.1
SWR	99	V	300-150	13844	0	0	3.2	0.2
SWW	99	V	300-150	55	0	0	4.5	-0.4
SYB	99	V	300-150	235	0	0	3.8	0.4
TAI	99	V	300-150	67	0	0	2.9	0.9
TAM	99	V	300-150	124	2	0	4.5	0.7
TAP	99	V	300-150	4651	0	0	3.4	0.5
TAR	99	V	300-150	574	0	0	3.1	0.2
TAX	99	V	300-150	315	0	0	5.1	0.4
TAY	99	V	300-150	42	0	0	5.6	3.5
TCJ	99	V	300-150	31	0	0	3.9	0.0
TFF	99	V	300-150	109	0	0	3.9	0.2
TFL	99	V	300-150	1405	4	0	6.9	-0.2
TGW	99	V	300-150	729	1	0	5.5	0.3
THA	99	V	300-150	5882	0	0	4.7	0.5
THT	99	V	300-150	2401	1	0	4.8	0.0
THY	99	V	300-150	25501	1	0	4.5	0.2
TMN	99	V	300-150	338	0	0	3.7	0.3
TOM	99	V	300-150	4943	3	0	6.2	-0.1
TOR	99	V	300-150	178	0	0	3.1	-0.1
TSC	99	V	300-150	27580	0	0	3.1	0.2
TUA	99	V	300-150	172	0	0	4.0	0.9
TVR	99	V	300-150	59	0	0	4.5	1.1
TVS	99	V	300-150	99	0	0	3.6	0.4
TWY	99	V	300-150	807	0	0	3.3	0.0
UAE	99	V	300-150	19640	0	0	3.8	0.1
UAF	99	V	300-150	44	0	0	4.1	0.0
UAG	99	V	300-150	81	0	0	6.7	3.3
UAL	99	V	300-150	94960	1	1	4.3	0.0
UBT	99	V	300-150	1945	4	0	6.1	0.0
ULC	99	V	300-150	216	0	0	3.1	0.4
UPS	99	V	300-150	5078	0	0	3.4	-0.1
UZB	99	V	300-150	592	1	0	6.2	1.0
VAJ	99	V	300-150	30	0	0	4.1	0.0
VAL	99	V	300-150	58	0	0	3.8	0.2
VCG	99	V	300-150	49	0	0	3.7	0.1

AIREP MONITORING STATISTICS FOR AIRLINE CARRIERS
(CONTINUED)

IDENT	OBS TIME	ELM	LEVEL	NUM OBS	% GROSS	% CALM	VECTOR RMS	SPEE D BIAS
VCJ	99	V	300-150	199	0	0	2.7	0.3
VHA	99	V	300-150	89	0	1	3.0	0.5
VIR	99	V	300-150	25053	1	0	3.8	0.1
VJA	99	V	300-150	216	0	0	3.4	0.4
VJH	99	V	300-150	39	0	0	7.0	0.3
VJT	99	V	300-150	2386	0	0	3.1	0.4
VOZ	99	V	300-150	774	0	0	3.2	0.2
VSV	99	V	300-150	82	0	0	4.3	0.6
WFL	99	V	300-150	84	0	0	3.9	0.5
WJA	99	V	300-150	11182	1	0	4.1	0.1
WMN	99	V	300-150	73	0	0	4.0	1.4
WWI	99	V	300-150	153	0	0	4.2	1.0
XAX	99	V	300-150	748	0	0	5.5	1.0
XFL	99	V	300-150	59	0	0	4.5	1.3
YZR	99	V	300-150	33	0	0	4.6	0.8

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	50	31	4.6	2.8
01001	12	Z	50	30	8.2	-6.6
01028	12	Z	50	29	5.9	-4.5
01028	00	Z	50	31	6.6	-3.8
01400	00	Z	50	26	76.9	72.6
01400	12	Z	50	29	62.9	57.4
01415	00	Z	50	31	9.0	2.9
01415	12	Z	50	31	7.2	-3.0
02591	12	Z	50	20	7.3	-4.6
02591	00	Z	50	8	9.0	6.7
02836	12	Z	50	32	9.6	-7.7
02836	00	Z	50	30	5.0	-3.1
02963	12	Z	50	29	9.3	-7.6
02963	00	Z	50	31	4.8	-1.2
03005	00	Z	50	31	5.5	-3.4
03005	12	Z	50	30	9.3	-6.4
03238	00	Z	50	29	6.0	-0.9
03238	12	Z	50	1	9.9	-9.9
03808	12	Z	50	31	9.1	-6.9
03808	00	Z	50	29	5.8	-0.4
03918	00	Z	50	31	7.5	-2.2
03918	12	Z	50	3	10.8	-7.6
03953	12	Z	50	33	7.2	0.0
03953	00	Z	50	31	15.3	1.4
04018	12	Z	50	29	9.2	-7.6
04018	00	Z	50	25	10.5	-4.9
04220	00	Z	50	30	19.7	-17.0
04220	12	Z	50	29	16.4	-13.9
04270	00	Z	50	30	24.1	-22.0
04270	12	Z	50	31	28.9	-24.5
04320	12	Z	50	31	21.8	-16.8
04320	00	Z	50	30	14.6	-13.9
04339	12	Z	50	28	33.7	-33.1
04339	00	Z	50	31	23.9	-22.8
04360	00	Z	50	26	42.3	-41.0
04360	12	Z	50	27	36.0	-33.4
06011	12	Z	50	29	16.7	-5.8
06260	12	Z	50	4	5.9	-3.5
06260	00	Z	50	31	6.4	-0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	50	31	8.4	-4.1
06610	00	Z	50	32	5.5	0.9
07110	12	Z	50	31	14.0	-5.7
07110	00	Z	50	30	9.2	-2.9
07510	12	Z	50	27	21.2	1.2
07510	00	Z	50	30	10.5	0.8
07645	12	Z	50	31	56.6	-55.9
07645	00	Z	50	30	49.6	-48.9
07761	12	Z	50	23	19.8	-15.8
07761	00	Z	50	20	20.0	-16.0
08001	00	Z	50	31	7.1	4.2
08001	12	Z	50	31	6.3	-3.5
08221	00	Z	50	31	6.9	4.1
08221	12	Z	50	31	6.5	-4.1
08302	00	Z	50	31	6.5	-3.3
08302	12	Z	50	30	16.4	-15.7
08508	12	Z	50	30	12.7	-11.8
08522	12	Z	50	30	8.0	-6.4
10035	00	Z	50	31	4.6	-2.0
10035	12	Z	50	31	12.3	-11.4
10393	00	Z	50	31	5.8	0.6
10393	12	Z	50	31	9.6	-5.8
10410	00	Z	50	27	5.9	-2.3
10410	12	Z	50	30	11.2	-9.8
10739	00	Z	50	31	14.6	-13.6
10739	12	Z	50	31	24.7	-23.4
11035	00	Z	50	30	65.1	12.5
11035	12	Z	50	31	13.5	-10.3
12982	12	Z	50	31	6.5	-4.4
12982	00	Z	50	31	7.3	2.5
16245	00	Z	50	27	6.6	3.7
16245	12	Z	50	28	6.6	-5.8
16429	12	Z	50	30	6.5	-4.7
16429	00	Z	50	30	10.2	9.0
17607	12	Z	50	29	5.1	2.5
17607	00	Z	50	10	11.8	11.1
26435	12	Z	50	3	8.6	-8.5
2TDJJ8	12	Z	50	20	11.2	10.7
60018	12	Z	50	31	7.5	-6.4
60018	00	Z	50	31	7.8	6.5
7JUNA4	12	Z	50	2	22.9	10.2
7JUNA4	00	Z	50	7	17.1	12.6
9ZT9MR	12	Z	50	6	19.4	-16.4

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	00	Z	50	4	27.4	-24.2
ASDE09	12	Z	50	2	16.0	-12.6
ATGU3F	12	Z	50	8	33.9	-30.8
ATGU3F	00	Z	50	7	43.4	-41.7
CMA	12	Z	50	0	0.0	0.0
CMA	00	Z	50	0	0.0	0.0
GQBZLZ	12	Z	50	1	31.9	-31.9
GQBZLZ	00	Z	50	0	0.0	0.0
JNKN7J	12	Z	50	10	13.7	10.3
JNKN7J	00	Z	50	8	28.7	27.2
KMPLHP	12	Z	50	7	106.4	85.2
KMPLHP	00	Z	50	8	13.9	-4.4
LAGY8	00	Z	50	2	51.9	-51.4
LAGY8	12	Z	50	2	21.3	-19.7
LAGZ8	12	Z	50	2	80.3	78.7
LRYQE3	12	Z	50	8	178.0	174.4
LRYQE3	00	Z	50	9	20.1	-14.8
SMLQ	12	Z	50	19	7.1	3.3
SMLQ	00	Z	50	17	18.2	9.8
TLH	12	Z	50	0	0.0	0.0
TLH	00	Z	50	0	0.0	0.0
WDK38H	12	Z	50	29	13.4	-12.1
WFF	12	Z	50	0	0.0	0.0
WFF	00	Z	50	0	0.0	0.0
XKQLWQ	12	Z	50	20	17.9	15.4
YLV96W	12	Z	50	6	62.3	35.4
YLV96W	00	Z	50	7	9.2	-5.7

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	50	26	2.1	-0.3	-0.5
01001	12	V	50	29	2.1	-0.2	-0.5
01028	12	V	50	28	2.8	0.1	-0.5
01028	00	V	50	23	2.3	0.4	-0.4
01400	00	V	50	24	2.7	0.0	0.4
01400	12	V	50	29	3.1	0.3	0.1
01415	00	V	50	26	3.1	-0.1	0.2
01415	12	V	50	31	2.8	0.2	0.5
02591	12	V	50	20	3.0	0.0	-1.0
02591	00	V	50	5	3.9	-0.2	-2.0
02836	12	V	50	4	4.7	0.0	-2.1
02836	00	V	50	0	0.0	0.0	0.0
02963	12	V	50	12	2.6	0.4	-1.2
02963	00	V	50	0	0.0	0.0	0.0
03005	00	V	50	27	3.0	0.1	-0.1
03005	12	V	50	30	2.8	0.3	-0.1
03238	00	V	50	26	2.9	-0.5	-0.1
03238	12	V	50	1	4.0	-0.7	-3.9
03808	12	V	50	31	3.1	0.0	0.6
03808	00	V	50	25	2.9	0.1	0.0
03918	00	V	50	25	3.2	-1.0	-0.3
03918	12	V	50	3	1.7	0.3	-0.5
03953	12	V	50	31	2.7	-0.3	-0.6
03953	00	V	50	27	2.8	-0.2	-0.4
04018	12	V	50	29	2.6	0.2	0.5
04018	00	V	50	21	2.8	0.4	-0.2
04220	00	V	50	25	2.0	0.5	0.0
04220	12	V	50	29	2.2	0.4	0.4
04270	00	V	50	27	3.0	0.4	-0.6
04270	12	V	50	31	2.8	0.0	-0.7
04320	12	V	50	31	2.1	0.2	0.2
04320	00	V	50	27	1.8	0.1	0.2
04339	12	V	50	28	2.1	-0.6	0.2
04339	00	V	50	25	2.1	-0.4	-0.3
04360	00	V	50	23	2.5	0.7	-0.2
04360	12	V	50	27	2.2	-0.1	0.4
06011	12	V	50	29	2.8	-0.2	0.0
06260	12	V	50	4	3.0	-0.2	-1.3
06260	00	V	50	30	2.9	-0.3	-0.6

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	50	31	3.5	-0.4	-0.2
06610	00	V	50	27	3.3	-0.3	-0.5
07110	12	V	50	31	3.0	0.2	-0.2
07110	00	V	50	27	3.0	-0.2	0.1
07510	12	V	50	27	3.2	0.0	0.2
07510	00	V	50	26	3.4	-0.2	0.4
07645	12	V	50	31	3.2	-0.5	0.2
07645	00	V	50	26	3.2	-0.6	0.0
07761	12	V	50	23	2.7	0.0	-0.6
07761	00	V	50	19	3.3	0.4	-0.1
08001	00	V	50	25	3.0	0.4	0.0
08001	12	V	50	31	3.1	0.3	0.7
08221	00	V	50	26	3.1	0.6	0.0
08221	12	V	50	31	3.8	0.3	-0.6
08302	00	V	50	24	3.7	-0.5	-0.4
08302	12	V	50	30	3.5	-0.3	-0.4
08508	12	V	50	30	2.5	-0.1	0.2
08522	12	V	50	29	3.3	0.2	-0.3
10035	00	V	50	31	3.0	0.6	-0.1
10035	12	V	50	31	2.6	-0.4	-0.2
10393	00	V	50	31	3.0	0.0	-0.6
10393	12	V	50	31	3.0	-0.3	0.4
10410	00	V	50	27	3.1	0.4	0.1
10410	12	V	50	30	3.4	0.2	-1.1
10739	00	V	50	30	3.5	-0.5	0.4
10739	12	V	50	31	3.3	-0.2	-0.1
11035	00	V	50	26	3.1	0.1	-0.2
11035	12	V	50	31	2.8	0.3	0.2
12982	12	V	50	31	3.2	-0.2	-0.1
12982	00	V	50	26	3.3	0.6	0.1
16245	00	V	50	25	2.8	0.5	0.3
16245	12	V	50	28	3.3	-0.1	0.0
16429	12	V	50	30	3.8	-0.2	0.8
16429	00	V	50	23	3.5	-0.4	-0.3
17607	12	V	50	29	3.7	-0.3	0.6
17607	00	V	50	10	2.7	0.1	0.2
26435	12	V	50	1	2.7	0.3	-2.7
2TDJJ8	12	V	50	20	2.1	0.2	0.4
60018	12	V	50	30	3.2	-0.2	0.2
60018	00	V	50	26	3.3	-0.9	0.5
7JUNA4	12	V	50	2	4.0	1.9	1.1
7JUNA4	00	V	50	7	2.8	0.4	-0.5
9ZT9MR	12	V	50	6	3.1	1.0	-0.3

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	00	V	50	4	2.9	-0.6	-1.6
ASDE09	12	V	50	2	2.5	-0.8	2.2
ATGU3F	12	V	50	8	2.4	0.3	-0.7
ATGU3F	00	V	50	7	2.4	0.6	-0.2
CMA	12	V	50	0	0.0	0.0	0.0
CMA	00	V	50	0	0.0	0.0	0.0
GQBZLZ	12	V	50	1	3.1	-0.1	-3.1
GQBZLZ	00	V	50	0	0.0	0.0	0.0
JNKN7J	12	V	50	10	1.9	-0.5	0.3
JNKN7J	00	V	50	8	2.1	-0.2	-0.7
KMPLHP	12	V	50	7	2.6	1.2	1.6
KMPLHP	00	V	50	8	2.7	1.2	-0.5
LAGY8	00	V	50	2	3.0	-1.0	-1.3
LAGY8	12	V	50	2	3.6	-1.1	1.8
LAGZ8	12	V	50	2	3.5	-1.3	0.0
LRYQE3	12	V	50	8	3.1	0.7	-0.3
LRYQE3	00	V	50	9	2.6	1.2	0.8
SMLQ	12	V	50	19	2.4	0.5	-0.5
SMLQ	00	V	50	17	2.2	-0.4	-0.3
TLH	12	V	50	0	0.0	0.0	0.0
TLH	00	V	50	0	0.0	0.0	0.0
WDK38H	12	V	50	28	2.0	0.1	-0.1
WFF	12	V	50	0	0.0	0.0	0.0
WFF	00	V	50	0	0.0	0.0	0.0
XKQLWQ	12	V	50	20	3.2	-0.1	-0.2
YLV96W	12	V	50	6	2.1	-0.3	-0.3
YLV96W	00	V	50	7	2.7	0.6	-0.1

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	100	31	3.8	2.0
01001	12	Z	100	30	8.9	-7.3
01028	12	Z	100	31	5.3	-3.9
01028	00	Z	100	31	7.2	-5.1
01400	00	Z	100	27	75.1	70.7
01400	12	Z	100	30	65.1	60.1
01415	00	Z	100	31	5.3	1.1
01415	12	Z	100	31	6.2	-2.8
02591	12	Z	100	21	5.4	-2.6
02591	00	Z	100	12	7.8	6.8
02836	12	Z	100	32	7.3	-6.3
02836	00	Z	100	31	4.7	-3.6
02963	12	Z	100	29	7.2	-6.4
02963	00	Z	100	31	5.0	-2.4
03005	00	Z	100	31	5.7	-4.6
03005	12	Z	100	31	7.7	-6.5
03238	00	Z	100	29	5.4	-2.7
03238	12	Z	100	0	0.0	0.0
03808	12	Z	100	31	7.5	-5.8
03808	00	Z	100	29	5.1	-2.2
03918	00	Z	100	31	7.1	-4.0
03918	12	Z	100	3	7.7	-5.2
03953	12	Z	100	33	7.0	0.3
03953	00	Z	100	31	15.0	-0.2
04018	12	Z	100	31	7.7	-6.6
04018	00	Z	100	27	5.6	-3.7
04220	00	Z	100	31	16.1	-14.2
04220	12	Z	100	30	12.5	-11.0
04270	00	Z	100	30	20.1	-18.7
04270	12	Z	100	31	21.0	-19.2
04320	12	Z	100	31	14.0	-10.3
04320	00	Z	100	31	11.1	-10.6
04339	12	Z	100	29	27.2	-26.7
04339	00	Z	100	31	20.9	-20.2
04360	00	Z	100	27	34.6	-34.0
04360	12	Z	100	30	29.8	-27.7
06011	12	Z	100	30	10.7	-5.1
06260	12	Z	100	4	4.1	-1.1
06260	00	Z	100	31	4.9	-0.8

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	100	31	6.4	-3.0
06610	00	Z	100	32	5.6	-0.5
07110	12	Z	100	31	10.1	-3.3
07110	00	Z	100	30	6.9	-2.1
07510	12	Z	100	31	13.0	-0.1
07510	00	Z	100	30	9.8	0.4
07645	12	Z	100	31	42.7	-42.2
07645	00	Z	100	31	39.4	-38.9
07761	12	Z	100	25	17.9	-15.7
07761	00	Z	100	24	17.5	-15.6
08001	00	Z	100	31	5.9	4.1
08001	12	Z	100	31	4.9	-2.4
08221	00	Z	100	31	6.0	3.7
08221	12	Z	100	31	5.4	-0.9
08302	00	Z	100	31	7.2	-4.5
08302	12	Z	100	30	14.1	-13.7
08508	12	Z	100	31	6.6	-5.5
08522	12	Z	100	30	4.3	-1.5
10035	00	Z	100	31	4.9	-2.3
10035	12	Z	100	31	10.2	-9.4
10393	00	Z	100	31	5.5	0.2
10393	12	Z	100	31	6.6	-4.3
10410	00	Z	100	27	5.7	-2.7
10410	12	Z	100	30	9.9	-8.5
10739	00	Z	100	31	13.4	-12.2
10739	12	Z	100	31	22.1	-21.2
11035	00	Z	100	30	42.7	8.7
11035	12	Z	100	32	8.6	-6.0
12982	12	Z	100	31	5.2	-2.7
12982	00	Z	100	31	6.5	2.2
16245	00	Z	100	27	5.5	2.5
16245	12	Z	100	28	4.9	-3.8
16429	12	Z	100	30	4.7	-2.8
16429	00	Z	100	30	7.3	5.9
17607	12	Z	100	30	7.1	5.9
17607	00	Z	100	10	11.6	10.2
26435	12	Z	100	11	12.5	-10.1
2TDJJ8	12	Z	100	20	12.1	11.7
60018	12	Z	100	31	4.4	-0.9
60018	00	Z	100	31	7.8	7.1
7JUNA4	12	Z	100	3	24.9	17.1
7JUNA4	00	Z	100	7	15.5	9.3
9ZT9MR	12	Z	100	6	18.6	-17.8

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	00	Z	100	5	22.3	-19.4
ASDE09	12	Z	100	2	15.2	-10.0
ATGU3F	12	Z	100	8	29.1	-25.0
ATGU3F	00	Z	100	7	35.0	-33.6
CMA	12	Z	100	0	0.0	0.0
CMA	00	Z	100	0	0.0	0.0
GQBZLZ	12	Z	100	0	0.0	0.0
GQBZLZ	00	Z	100	0	0.0	0.0
JNKN7J	12	Z	100	10	17.8	16.4
JNKN7J	00	Z	100	8	28.0	26.3
KMPLHP	12	Z	100	6	52.3	43.0
KMPLHP	00	Z	100	8	9.6	-3.9
LAGY8	00	Z	100	2	48.8	-48.8
LAGY8	12	Z	100	2	28.7	-28.4
LAGZ8	12	Z	100	2	74.6	72.3
LRYPE3	12	Z	100	9	100.1	93.9
LRYPE3	00	Z	100	9	11.2	-8.4
SMLQ	12	Z	100	19	5.4	0.8
SMLQ	00	Z	100	18	12.2	5.0
TLH	12	Z	100	0	0.0	0.0
TLH	00	Z	100	0	0.0	0.0
WDK38H	12	Z	100	29	15.4	-14.7
WFF	12	Z	100	0	0.0	0.0
WFF	00	Z	100	0	0.0	0.0
XKQLWQ	12	Z	100	21	13.8	12.5
YLV96W	12	Z	100	7	25.0	14.0
YLV96W	00	Z	100	7	8.5	-4.7

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	100	27	2.5	0.2	0.2
01001	12	V	100	30	2.1	-0.5	0.1
01028	12	V	100	31	2.2	-0.2	0.2
01028	00	V	100	23	2.3	-0.4	0.2
01400	00	V	100	24	2.3	0.3	-0.1
01400	12	V	100	29	2.5	0.5	-0.2
01415	00	V	100	29	2.0	0.6	0.0
01415	12	V	100	31	2.8	-0.2	-0.3
02591	12	V	100	21	2.6	-0.2	-0.1
02591	00	V	100	11	2.0	-0.3	0.3
02836	12	V	100	12	3.1	0.5	-0.6
02836	00	V	100	0	0.0	0.0	0.0
02963	12	V	100	17	1.9	-0.4	0.0
02963	00	V	100	0	0.0	0.0	0.0
03005	00	V	100	28	2.2	-0.3	-0.1
03005	12	V	100	31	2.5	0.2	-0.4
03238	00	V	100	26	2.9	0.6	0.4
03238	12	V	100	0	0.0	0.0	0.0
03808	12	V	100	31	2.6	0.3	0.0
03808	00	V	100	25	2.5	0.3	-0.1
03918	00	V	100	26	2.7	-0.2	0.2
03918	12	V	100	3	2.8	0.6	-1.4
03953	12	V	100	31	2.6	-0.2	0.4
03953	00	V	100	28	2.5	0.6	-0.2
04018	12	V	100	31	2.3	-0.1	0.6
04018	00	V	100	26	2.3	0.5	-0.3
04220	00	V	100	29	2.3	-0.8	-0.1
04220	12	V	100	30	1.9	-0.2	0.5
04270	00	V	100	30	2.4	0.1	-0.1
04270	12	V	100	31	2.5	-0.2	0.3
04320	12	V	100	31	2.4	0.0	0.1
04320	00	V	100	31	2.5	0.6	0.2
04339	12	V	100	29	2.1	0.2	0.4
04339	00	V	100	31	2.5	-0.4	-0.3
04360	00	V	100	27	2.2	-0.1	-0.1
04360	12	V	100	30	2.5	0.1	0.2
06011	12	V	100	30	2.1	-0.1	-0.1
06260	12	V	100	4	2.7	-1.1	1.3
06260	00	V	100	30	2.8	0.2	-0.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	100	31	3.8	-0.4	-0.2
06610	00	V	100	31	3.5	-0.2	-0.7
07110	12	V	100	31	2.7	0.2	0.8
07110	00	V	100	28	3.1	0.1	0.0
07510	12	V	100	31	3.3	0.5	-0.5
07510	00	V	100	26	3.1	-0.8	0.5
07645	12	V	100	31	4.0	0.5	0.4
07645	00	V	100	27	3.3	0.4	-0.1
07761	12	V	100	25	3.6	0.8	0.5
07761	00	V	100	22	4.3	0.3	0.6
08001	00	V	100	27	3.0	0.5	0.2
08001	12	V	100	31	3.2	-0.5	0.4
08221	00	V	100	30	4.2	-0.8	-0.5
08221	12	V	100	31	3.8	0.1	-0.1
08302	00	V	100	25	4.5	0.7	0.3
08302	12	V	100	30	3.7	0.7	0.1
08508	12	V	100	31	4.1	-0.8	0.9
08522	12	V	100	30	3.0	0.2	0.1
10035	00	V	100	31	3.0	-0.4	-0.5
10035	12	V	100	31	2.7	0.1	0.1
10393	00	V	100	31	3.0	-0.3	0.1
10393	12	V	100	31	3.3	0.2	0.0
10410	00	V	100	27	3.3	0.6	-0.8
10410	12	V	100	30	2.8	-0.3	0.3
10739	00	V	100	30	4.3	0.5	-0.1
10739	12	V	100	31	3.6	-0.2	0.6
11035	00	V	100	26	3.5	0.3	-0.5
11035	12	V	100	31	3.7	-0.4	0.0
12982	12	V	100	31	3.4	-0.6	0.4
12982	00	V	100	31	3.2	0.8	0.2
16245	00	V	100	27	3.5	0.4	-0.4
16245	12	V	100	28	3.9	0.1	0.8
16429	12	V	100	30	3.4	-0.6	0.2
16429	00	V	100	29	3.7	0.9	1.1
17607	12	V	100	30	3.4	0.4	0.5
17607	00	V	100	10	3.4	0.4	0.8
26435	12	V	100	7	8.5	3.0	1.2
2TDJJ8	12	V	100	20	2.2	0.1	0.5
60018	12	V	100	31	3.2	-0.9	0.7
60018	00	V	100	27	3.0	-0.5	0.6
7JUNA4	12	V	100	3	1.0	0.4	-0.3
7JUNA4	00	V	100	7	2.9	-0.3	0.0
9ZT9MR	12	V	100	6	2.3	-0.2	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	00	V	100	5	3.3	0.6	-0.2
ASDE09	12	V	100	2	2.2	0.8	-0.2
ATGU3F	12	V	100	8	2.3	0.0	0.0
ATGU3F	00	V	100	7	2.1	-0.1	1.1
CMA	12	V	100	0	0.0	0.0	0.0
CMA	00	V	100	0	0.0	0.0	0.0
GQBZLZ	12	V	100	0	0.0	0.0	0.0
GQBZLZ	00	V	100	0	0.0	0.0	0.0
JNKN7J	12	V	100	10	2.6	0.8	0.5
JNKN7J	00	V	100	8	3.5	1.5	-1.2
KMPLHP	12	V	100	6	3.2	-1.0	0.7
KMPLHP	00	V	100	8	2.9	0.2	0.8
LAGY8	00	V	100	2	5.1	-3.6	0.9
LAGY8	12	V	100	2	1.6	0.4	0.0
LAGZ8	12	V	100	2	1.0	-0.3	0.6
LRYQE3	12	V	100	9	3.1	0.4	0.8
LRYQE3	00	V	100	9	2.2	-0.1	-0.1
SMLQ	12	V	100	19	2.4	-0.1	0.2
SMLQ	00	V	100	18	2.3	-0.6	0.3
TLH	12	V	100	0	0.0	0.0	0.0
TLH	00	V	100	0	0.0	0.0	0.0
WDK38H	12	V	100	29	2.1	-0.1	0.7
WFF	12	V	100	0	0.0	0.0	0.0
WFF	00	V	100	0	0.0	0.0	0.0
XKQLWQ	12	V	100	21	3.7	0.1	1.5
YLV96W	12	V	100	7	2.2	-0.1	-0.6
YLV96W	00	V	100	7	2.5	0.6	-0.2

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	500	31	7.5	7.1
01001	12	Z	500	30	4.7	-2.4
01028	12	Z	500	31	2.4	0.3
01028	00	Z	500	31	3.0	0.5
01400	00	Z	500	29	75.4	71.6
01400	12	Z	500	31	71.8	67.3
01415	00	Z	500	31	4.0	2.9
01415	12	Z	500	31	3.5	2.4
02591	12	Z	500	21	7.0	6.6
02591	00	Z	500	22	7.7	7.4
02836	12	Z	500	32	2.9	-0.7
02836	00	Z	500	31	2.1	0.6
02963	12	Z	500	29	2.1	0.5
02963	00	Z	500	31	2.4	0.6
03005	00	Z	500	31	2.7	-1.2
03005	12	Z	500	31	2.8	-1.2
03238	00	Z	500	29	3.1	2.3
03238	12	Z	500	0	0.0	0.0
03808	12	Z	500	31	2.4	0.8
03808	00	Z	500	29	3.1	2.6
03918	00	Z	500	31	3.0	0.6
03918	12	Z	500	3	5.1	-3.8
03953	12	Z	500	33	6.9	4.5
03953	00	Z	500	31	8.4	3.7
04018	12	Z	500	31	2.2	-0.5
04018	00	Z	500	29	2.4	1.1
04220	00	Z	500	31	5.0	-1.2
04220	12	Z	500	31	3.7	-0.6
04270	00	Z	500	31	9.4	-8.6
04270	12	Z	500	31	8.7	-7.9
04320	12	Z	500	31	6.9	4.3
04320	00	Z	500	31	4.6	2.3
04339	12	Z	500	30	11.9	-11.2
04339	00	Z	500	31	9.9	-9.5
04360	00	Z	500	27	12.1	-11.7
04360	12	Z	500	30	10.6	-10.3
06011	12	Z	500	32	5.6	2.1
06260	12	Z	500	4	1.2	0.6
06260	00	Z	500	31	3.2	0.6

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	500	32	2.4	0.0
06610	00	Z	500	33	2.3	0.5
07110	12	Z	500	31	7.9	3.7
07110	00	Z	500	31	4.2	3.2
07510	12	Z	500	33	5.6	3.3
07510	00	Z	500	32	6.1	0.0
07645	12	Z	500	31	11.4	-10.9
07645	00	Z	500	31	14.8	-14.4
07761	12	Z	500	30	9.4	-9.0
07761	00	Z	500	31	11.2	-10.9
08001	00	Z	500	31	4.2	4.0
08001	12	Z	500	31	2.6	1.6
08221	00	Z	500	31	4.5	4.0
08221	12	Z	500	31	3.7	3.3
08302	00	Z	500	31	5.9	-4.7
08302	12	Z	500	30	6.4	-5.8
08508	12	Z	500	31	3.1	1.5
08522	12	Z	500	30	4.9	4.6
10035	00	Z	500	31	1.4	0.0
10035	12	Z	500	31	2.1	-0.5
10393	00	Z	500	31	2.8	-0.7
10393	12	Z	500	31	2.8	-0.4
10410	00	Z	500	27	3.0	-1.0
10410	12	Z	500	30	3.0	-2.3
10739	00	Z	500	31	13.7	-13.3
10739	12	Z	500	31	17.2	-16.6
11035	00	Z	500	32	4.3	-0.4
11035	12	Z	500	32	5.9	4.2
12982	12	Z	500	31	3.4	2.6
12982	00	Z	500	31	3.3	2.2
16245	00	Z	500	27	3.9	3.1
16245	12	Z	500	28	3.4	2.8
16429	12	Z	500	30	3.3	3.0
16429	00	Z	500	31	4.4	4.0
17607	12	Z	500	30	6.2	4.9
17607	00	Z	500	10	4.9	4.0
26435	12	Z	500	15	2.0	-0.9
2TDJJ8	12	Z	500	20	18.9	18.7
60018	12	Z	500	31	4.1	2.9
60018	00	Z	500	31	5.5	4.5
7JUNA4	12	Z	500	5	21.0	17.5
7JUNA4	00	Z	500	7	20.3	17.6
9ZT9MR	12	Z	500	6	13.8	-12.8

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	00	Z	500	6	11.4	-10.2
ASDE09	12	Z	500	2	11.0	0.0
ATGU3F	12	Z	500	8	19.3	-10.3
ATGU3F	00	Z	500	7	21.5	-18.4
CMA	12	Z	500	3	29.1	29.1
CMA	00	Z	500	5	25.7	24.6
GQBZLZ	12	Z	500	3	11.2	-10.1
GQBZLZ	00	Z	500	1	25.0	-25.0
JNKN7J	12	Z	500	10	34.4	34.1
JNKN7J	00	Z	500	8	34.3	33.6
KMPLHP	12	Z	500	7	8.0	6.0
KMPLHP	00	Z	500	8	9.1	3.6
LAGY8	00	Z	500	2	41.6	-41.4
LAGY8	12	Z	500	2	49.9	-49.9
LAGZ8	12	Z	500	3	87.0	84.3
LRYQE3	12	Z	500	9	9.9	4.5
LRYQE3	00	Z	500	9	5.3	-2.9
SMLQ	12	Z	500	20	4.4	2.0
SMLQ	00	Z	500	18	4.9	2.4
TLH	12	Z	500	4	17.6	17.4
TLH	00	Z	500	2	22.4	21.9
WDK38H	12	Z	500	30	11.0	-10.5
WFF	12	Z	500	4	27.7	26.7
WFF	00	Z	500	2	19.7	19.4
XKQLWQ	12	Z	500	23	6.7	5.8
YLV96W	12	Z	500	8	7.6	2.9
YLV96W	00	Z	500	7	5.6	0.1

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	500	31	1.8	0.3	-0.3
01001	12	V	500	30	1.7	0.4	0.4
01028	12	V	500	31	1.9	0.2	0.1
01028	00	V	500	31	1.7	0.2	0.1
01400	00	V	500	28	2.2	-0.2	-0.3
01400	12	V	500	31	1.7	0.0	0.5
01415	00	V	500	31	2.3	0.2	0.4
01415	12	V	500	31	2.1	-0.2	0.6
02591	12	V	500	21	2.1	-0.4	0.2
02591	00	V	500	21	1.6	-0.2	0.3
02836	12	V	500	28	2.1	0.2	0.1
02836	00	V	500	30	2.5	-0.2	-0.2
02963	12	V	500	29	2.0	0.3	0.1
02963	00	V	500	30	2.3	0.3	-0.1
03005	00	V	500	31	2.4	-0.2	-0.1
03005	12	V	500	31	2.5	0.5	0.0
03238	00	V	500	29	2.1	0.2	-0.4
03238	12	V	500	0	0.0	0.0	0.0
03808	12	V	500	31	2.6	0.6	0.3
03808	00	V	500	28	2.1	0.0	0.1
03918	00	V	500	31	2.0	0.3	0.3
03918	12	V	500	3	4.1	-0.4	2.3
03953	12	V	500	31	2.2	0.1	0.0
03953	00	V	500	31	2.5	-0.1	0.3
04018	12	V	500	31	2.1	-0.1	0.5
04018	00	V	500	29	1.9	0.1	0.4
04220	00	V	500	31	1.6	0.2	-0.2
04220	12	V	500	31	1.7	0.2	-0.3
04270	00	V	500	31	1.9	0.0	-0.1
04270	12	V	500	31	2.4	0.3	0.6
04320	12	V	500	31	3.0	-0.2	-0.4
04320	00	V	500	31	2.4	-0.3	0.0
04339	12	V	500	30	2.5	0.6	0.0
04339	00	V	500	31	2.3	-0.6	-0.4
04360	00	V	500	27	2.1	0.0	-0.1
04360	12	V	500	30	1.7	-0.2	-0.2
06011	12	V	500	31	2.2	-0.2	0.2
06260	12	V	500	4	2.9	-0.1	-1.6
06260	00	V	500	31	2.3	-0.4	0.0

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	500	31	2.7	0.0	0.2
06610	00	V	500	31	2.5	0.4	-0.5
07110	12	V	500	31	2.2	0.3	0.3
07110	00	V	500	31	2.8	-0.1	0.6
07510	12	V	500	31	1.8	0.1	0.1
07510	00	V	500	31	1.9	0.6	0.0
07645	12	V	500	31	2.0	0.6	0.1
07645	00	V	500	31	2.8	0.8	1.0
07761	12	V	500	28	2.3	0.2	-0.6
07761	00	V	500	28	1.8	-0.1	0.2
08001	00	V	500	31	2.6	0.2	0.6
08001	12	V	500	31	2.1	0.7	0.2
08221	00	V	500	31	2.3	0.5	-0.1
08221	12	V	500	31	1.8	0.1	0.0
08302	00	V	500	31	2.8	0.6	0.3
08302	12	V	500	30	2.1	0.3	-0.3
08508	12	V	500	31	2.7	0.5	-0.1
08522	12	V	500	30	2.0	0.8	0.3
10035	00	V	500	31	2.1	0.3	-0.7
10035	12	V	500	31	2.5	0.2	0.0
10393	00	V	500	31	3.0	-0.1	0.1
10393	12	V	500	31	1.9	-0.1	0.0
10410	00	V	500	27	2.2	0.7	0.4
10410	12	V	500	30	1.6	0.4	-0.2
10739	00	V	500	30	2.6	0.1	0.5
10739	12	V	500	31	2.4	0.2	-0.1
11035	00	V	500	31	2.8	-0.2	0.3
11035	12	V	500	31	2.3	0.2	-0.3
12982	12	V	500	31	2.0	-0.3	0.2
12982	00	V	500	31	2.3	-0.3	0.3
16245	00	V	500	27	2.7	0.4	-0.3
16245	12	V	500	28	2.2	0.2	-0.1
16429	12	V	500	30	2.2	0.5	0.2
16429	00	V	500	30	1.8	0.4	-0.1
17607	12	V	500	30	1.9	0.2	0.2
17607	00	V	500	10	2.0	0.9	0.1
26435	12	V	500	15	2.2	-0.4	1.0
2TDJJ8	12	V	500	20	2.4	-0.7	0.0
60018	12	V	500	31	1.9	-0.1	0.2
60018	00	V	500	31	2.1	0.1	-0.6
7JUNA4	12	V	500	5	1.5	0.0	0.0
7JUNA4	00	V	500	7	2.2	-1.2	0.3
9ZT9MR	12	V	500	6	1.8	1.2	0.1

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	00	V	500	6	2.7	-0.8	0.5
ASDE09	12	V	500	2	1.2	-0.5	0.4
ATGU3F	12	V	500	8	2.7	0.4	0.2
ATGU3F	00	V	500	7	1.9	0.0	-0.3
CMA	12	V	500	3	1.6	0.2	1.1
CMA	00	V	500	5	6.2	-2.3	-1.9
GQBZLZ	12	V	500	3	2.8	0.2	0.8
GQBZLZ	00	V	500	1	1.0	-0.2	-1.0
JNKN7J	12	V	500	10	2.2	-0.4	-0.7
JNKN7J	00	V	500	8	1.1	-0.5	0.4
KMPLHP	12	V	500	7	1.9	-0.8	0.4
KMPLHP	00	V	500	8	2.2	1.3	0.1
LAGY8	00	V	500	2	2.6	1.9	-1.5
LAGY8	12	V	500	2	1.0	-0.4	-0.6
LAGZ8	12	V	500	3	1.3	0.1	0.2
LRYQE3	12	V	500	9	1.6	0.4	0.2
LRYQE3	00	V	500	9	1.6	0.0	0.0
SMLQ	12	V	500	20	6.8	1.2	0.7
SMLQ	00	V	500	18	3.0	-0.3	0.1
TLH	12	V	500	4	3.4	0.5	1.8
TLH	00	V	500	2	3.2	2.7	1.3
WDK38H	12	V	500	30	2.4	-0.4	-0.4
WFF	12	V	500	4	2.9	0.9	0.7
WFF	00	V	500	2	1.2	0.7	-0.3
XKQLWQ	12	V	500	23	2.0	0.2	-0.4
YLV96W	12	V	500	8	2.1	-0.6	-0.5
YLV96W	00	V	500	7	1.8	-0.4	0.1

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
01001	00	Z	850	31	8.0	7.6
01001	12	Z	850	30	4.9	-3.0
01028	12	Z	850	31	2.3	0.3
01028	00	Z	850	31	2.7	0.6
01400	00	Z	850	29	74.7	70.9
01400	12	Z	850	31	71.9	67.6
01415	00	Z	850	31	4.2	3.6
01415	12	Z	850	31	3.4	2.7
02591	12	Z	850	21	5.8	5.5
02591	00	Z	850	22	6.6	6.3
02836	12	Z	850	31	1.8	0.2
02836	00	Z	850	31	1.8	1.1
02963	12	Z	850	29	2.2	1.8
02963	00	Z	850	31	2.0	1.3
03005	00	Z	850	31	2.3	-0.1
03005	12	Z	850	31	3.0	-0.9
03238	00	Z	850	29	3.1	2.6
03238	12	Z	850	0	0.0	0.0
03808	12	Z	850	31	1.9	0.7
03808	00	Z	850	30	1.8	0.5
03918	00	Z	850	31	2.0	0.4
03918	12	Z	850	3	1.2	-0.9
03953	12	Z	850	33	6.1	3.4
03953	00	Z	850	31	5.0	2.7
04018	12	Z	850	31	2.1	0.4
04018	00	Z	850	29	2.5	1.5
04220	00	Z	850	31	2.7	-0.9
04220	12	Z	850	31	3.7	-2.1
04270	00	Z	850	31	11.3	-11.1
04270	12	Z	850	32	11.5	-11.2
04320	12	Z	850	31	4.8	3.2
04320	00	Z	850	31	5.6	4.1
04339	12	Z	850	30	11.7	-11.2
04339	00	Z	850	31	10.8	-10.5
04360	00	Z	850	27	7.0	-6.6
04360	12	Z	850	32	7.7	-7.3
06011	12	Z	850	32	3.1	0.8
06260	12	Z	850	4	2.9	0.5
06260	00	Z	850	31	2.6	-0.9

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
06610	12	Z	850	32	2.5	0.8
06610	00	Z	850	32	2.4	-0.6
07110	12	Z	850	31	2.0	0.3
07110	00	Z	850	32	2.3	-0.5
07510	12	Z	850	33	3.8	-2.8
07510	00	Z	850	32	6.0	-4.6
07645	12	Z	850	31	4.7	-4.3
07645	00	Z	850	32	6.6	-5.9
07761	12	Z	850	30	13.7	-13.5
07761	00	Z	850	31	14.1	-13.8
08001	00	Z	850	31	2.3	1.4
08001	12	Z	850	31	1.7	0.7
08221	00	Z	850	31	1.7	0.9
08221	12	Z	850	31	1.8	1.2
08302	00	Z	850	31	8.8	-8.4
08302	12	Z	850	30	9.1	-8.9
08508	12	Z	850	31	3.1	1.7
08522	12	Z	850	30	2.7	2.2
10035	00	Z	850	31	1.9	-0.9
10035	12	Z	850	31	1.8	-0.9
10393	00	Z	850	32	2.7	-1.7
10393	12	Z	850	31	2.7	-0.3
10410	00	Z	850	27	3.4	-2.7
10410	12	Z	850	30	3.1	-2.2
10739	00	Z	850	31	13.8	-13.3
10739	12	Z	850	31	15.9	-15.5
11035	00	Z	850	32	3.1	-1.0
11035	12	Z	850	32	3.1	1.5
12982	12	Z	850	31	2.5	2.1
12982	00	Z	850	31	2.2	1.2
16245	00	Z	850	27	2.9	2.1
16245	12	Z	850	28	3.4	2.9
16429	12	Z	850	30	2.5	1.7
16429	00	Z	850	31	2.3	2.0
17607	12	Z	850	30	2.6	1.3
17607	00	Z	850	10	2.1	1.1
26435	12	Z	850	15	2.3	0.3
2TDJJ8	12	Z	850	20	17.2	17.0
60018	12	Z	850	31	2.5	-0.7
60018	00	Z	850	31	2.3	0.3
7JUNA4	12	Z	850	5	22.4	18.6
7JUNA4	00	Z	850	7	23.2	20.4
9ZT9MR	12	Z	850	6	13.0	-12.8

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	BIAS
9ZT9MR	00	Z	850	6	11.6	-10.6
ASDE09	12	Z	850	2	12.9	-1.7
ATGU3F	12	Z	850	9	11.4	-7.5
ATGU3F	00	Z	850	8	15.6	-13.5
CMA	12	Z	850	1	21.1	21.1
CMA	00	Z	850	3	25.4	25.2
GQBZLZ	12	Z	850	3	12.2	-10.9
GQBZLZ	00	Z	850	2	15.9	-15.8
JNKN7J	12	Z	850	10	39.6	39.2
JNKN7J	00	Z	850	8	37.7	37.2
KMPLHP	12	Z	850	7	7.0	2.7
KMPLHP	00	Z	850	8	10.7	6.2
LAGY8	00	Z	850	2	47.0	-46.9
LAGY8	12	Z	850	2	50.5	-50.5
LAGZ8	12	Z	850	3	80.2	80.1
LRYPE3	12	Z	850	10	5.2	-3.2
LRYPE3	00	Z	850	9	1.9	-1.1
SMLQ	12	Z	850	20	3.4	1.3
SMLQ	00	Z	850	18	4.1	1.8
TLH	12	Z	850	8	8.2	8.0
TLH	00	Z	850	4	7.3	6.0
WDK38H	12	Z	850	30	9.5	-9.2
WFF	12	Z	850	6	11.7	11.2
WFF	00	Z	850	4	18.7	18.6
XKQLWQ	12	Z	850	23	2.5	-0.2
YLV96W	12	Z	850	8	6.1	2.2
YLV96W	00	Z	850	7	7.6	3.3

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 : AUG 2026
 STANDARD OF COMPARISON: FIRST-GUESS FIELD

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
01001	00	V	850	31	2.4	0.2	-0.2
01001	12	V	850	30	3.6	0.9	0.7
01028	12	V	850	31	2.4	0.2	0.1
01028	00	V	850	31	2.5	-0.3	0.1
01400	00	V	850	28	2.5	-0.3	-0.4
01400	12	V	850	31	1.9	-0.5	-0.4
01415	00	V	850	31	2.7	-0.1	-0.4
01415	12	V	850	31	2.5	0.2	-0.5
02591	12	V	850	21	2.2	0.3	-0.7
02591	00	V	850	21	2.5	0.1	-0.3
02836	12	V	850	31	2.3	0.1	0.0
02836	00	V	850	31	2.2	-0.2	-0.1
02963	12	V	850	29	2.7	-0.8	-0.1
02963	00	V	850	31	2.2	-0.2	-0.1
03005	00	V	850	31	2.1	0.0	-0.2
03005	12	V	850	31	2.7	-0.7	0.4
03238	00	V	850	29	2.6	-0.1	-0.4
03238	12	V	850	0	0.0	0.0	0.0
03808	12	V	850	31	2.5	-0.1	-0.7
03808	00	V	850	29	3.0	0.4	0.1
03918	00	V	850	31	2.1	-0.1	-0.6
03918	12	V	850	3	3.2	0.7	-1.3
03953	12	V	850	31	2.2	-0.1	-0.1
03953	00	V	850	31	2.3	0.1	-0.2
04018	12	V	850	31	2.7	0.3	-0.3
04018	00	V	850	29	3.1	0.6	-0.2
04220	00	V	850	31	2.6	-0.2	-0.6
04220	12	V	850	31	2.4	-0.2	-0.5
04270	00	V	850	31	2.6	0.2	-0.5
04270	12	V	850	31	2.8	0.1	-0.6
04320	12	V	850	31	2.8	-0.4	0.1
04320	00	V	850	31	2.7	0.3	0.6
04339	12	V	850	30	3.2	1.0	0.5
04339	00	V	850	31	2.8	0.7	0.3
04360	00	V	850	27	3.3	0.3	0.4
04360	12	V	850	30	3.3	0.9	0.1
06011	12	V	850	31	3.1	-0.2	-1.0
06260	12	V	850	4	4.1	-1.2	0.4
06260	00	V	850	31	2.3	0.1	-0.5

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
06610	12	V	850	31	2.5	0.1	0.6
06610	00	V	850	31	3.3	1.0	0.0
07110	12	V	850	31	2.3	-0.2	0.1
07110	00	V	850	31	2.7	-0.6	0.0
07510	12	V	850	31	2.5	-0.3	0.3
07510	00	V	850	31	4.3	-0.2	-0.7
07645	12	V	850	31	2.8	-0.7	0.7
07645	00	V	850	31	3.4	0.5	0.2
07761	12	V	850	28	3.2	-0.4	0.0
07761	00	V	850	28	2.4	0.3	-0.5
08001	00	V	850	31	2.3	0.1	0.0
08001	12	V	850	31	2.4	-0.3	0.1
08221	00	V	850	31	2.8	-0.5	-0.5
08221	12	V	850	31	2.0	-0.3	0.2
08302	00	V	850	31	2.5	-0.3	0.0
08302	12	V	850	30	2.2	-0.2	0.0
08508	12	V	850	31	2.4	-0.3	-0.3
08522	12	V	850	30	2.6	0.3	0.0
10035	00	V	850	31	2.1	0.4	-0.3
10035	12	V	850	31	2.1	-0.3	-0.2
10393	00	V	850	31	2.7	0.4	-0.3
10393	12	V	850	31	2.5	0.3	-0.2
10410	00	V	850	27	2.7	-0.2	0.1
10410	12	V	850	30	2.0	0.4	-0.3
10739	00	V	850	30	2.9	-0.1	0.0
10739	12	V	850	31	3.2	0.2	0.4
11035	00	V	850	31	3.4	0.8	-0.2
11035	12	V	850	31	2.3	0.3	-0.6
12982	12	V	850	31	2.2	0.2	0.3
12982	00	V	850	31	3.0	0.8	-0.3
16245	00	V	850	27	2.5	0.4	-0.1
16245	12	V	850	28	2.7	-0.2	-0.5
16429	12	V	850	30	2.2	-0.1	0.4
16429	00	V	850	31	2.1	-0.3	0.6
17607	12	V	850	30	4.1	0.4	0.2
17607	00	V	850	10	3.8	-0.2	-0.7
26435	12	V	850	15	2.3	-0.3	0.2
2TDJJ8	12	V	850	20	2.6	0.2	0.5
60018	12	V	850	31	3.2	0.3	-0.1
60018	00	V	850	31	2.9	0.2	0.5
7JUNA4	12	V	850	5	1.9	0.2	-0.7
7JUNA4	00	V	850	7	2.7	-0.6	-0.1
9ZT9MR	12	V	850	6	2.3	0.1	0.4

RADIOSONDE MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	OBS RECD	RMS	UBIAS	VBIAS
9ZT9MR	00	V	850	6	3.7	0.9	-1.1
ASDE09	12	V	850	2	0.4	0.2	0.3
ATGU3F	12	V	850	9	4.0	-0.9	-1.5
ATGU3F	00	V	850	8	2.6	0.6	-0.6
CMA	12	V	850	1	3.4	1.6	3.0
CMA	00	V	850	3	3.1	1.4	-1.0
GQBZLZ	12	V	850	3	2.0	1.2	-1.3
GQBZLZ	00	V	850	2	7.4	3.6	-3.6
JNKN7J	12	V	850	10	2.7	0.3	-0.1
JNKN7J	00	V	850	8	2.1	-1.1	-0.5
KMPLHP	12	V	850	7	1.8	0.2	-0.1
KMPLHP	00	V	850	8	1.8	-0.7	-0.3
LAGY8	00	V	850	2	4.0	3.2	-2.2
LAGY8	12	V	850	2	2.9	2.4	1.1
LAGZ8	12	V	850	3	1.4	0.7	0.1
LRYQE3	12	V	850	10	2.2	0.3	0.8
LRYQE3	00	V	850	9	2.3	-0.6	-0.6
SMLQ	12	V	850	20	3.5	-0.7	-1.0
SMLQ	00	V	850	18	2.5	-0.2	-0.2
TLH	12	V	850	8	1.7	-0.1	0.3
TLH	00	V	850	4	3.0	-0.7	-0.7
WDK38H	12	V	850	30	2.5	0.0	0.3
WFF	12	V	850	6	3.2	0.3	-0.4
WFF	00	V	850	4	3.6	-0.3	1.2
XKQLWQ	12	V	850	23	2.2	-0.3	-0.7
YLV96W	12	V	850	8	1.8	-0.2	-0.3
YLV96W	00	V	850	7	2.1	-1.1	-0.2

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 : AUG 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
1000050	99	P	SUR	20	-65	586	0	0.3	-0.1	0.3
1000051	99	P	SUR	20	-65	488	0	0.4	0.2	0.4
1300130	99	P	SUR	28	-16	744	0	0.3	0.2	0.4
1300131	99	P	SUR	28	-17	744	0	0.4	0.3	0.5
1301622	99	P	SUR	30	-34	742	0	0.2	0.0	0.2
1301726	99	P	SUR	34	-49	675	0	0.4	-0.1	0.4
1301773	99	P	SUR	42	-42	518	0	0.3	-0.4	0.5
1301782	99	P	SUR	45	-10	736	0	0.3	0.0	0.3
1301784	99	P	SUR	17	-25	728	0	0.4	-2.1	2.1
1301785	99	P	SUR	30	-25	735	0	0.2	-0.1	0.2
1301796	99	P	SUR	15	-35	1	0	0.0	4.7	4.7
1301805	99	P	SUR	63	-33	736	0	0.4	-0.4	0.6
1301806	99	P	SUR	52	-38	736	0	0.4	-0.2	0.4
1301808	99	P	SUR	64	8	735	0	0.4	0.0	0.4
1301809	99	P	SUR	51	-30	736	0	0.3	0.0	0.3
1301810	99	P	SUR	26	-46	736	0	0.2	-0.3	0.4
1301814	99	P	SUR	25	-43	736	0	0.2	0.0	0.2
1301819	99	P	SUR	32	-51	736	0	0.4	-0.4	0.6
1301823	99	P	SUR	34	-49	736	0	0.4	0.0	0.4
1401617	99	P	SUR	57	-41	740	0	0.3	-0.1	0.3
1801560	99	P	SUR	27	-65	3792	0	0.3	0.1	0.3
1801590	99	P	SUR	30	-67	3774	0	0.4	0.0	0.4
1801599	99	P	SUR	26	-62	3756	0	0.3	0.1	0.3
1801600	99	P	SUR	16	-66	3772	0	0.3	-0.1	0.3
1801607	99	P	SUR	21	-66	3687	0	0.5	0.3	0.6
1801670	99	P	SUR	50	-7	727	0	0.3	0.2	0.4
1801675	99	P	SUR	61	-17	672	0	0.3	0.1	0.3
1801695	99	P	SUR	50	-30	736	0	0.3	-0.3	0.5
1801716	99	P	SUR	29	-45	736	0	0.3	0.3	0.5
1801732	99	P	SUR	36	-16	736	0	0.2	-0.1	0.2
1801777	99	P	SUR	35	-34	743	0	0.2	-0.1	0.3
1801778	99	P	SUR	51	-12	744	0	0.3	-0.2	0.4
1801814	99	P	SUR	42	-63	730	0	0.4	-0.1	0.4
1801943	99	P	SUR	41	-45	744	0	0.4	0.1	0.4
1801944	99	P	SUR	45	-52	739	0	0.3	-0.2	0.4
1801945	99	P	SUR	46	-27	740	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
1801946	99	P	SUR	49	-16	733	0	1.5	0.4	1.6
2000980	99	P	SUR	16	-67	207	0	0.3	0.0	0.3
2801970	99	P	SUR	22	-29	736	0	0.2	-0.4	0.5
2801979	99	P	SUR	52	-53	736	0	0.3	-0.1	0.3
2801980	99	P	SUR	54	-54	736	0	0.3	0.2	0.4
2802007	99	P	SUR	22	-55	736	0	0.3	-0.1	0.3
2802010	99	P	SUR	26	-66	736	0	0.4	0.0	0.4
2802011	99	P	SUR	37	-25	736	0	0.2	-0.2	0.3
2802022	99	P	SUR	30	-41	736	0	0.2	-0.2	0.3
2802100	99	P	SUR	75	7	723	0	0.3	0.1	0.3
2802124	99	P	SUR	22	-40	673	0	0.2	-0.1	0.2
2802242	99	P	SUR	46	-22	740	0	0.6	0.6	0.8
2802243	99	P	SUR	46	-27	741	0	0.3	0.2	0.4
2802244	99	P	SUR	59	-12	733	0	0.3	0.1	0.3
2802246	99	P	SUR	50	-33	740	0	0.4	0.2	0.5
2802247	99	P	SUR	65	-5	743	0	0.3	0.1	0.3
2802258	99	P	SUR	50	-52	718	0	0.3	-3.5	3.5
3001001	99	P	SUR	20	-65	517	0	0.3	0.3	0.4
3801575	99	P	SUR	71	30	341	0	0.3	0.0	0.3
3801596	99	P	SUR	29	-62	736	0	0.4	-0.3	0.5
3801598	99	P	SUR	32	-47	736	0	0.3	0.0	0.3
3801612	99	P	SUR	26	-64	736	0	0.4	0.0	0.4
3801625	99	P	SUR	21	-62	736	0	0.3	0.6	0.6
3801676	99	P	SUR	79	16	743	0	0.4	0.0	0.4
3801713	99	P	SUR	33	-17	731	0	0.3	0.0	0.3
3801834	99	P	SUR	48	-30	736	0	0.3	0.1	0.3
3801835	99	P	SUR	45	-31	740	0	0.3	0.0	0.3
3801836	99	P	SUR	43	-40	742	0	0.3	0.1	0.3
3801837	99	P	SUR	67	-20	741	0	0.3	0.2	0.4
3801838	99	P	SUR	47	-27	738	0	0.3	0.1	0.3
3801839	99	P	SUR	47	-21	736	0	2.1	-1.5	2.6
3801840	99	P	SUR	49	-24	737	0	0.3	0.0	0.3
3801841	99	P	SUR	52	-40	742	0	0.3	-0.1	0.3
3801842	99	P	SUR	63	-2	740	0	0.3	0.0	0.3
3801846	99	P	SUR	33	28	613	0	0.3	-0.1	0.4
4000011	99	P	SUR	20	-65	296	0	0.3	0.3	0.5
4100040	99	P	SUR	15	-53	4444	0	0.3	-0.4	0.5
4100041	99	P	SUR	14	-46	4444	0	0.2	0.0	0.2
4100043	99	P	SUR	21	-65	4441	0	0.3	-0.7	0.7
4100044	99	P	SUR	22	-59	4444	0	0.3	-0.5	0.6
4100046	99	P	SUR	24	-68	4443	0	0.3	-0.2	0.4
4100048	99	P	SUR	32	-70	4443	0	0.4	0.2	0.5
4100049	99	P	SUR	28	-62	4443	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
4100053	99	P	SUR	18	-66	3727	0	0.3	-0.4	0.5
4100056	99	P	SUR	18	-65	3719	0	0.3	-0.6	0.7
4101725	99	P	SUR	18	-63	741	0	0.3	-0.2	0.3
4101727	99	P	SUR	36	-61	743	0	0.4	0.0	0.4
4101728	99	P	SUR	26	-54	742	0	0.5	0.2	0.5
4101729	99	P	SUR	29	-61	742	0	0.4	0.0	0.4
4101863	99	P	SUR	30	-66	736	0	0.4	-0.3	0.5
4101870	99	P	SUR	31	-62	736	0	0.3	-0.2	0.4
4101873	99	P	SUR	26	-43	42	0	0.2	-0.1	0.3
4101875	99	P	SUR	24	-57	736	0	0.3	0.1	0.3
4101877	99	P	SUR	29	-24	737	0	0.2	0.0	0.2
4101878	99	P	SUR	22	-30	736	0	0.2	-0.1	0.2
41040	99	P	SUR	15	-53	742	0	0.3	-0.4	0.5
41041	99	P	SUR	14	-46	742	0	0.3	0.0	0.3
41043	99	P	SUR	21	-65	742	0	0.3	-0.7	0.7
41044	99	P	SUR	22	-59	742	0	0.3	-0.5	0.6
41046	99	P	SUR	24	-68	742	0	0.3	-0.2	0.4
41048	99	P	SUR	32	-70	742	0	0.4	0.2	0.5
41049	99	P	SUR	28	-62	742	0	0.4	0.2	0.4
41053	99	P	SUR	19	-66	734	0	0.4	-0.4	0.5
41056	99	P	SUR	18	-66	729	0	0.3	-0.6	0.7
4200059	99	P	SUR	15	-68	196	0	0.4	-0.4	0.5
4200060	99	P	SUR	16	-63	4444	0	0.3	-0.3	0.4
4200085	99	P	SUR	18	-67	3033	0	0.4	-0.5	0.6
42059	99	P	SUR	15	-68	33	0	0.4	-0.4	0.5
42060	99	P	SUR	16	-63	742	0	0.3	-0.2	0.4
42085	99	P	SUR	18	-67	591	0	0.4	-0.5	0.6
4400008	99	P	SUR	40	-69	4446	0	0.3	-0.5	0.6
4400011	99	P	SUR	41	-67	4438	0	0.3	0.0	0.3
4400027	99	P	SUR	44	-67	4437	0	0.4	-1.0	1.1
4400137	99	P	SUR	42	-62	714	0	0.3	0.0	0.3
4400139	99	P	SUR	44	-57	718	0	0.4	0.0	0.4
4400150	99	P	SUR	43	-64	722	0	0.3	-0.1	0.3
4400258	99	P	SUR	45	-63	721	0	0.3	0.0	0.3
4400488	99	P	SUR	45	-61	721	0	0.3	0.0	0.3
4400489	99	P	SUR	45	-61	717	0	0.4	0.2	0.4
44008	99	P	SUR	41	-69	742	0	0.3	-0.5	0.6
44011	99	P	SUR	41	-67	741	0	0.3	0.0	0.3
4401584	99	P	SUR	32	-55	741	0	0.4	0.0	0.4
44027	99	P	SUR	44	-67	742	0	0.4	-1.0	1.1
4402730	99	P	SUR	28	-38	675	0	0.3	-0.1	0.3
4402737	99	P	SUR	52	-38	735	0	0.3	-0.6	0.7
4402744	99	P	SUR	29	-50	736	0	0.3	0.0	0.3

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
4402749	99	P	SUR	70	-1	625	0	0.3	-0.2	0.3
4403568	99	P	SUR	28	-47	744	0	0.3	0.2	0.4
44078	99	P	SUR	60	-40	528	0	0.4	-0.4	0.6
44137	99	P	SUR	42	-62	713	0	0.3	0.0	0.3
44139	99	P	SUR	44	-57	718	0	0.4	-0.1	0.4
44150	99	P	SUR	43	-64	721	0	0.3	-0.1	0.3
44258	99	P	SUR	45	-63	720	0	0.4	0.0	0.4
44488	99	P	SUR	45	-61	721	0	0.4	0.0	0.4
44489	99	P	SUR	46	-61	718	0	0.4	0.2	0.4
4601782	99	P	SUR	29	-33	730	0	0.2	0.5	0.5
4701550	99	P	SUR	85	-12	742	0	0.4	-0.2	0.5
4701555	99	P	SUR	64	-22	25	0	0.3	-5.8	5.8
4701558	99	P	SUR	79	-18	53	0	0.4	-4.2	4.2
4801763	99	P	SUR	69	2	744	7	0.5	-13.5	13.5
4802582	99	P	SUR	64	-18	643	0	0.4	-9.9	10.0
4802664	99	P	SUR	81	-67	745	0	0.5	-0.2	0.5
4803997	99	P	SUR	44	-19	735	0	0.3	-0.2	0.4
4804127	99	P	SUR	27	-53	735	0	0.4	0.0	0.4
4804130	99	P	SUR	14	-60	605	0	0.4	-0.9	1.0
4804271	99	P	SUR	36	-44	96	0	0.2	0.4	0.4
4804272	99	P	SUR	65	-5	740	0	0.3	0.0	0.3
4804282	99	P	SUR	34	20	642	0	1.1	-0.6	1.3
4804311	99	P	SUR	50	-52	623	0	0.3	0.3	0.5
5001002	99	P	SUR	20	-65	342	0	0.4	0.0	0.4
5801955	99	P	SUR	24	-65	4068	0	0.3	0.1	0.4
5801972	99	P	SUR	35	-16	736	0	0.2	-0.3	0.4
5802011	99	P	SUR	25	-59	736	0	0.3	0.2	0.4
5802033	99	P	SUR	19	-58	735	0	0.3	0.0	0.3
5802095	99	P	SUR	50	-42	715	0	0.4	-0.2	0.4
5802112	99	P	SUR	19	-52	691	0	0.3	0.0	0.3
5802116	99	P	SUR	41	-62	733	0	0.4	-0.1	0.4
5802118	99	P	SUR	26	-46	735	0	0.3	0.0	0.3
5802227	99	P	SUR	53	-32	736	736	0.0	0.0	0.0
5802253	99	P	SUR	40	-21	742	0	0.3	0.2	0.3
5802254	99	P	SUR	58	-31	741	0	0.3	-0.1	0.3
5802255	99	P	SUR	58	-32	743	0	0.3	0.2	0.4
5802256	99	P	SUR	57	-25	739	0	0.3	-0.3	0.4
5802257	99	P	SUR	56	-28	739	0	0.3	0.0	0.3
6100001	99	P	SUR	43	8	1724	0	0.7	0.0	0.8
6100002	99	P	SUR	42	5	1719	0	0.6	0.1	0.6
6100196	99	P	SUR	42	4	744	0	0.5	0.3	0.6
6100197	99	P	SUR	40	4	744	0	0.5	-0.1	0.5
6100198	99	P	SUR	37	-2	744	0	0.5	0.4	0.6

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6100207	99	P	SUR	37	15	1348	0	0.4	-0.5	0.6
6100210	99	P	SUR	39	17	1435	0	0.3	-0.7	0.8
6100211	99	P	SUR	39	16	1421	0	0.4	-0.7	0.8
6100214	99	P	SUR	41	13	1297	0	0.4	0.5	0.6
6100215	99	P	SUR	41	17	1431	0	0.3	-0.3	0.5
6100216	99	P	SUR	42	12	1253	0	0.4	-0.8	0.9
6100217	99	P	SUR	42	15	1383	0	0.4	-0.1	0.4
6100218	99	P	SUR	44	14	1113	0	0.4	-0.2	0.5
6100219	99	P	SUR	44	10	837	0	0.5	-0.2	0.5
6100220	99	P	SUR	45	13	1323	0	0.6	-0.2	0.6
6100280	99	P	SUR	41	1	744	0	0.4	0.2	0.5
6100281	99	P	SUR	40	0	744	0	0.5	0.3	0.6
6100417	99	P	SUR	38	0	744	0	0.4	0.4	0.6
6100430	99	P	SUR	40	2	744	0	0.5	0.5	0.8
6101031	99	P	SUR	42	8	1725	0	0.7	0.0	0.7
6101032	99	P	SUR	42	10	854	0	0.7	0.0	0.7
6101033	99	P	SUR	43	8	1731	0	0.7	0.1	0.7
6101034	99	P	SUR	42	6	1733	0	0.7	-0.2	0.7
6101035	99	P	SUR	41	7	1720	0	0.6	0.0	0.6
6101036	99	P	SUR	42	7	1731	0	0.6	-0.1	0.6
6200001	99	P	SUR	45	-5	702	0	0.4	0.1	0.4
6200024	99	P	SUR	44	-3	740	0	0.6	-0.3	0.6
6200025	99	P	SUR	44	-6	744	0	0.4	0.2	0.4
6200029	99	P	SUR	49	-12	744	0	0.3	0.0	0.3
6200050	99	P	SUR	50	-4	744	0	0.3	0.0	0.3
6200081	99	P	SUR	51	-13	744	0	0.3	-0.1	0.3
6200082	99	P	SUR	44	-8	744	0	0.4	0.2	0.4
6200083	99	P	SUR	43	-9	744	0	0.3	0.2	0.4
6200084	99	P	SUR	42	-9	744	0	0.4	0.0	0.4
6200085	99	P	SUR	36	-7	744	0	0.3	0.2	0.3
6200086	99	P	SUR	55	7	246	0	0.3	-0.3	0.5
6200087	99	P	SUR	55	7	208	0	0.3	-0.3	0.5
6200091	99	P	SUR	53	-5	744	0	0.3	0.0	0.3
6200092	99	P	SUR	51	-11	744	0	0.3	0.0	0.3
6200094	99	P	SUR	52	-7	708	0	0.3	0.0	0.3
6200095	99	P	SUR	53	-16	743	0	0.4	-0.1	0.4
6200103	99	P	SUR	50	-3	743	0	0.4	0.2	0.4
6200105	99	P	SUR	55	-13	744	0	0.3	0.0	0.3
6200163	99	P	SUR	47	-8	744	0	0.3	-0.1	0.3
6200442	99	P	SUR	49	-16	742	0	0.3	-0.1	0.3
6201065	99	P	SUR	54	7	647	0	0.3	1.1	1.1
6202598	99	P	SUR	33	-47	741	0	0.3	-0.1	0.3
6202599	99	P	SUR	45	-39	742	0	0.4	-0.2	0.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
62029	99	P	SUR	49	-13	1488	0	0.3	0.0	0.3
62030	99	P	SUR	50	-4	1488	0	0.4	0.0	0.4
6203615	99	P	SUR	26	-41	741	0	0.3	0.3	0.4
6203625	99	P	SUR	30	-36	742	0	0.2	-0.2	0.3
6203632	99	P	SUR	29	-30	743	0	0.2	0.2	0.2
6203639	99	P	SUR	27	-43	744	0	0.3	-0.1	0.3
6203662	99	P	SUR	75	-19	743	0	0.5	-0.5	0.7
6203666	99	P	SUR	55	-12	743	0	2.0	0.5	2.0
6203668	99	P	SUR	79	15	327	0	0.4	-0.4	0.5
6203672	99	P	SUR	30	-56	743	0	0.4	0.2	0.4
6203674	99	P	SUR	62	-7	572	0	2.0	0.3	2.0
6203676	99	P	SUR	60	-23	743	0	0.3	0.1	0.3
6203677	99	P	SUR	28	-28	743	0	0.2	-0.3	0.4
6203679	99	P	SUR	27	-46	741	0	0.3	-0.1	0.3
6203680	99	P	SUR	65	11	743	0	0.2	-0.1	0.2
6203683	99	P	SUR	24	-46	741	0	0.2	0.2	0.3
6203686	99	P	SUR	29	-55	743	0	0.4	0.1	0.4
6203831	99	P	SUR	70	32	684	0	0.2	-0.2	0.3
6203836	99	P	SUR	59	-40	736	0	0.3	-0.1	0.3
6203853	99	P	SUR	79	11	736	0	0.4	-0.1	0.4
6203854	99	P	SUR	71	27	734	0	0.3	-0.1	0.3
6204523	99	P	SUR	44	-55	744	0	0.4	-0.2	0.4
6204524	99	P	SUR	43	-30	743	0	0.3	0.0	0.3
6204525	99	P	SUR	41	-45	743	0	0.5	-0.6	0.8
6204526	99	P	SUR	46	-26	743	1	3.0	0.4	3.0
6204527	99	P	SUR	43	-35	743	0	0.3	0.0	0.3
6204528	99	P	SUR	45	-17	741	7	3.7	1.5	4.0
6204529	99	P	SUR	39	-29	739	0	0.4	-0.8	0.9
6204530	99	P	SUR	44	-11	743	0	0.3	0.1	0.3
6204531	99	P	SUR	48	-22	742	0	0.3	-0.1	0.3
6204533	99	P	SUR	41	-23	744	0	2.1	-0.4	2.1
6204534	99	P	SUR	45	-25	743	0	0.3	-0.5	0.6
6204535	99	P	SUR	40	-36	742	0	0.3	0.0	0.3
6204536	99	P	SUR	44	-24	742	0	0.5	0.0	0.5
6204537	99	P	SUR	43	-58	744	0	0.3	0.3	0.4
62050	99	P	SUR	50	-4	1487	0	0.3	0.0	0.3
62081	99	P	SUR	51	-13	1488	0	0.3	-0.1	0.3
62091	99	P	SUR	53	-5	744	0	0.3	0.0	0.3
62092	99	P	SUR	51	-11	744	0	0.3	0.0	0.3
62094	99	P	SUR	52	-7	708	0	0.3	0.0	0.3
62095	99	P	SUR	53	-16	743	0	0.4	-0.1	0.4
62102	99	P	SUR	58	2	1486	0	0.3	0.2	0.4
62103	99	P	SUR	50	-3	1487	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
62104	99	P	SUR	57	1	1488	0	0.3	0.0	0.3
62105	99	P	SUR	55	-13	1488	0	0.3	0.1	0.3
62107	99	P	SUR	50	-6	1488	0	0.4	-0.4	0.5
62112	99	P	SUR	58	0	1488	0	0.3	0.1	0.3
62113	99	P	SUR	58	0	1488	0	0.3	0.0	0.3
62114	99	P	SUR	58	0	1320	0	0.3	0.0	0.3
62115	99	P	SUR	58	-3	708	0	0.3	0.2	0.4
62116	99	P	SUR	58	1	1486	0	0.3	0.0	0.3
62118	99	P	SUR	58	1	1488	0	0.3	0.4	0.5
62119	99	P	SUR	57	2	1487	0	0.3	-0.1	0.3
62120	99	P	SUR	56	2	1487	0	0.3	-0.3	0.4
62121	99	P	SUR	54	3	1487	0	0.4	0.2	0.4
62122	99	P	SUR	57	2	1475	0	0.3	0.0	0.3
62124	99	P	SUR	54	-4	1462	0	0.3	-0.1	0.3
62127	99	P	SUR	54	1	1483	0	0.3	0.3	0.5
62130	99	P	SUR	59	1	1488	0	0.3	-0.2	0.4
62131	99	P	SUR	54	1	1487	0	0.3	0.6	0.6
62132	99	P	SUR	56	2	1487	0	0.4	0.0	0.4
62133	99	P	SUR	57	1	1487	0	0.3	0.1	0.4
62134	99	P	SUR	58	1	1476	0	0.3	0.3	0.4
62138	99	P	SUR	54	0	1467	0	0.3	0.5	0.6
62140	99	P	SUR	57	1	1479	0	0.3	0.1	0.3
62141	99	P	SUR	58	0	1404	0	1.1	0.1	1.1
62143	99	P	SUR	58	2	1488	0	0.4	0.7	0.8
62144	99	P	SUR	53	2	1487	0	0.3	0.3	0.4
62145	99	P	SUR	53	3	1487	0	0.3	0.3	0.4
62146	99	P	SUR	57	2	1483	0	0.4	0.2	0.4
62148	99	P	SUR	54	2	1239	0	0.4	0.1	0.4
62149	99	P	SUR	54	1	1487	0	0.3	0.5	0.6
62151	99	P	SUR	57	2	1487	0	0.3	0.2	0.4
62152	99	P	SUR	57	2	1485	0	0.3	0.4	0.5
62153	99	P	SUR	57	2	1464	0	0.3	0.3	0.4
62154	99	P	SUR	56	2	1486	0	0.3	-0.3	0.4
62155	99	P	SUR	58	1	1474	0	0.3	0.4	0.5
62157	99	P	SUR	58	0	1488	0	0.3	0.0	0.3
62160	99	P	SUR	57	2	1483	0	0.3	0.2	0.4
62161	99	P	SUR	58	1	1488	0	0.3	-0.3	0.5
62162	99	P	SUR	57	1	1440	0	0.3	0.2	0.3
62163	99	P	SUR	48	-9	1487	0	0.3	-0.1	0.3
62164	99	P	SUR	57	1	1487	0	0.3	0.4	0.5
62165	99	P	SUR	54	1	1487	0	0.3	0.3	0.5
62168	99	P	SUR	58	1	1488	0	0.3	0.2	0.3
62170	99	P	SUR	51	2	1486	0	0.4	-0.3	0.5

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
62198	99	P	SUR	52	2	1270	0	0.4	-0.6	0.7
62302	99	P	SUR	61	-2	1476	0	0.4	0.1	0.4
62304	99	P	SUR	51	2	1482	0	0.4	-0.1	0.4
62305	99	P	SUR	50	0	1488	0	0.4	-0.1	0.4
62442	99	P	SUR	49	-16	1486	0	0.3	-0.1	0.3
6301003	99	P	SUR	74	24	742	0	0.4	-0.3	0.5
6301004	99	P	SUR	72	20	372	0	3.5	-0.8	3.5
6301583	99	P	SUR	53	-21	743	0	0.3	0.1	0.3
6301584	99	P	SUR	79	-15	740	0	0.6	-0.1	0.6
6301587	99	P	SUR	80	-3	742	0	0.3	0.1	0.3
6301634	99	P	SUR	58	-34	742	27	2.4	-0.5	2.5
6301636	99	P	SUR	65	-31	743	0	0.4	0.0	0.4
6301638	99	P	SUR	64	-39	743	0	0.5	0.1	0.5
6301641	99	P	SUR	80	8	742	0	2.0	0.1	2.0
6301642	99	P	SUR	70	15	742	0	0.3	0.1	0.3
6301643	99	P	SUR	75	-9	744	0	0.3	-0.1	0.3
6301644	99	P	SUR	73	10	742	0	0.3	-0.3	0.5
6301645	99	P	SUR	75	-3	742	0	0.3	0.1	0.3
6301647	99	P	SUR	71	35	703	0	0.3	-0.1	0.3
63055	99	P	SUR	61	2	1486	0	0.4	0.0	0.4
63056	99	P	SUR	60	2	1476	0	0.4	0.4	0.5
63057	99	P	SUR	59	2	1488	0	0.4	-0.3	0.5
63058	99	P	SUR	53	2	1467	0	0.3	0.2	0.3
63059	99	P	SUR	58	-1	1184	0	0.3	0.5	0.6
63102	99	P	SUR	61	1	1483	0	0.3	0.0	0.3
63108	99	P	SUR	61	2	1477	0	0.4	0.0	0.4
63109	99	P	SUR	60	2	1488	0	0.4	-0.1	0.4
63110	99	P	SUR	60	2	1488	0	0.4	-0.1	0.4
63112	99	P	SUR	61	1	1487	0	0.3	-0.2	0.4
63115	99	P	SUR	62	1	1486	0	0.4	0.2	0.4
63118	99	P	SUR	58	-2	1488	0	0.3	-0.2	0.4
6400045	99	P	SUR	59	-12	744	0	0.3	0.0	0.3
6400046	99	P	SUR	61	-4	742	0	0.3	-0.1	0.3
6401599	99	P	SUR	80	-6	744	0	0.3	0.1	0.3
6401600	99	P	SUR	85	-41	742	0	0.4	0.2	0.5
6401601	99	P	SUR	59	-37	744	28	1.8	-0.4	1.9
6401602	99	P	SUR	69	-21	147	6	4.1	2.7	4.9
6402617	99	P	SUR	37	-42	297	0	0.3	0.0	0.3
6402621	99	P	SUR	26	-52	15	0	0.2	0.4	0.5
64041	99	P	SUR	61	-3	1470	0	0.3	0.2	0.3
64045	99	P	SUR	59	-12	1488	0	0.3	-0.1	0.3
64046	99	P	SUR	61	-4	1488	0	0.3	-0.2	0.3
6600021	99	P	SUR	55	14	165	0	0.3	-0.9	1.0

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
6600022	99	P	SUR	54	14	367	0	0.4	-0.2	0.5
6600024	99	P	SUR	55	13	305	0	0.4	-1.1	1.2
6801771	99	P	SUR	44	-10	734	0	0.3	-0.1	0.3
6801791	99	P	SUR	33	-20	736	0	0.2	0.2	0.3
6801907	99	P	SUR	66	-4	725	0	0.3	-0.1	0.3
6801923	99	P	SUR	39	-66	732	0	0.4	-0.4	0.5
6801929	99	P	SUR	30	-55	735	0	0.4	-0.1	0.5
6802060	99	P	SUR	50	-25	740	0	0.3	0.1	0.3
6802061	99	P	SUR	63	-29	729	0	0.4	-0.1	0.4
6802079	99	P	SUR	52	-55	723	0	0.3	0.7	0.8
6802080	99	P	SUR	52	-55	715	245	0.3	0.2	0.4
7001004	99	P	SUR	20	-65	1215	0	0.3	0.2	0.3
7801593	99	P	SUR	64	-28	736	0	0.4	-0.1	0.5
7801594	99	P	SUR	71	30	735	0	0.3	-0.3	0.4
7801616	99	P	SUR	19	-59	735	0	0.2	0.0	0.2
7801627	99	P	SUR	25	-67	736	0	0.3	0.2	0.4
7801647	99	P	SUR	32	-51	736	0	0.3	-0.2	0.4
7801697	99	P	SUR	25	-49	743	0	0.3	-0.3	0.4
7801699	99	P	SUR	35	-31	742	0	0.3	0.3	0.4
7801723	99	P	SUR	79	-13	713	0	0.8	0.6	1.0
7801742	99	P	SUR	24	-48	640	0	0.3	0.0	0.3
7801749	99	P	SUR	31	-20	733	0	0.3	-0.1	0.3
7801755	99	P	SUR	23	-44	591	0	0.3	-0.3	0.4
7810095	99	P	SUR	55	-24	735	0	0.3	0.0	0.3
7810096	99	P	SUR	43	-32	736	0	0.3	0.0	0.3
7810098	99	P	SUR	43	-18	736	0	0.3	-0.1	0.4
7810099	99	P	SUR	44	-11	736	0	0.3	-0.6	0.7
7810263	99	P	SUR	46	-32	736	0	0.3	-1.2	1.3
7810264	99	P	SUR	47	-22	736	0	0.3	-0.4	0.5
7810265	99	P	SUR	42	-27	728	0	0.3	-0.1	0.3
7810266	99	P	SUR	44	-39	736	0	0.5	0.3	0.5
7810268	99	P	SUR	20	-36	677	0	0.3	0.1	0.3
7810290	99	P	SUR	40	-33	734	0	0.3	-0.3	0.4
7810312	99	P	SUR	27	-32	734	0	0.2	-0.1	0.2
7810437	99	P	SUR	46	-30	734	0	0.4	-0.2	0.4
7810438	99	P	SUR	44	-48	733	0	0.4	0.0	0.4
7810439	99	P	SUR	52	-41	732	0	0.4	0.3	0.5
7810440	99	P	SUR	49	-47	733	0	0.3	0.1	0.3
7810441	99	P	SUR	50	-40	730	0	0.3	-0.1	0.3
7810442	99	P	SUR	51	-29	731	0	0.3	-0.3	0.4
7810443	99	P	SUR	54	-50	732	0	0.4	-0.3	0.5
7810445	99	P	SUR	48	-29	734	0	0.3	0.1	0.3
7810446	99	P	SUR	43	-32	467	0	0.7	0.6	0.9

DRIFTER MONITORING STATISTICS (EUCOS)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	SD	BIAS	RMS
7810616	99	P	SUR	44	-40	733	0	0.5	0.2	0.5
7810617	99	P	SUR	35	19	696	0	0.4	0.0	0.4
7810618	99	P	SUR	38	17	681	0	0.3	0.5	0.6
7810712	99	P	SUR	42	-58	600	0	0.4	0.2	0.5
7810732	99	P	SUR	43	-58	246	0	0.4	0.0	0.4
7810733	99	P	SUR	40	-60	584	0	0.4	-0.8	0.9
7810734	99	P	SUR	44	-50	620	0	0.4	0.0	0.4
7810765	99	P	SUR	35	-55	731	0	0.5	0.3	0.6
7810766	99	P	SUR	32	-30	734	0	0.3	0.2	0.4
7810767	99	P	SUR	40	-47	728	0	0.4	0.1	0.4
7810768	99	P	SUR	37	-61	732	0	0.4	0.0	0.4
7810770	99	P	SUR	34	-54	733	0	0.4	0.3	0.5
7810771	99	P	SUR	34	-54	733	0	0.5	0.0	0.5
7810772	99	P	SUR	33	-18	731	0	0.3	0.0	0.3
7810773	99	P	SUR	33	-33	732	0	0.2	-0.1	0.2
7810774	99	P	SUR	38	-31	731	0	0.3	0.0	0.3
7810775	99	P	SUR	38	-21	726	0	0.3	0.1	0.3
7810777	99	P	SUR	34	-41	732	0	0.3	0.0	0.3
7810778	99	P	SUR	33	-39	735	0	0.2	-0.1	0.3
7810780	99	P	SUR	34	-17	733	0	0.3	0.0	0.3
7810781	99	P	SUR	47	-37	566	0	0.6	0.0	0.6
7810782	99	P	SUR	50	-24	697	0	0.6	-0.1	0.6
7810783	99	P	SUR	45	-21	734	0	0.3	0.1	0.3
7810977	99	P	SUR	72	-16	75	0	0.3	0.2	0.4
7810979	99	P	SUR	72	-16	75	0	0.3	0.4	0.5
7810980	99	P	SUR	72	-16	76	0	0.4	0.4	0.6
7810981	99	P	SUR	72	-16	78	0	0.3	0.2	0.3
7894568	99	P	SUR	56	-6	739	0	0.4	0.2	0.4
7894569	99	P	SUR	50	-9	734	0	0.3	0.4	0.5
7894570	99	P	SUR	49	-19	740	0	0.3	0.2	0.4
7894597	99	P	SUR	54	-54	719	0	0.3	-0.1	0.3

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 : AUG 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
1000050	99	SPEED	SUR	20	-65	586	0	0	1.0	-1.5	1.8
1000051	99	SPEED	SUR	20	-65	488	0	0	1.0	-1.5	1.8
1300130	99	SPEED	SUR	28	-16	744	0	0	0.9	-0.5	1.0
1300131	99	SPEED	SUR	28	-17	739	0	0	2.5	1.1	2.7
1801560	99	SPEED	SUR	27	-65	3792	0	0	1.0	0.2	1.0
1801590	99	SPEED	SUR	30	-67	3774	0	0	1.2	0.2	1.2
1801599	99	SPEED	SUR	26	-62	3756	0	0	1.0	0.3	1.0
1801600	99	SPEED	SUR	16	-66	3772	0	0	0.9	0.6	1.0
1801607	99	SPEED	SUR	21	-66	3687	0	0	0.9	0.6	1.1
1801951	99	SPEED	SUR	32	20	173	0	0	1.3	-3.1	3.4
2000980	99	SPEED	SUR	16	-67	207	0	0	0.9	-1.2	1.6
3001001	99	SPEED	SUR	20	-65	517	0	0	1.1	-1.1	1.5
4000011	99	SPEED	SUR	20	-65	296	0	0	1.3	-1.4	1.9
4100040	99	SPEED	SUR	15	-53	4444	0	0	0.9	0.0	0.9
4100041	99	SPEED	SUR	14	-46	4444	0	0	0.8	0.1	0.8
4100043	99	SPEED	SUR	21	-65	4438	0	0	0.8	0.1	0.8
4100044	99	SPEED	SUR	22	-59	4443	0	0	0.9	0.0	0.9
4100046	99	SPEED	SUR	24	-68	4429	0	0	0.9	0.5	1.0
4100048	99	SPEED	SUR	32	-70	4440	0	0	1.3	-0.2	1.3
4100049	99	SPEED	SUR	28	-62	4440	0	0	1.1	0.2	1.1
4100053	99	SPEED	SUR	18	-66	3727	0	0	1.3	1.0	1.6
4100056	99	SPEED	SUR	18	-65	3719	0	0	1.3	-0.3	1.3
41040	99	SPEED	SUR	15	-53	742	0	0	0.9	-0.5	1.0
41041	99	SPEED	SUR	14	-46	742	0	0	0.9	-0.6	1.0
41043	99	SPEED	SUR	21	-65	742	0	0	0.9	-0.4	1.0
41044	99	SPEED	SUR	22	-59	741	0	0	1.0	-0.4	1.1
41046	99	SPEED	SUR	24	-68	741	0	0	1.0	0.1	1.0
41048	99	SPEED	SUR	32	-70	742	0	0	1.3	-0.4	1.4
41049	99	SPEED	SUR	28	-62	742	0	0	1.2	0.0	1.2
41053	99	SPEED	SUR	19	-66	734	0	0	1.3	-0.1	1.3
41056	99	SPEED	SUR	18	-66	729	0	0	1.4	-0.7	1.5
4200059	99	SPEED	SUR	15	-68	196	0	0	1.0	0.0	1.0
4200060	99	SPEED	SUR	16	-63	4443	0	0	1.1	0.2	1.1
4200085	99	SPEED	SUR	18	-67	3033	0	0	1.3	0.4	1.4

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
42059	99	SPEED	SUR	15	-68	33	0	0	0.9	-0.4	1.0
42060	99	SPEED	SUR	16	-63	742	0	0	1.2	-0.3	1.2
42085	99	SPEED	SUR	18	-67	591	0	0	1.5	0.4	1.6
4400008	99	SPEED	SUR	40	-69	4397	0	0	1.4	0.2	1.4
4400011	99	SPEED	SUR	41	-67	4437	0	0	1.4	-0.5	1.5
4400027	99	SPEED	SUR	44	-67	4437	0	0	1.2	-0.6	1.3
4400032	99	SPEED	SUR	44	-69	3060	0	0	1.2	-0.6	1.3
4400033	99	SPEED	SUR	44	-69	3396	0	0	1.3	-0.3	1.3
4400034	99	SPEED	SUR	44	-68	3911	0	0	1.2	-1.2	1.8
4400137	99	SPEED	SUR	42	-62	714	0	0	1.4	0.0	1.4
4400139	99	SPEED	SUR	44	-57	718	0	0	1.3	-0.4	1.3
4400150	99	SPEED	SUR	43	-64	722	0	0	1.4	0.0	1.4
4400258	99	SPEED	SUR	45	-63	721	0	0	1.3	-0.5	1.4
4400488	99	SPEED	SUR	45	-61	721	0	0	1.3	0.7	1.5
4400489	99	SPEED	SUR	45	-61	717	0	0	1.4	1.2	1.8
44008	99	SPEED	SUR	41	-69	730	0	0	1.4	-0.3	1.5
44011	99	SPEED	SUR	41	-67	741	0	0	1.6	-1.0	1.9
44027	99	SPEED	SUR	44	-67	742	0	0	1.3	-1.3	1.8
44032	99	SPEED	SUR	44	-69	258	0	0	1.4	-1.3	1.9
44033	99	SPEED	SUR	44	-69	224	0	0	1.4	-0.9	1.6
44034	99	SPEED	SUR	44	-68	375	0	0	1.3	-2.2	2.5
44078	99	SPEED	SUR	60	-40	527	0	0	1.5	-1.0	1.8
44137	99	SPEED	SUR	42	-62	713	0	0	1.5	0.0	1.5
44139	99	SPEED	SUR	44	-57	718	0	0	1.3	-0.4	1.4
44150	99	SPEED	SUR	43	-64	721	0	0	1.5	-0.3	1.5
44258	99	SPEED	SUR	45	-63	720	0	0	1.3	-0.4	1.4
44488	99	SPEED	SUR	45	-61	721	0	0	1.4	0.6	1.5
44489	99	SPEED	SUR	46	-61	718	0	0	1.4	0.9	1.7
5001002	99	SPEED	SUR	20	-65	342	0	0	1.7	-2.1	2.7
5801955	99	SPEED	SUR	24	-65	4068	0	0	1.0	0.4	1.0
6100001	99	SPEED	SUR	43	8	1724	0	0	2.2	1.0	2.5
6100002	99	SPEED	SUR	42	5	1720	0	0	1.7	0.6	1.8
6100196	99	SPEED	SUR	42	4	744	0	0	1.7	-0.5	1.7
6100197	99	SPEED	SUR	40	4	741	0	0	1.5	-0.2	1.5
6100198	99	SPEED	SUR	37	-2	742	0	0	1.4	-0.6	1.5
6100207	99	SPEED	SUR	37	15	1348	0	0	1.5	1.6	2.2
6100210	99	SPEED	SUR	39	17	1435	0	0	1.6	0.5	1.7
6100211	99	SPEED	SUR	39	16	1421	0	0	1.4	0.8	1.6
6100214	99	SPEED	SUR	41	13	1297	0	0	1.3	0.6	1.5
6100215	99	SPEED	SUR	41	17	1431	0	0	1.3	1.0	1.6
6100216	99	SPEED	SUR	42	12	1253	0	0	1.4	0.7	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
6100217	99	SPEED	SUR	42	15	1383	0	0	1.4	0.7	1.5
6100218	99	SPEED	SUR	44	14	1113	0	0	1.6	0.7	1.7
6100219	99	SPEED	SUR	44	10	837	0	0	1.8	1.1	2.1
6100220	99	SPEED	SUR	45	13	1323	0	0	1.7	0.3	1.7
6100280	99	SPEED	SUR	41	1	743	0	0	1.5	-0.4	1.5
6100281	99	SPEED	SUR	40	0	743	0	0	1.7	0.1	1.7
6100417	99	SPEED	SUR	38	0	736	0	0	1.3	-0.7	1.5
6100430	99	SPEED	SUR	40	2	743	0	0	1.4	0.1	1.5
6101031	99	SPEED	SUR	42	8	1726	0	0	1.7	1.1	2.0
6101032	99	SPEED	SUR	42	10	854	0	0	1.7	0.4	1.8
6101033	99	SPEED	SUR	43	8	1731	0	0	1.6	0.4	1.6
6101034	99	SPEED	SUR	42	6	1733	0	0	1.5	1.1	1.9
6101035	99	SPEED	SUR	41	7	1721	0	0	1.6	0.8	1.8
6101036	99	SPEED	SUR	42	7	1731	0	0	1.5	0.5	1.6
6200001	99	SPEED	SUR	45	-5	702	0	0	1.4	0.8	1.5
6200024	99	SPEED	SUR	44	-3	736	0	0	1.5	-0.6	1.6
6200025	99	SPEED	SUR	44	-6	740	0	0	1.5	-1.5	2.1
6200029	99	SPEED	SUR	49	-12	744	0	0	1.2	0.9	1.5
6200050	99	SPEED	SUR	50	-4	744	0	0	1.2	0.2	1.2
6200081	99	SPEED	SUR	51	-13	744	0	0	1.0	0.6	1.2
6200082	99	SPEED	SUR	44	-8	744	0	0	1.1	-1.0	1.5
6200083	99	SPEED	SUR	43	-9	741	0	0	1.2	-0.9	1.5
6200084	99	SPEED	SUR	42	-9	743	0	0	1.3	-0.6	1.4
6200085	99	SPEED	SUR	36	-7	744	0	0	1.1	-1.0	1.5
6200086	99	SPEED	SUR	55	7	246	0	0	1.7	1.0	2.0
6200087	99	SPEED	SUR	55	7	209	0	0	1.6	0.6	1.7
6200091	99	SPEED	SUR	53	-5	744	0	0	1.3	0.3	1.3
6200092	99	SPEED	SUR	51	-11	744	0	0	1.1	0.8	1.3
6200094	99	SPEED	SUR	52	-7	708	0	0	1.2	0.0	1.2
6200095	99	SPEED	SUR	53	-16	743	0	0	1.2	0.4	1.3
6200103	99	SPEED	SUR	50	-3	743	0	0	1.2	-0.1	1.2
6200105	99	SPEED	SUR	55	-13	744	0	0	1.0	0.3	1.1
6200163	99	SPEED	SUR	47	-8	744	0	0	1.1	0.5	1.2
6200442	99	SPEED	SUR	49	-16	742	0	0	1.3	0.3	1.3
6201065	99	SPEED	SUR	54	7	647	0	0	1.5	-0.9	1.7
62029	99	SPEED	SUR	49	-13	1488	0	0	1.2	0.6	1.4
62050	99	SPEED	SUR	50	-4	1487	0	0	1.3	0.2	1.3
62081	99	SPEED	SUR	51	-13	1488	0	0	1.1	0.6	1.2
62091	99	SPEED	SUR	53	-5	744	0	0	1.3	0.5	1.4
62092	99	SPEED	SUR	51	-11	744	0	0	1.1	0.8	1.4
62094	99	SPEED	SUR	52	-7	708	0	0	1.3	0.1	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
62095	99	SPEED	SUR	53	-16	743	0	0	1.2	0.6	1.3
62102	99	SPEED	SUR	58	2	1486	0	0	1.3	0.5	1.4
62103	99	SPEED	SUR	50	-3	1487	0	0	1.3	-0.2	1.3
62104	99	SPEED	SUR	57	1	1488	0	0	1.2	-0.1	1.2
62105	99	SPEED	SUR	55	-13	1488	0	0	1.0	0.3	1.1
62112	99	SPEED	SUR	58	0	1488	0	0	1.4	-0.6	1.5
62113	99	SPEED	SUR	58	0	1488	0	0	1.4	-0.2	1.4
62114	99	SPEED	SUR	58	0	1320	0	0	1.4	0.3	1.4
62118	99	SPEED	SUR	58	1	1488	0	0	1.3	0.4	1.4
62119	99	SPEED	SUR	57	2	414	0	0	1.4	-0.6	1.5
62120	99	SPEED	SUR	56	2	1487	0	0	1.2	-0.4	1.3
62121	99	SPEED	SUR	54	3	1487	0	0	1.2	-0.3	1.3
62122	99	SPEED	SUR	57	2	1475	0	0	1.1	-0.1	1.1
62131	99	SPEED	SUR	54	1	1487	0	0	1.4	-0.2	1.4
62133	99	SPEED	SUR	57	1	1487	0	0	1.8	-1.1	2.1
62134	99	SPEED	SUR	58	1	1476	0	0	1.0	-0.6	1.2
62140	99	SPEED	SUR	57	1	1357	0	0	1.1	0.1	1.2
62143	99	SPEED	SUR	58	2	1488	0	0	1.6	-0.5	1.7
62144	99	SPEED	SUR	53	2	1487	0	0	1.6	-0.7	1.8
62145	99	SPEED	SUR	53	3	1485	0	0	1.4	0.3	1.4
62146	99	SPEED	SUR	57	2	1441	0	0	1.3	0.1	1.3
62148	99	SPEED	SUR	54	2	1349	0	0	1.3	-0.1	1.3
62149	99	SPEED	SUR	54	1	1487	0	0	1.5	-0.3	1.5
62152	99	SPEED	SUR	57	2	1483	0	0	1.3	0.3	1.4
62154	99	SPEED	SUR	56	2	1486	0	0	1.3	0.1	1.3
62155	99	SPEED	SUR	58	1	1422	0	0	1.2	0.2	1.2
62163	99	SPEED	SUR	48	-9	1487	0	0	1.1	0.5	1.2
62164	99	SPEED	SUR	57	1	1487	0	0	1.4	-0.6	1.5
62165	99	SPEED	SUR	54	1	1487	0	0	1.4	-0.4	1.5
62170	99	SPEED	SUR	51	2	1486	0	0	1.4	0.3	1.5
62304	99	SPEED	SUR	51	2	1482	0	0	1.6	0.5	1.6
62305	99	SPEED	SUR	50	0	1488	0	0	1.3	0.5	1.4
62442	99	SPEED	SUR	49	-16	1486	0	0	1.3	0.4	1.3
6301003	99	SPEED	SUR	74	24	743	0	0	0.9	-0.2	0.9
6301004	99	SPEED	SUR	72	20	602	0	0	3.5	-3.2	4.8
63055	99	SPEED	SUR	61	2	1486	0	0	1.1	-0.6	1.3
63056	99	SPEED	SUR	60	2	1330	0	0	1.2	0.3	1.2
63057	99	SPEED	SUR	59	2	1488	0	0	1.6	-0.4	1.7
63058	99	SPEED	SUR	53	2	1463	0	0	1.2	-0.2	1.3
63108	99	SPEED	SUR	61	2	1477	0	0	1.4	-0.1	1.4
63109	99	SPEED	SUR	60	2	1488	0	0	1.2	0.1	1.2

DRIFTER MONITORING STATISTICS (EUCOS)

MONITORING CENTRE : ECMWF

ELEMENT MONITORED : WIND SPEED (M/S)

(CONTINU

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
63110	99	SPEED	SUR	60	2	1488	0	0	1.4	-0.4	1.4
63112	99	SPEED	SUR	61	1	1487	0	0	1.2	-0.2	1.2
63115	99	SPEED	SUR	62	1	1486	0	0	1.3	-0.4	1.3
6400045	99	SPEED	SUR	59	-12	744	0	0	1.1	0.4	1.2
6400046	99	SPEED	SUR	61	-4	742	0	0	1.0	0.4	1.1
64041	99	SPEED	SUR	61	-3	1468	0	0	1.2	-0.1	1.2
64045	99	SPEED	SUR	59	-12	1488	0	0	1.2	0.4	1.2
64046	99	SPEED	SUR	61	-4	1488	0	0	1.1	0.3	1.1
6600021	99	SPEED	SUR	55	14	165	0	0	1.3	0.4	1.4
6600022	99	SPEED	SUR	54	14	367	0	0	1.5	0.1	1.5
6600024	99	SPEED	SUR	55	13	233	0	0	1.3	0.5	1.4
7001004	99	SPEED	SUR	20	-65	1215	0	0	0.9	-1.4	1.7

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 : AUG 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	31	-80	146	0	0	24.7	-17.0	30.0
1000050	99	DIRN	SUR	20	-65	577	0	0	16.6	-6.4	17.8
1000051	99	DIRN	SUR	20	-65	487	0	0	14.1	0.8	14.2
1300130	99	DIRN	SUR	28	-16	722	0	0	10.1	1.0	10.2
1300131	99	DIRN	SUR	28	-17	441	0	0	25.8	4.9	26.3
1801560	99	DIRN	SUR	27	-65	2612	0	0	14.3	4.5	15.0
1801577	99	DIRN	SUR	27	-83	430	0	0	18.0	2.3	18.2
1801590	99	DIRN	SUR	30	-67	2213	0	0	17.2	2.4	17.3
1801599	99	DIRN	SUR	26	-62	2502	0	0	14.4	2.0	14.5
1801600	99	DIRN	SUR	16	-66	3768	0	0	8.8	-1.6	8.9
1801607	99	DIRN	SUR	21	-66	3678	0	0	10.9	-1.9	11.1
2000980	99	DIRN	SUR	16	-67	207	0	0	30.0	13.0	32.7
3001001	99	DIRN	SUR	20	-65	472	0	0	32.5	14.6	35.6
4000011	99	DIRN	SUR	20	-65	273	0	0	23.3	-2.1	23.4
4100001	99	DIRN	SUR	35	-73	2041	0	0	19.4	0.6	19.4
4100002	99	DIRN	SUR	32	-75	3539	0	0	23.4	7.8	24.6
4100004	99	DIRN	SUR	33	-79	3458	0	0	26.3	7.2	27.3
4100008	99	DIRN	SUR	31	-81	3347	0	0	26.1	3.5	26.4
4100009	99	DIRN	SUR	29	-80	2329	0	0	35.7	8.5	36.7
4100010	99	DIRN	SUR	29	-78	3300	0	0	26.8	3.6	27.0
4100013	99	DIRN	SUR	33	-78	3203	0	0	29.9	11.6	32.1
4100024	99	DIRN	SUR	34	-78	236	0	0	26.2	10.4	28.2
4100025	99	DIRN	SUR	35	-75	3308	0	0	25.8	10.2	27.7
4100029	99	DIRN	SUR	33	-80	533	0	0	30.4	4.2	30.7
4100033	99	DIRN	SUR	32	-80	578	0	0	31.5	7.3	32.3
4100037	99	DIRN	SUR	34	-77	502	0	0	30.4	3.5	30.6
4100038	99	DIRN	SUR	34	-78	477	0	0	29.9	2.5	30.0
4100040	99	DIRN	SUR	15	-53	4370	0	0	9.8	0.7	9.8
4100041	99	DIRN	SUR	14	-46	4383	0	0	11.0	2.0	11.2
4100043	99	DIRN	SUR	21	-65	4265	0	0	11.1	3.7	11.7
4100044	99	DIRN	SUR	22	-59	4174	0	0	13.1	2.5	13.3
4100046	99	DIRN	SUR	24	-68	3888	0	0	12.4	7.0	14.2

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
4100047	99	DIRN	SUR	28	-71	2738	0	0	21.2	8.3	22.7
4100048	99	DIRN	SUR	32	-70	3190	0	0	17.0	7.0	18.4
4100049	99	DIRN	SUR	28	-62	3125	0	0	19.3	14.3	24.0
4100053	99	DIRN	SUR	18	-66	3519	0	0	13.3	-5.2	14.2
4100056	99	DIRN	SUR	18	-65	3664	0	0	17.0	-1.3	17.0
4100064	99	DIRN	SUR	34	-77	521	0	0	24.0	-9.6	25.8
4100066	99	DIRN	SUR	33	-80	572	0	0	25.7	8.8	27.1
4100068	99	DIRN	SUR	28	-80	359	0	0	35.2	4.5	35.4
4100069	99	DIRN	SUR	29	-81	429	0	0	31.0	4.8	31.3
4100082	99	DIRN	SUR	36	-75	3201	0	0	26.8	-8.5	28.2
4100083	99	DIRN	SUR	36	-75	3036	0	0	24.9	-9.0	26.4
41001	99	DIRN	SUR	35	-73	340	0	0	20.9	-0.4	20.9
41002	99	DIRN	SUR	32	-75	590	0	0	23.9	6.8	24.8
41004	99	DIRN	SUR	33	-79	572	0	0	24.0	7.6	25.2
41008	99	DIRN	SUR	31	-81	558	0	0	25.2	2.8	25.3
41009	99	DIRN	SUR	29	-80	384	0	0	38.0	10.0	39.3
41010	99	DIRN	SUR	29	-79	549	0	0	25.8	2.9	26.0
41013	99	DIRN	SUR	33	-78	532	0	0	29.2	10.5	31.0
41024	99	DIRN	SUR	34	-79	232	0	0	27.3	9.6	28.9
41025	99	DIRN	SUR	35	-75	552	0	0	25.2	10.3	27.3
41029	99	DIRN	SUR	33	-80	458	0	0	29.0	3.8	29.2
41033	99	DIRN	SUR	32	-80	572	0	0	30.4	6.4	31.1
41037	99	DIRN	SUR	34	-77	515	0	0	30.7	3.2	30.9
41038	99	DIRN	SUR	34	-78	478	0	0	32.1	2.6	32.2
41040	99	DIRN	SUR	15	-53	726	0	0	9.9	0.3	9.9
41041	99	DIRN	SUR	14	-46	728	0	0	10.9	1.7	11.0
41043	99	DIRN	SUR	21	-65	705	0	0	11.1	3.5	11.6
41044	99	DIRN	SUR	22	-59	679	0	0	12.2	1.8	12.3
41046	99	DIRN	SUR	24	-68	642	0	0	12.0	6.3	13.6
41047	99	DIRN	SUR	28	-72	454	0	0	21.8	9.5	23.8
41048	99	DIRN	SUR	32	-70	511	0	0	15.7	6.7	17.0
41049	99	DIRN	SUR	28	-62	530	0	0	19.3	13.8	23.8
41053	99	DIRN	SUR	19	-66	690	0	0	14.6	-5.1	15.5
41056	99	DIRN	SUR	18	-66	717	0	0	17.1	-1.1	17.1
41064	99	DIRN	SUR	34	-77	530	0	0	25.4	-10.8	27.6
41066	99	DIRN	SUR	33	-80	20	0	0	28.0	11.4	30.2
41068	99	DIRN	SUR	28	-80	346	0	0	38.2	6.5	38.7
41069	99	DIRN	SUR	29	-81	436	0	0	30.6	2.5	30.7
41082	99	DIRN	SUR	36	-75	524	0	0	27.8	-9.0	29.2
41083	99	DIRN	SUR	36	-75	507	0	0	27.1	-9.0	28.6
4200013	99	DIRN	SUR	27	-83	720	0	0	23.1	1.9	23.2

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
4200022	99	DIRN	SUR	28	-84	21	0	0	12.5	7.1	14.4
4200023	99	DIRN	SUR	26	-83	389	0	0	26.4	4.3	26.8
4200026	99	DIRN	SUR	25	-83	602	0	0	18.6	3.0	18.8
4200036	99	DIRN	SUR	29	-85	2419	0	0	20.9	10.4	23.3
4200056	99	DIRN	SUR	20	-85	3956	0	0	12.3	0.2	12.3
4200057	99	DIRN	SUR	17	-82	4340	0	0	10.9	1.0	10.9
4200058	99	DIRN	SUR	14	-76	4439	0	0	5.5	4.4	7.0
4200059	99	DIRN	SUR	15	-68	196	0	0	12.4	-5.1	13.4
4200060	99	DIRN	SUR	16	-63	4372	0	0	10.0	4.9	11.2
4200085	99	DIRN	SUR	18	-67	2970	0	0	12.4	0.0	12.4
42013	99	DIRN	SUR	27	-83	358	0	0	22.7	3.5	22.9
42022	99	DIRN	SUR	28	-84	52	0	0	20.6	7.5	21.9
42023	99	DIRN	SUR	26	-83	119	0	0	19.3	6.0	20.2
42026	99	DIRN	SUR	25	-84	286	0	0	20.8	4.4	21.2
42036	99	DIRN	SUR	29	-85	384	0	0	21.6	10.7	24.1
42056	99	DIRN	SUR	20	-85	627	0	0	13.3	-0.6	13.3
42057	99	DIRN	SUR	17	-82	719	0	0	11.4	0.4	11.4
42058	99	DIRN	SUR	14	-76	740	0	0	6.2	3.9	7.3
42059	99	DIRN	SUR	15	-68	33	0	0	12.2	-6.3	13.8
42060	99	DIRN	SUR	16	-63	723	0	0	10.4	4.2	11.2
42085	99	DIRN	SUR	18	-67	571	0	0	14.0	0.2	14.0
4400007	99	DIRN	SUR	44	-70	2098	0	0	20.1	7.4	21.4
4400008	99	DIRN	SUR	40	-69	2475	0	0	25.7	8.1	27.0
4400009	99	DIRN	SUR	38	-75	2636	0	0	23.4	1.0	23.5
4400011	99	DIRN	SUR	41	-67	2404	0	0	15.5	15.5	21.9
4400013	99	DIRN	SUR	42	-71	2641	0	0	18.3	5.6	19.1
4400020	99	DIRN	SUR	41	-70	3704	0	0	15.1	2.8	15.3
4400027	99	DIRN	SUR	44	-67	2737	0	0	15.7	16.1	22.5
4400029	99	DIRN	SUR	43	-71	2226	0	0	19.4	2.8	19.6
4400030	99	DIRN	SUR	43	-70	2235	0	0	23.8	13.9	27.6
4400032	99	DIRN	SUR	44	-69	1599	0	0	19.1	9.1	21.2
4400033	99	DIRN	SUR	44	-69	1574	0	0	20.3	8.1	21.9
4400034	99	DIRN	SUR	44	-68	1871	0	0	15.8	10.1	18.8
4400042	99	DIRN	SUR	38	-76	3412	0	0	33.1	3.8	33.3
4400058	99	DIRN	SUR	38	-76	3659	0	0	25.4	1.0	25.4
4400062	99	DIRN	SUR	39	-76	3503	0	0	39.0	-0.6	39.0
4400063	99	DIRN	SUR	39	-76	2419	0	0	30.7	0.5	30.7
4400065	99	DIRN	SUR	40	-74	3053	0	0	25.4	5.4	26.0
4400072	99	DIRN	SUR	37	-76	3618	0	0	26.8	-2.0	26.9
4400074	99	DIRN	SUR	43	-71	193	0	0	19.1	-3.6	19.5
4400079	99	DIRN	SUR	36	-75	3086	0	0	28.8	-9.3	30.3

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
4400080	99	DIRN	SUR	39	-77	725	0	0	25.7	-1.1	25.7
4400137	99	DIRN	SUR	42	-62	527	0	0	18.0	-6.0	18.9
4400139	99	DIRN	SUR	44	-57	511	0	0	15.7	3.2	16.0
4400150	99	DIRN	SUR	43	-64	524	0	0	17.7	4.7	18.3
4400258	99	DIRN	SUR	45	-63	455	0	0	19.4	-0.5	19.4
4400488	99	DIRN	SUR	45	-61	489	0	0	17.6	16.6	24.2
4400489	99	DIRN	SUR	45	-61	347	0	0	18.4	2.5	18.6
44007	99	DIRN	SUR	44	-70	355	0	0	20.7	8.4	22.4
44008	99	DIRN	SUR	41	-69	415	0	0	30.7	7.9	31.7
44009	99	DIRN	SUR	39	-75	448	0	0	23.7	-0.2	23.7
44011	99	DIRN	SUR	41	-67	387	0	0	16.7	14.7	22.2
44013	99	DIRN	SUR	42	-71	421	0	0	20.1	5.0	20.8
44020	99	DIRN	SUR	42	-70	618	0	0	14.9	3.2	15.2
44027	99	DIRN	SUR	44	-67	442	0	0	16.3	15.6	22.6
44029	99	DIRN	SUR	43	-71	160	0	0	22.4	2.0	22.5
44030	99	DIRN	SUR	43	-70	272	0	0	23.0	13.9	26.9
44032	99	DIRN	SUR	44	-69	145	0	0	20.1	8.3	21.7
44033	99	DIRN	SUR	44	-69	109	0	0	18.5	8.2	20.2
44034	99	DIRN	SUR	44	-68	167	0	0	14.8	7.8	16.7
4403586	99	DIRN	SUR	43	-79	1186	0	0	34.2	3.3	34.3
44042	99	DIRN	SUR	38	-76	439	0	0	33.5	2.3	33.5
44058	99	DIRN	SUR	38	-76	453	0	0	26.7	2.9	26.8
44062	99	DIRN	SUR	39	-76	467	0	0	35.8	0.9	35.8
44063	99	DIRN	SUR	39	-76	324	0	0	28.2	3.4	28.4
44065	99	DIRN	SUR	40	-74	498	0	0	25.9	5.8	26.5
44069	99	DIRN	SUR	41	-73	425	0	0	23.8	-3.5	24.1
44072	99	DIRN	SUR	37	-76	536	0	0	28.1	-0.3	28.1
44074	99	DIRN	SUR	43	-71	74	0	0	18.7	-3.6	19.0
44078	99	DIRN	SUR	60	-40	411	0	0	12.2	-18.5	22.1
44079	99	DIRN	SUR	36	-75	498	0	0	30.6	-9.2	31.9
44080	99	DIRN	SUR	39	-77	199	0	0	39.0	-5.5	39.4
44137	99	DIRN	SUR	42	-62	513	0	0	18.4	-6.9	19.6
44139	99	DIRN	SUR	44	-57	498	0	0	16.1	2.3	16.3
44150	99	DIRN	SUR	43	-64	513	0	0	20.6	3.6	20.9
44258	99	DIRN	SUR	45	-63	435	0	0	19.5	-1.2	19.5
44488	99	DIRN	SUR	45	-61	479	0	0	18.0	16.1	24.2
44489	99	DIRN	SUR	46	-61	376	0	0	19.7	0.9	19.7
4500005	99	DIRN	SUR	42	-82	2962	0	0	29.7	10.4	31.4
4500012	99	DIRN	SUR	44	-77	2771	0	0	24.7	11.7	27.3
4500132	99	DIRN	SUR	42	-81	414	0	0	35.7	6.1	36.2
4500135	99	DIRN	SUR	44	-77	490	0	0	23.6	0.6	23.6

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
4500137	99	DIRN	SUR	46	-81	556	0	0	20.0	-0.5	20.0
4500139	99	DIRN	SUR	43	-80	281	0	0	30.0	4.4	30.3
4500142	99	DIRN	SUR	43	-79	470	0	0	33.3	2.2	33.4
4500143	99	DIRN	SUR	45	-81	537	0	0	25.1	1.0	25.2
4500159	99	DIRN	SUR	44	-79	314	0	0	27.3	6.2	28.0
4500162	99	DIRN	SUR	45	-83	502	0	0	20.3	6.7	21.4
4500165	99	DIRN	SUR	42	-83	2644	0	0	31.1	29.2	42.7
4500167	99	DIRN	SUR	42	-80	1195	0	0	33.8	3.2	34.0
4500175	99	DIRN	SUR	46	-85	1055	0	0	26.3	4.4	26.7
4500176	99	DIRN	SUR	42	-82	2395	0	0	30.7	-9.6	32.2
4500178	99	DIRN	SUR	45	-73	778	0	0	22.4	1.7	22.5
4500190	99	DIRN	SUR	43	-77	1028	0	0	19.4	7.3	20.7
4500196	99	DIRN	SUR	42	-82	860	0	0	56.2	-8.1	56.8
4500197	99	DIRN	SUR	42	-82	1143	0	0	27.9	-16.1	32.2
4500200	99	DIRN	SUR	42	-83	1929	0	0	24.6	4.9	25.1
4500202	99	DIRN	SUR	42	-83	1825	0	0	32.2	-10.9	34.0
4500203	99	DIRN	SUR	41	-83	1610	0	0	35.3	15.8	38.7
4500204	99	DIRN	SUR	42	-82	2230	0	0	35.5	-18.1	39.8
4500205	99	DIRN	SUR	42	-82	1668	0	0	29.3	13.8	32.4
4500206	99	DIRN	SUR	42	-82	1482	0	0	27.7	-20.3	34.3
4500207	99	DIRN	SUR	42	-81	1977	0	0	41.2	21.9	46.7
4500208	99	DIRN	SUR	42	-81	2150	0	0	34.2	10.9	35.9
4500209	99	DIRN	SUR	43	-82	2321	0	0	22.6	-35.3	41.9
4500220	99	DIRN	SUR	43	-79	2493	0	0	45.6	-5.0	45.9
4500221	99	DIRN	SUR	45	-73	2149	0	0	27.6	-3.4	27.8
45005	99	DIRN	SUR	42	-82	486	0	0	30.2	11.1	32.2
45012	99	DIRN	SUR	44	-77	469	0	0	25.4	11.8	28.0
45132	99	DIRN	SUR	43	-81	408	0	0	36.3	3.6	36.5
45135	99	DIRN	SUR	44	-77	471	0	0	23.6	0.1	23.7
45137	99	DIRN	SUR	46	-81	538	0	0	20.4	-0.7	20.4
45139	99	DIRN	SUR	43	-80	281	0	0	33.0	5.1	33.3
45142	99	DIRN	SUR	43	-79	469	0	0	34.0	0.4	34.0
45143	99	DIRN	SUR	45	-81	524	0	0	22.5	-0.3	22.5
45147	99	DIRN	SUR	42	-83	391	0	0	24.8	-9.4	26.6
45149	99	DIRN	SUR	44	-82	466	0	0	23.6	-7.1	24.7
45151	99	DIRN	SUR	45	-79	420	0	0	23.7	-2.5	23.8
45152	99	DIRN	SUR	46	-80	357	0	0	28.2	-0.7	28.2
45154	99	DIRN	SUR	46	-83	495	0	0	24.3	8.2	25.7
45159	99	DIRN	SUR	44	-79	319	0	0	33.2	9.8	34.6
45162	99	DIRN	SUR	45	-83	171	0	0	19.7	7.0	20.9
45165	99	DIRN	SUR	42	-83	424	0	0	31.1	28.3	42.1

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

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
45167	99	DIRN	SUR	42	-80	424	0	0	34.6	4.6	34.9
45175	99	DIRN	SUR	46	-85	370	0	0	24.7	4.0	25.0
45176	99	DIRN	SUR	42	-82	426	0	0	29.7	-7.2	30.5
45178	99	DIRN	SUR	45	-73	317	0	0	27.2	0.7	27.2
45190	99	DIRN	SUR	43	-77	341	0	0	21.6	9.1	23.4
45196	99	DIRN	SUR	42	-82	360	0	0	69.3	6.2	69.6
45197	99	DIRN	SUR	42	-82	330	0	0	28.8	-18.5	34.3
45200	99	DIRN	SUR	42	-83	310	0	0	23.2	6.2	24.0
45202	99	DIRN	SUR	42	-83	328	0	0	32.3	-11.5	34.2
45203	99	DIRN	SUR	41	-83	293	0	0	34.5	15.5	37.8
45204	99	DIRN	SUR	42	-82	373	0	0	37.5	-17.5	41.4
45205	99	DIRN	SUR	42	-82	279	0	0	28.1	12.9	30.9
45206	99	DIRN	SUR	42	-82	278	0	0	26.0	-20.1	32.9
45207	99	DIRN	SUR	42	-81	313	0	0	40.6	20.2	45.3
45208	99	DIRN	SUR	42	-81	352	0	0	32.0	11.5	34.0
45209	99	DIRN	SUR	43	-82	367	0	0	25.1	-34.4	42.5
45220	99	DIRN	SUR	43	-79	416	0	0	47.2	-5.1	47.4
45221	99	DIRN	SUR	45	-73	326	0	0	30.3	-4.7	30.7
5001002	99	DIRN	SUR	20	-65	316	0	0	30.3	-1.9	30.4
5801955	99	DIRN	SUR	24	-65	2935	0	0	12.5	0.2	12.5
5801958	99	DIRN	SUR	35	-77	435	0	0	29.0	1.8	29.1
5801959	99	DIRN	SUR	34	-77	2073	0	0	24.4	1.2	24.4
6001002	99	DIRN	SUR	32	-75	201	0	0	26.2	-10.8	28.3
6100198	99	DIRN	SUR	37	-2	350	0	0	19.7	7.3	21.0
6100281	99	DIRN	SUR	40	0	260	0	0	38.1	-27.1	46.7
6100417	99	DIRN	SUR	38	0	297	0	0	93.3	123.6	154.8
6200001	99	DIRN	SUR	45	-5	548	0	0	20.9	1.1	20.9
6200024	99	DIRN	SUR	44	-3	314	0	0	29.3	4.1	29.6
6200025	99	DIRN	SUR	44	-6	331	0	0	21.1	9.5	23.2
6200029	99	DIRN	SUR	49	-12	657	0	0	15.4	1.7	15.5
6200050	99	DIRN	SUR	50	-4	664	0	0	14.4	6.6	15.8
6200081	99	DIRN	SUR	51	-13	665	0	0	12.6	-0.6	12.6
6200082	99	DIRN	SUR	44	-8	483	0	0	58.1	83.1	101.4
6200083	99	DIRN	SUR	43	-9	544	0	0	68.5	-26.7	73.5
6200084	99	DIRN	SUR	42	-9	466	0	0	14.8	4.2	15.3
6200085	99	DIRN	SUR	36	-7	357	0	0	12.1	0.4	12.2
6200091	99	DIRN	SUR	53	-5	569	0	0	18.9	8.9	20.9
6200092	99	DIRN	SUR	51	-11	689	0	0	15.7	3.9	16.2
6200094	99	DIRN	SUR	52	-7	580	0	0	19.1	3.9	19.5
6200095	99	DIRN	SUR	53	-16	675	0	0	14.7	10.2	17.9
6200103	99	DIRN	SUR	50	-3	613	0	0	16.7	8.9	18.9

DRIFTER MONITORING STATISTICS (EUCOS)

MONITORING CENTRE : ECMWF

ELEMENT MONITORED : WIND DIRECTION (DEGREES)
(CONTINUED)

WMO IDENT	OBS TIME	ELM	LEVEL	MEAN LAT	MEAN LONG	NUM OBS	NUM GROSS	% GROSS	SD	BIAS	RMS
6200105	99	DIRN	SUR	55	-13	708	0	0	10.8	0.5	10.8
6200163	99	DIRN	SUR	47	-8	615	0	0	14.0	2.7	14.2
6200442	99	DIRN	SUR	49	-16	655	0	0	13.9	1.5	14.0
62029	99	DIRN	SUR	49	-13	1332	0	0	15.8	1.5	15.8
62050	99	DIRN	SUR	50	-4	1310	0	0	15.0	6.1	16.2
62081	99	DIRN	SUR	51	-13	1322	0	0	13.0	-0.5	13.0
62091	99	DIRN	SUR	53	-5	550	0	0	18.3	8.3	20.1
62092	99	DIRN	SUR	51	-11	677	0	0	15.9	3.6	16.3
62094	99	DIRN	SUR	52	-7	566	0	0	18.9	2.8	19.1
62095	99	DIRN	SUR	53	-16	668	0	0	14.8	9.9	17.8
62103	99	DIRN	SUR	50	-3	1232	0	0	17.0	9.8	19.6
62105	99	DIRN	SUR	55	-13	1423	0	0	11.3	0.8	11.4
62112	99	DIRN	SUR	58	0	1256	0	0	14.2	2.4	14.4
62114	99	DIRN	SUR	58	0	1137	0	0	12.8	-0.2	12.8
62163	99	DIRN	SUR	48	-9	1231	0	0	14.3	2.8	14.6
62305	99	DIRN	SUR	50	0	1231	0	0	25.7	6.8	26.6
62442	99	DIRN	SUR	49	-16	1305	0	0	14.8	1.5	14.9
6400045	99	DIRN	SUR	59	-12	658	0	0	11.9	1.5	12.0
6400046	99	DIRN	SUR	61	-4	719	0	0	10.5	2.5	10.8
64041	99	DIRN	SUR	61	-3	1402	0	0	11.7	6.0	13.1
64045	99	DIRN	SUR	59	-12	1323	0	0	12.4	1.9	12.6
64046	99	DIRN	SUR	61	-4	1444	0	0	10.8	2.6	11.1
7001004	99	DIRN	SUR	20	-65	1073	0	0	13.9	-1.1	13.9

4.12 Table 24 - List of Assimilated BUFR Encoded Radiosonde Stations

ASDE09	ATGU3FT	DEN	DSQL7	FPUW5GN	GQBZLZL	JNKN7JF	JPBN	KMPLHPW
LAGY8	LAGZ8	LAR	LRYPE3U	SMLQ	TLH	WDK38HS	WFF	XKQLWQB
YLV96WM	2TDJJ8J	7JOO	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	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	30557	30673	30935	31004	31770
31873	31977	32061	32215	32540	34122	34172	34731	35121
35671	37055	40179	40186	42056	42079	42101	42111	42182
42361	42369	42379	42634	42647	42667	42971	43041	43049
43150	43185	43243	43353	43466	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	67083	68263
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	82411
82705	82824	82917	82965	83208	83378	83525	83554	83566
83612	83649	83746	83768	83779	83827	83840	83899	83937
84372	84516	84622	84754	85442	85799	85934	87155	87585
87860	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

ASDE09	ATGU3FT	CMA	DEN	DSQL7	edmonton	FPUW5GN	GQBZLZL
JNKN7JF	KMPLHPW	LAGY8	LAGZ8	LAR	LRYQE3U	SMLQ	TLH
WFF	XKQLWQB	YLV96WM	2TDJJ8J	7JOO	7JUNA4N	7KPB	9ZT9MRK
01004	01010	01028	01241	01400	01415	02836	02963
06610	07110	07145	07510	07645	07761	08001	08023
08221	08302	08383	08430	08508	08522	08536	11010
11120	11240	12575	14015	17607	40186	44453	48698
50557	50774	50953	51076	51243	51431	51463	51644
51709	51777	51828	51839	52203	52267	52323	52418
52652	52681	52818	52836	52866	52983	53068	53463
53543	53614	53772	53845	53915	54102	54135	54161
54292	54340	54374	54511	54662	54727	54857	55299
56029	56046	56080	56137	56146	56187	56492	56571
56691	56739	56778	56964	56985	57083	57127	57131
57245	57461	57494	57516	57541	57687	57749	57816
57972	57993	58027	58150	58203	58238	58362	58424
58606	58633	58665	58725	58847	59023	59134	59211
59280	59293	59316	59431	59758	59981	60096	64384
72413	72801	76743	76903	83952	84629	84734	89002
89642	89859	91925	91938	91948	91958	94001	94005
94159	94160	94653	94767	94865			94113

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 TEMP/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.