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Weather Statistics for Airports, 2003-2012

Greenland

Ellen Vaarby Laursen

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Author(s):
Ellen Vaarby Laursen

Other contributors:
Thomas M. Madsen, Konrad Gislason, Ove Kjær

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Abstract

This report contains statistics on visibility, ceiling and wind observed at selected Greenlandic airports, 1 February 2003 - 31 January 2012. It is primarily intended for aeronautical meteorologists.

Resumé

Rapporten indeholder statistik af sigtbarhed, ceiling og vind observeret ved udvalgte grønlandske lufthavne, 1. februar 2003 - 31. januar 2012. Den primære målgruppe er luftfartsmeteorologer.

Introduction

This report presents 9 years of airport weather statistics, 2003-2012, for the 7 Greenlandic airports listed in Table 1. The 7 airports were selected as the top Greenlandic airports identified by the meteorologists as most valuable for operational aeronautical meteorology, when wishing for both West coast and East coast airports to be represented.

Together with the similar report of Danish and Faroe Islands airport weather statistics (Laursen, 2012), the report is answering the need for an update of the 1996-2001 airport weather statistics of (Jørgensen 2003), and the aim has been to publish statistics on recent data in a design suitable for aeronautical meteorologists' everyday work and educating purposes.

Airport	Availability *)	Remarks	Start AUTO METAR
BGSF Kangerlussuaq/Sdr. strømfjord	97,8%.		21 June 2011
BGGH Nuuk/Godthåb	75,7%.	Lack of night-time observations and fewer weekend observations, 2003-2006	24 May 2005
BGBW Narsarsuaq	63,7%	Lack of night-time and Sunday observations, 2003-2010.	28 June 2004
BGJN Ilulissat/Jakobshavn	85,4%	lack of night-time and Sunday observations, 2003-2004	31 March 2004
BGSS Sisimiut/Holsteinsborg	75,4%	Low data quality in AUTO METAR	30 January 2004
BGAA Aasiaat/Egedesminde	78,6% **)	Statistics only on hours 08-17 UTC. Low data quality in AUTO METAR	12 April 2004
BGKK Kulusuk	75,7%**)	Statistics only on hours 08-17 UTC. Low data quality in AUTO METAR. Lack of observations on Sundays and Mondays	11 June 2005

*) Availability when expecting hourly observations around the clock 1 February 2003 – 31 January 2012 (total 78.888 observations)
**) Calculated for hours 08-17 UTC only

Table 1

Please take notice that the best Greenlandic METAR data material available for this work, other than the manned METAR of Kangerlussuaq Airport, generally had low availability and contained many syntax errors in older data, that were not possible to correct with automated re-run of an updated decoding. The low data availability of the airports involved is therefore partly because of differences in opening hours –e.g. 'normally no data/flight on Sundays', *but also* partly because of exclusion from the statistics material of METAR that during the automated decoding process were flagged as having syntax errors.

This means that when comparing airports, the reader should always have these shortcomings in the data material representativeness in mind, and accordingly remember to confer with the airport's total availability and the information on the observation's yearly, monthly and hourly distribution supplied in the availability section for each airport.

All of the statistics are calculated from the METAR and SPECI (cf. FM 15-XIII Ext. METAR and FM 16-XIII Ext. SPECI in WMO pub. No. 306) issued by the airports, received by DMI and decoded and stored in the DMI Weather Services Department MySQL database METAF. The decoded data of the METAF database were found to be the most complete and reliable DMI source of decoded recent METAR, even though only observations since 9 January 2003 were available.

To ensure the best representative coverage of the statistics period, the data material for each airport was selected as one observation every hour through the 108 consecutive months starting with February 2003 and ending with, and including, January 2012, yielding 9 complete years of statistics.

To ensure sound coverage of less favourable conditions, each hourly observation was selected

among quality assured observations as the one METAR or SPECI with lowest visibility during that hourly period. In case of a tie, the observation with lowest ceiling was chosen, and in case both visibility and ceiling were constant then the most recently received.

Quality assurance included exclusion of observations that during the automated decoding process were flagged as having syntax errors and exclusion of erroneous observations identified through a manual screening of extremes, outliers and plots of time series of the various parameters.

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Greenland, seasonal and annual statistics

1 February 2003 – 31 January 2012

BGSF Kangerlussuaq/Sdr. Strømfjord

Mittarfik Kangerlussuaq

Location: 67,017°N 50,700°W H: 50 m above msl

BGSF observations in statistics: 77.140 hourly METAR[1] covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall availability of 97,8%.

The BGSF METAR are all manual until 21 June 2011, and mostly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGSF – Frequencies (%) Visibility - Ceiling

No. Obs = 19.030	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0	0,026	0,063	0,068	0,011	0,079
<1 km	0	0	0,037	0,074	0,079	0,021	0,10
<1.5 km	0	0	0,047	0,16	0,19	0,037	0,23
<3.0 km	0	0	0,089	0,49	1,03	0,76	1,79
< 5.0 km	0	0	0,11	0,56	1,41	2,81	4,22
>= 5,0 km or CAVOK	0	0	0,053	0,16	0,68	95,09	95,78
Total	0	0	0,16	0,72	2,10	97,90	100

Table 2

Spring (Apr-May-Jun): BGSF - Frequencies (%) Visibility - Ceiling

No. Obs = 19.198	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,0052	0,057	0,063	0,063	0	0,063
<1 km	0	0,010	0,078	0,099	0,099	0	0,10
<1.5 km	0	0,010	0,10	0,23	0,23	0,010	0,24
<3.0 km	0	0,010	0,13	0,56	0,90	0,31	1,21
< 5.0 km	0	0,010	0,13	0,60	1,07	1,42	2,48
>= 5,0 km or CAVOK	0	0	0,016	0,089	0,38	97,14	97,52
Total	0	0,010	0,15	0,69	1,45	98,55	100

Table 3

[1] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGSF - Frequencies (%) Visibility - Ceiling

No. Obs = 19.385	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,010	0,015	0,021	0,021	0	0,021
<1 km	0	0,010	0,015	0,031	0,031	0,015	0,05
<1.5 km	0	0,010	0,05	0,07	0,07	0,021	0,09
<3.0 km	0	0,010	0,08	0,18	0,25	0,10	0,35
< 5.0 km	0	0,010	0,10	0,28	0,48	0,53	1,02
>= 5,0 km or CAVOK	0	0	0,041	0,098	0,51	98,48	98,98
Total	0	0,010	0,14	0,38	0,99	99,01	100

Table 4

Autumn (Oct-Nov-Dec): BGSF - Frequencies (%) Visibility - Ceiling

No. Obs = 19.527	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,020	0,046	0,061	0,061	0	0,061
<1 km	0	0,026	0,061	0,082	0,092	0	0,09
<1.5 km	0	0,026	0,07	0,18	0,23	0,0051	0,23
<3.0 km	0	0,026	0,09	0,44	1,05	0,77	1,82
< 5.0 km	0	0,026	0,09	0,50	1,39	3,11	4,50
>= 5,0 km or CAVOK	0	0	0,026	0,108	0,48	95,02	95,50
Total	0	0,026	0,11	0,60	1,87	98,13	100

Table 5

Annual: BGSF - Frequencies (%) Visibility - Ceiling

No. Obs = 77.140	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,0091	0,036	0,052	0,053	0,0026	0,056
<1 km	0	0,012	0,048	0,071	0,075	0,0091	0,084
<1.5 km	0	0,012	0,07	0,16	0,18	0,018	0,20
<3.0 km	0	0,012	0,09	0,42	0,81	0,48	1,29
< 5.0 km	0	0,012	0,11	0,49	1,09	1,97	3,06
>= 5,0 km or CAVOK	0	0	0,034	0,11	0,51	96,43	96,94
Total	0	0,012	0,14	0,60	1,60	98,40	100

Table 6

Wind direction histograms

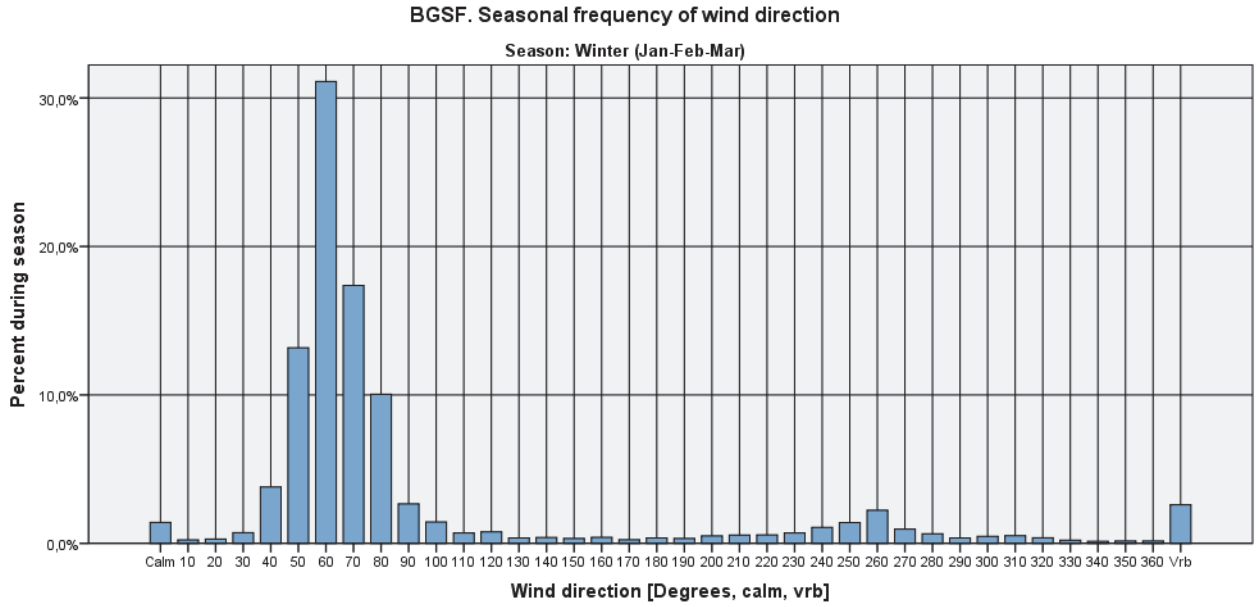


Figure 1

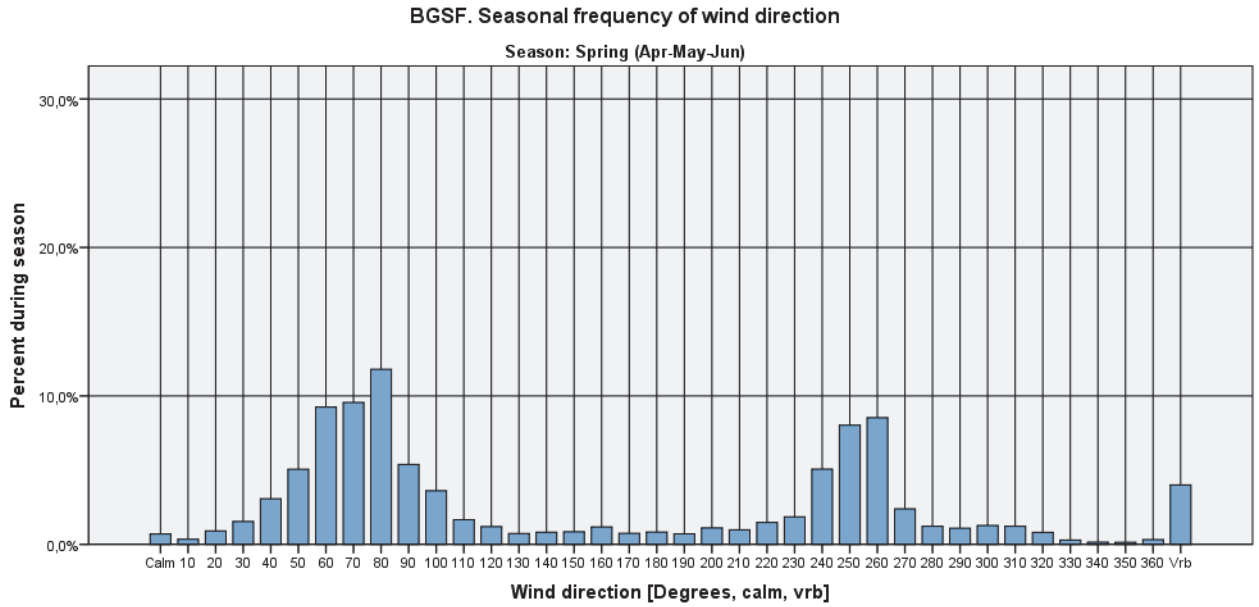


Figure 2

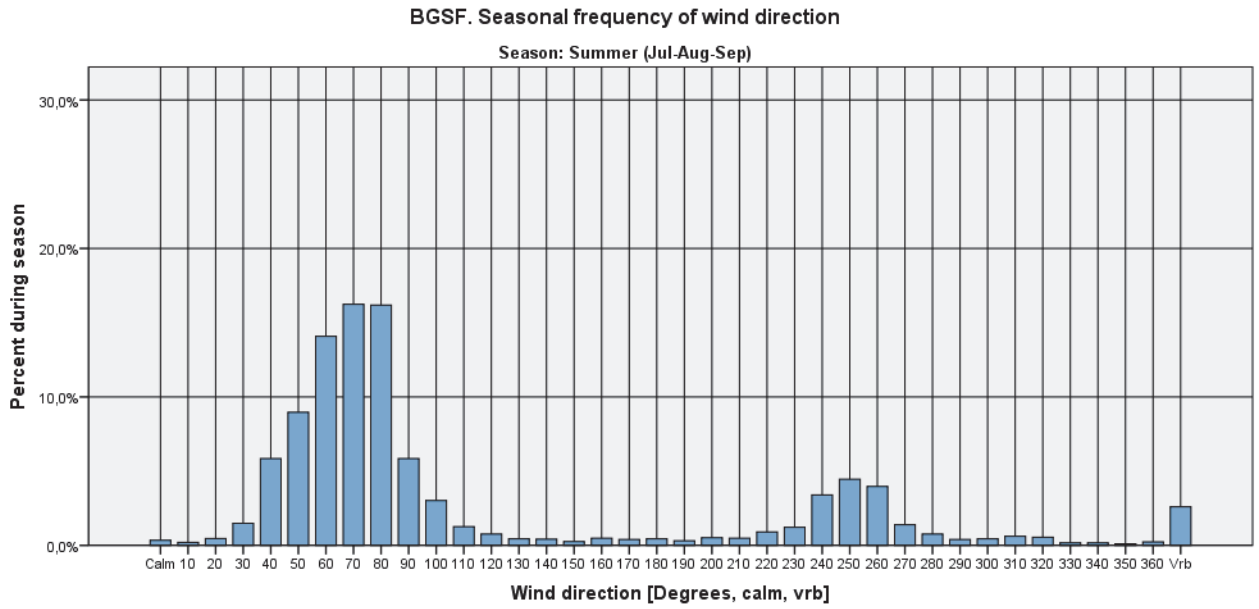


Figure 3

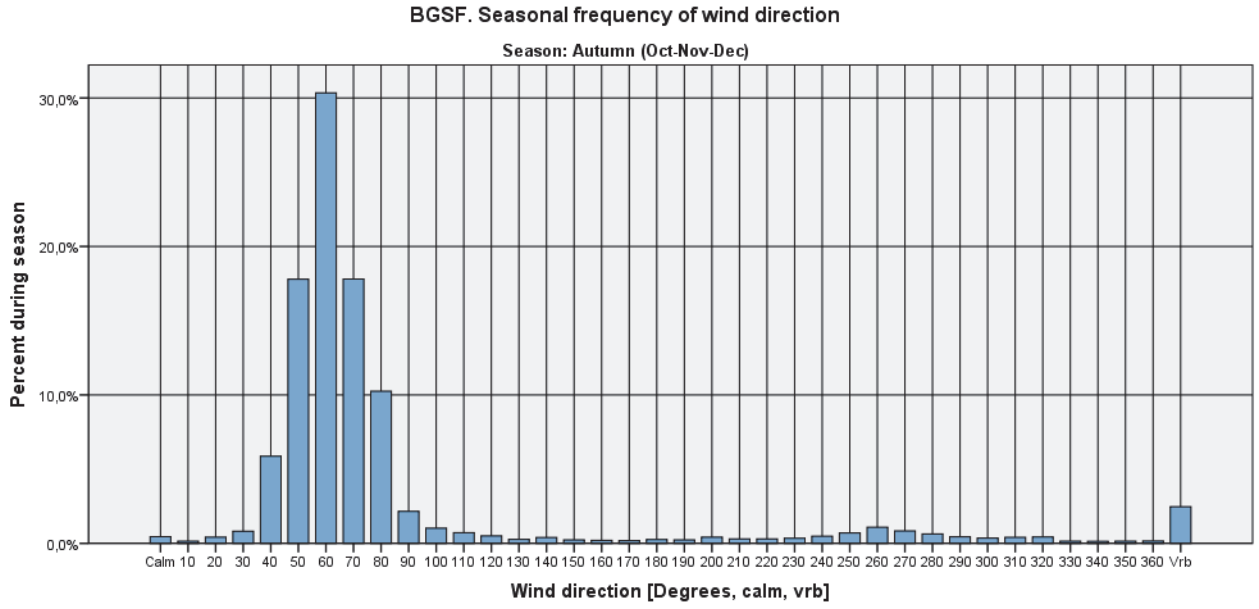


Figure 4

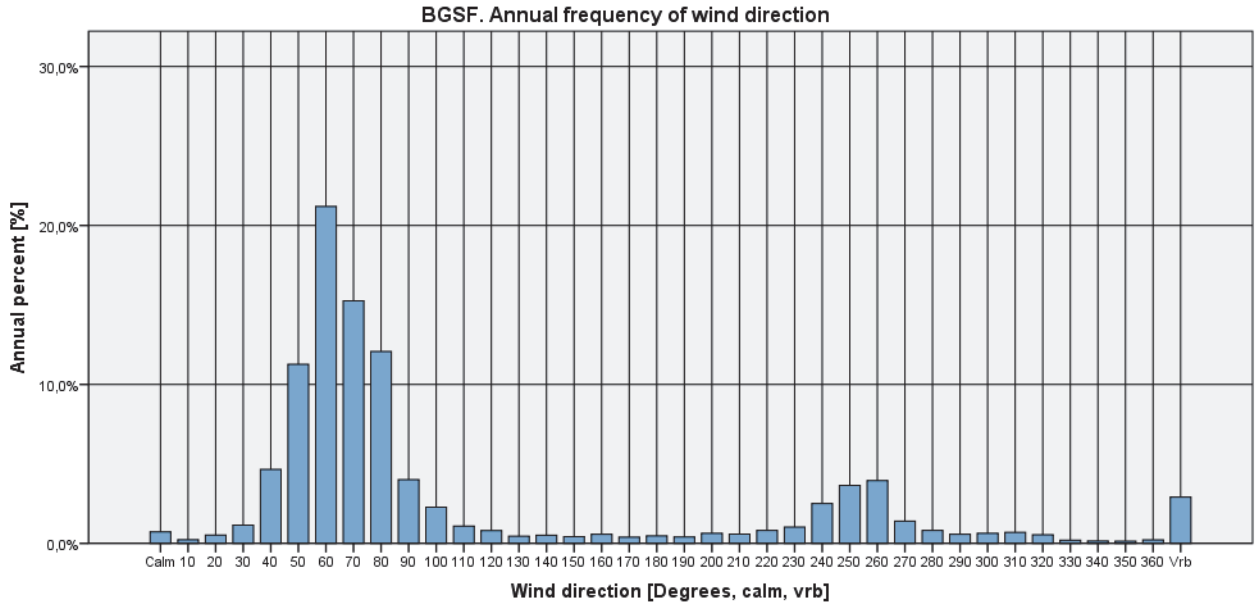

BGSF. Annual frequency of wind direction
Annual percent [%]
30,0%
20,0%
10,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 5

Visibility criteria on wind direction histograms

Visibility<1000 m

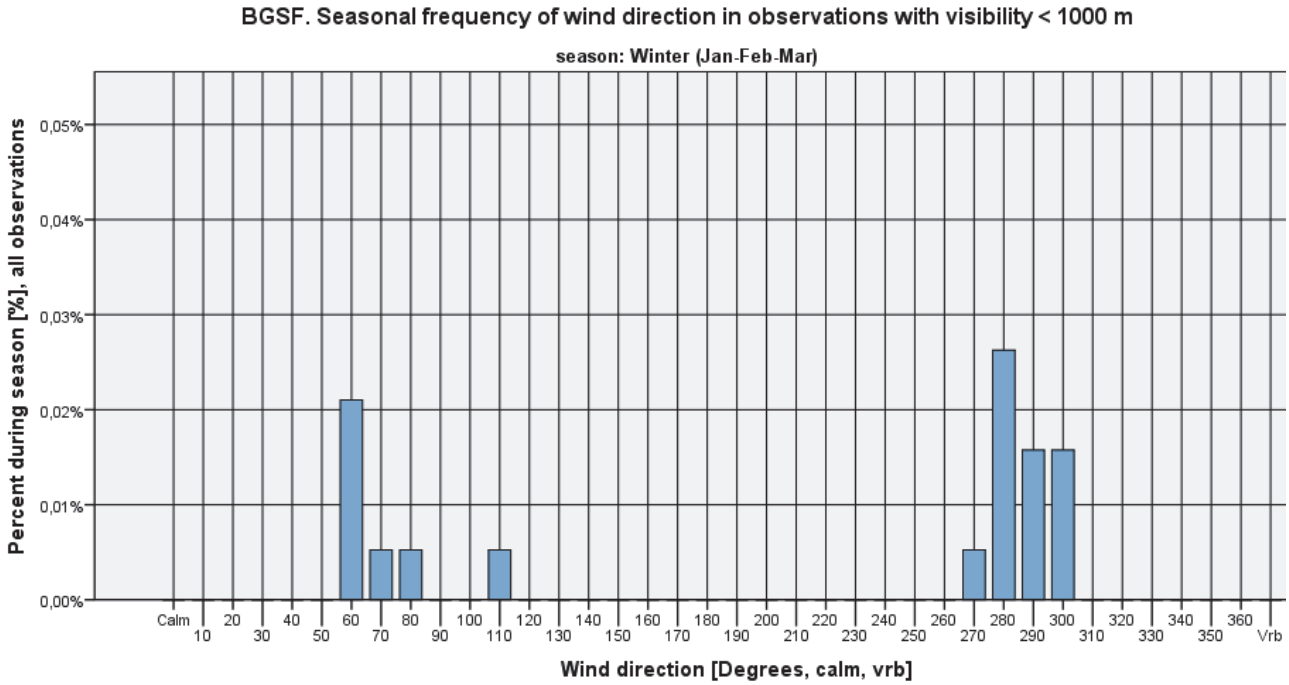


Figure 6

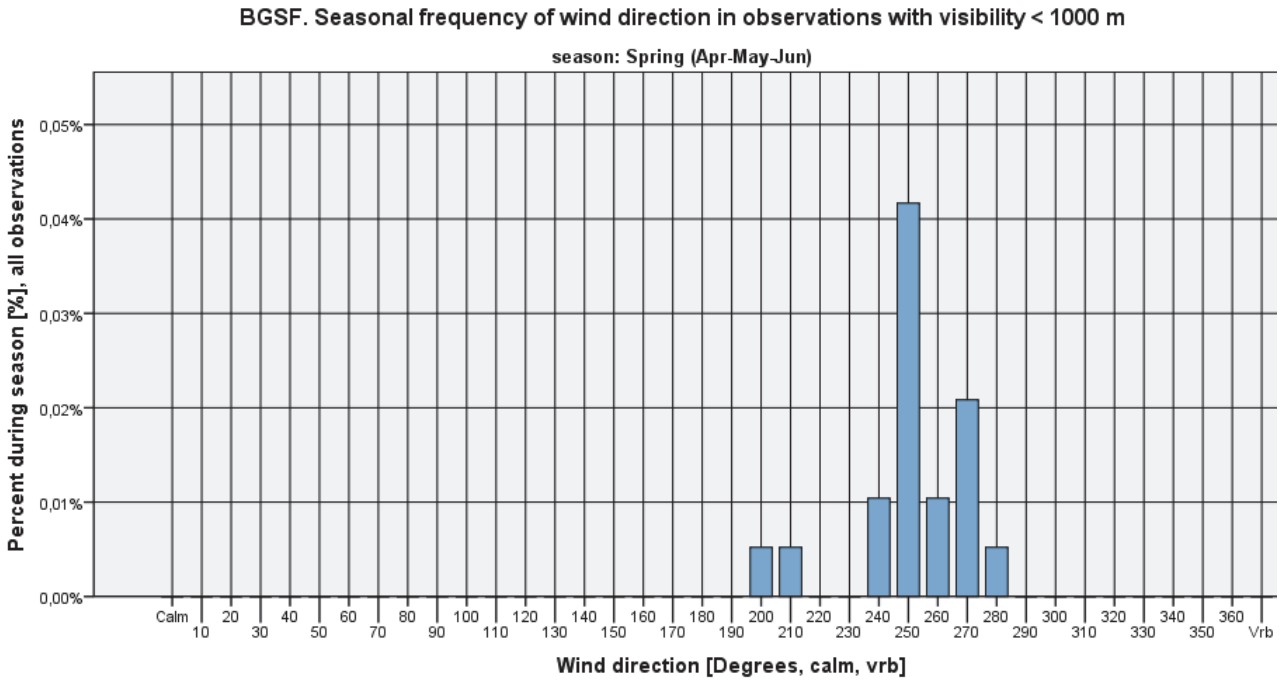


Figure 7

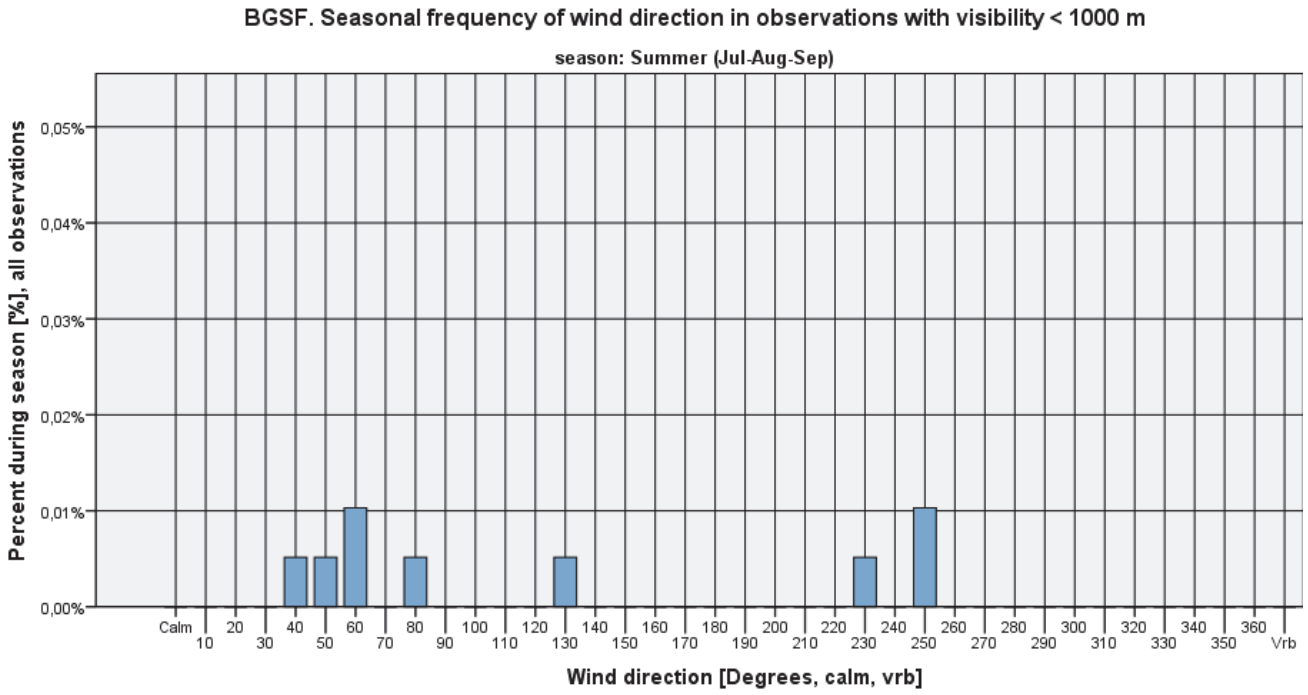


Figure 8

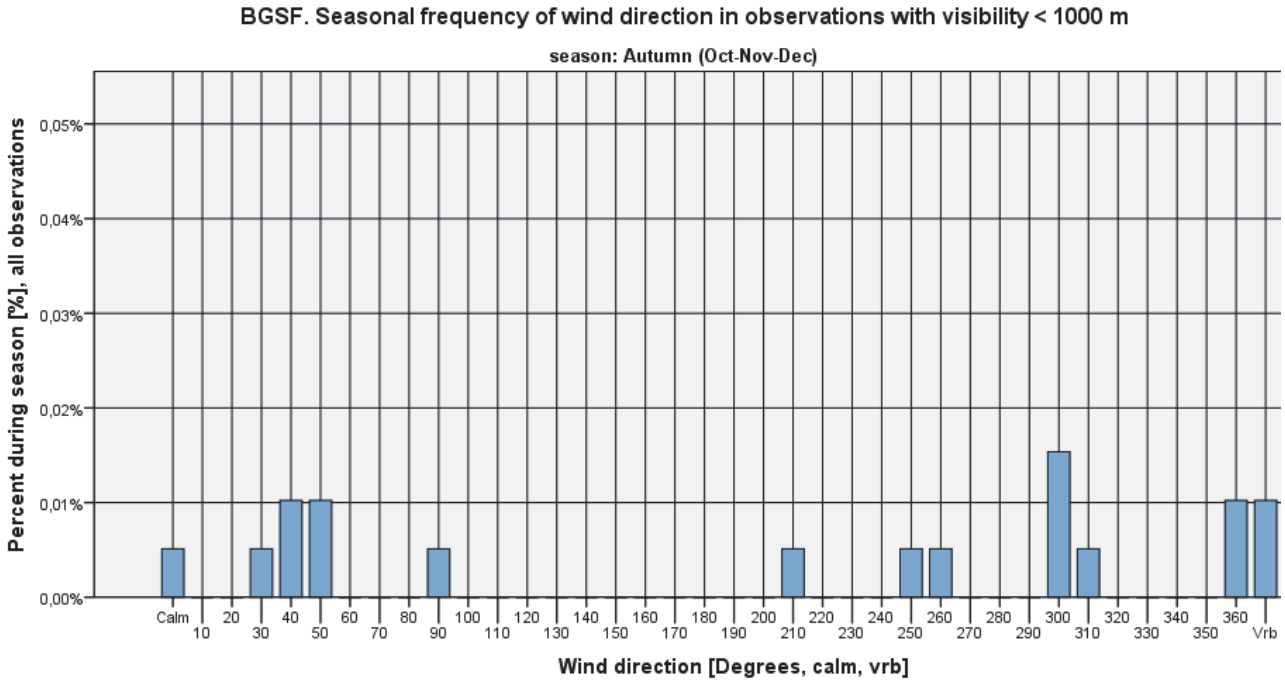


Figure 9

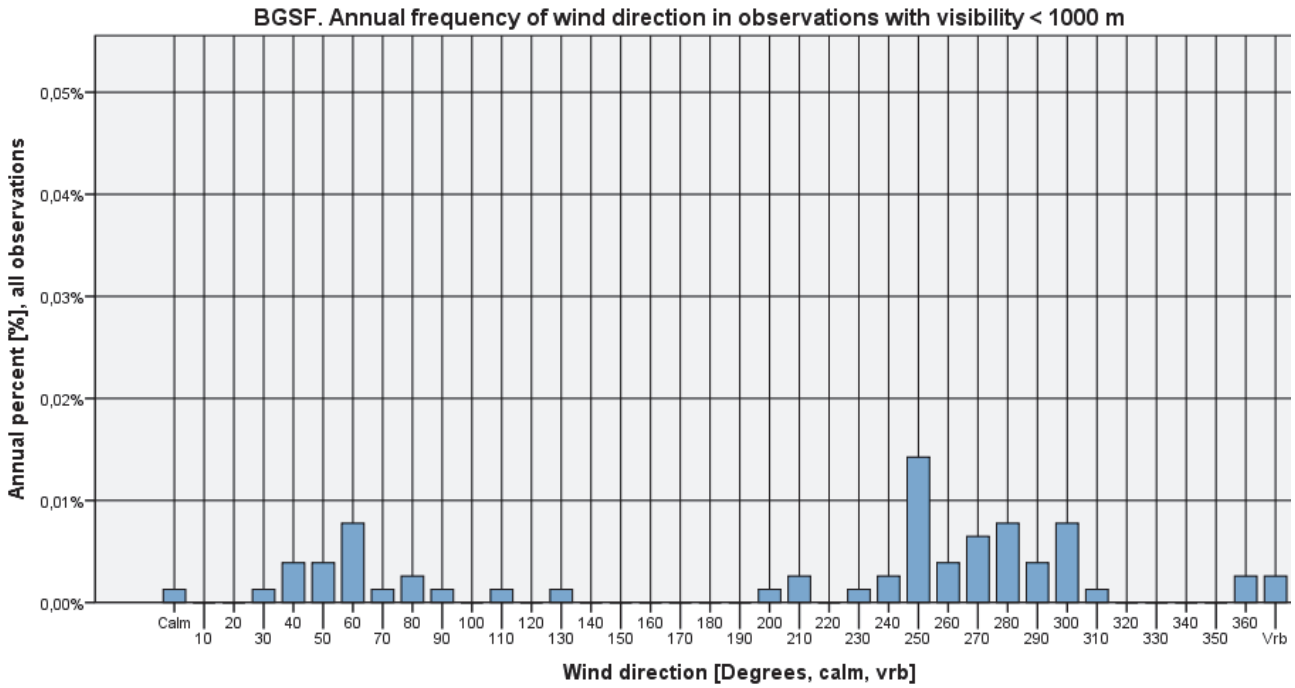

BGSF. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
0,05%
0,04%
0,03%
0,02%
0,01%
0,00%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 10

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

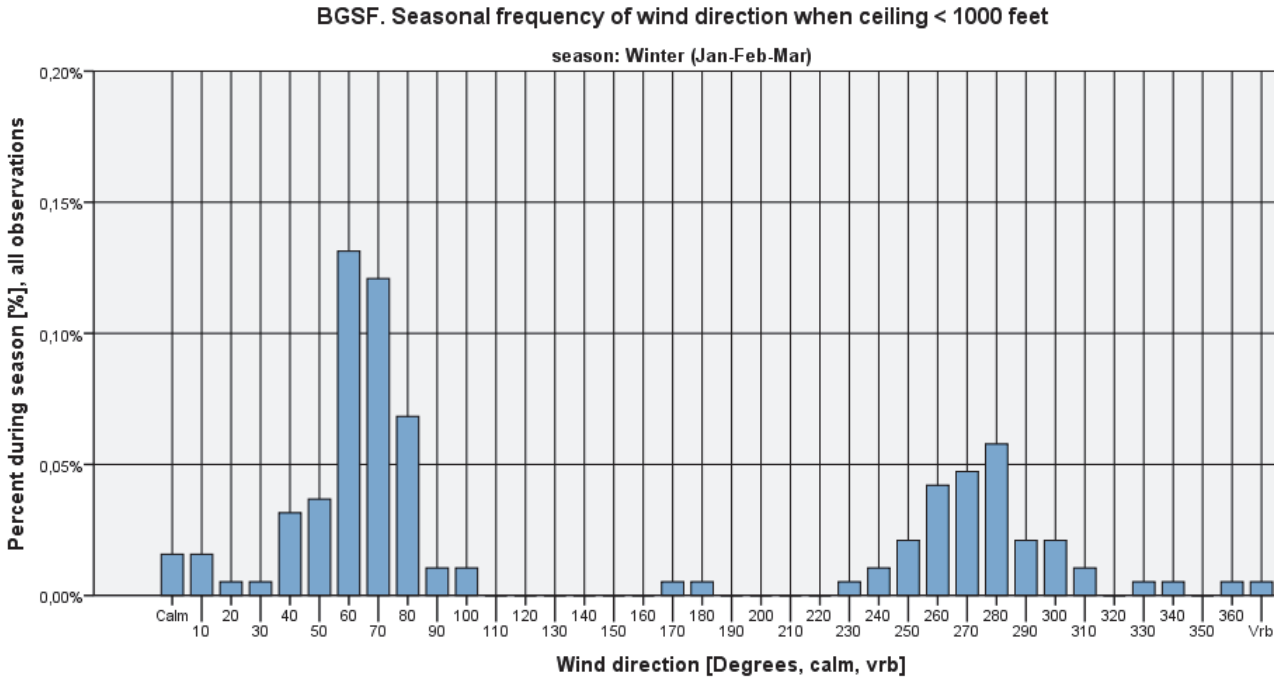


Figure 11

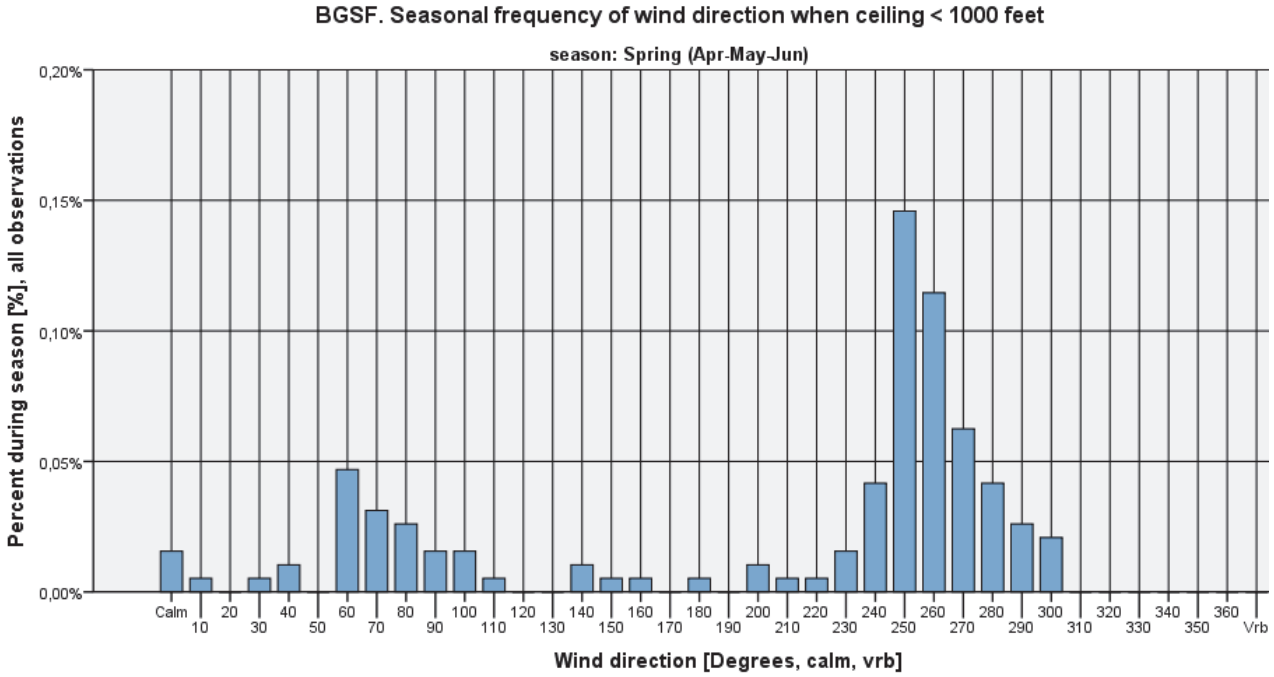


Figure 12

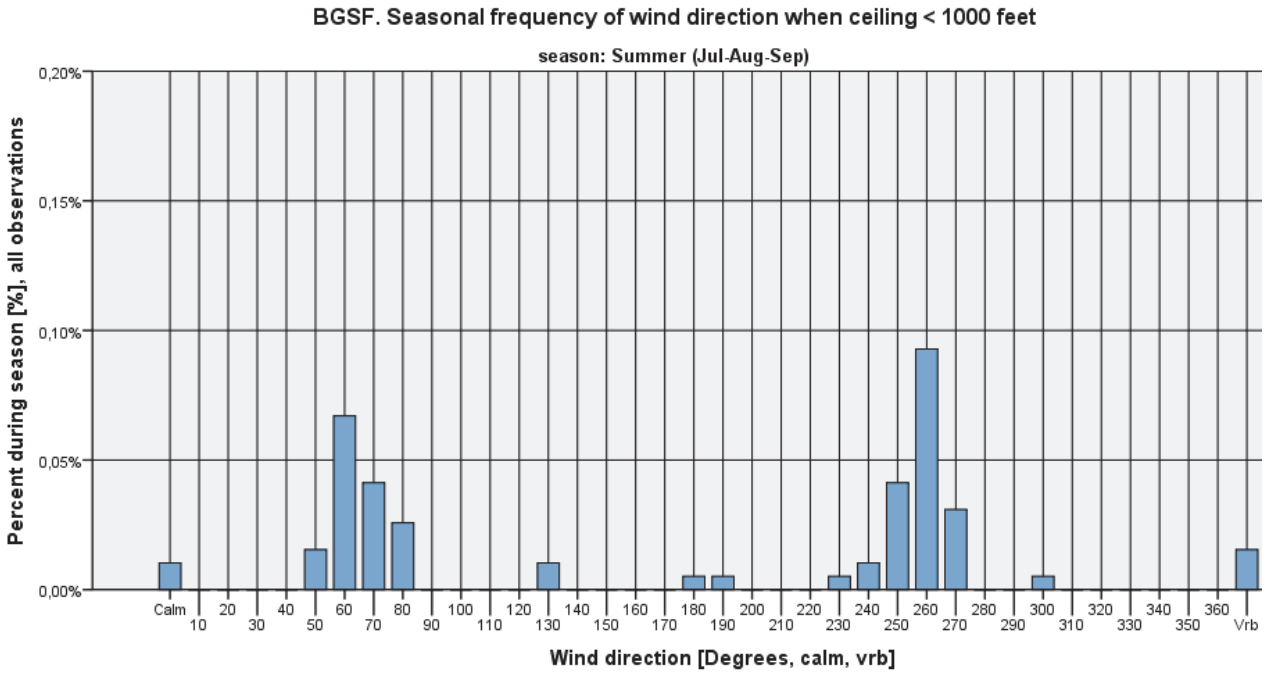


Figure 13

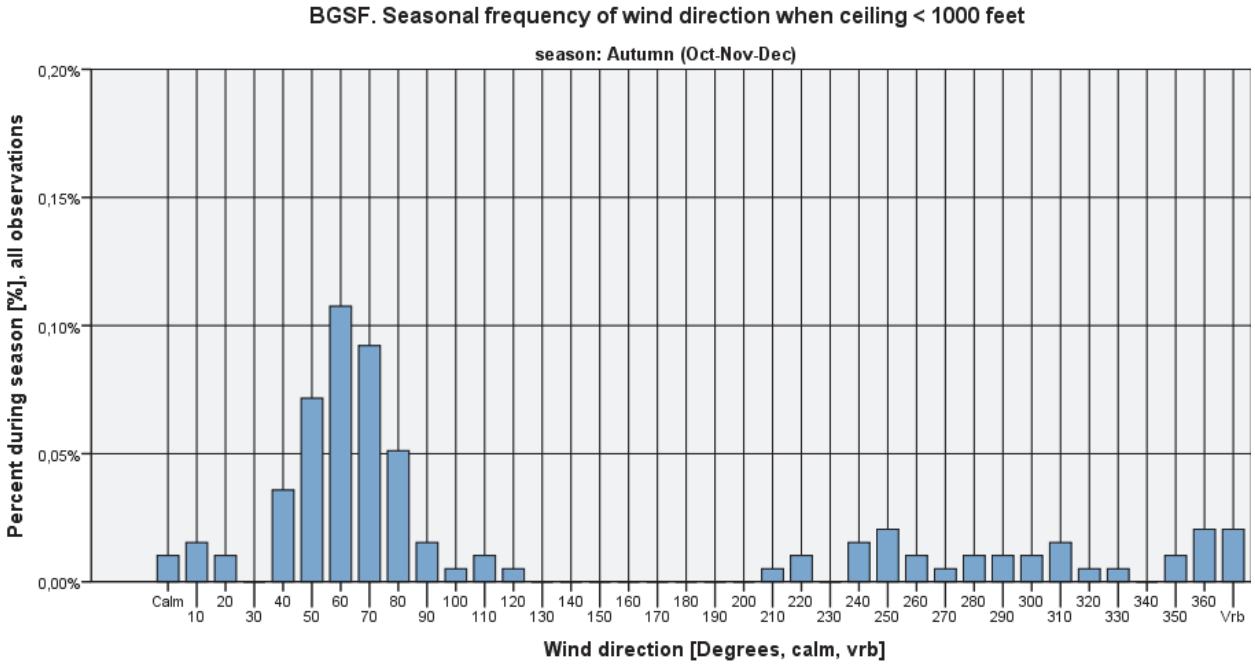


Figure 14

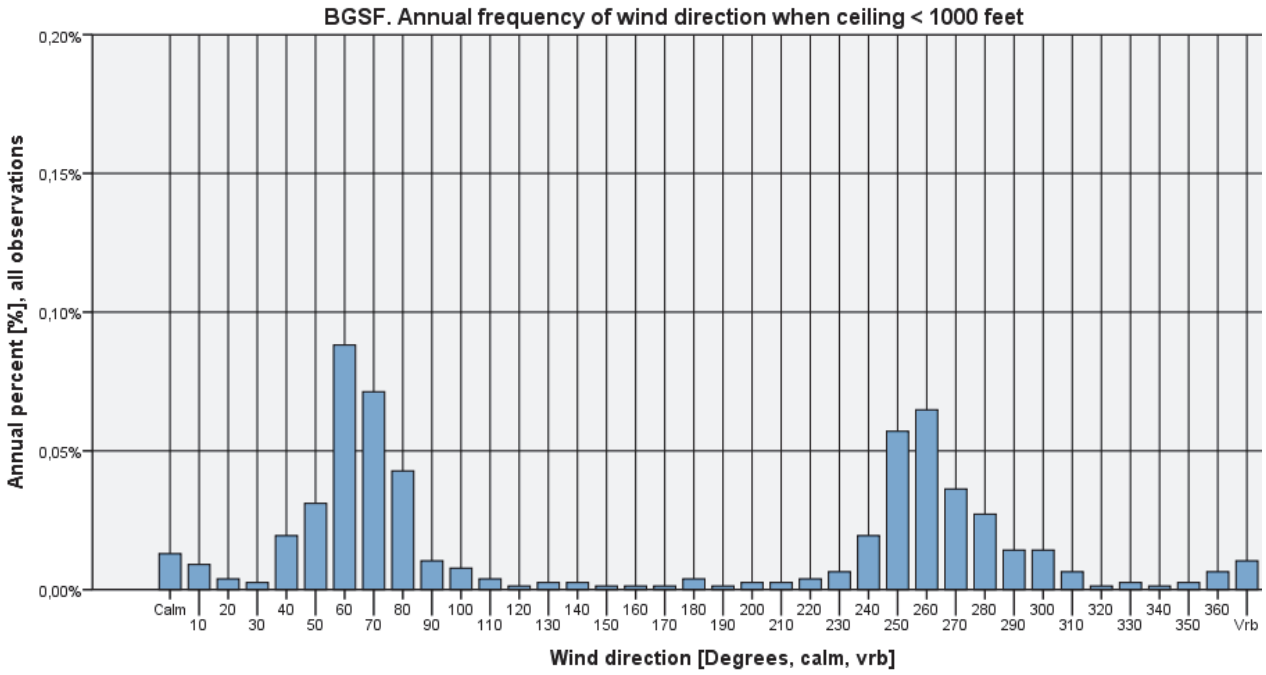

BGSF. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
0,20%
0,15%
0,10%
0,05%
0,00%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 15

Ceiling<500 feet

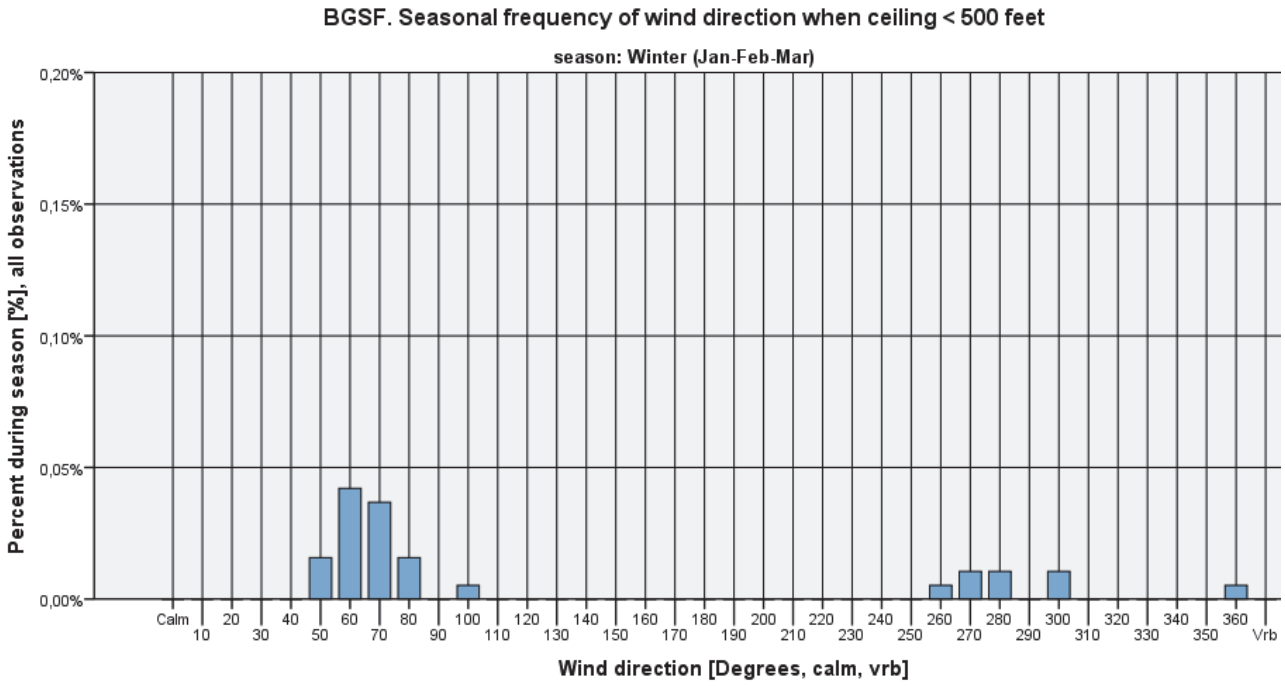


Figure 16

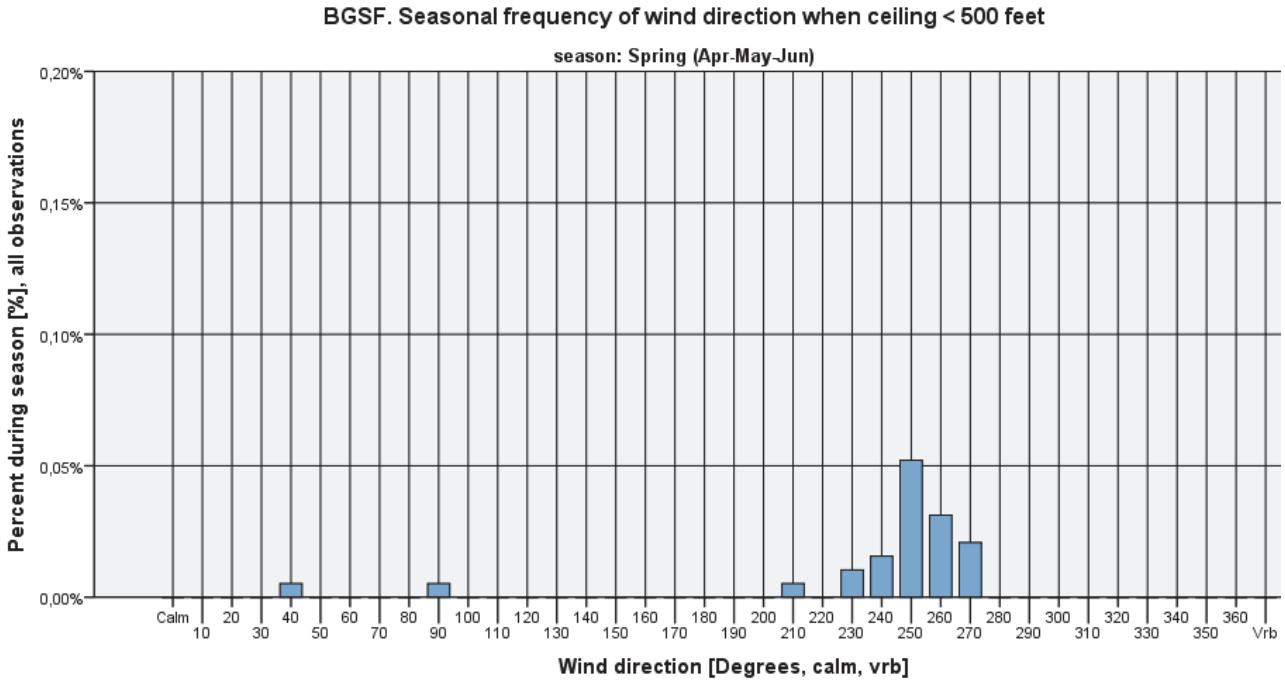


Figure 17

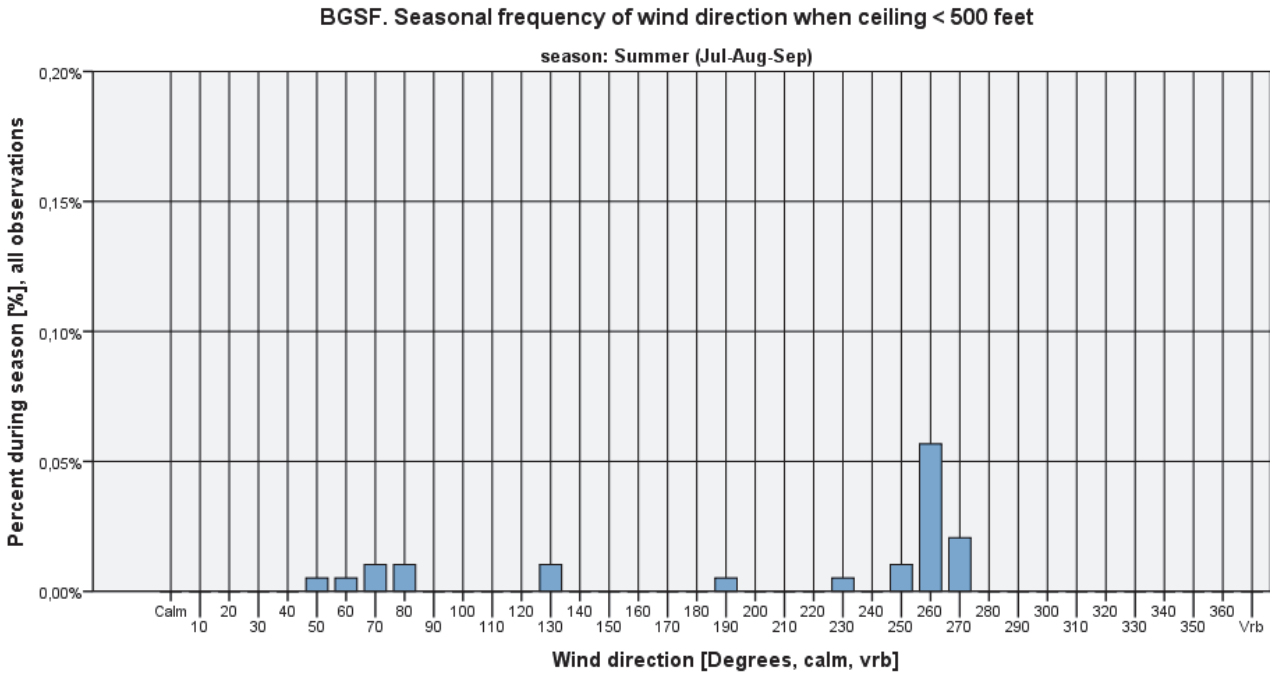


Figure 18

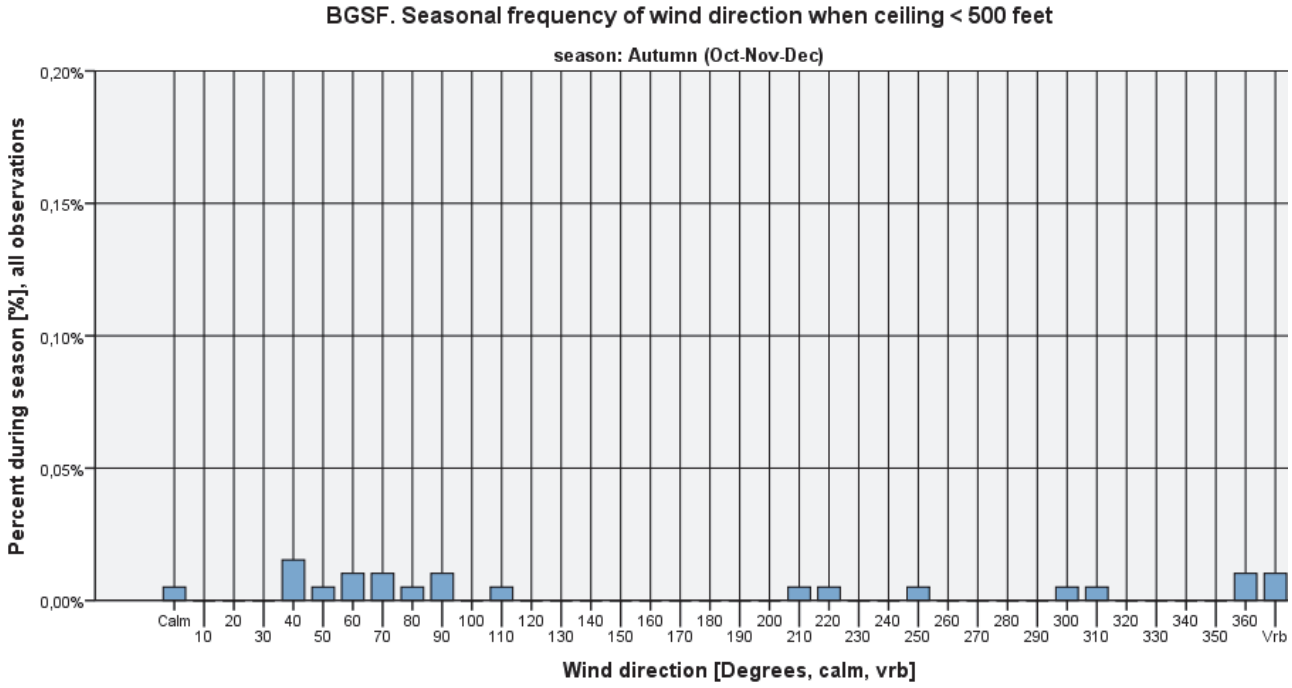


Figure 19

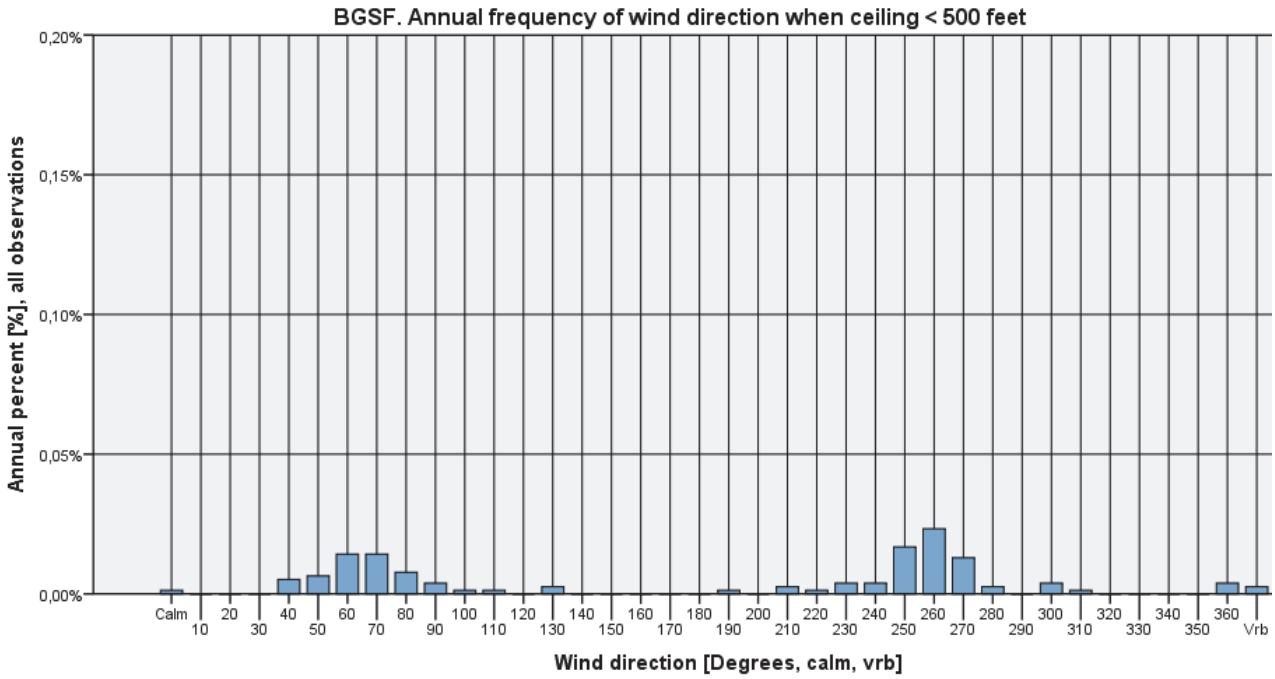
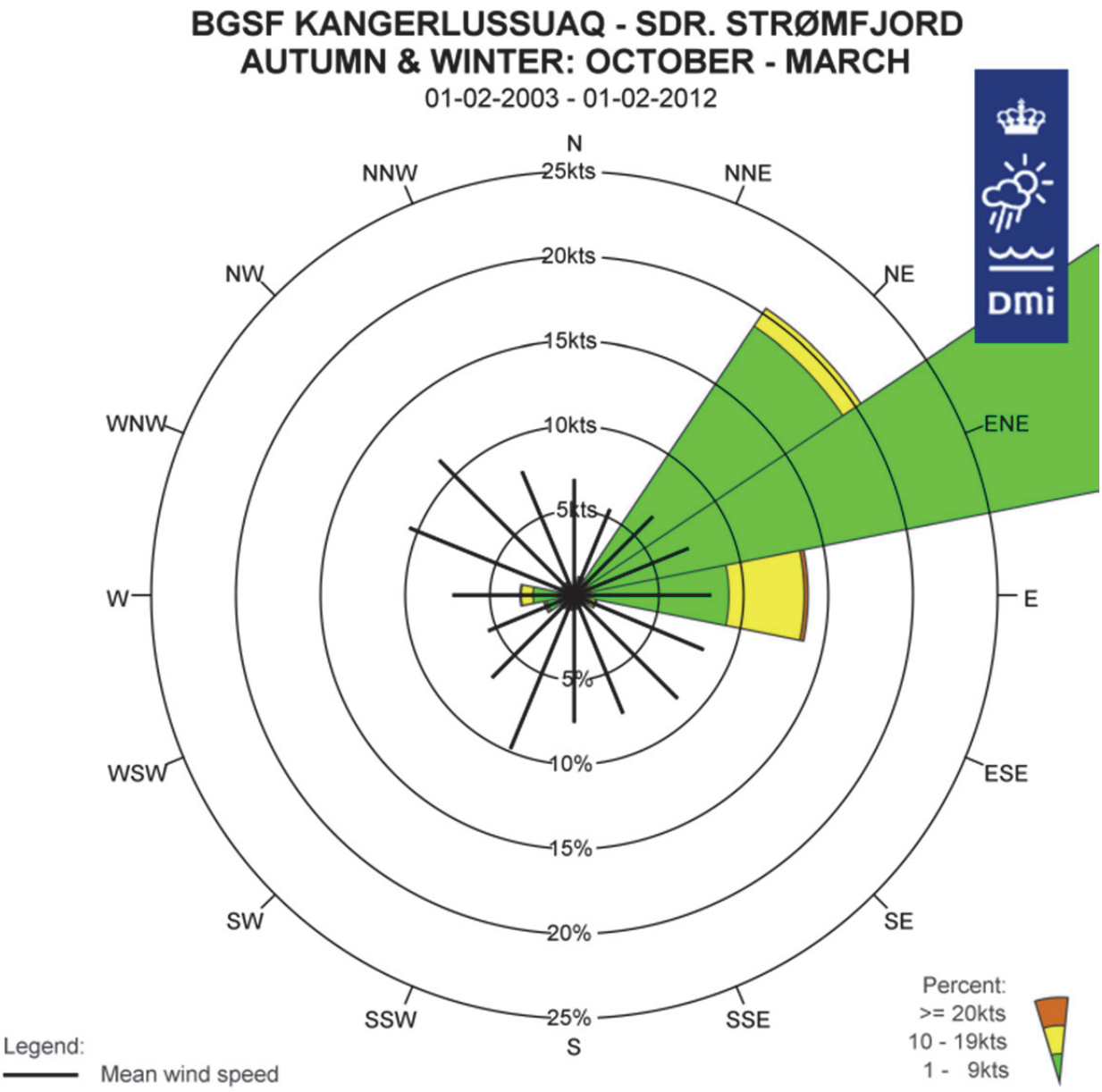

BGSF. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
0,20%
0,15%
0,10%
0,05%
0,00%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 20

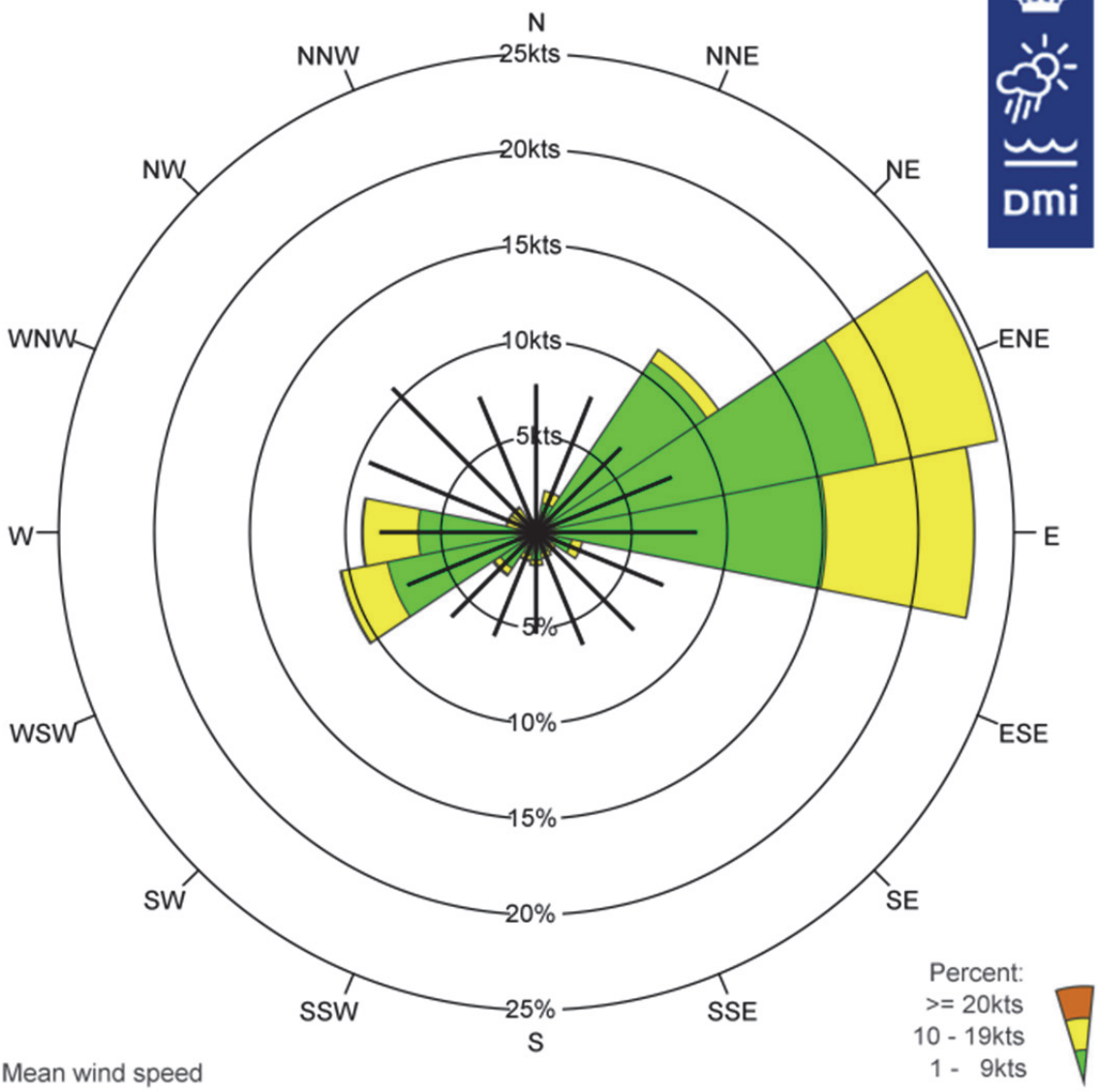
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	0.5	1.1	20.4	48.3	13.8	1.4	0.7	0.6	0.8	0.9	1.0	1.8	3.2	0.8	0.9	0.3	96.5
% 1 - 9kts	0.4	1.0	19.1	39.8	9.1	0.8	0.4	0.4	0.5	0.4	0.7	1.6	2.4	0.4	0.3	0.2	77.7
% 10 - 19kts	0.1	0.1	1.3	8.4	4.5	0.5	0.3	0.2	0.2	0.4	0.2	0.1	0.7	0.3	0.6	0.1	18.0
% >= 20kts	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.8
Mean wind speed	6.8	5.5	6.6	7.3	8.1	8.3	8.7	7.6	7.5	9.8	6.9	5.5	7.2	10.5	11.3	8.0	7.3
Max wind speed	25.0	26.0	21.0	25.0	32.0	28.0	30.0	27.0	24.0	31.0	29.0	30.0	30.0	29.0	26.0	21.0	32.0

Number of observations = 38557
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 1334=3.5%
Observations with calm/varying wind direction are not used in the statistics

BGSF KANGERLUSSUAQ - SDR. STRØMFJORD
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	0.7	2.2	11.5	24.6	22.9	2.5	1.2	1.4	1.7	1.5	2.7	10.5	9.1	1.6	1.6	0.4	96.2
% 1 - 9kts	0.4	1.6	10.7	18.1	15.2	1.9	0.9	1.1	1.5	1.2	2.3	7.9	6.2	0.9	0.6	0.3	70.7
% 10 - 19kts	0.2	0.6	0.7	6.4	7.7	0.5	0.3	0.3	0.3	0.3	0.4	2.5	2.9	0.7	0.9	0.1	25.0
% >= 20kts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4
Mean wind speed	7.7	7.7	6.3	7.7	8.4	7.2	7.1	6.4	5.4	5.9	6.3	7.3	8.2	9.5	10.6	7.7	7.6
Max wind speed	16.0	20.0	18.0	20.0	27.0	26.0	17.0	22.0	21.0	30.0	31.0	29.0	25.0	26.0	24.0	19.0	31.0

Number of observations = 38583
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 1477=3.8%
Observations with calm/varying wind direction are not used in the statistics

Availability

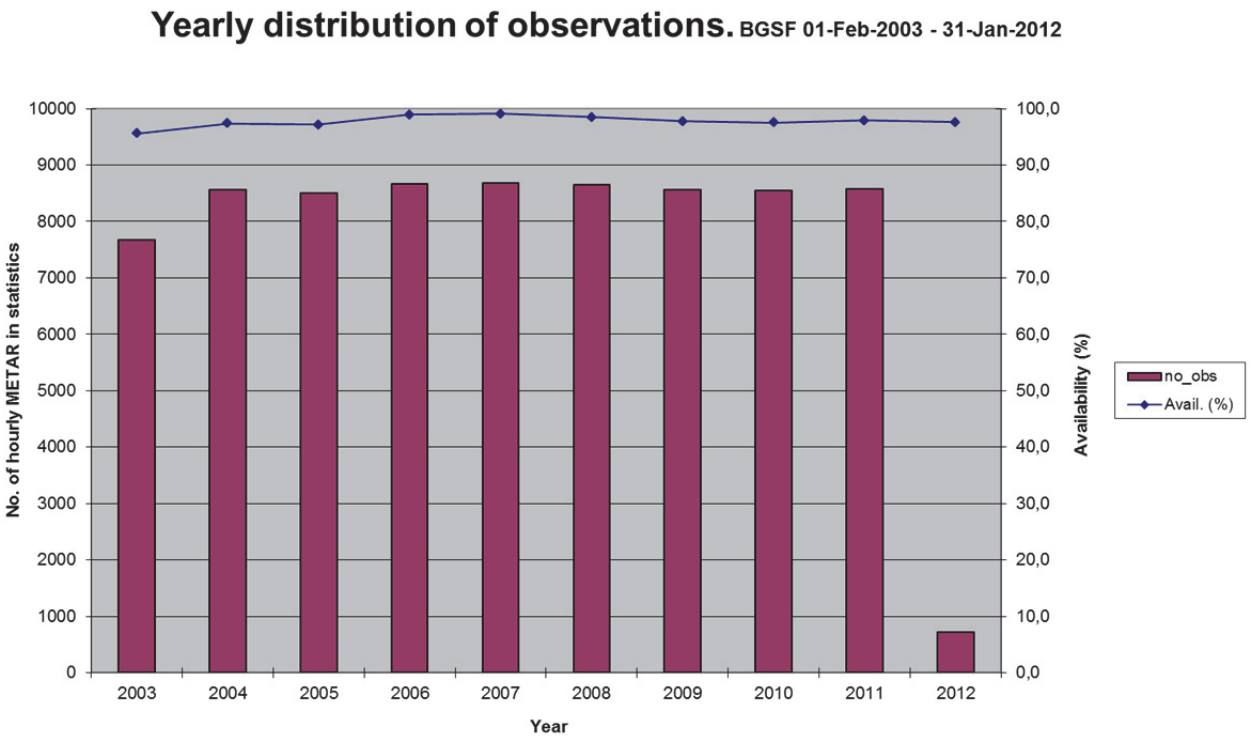


Figure 21

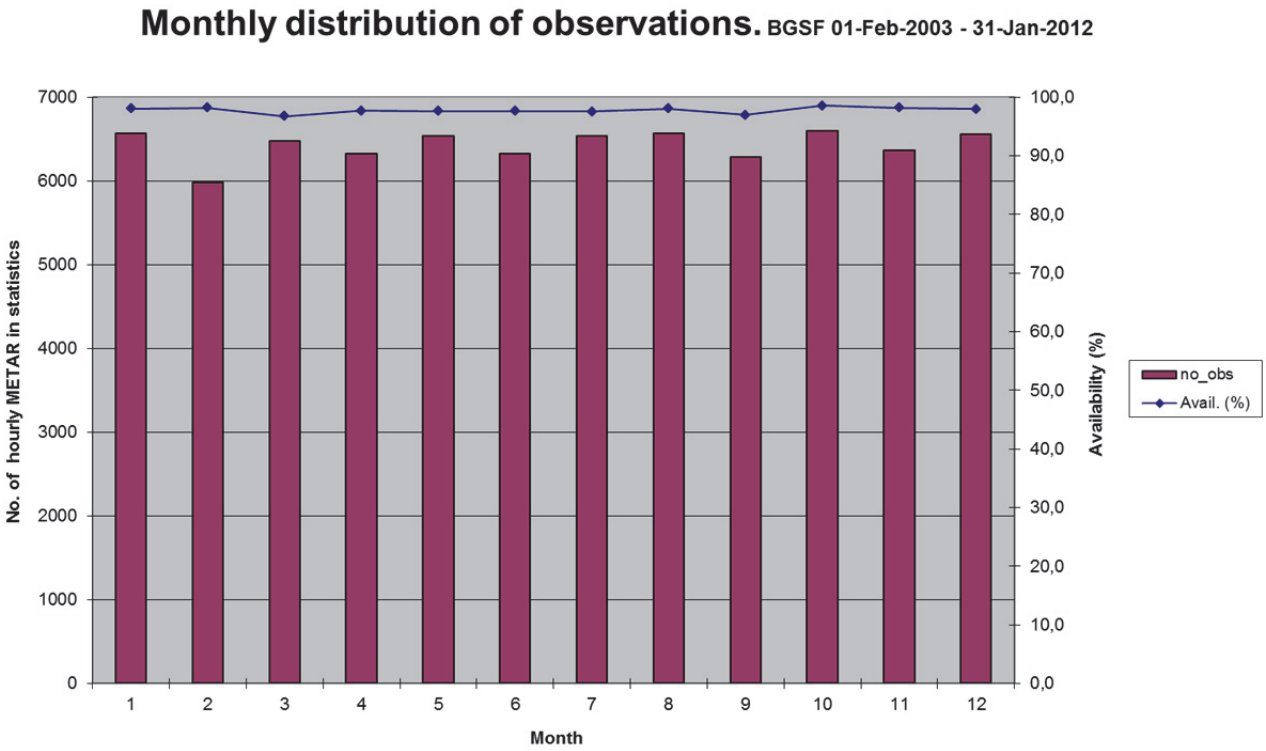


Figure 22

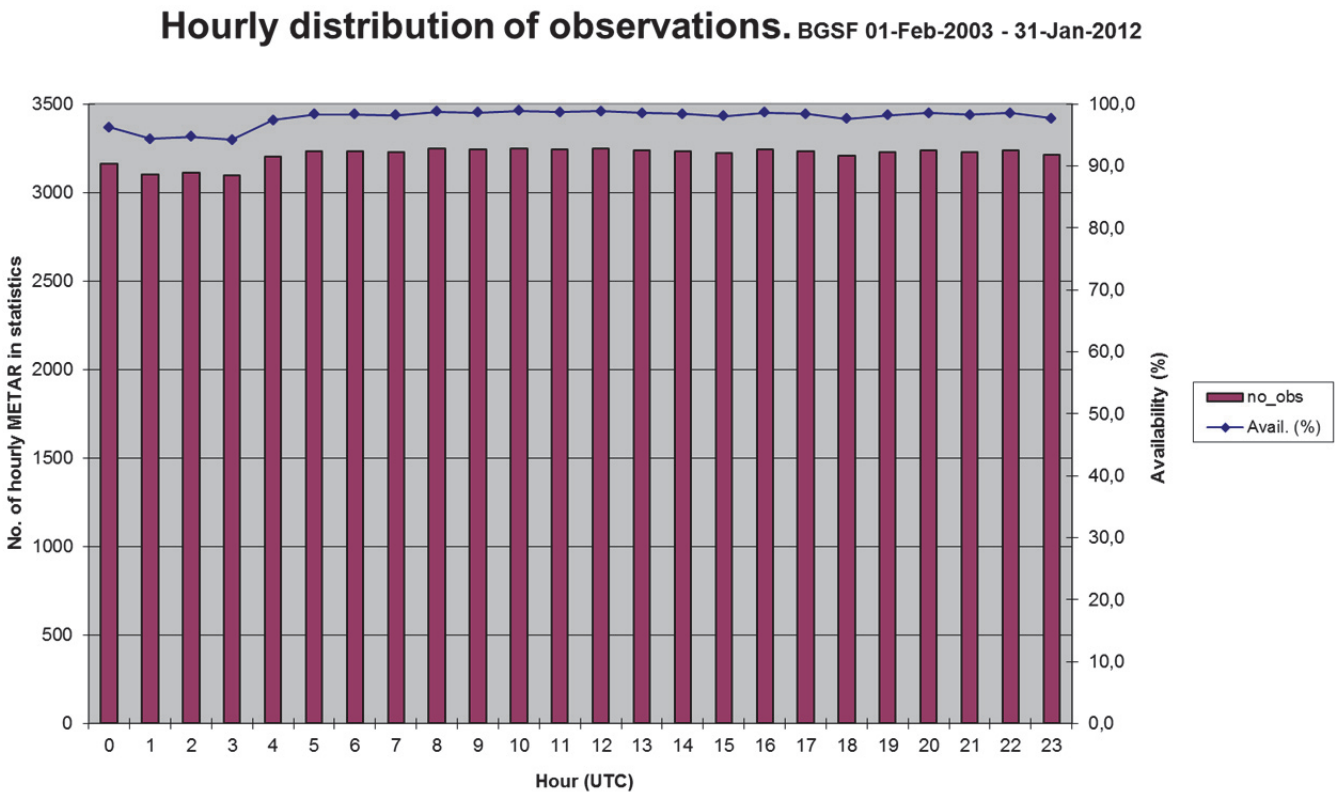


Figure 23

BGSF. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	1,0	1,0	1,0	1,0	1,0	1,0	,9	,9	1,0	1,0
	1	,9	1,0	1,0	1,0	1,0	,9	,9	,9	1,0	1,0
	2	,9	1,0	,9	1,0	1,0	1,0	1,0	,9	1,0	1,0
	3	,9	1,0	,9	1,0	1,0	1,0	,9	,9	1,0	1,0
	4	1,0	1,0	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	5	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	6	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	7	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	8	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	10	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	11	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	12	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	13	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	14	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	15	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	16	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	17	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	18	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	19	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	20	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	21	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	22	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	23	1,0	1,0	1,0	1,0	1,0	1,0	,9	1,0	1,0	1,0

Table 7

BGGH Nuuk/Godthåb

Mittarfik Nuuk

Location: 64,200°N 51,683°W H: 86 m above msl

BGGH observations in statistics: 59.686 hourly METAR[2] covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall availability of 75,7%.

The availability is partly lowered by lack of nightly observations and fewer weekend observations during 2003-2006, more details are shown in the Availability section.

The BGGH METAR are all manual until 24 May 2005, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGGH- Frequencies (%) Visibility - Ceiling

No. Obs = 14.748	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,22	0,65	1,88	2,45	2,72	0,48	3,20
<1 km	0,22	0,66	2,03	2,88	3,30	0,64	3,94
<1.5 km	0,22	0,66	2,29	3,76	4,60	1,06	5,66
<3.0 km	0,22	0,66	2,58	5,30	7,85	2,90	10,75
< 5.0 km	0,22	0,66	2,74	6,11	9,98	6,02	16,00
>= 5,0 km or CAVOK	0	0,014	0,25	2,18	5,52	78,48	84,00
Total	0,22	0,67	2,99	8,29	15,50	84,50	100

Table 8

Spring (Apr-May-Jun): BGGH- Frequencies (%) Visibility - Ceiling

No. Obs = 14.821	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,39	1,64	3,15	3,35	3,43	0,14	3,58
<1 km	0,39	1,70	3,66	4,00	4,12	0,20	4,31
<1.5 km	0,40	1,72	4,08	4,66	4,90	0,30	5,20
<3.0 km	0,40	1,76	5,09	6,82	7,81	1,09	8,90
< 5.0 km	0,40	1,79	5,99	8,74	10,82	2,74	13,56
>= 5,0 km or CAVOK	0	0,054	3,09	8,79	13,45	72,98	86,44
Total	0,40	1,84	9,08	17,54	24,28	75,72	100

Table 9

[2] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGGH- Frequencies (%) Visibility - Ceiling

No. Obs = 14.805	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,72	2,47	4,87	4,95	5,01	0,45	5,46
<1 km	0,72	2,55	5,48	5,61	5,69	0,53	6,21
<1.5 km	0,74	2,63	5,83	6,07	6,17	0,64	6,82
<3.0 km	0,74	2,71	6,86	7,58	7,94	1,55	9,49
< 5.0 km	0,74	2,75	7,95	9,30	10,25	3,43	13,68
>= 5,0 km or CAVOK	0,014	0,095	3,54	8,69	12,95	73,37	86,32
Total	0,76	2,84	11,49	17,99	23,19	76,81	100

Table 10

Autumn (Oct-Nov-Dec): BGGH- Frequencies (%) Visibility - Ceiling

No. Obs = 15.312	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,072	0,19	0,99	1,40	1,67	0,62	2,29
<1 km	0,078	0,22	1,21	1,92	2,32	0,78	3,10
<1.5 km	0,078	0,22	1,42	2,65	3,29	1,29	4,58
<3.0 km	0,078	0,22	1,84	4,23	5,92	3,37	9,29
< 5.0 km	0,078	0,22	2,02	5,14	7,84	6,19	14,03
>= 5,0 km or CAVOK	0	0,0065	0,37	1,31	3,34	82,63	85,97
Total	0,078	0,22	2,39	6,45	11,17	88,83	100

Table 11

Annual: BGGH - Frequencies (%) Visibility - Ceiling

No. Obs = 59.686	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,35	1,23	2,71	3,03	3,20	0,43	3,62
<1 km	0,35	1,27	3,08	3,59	3,84	0,54	4,38
<1.5 km	0,36	1,30	3,39	4,27	4,73	0,83	5,56
<3.0 km	0,36	1,33	4,07	5,97	7,37	2,24	9,60
< 5.0 km	0,36	1,34	4,65	7,31	9,71	4,61	14,31
>= 5,0 km or CAVOK	0,0034	0,042	1,80	5,21	8,77	76,91	85,69
Total	0,36	1,39	6,46	12,52	18,48	81,52	100

Table 12

Wind direction histograms

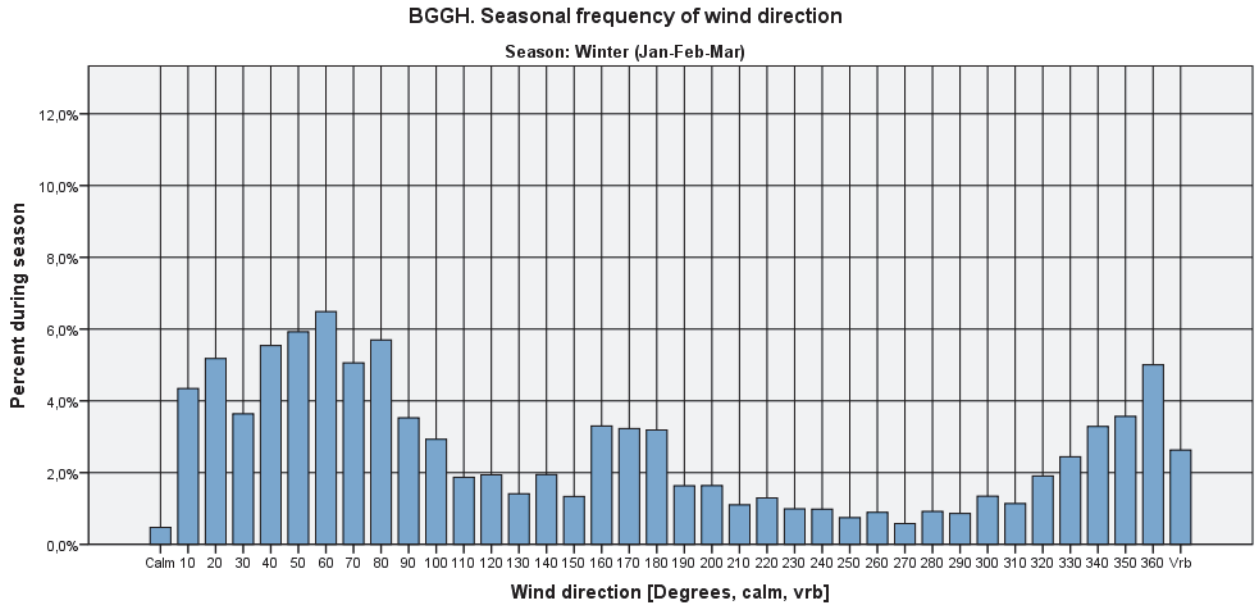


Figure 24

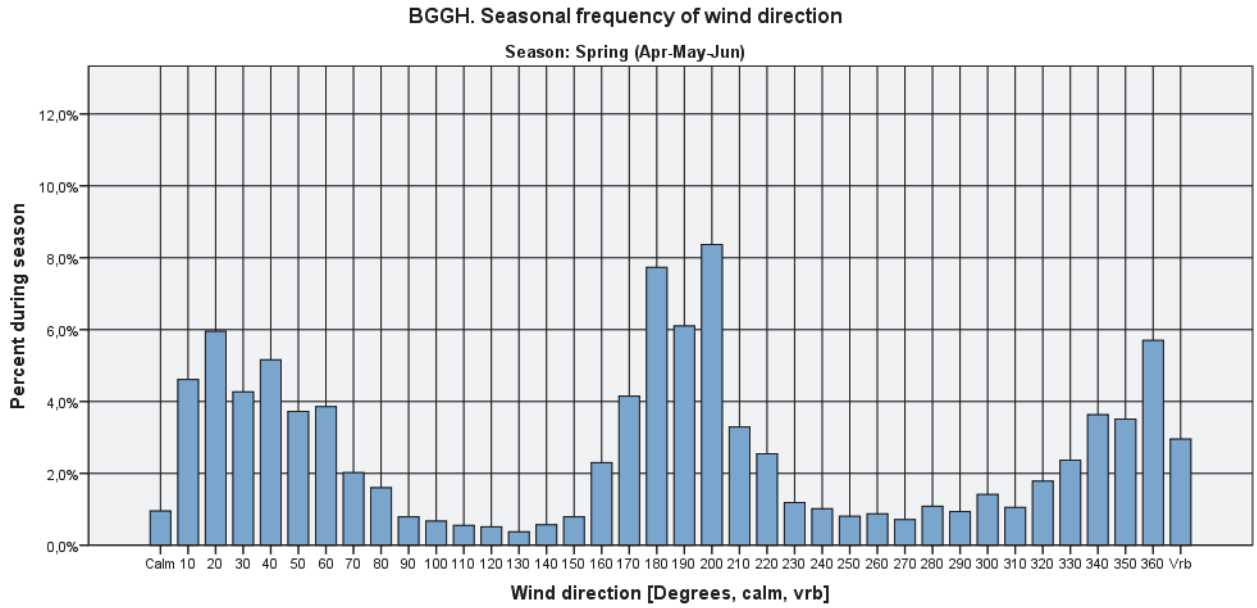


Figure 25

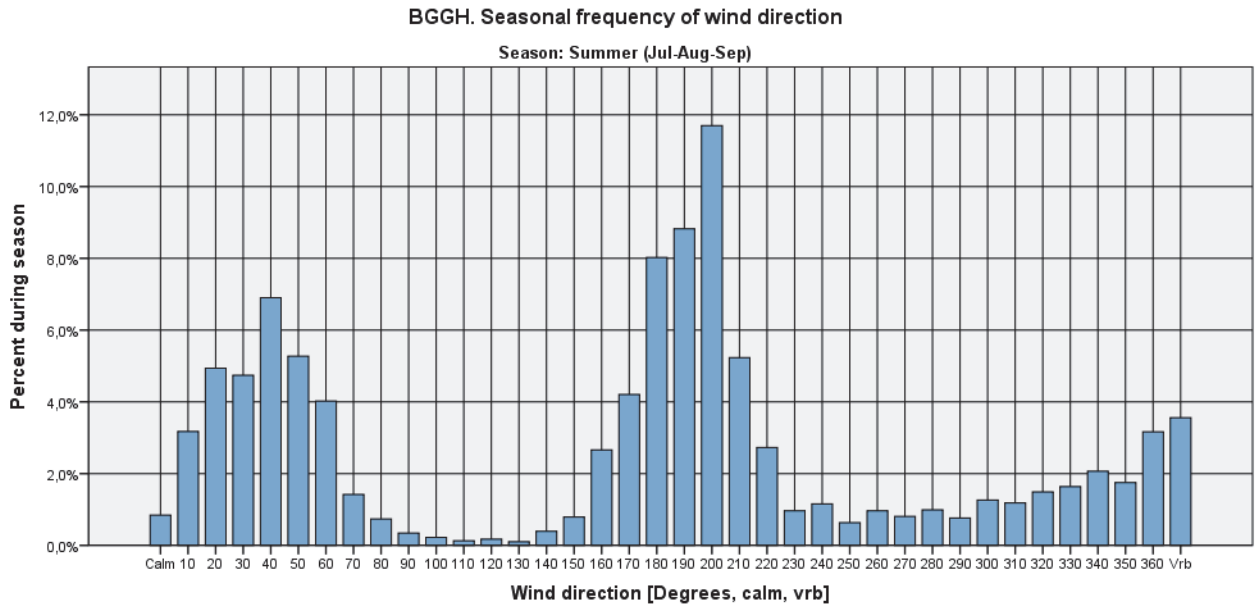


Figure 26

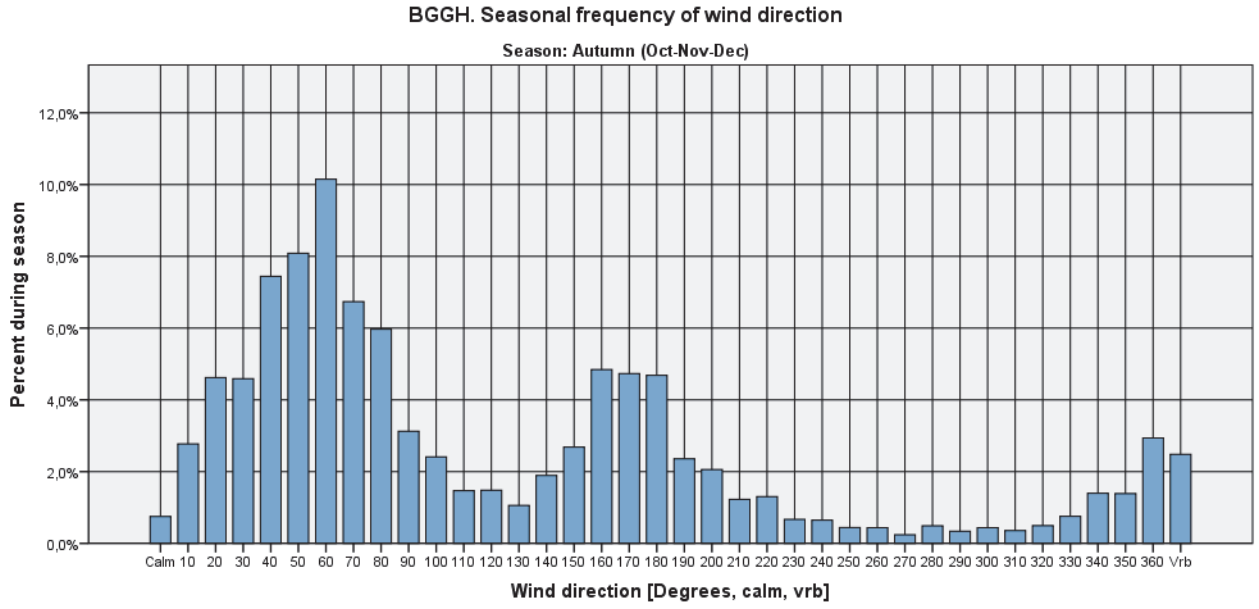


Figure 27

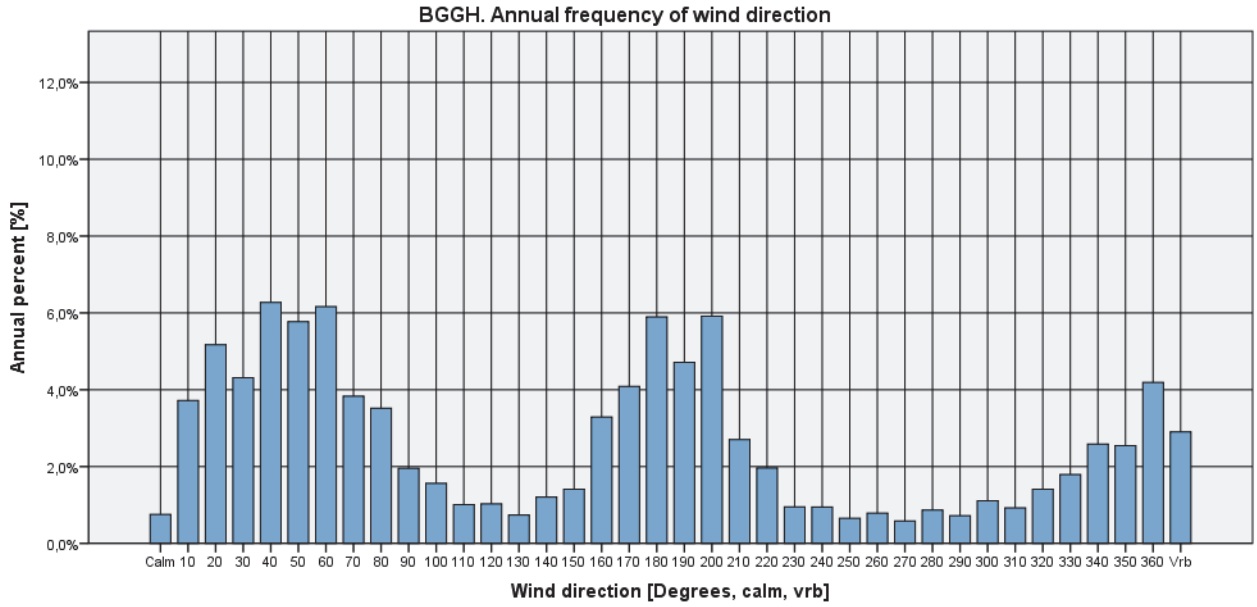

BGGH. Annual frequency of wind direction
Annual percent [%]
12,0%
10,0%
8,0%
6,0%
4,0%
2,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 28

Visibility criteria on wind direction histograms

Visibility<1000 m

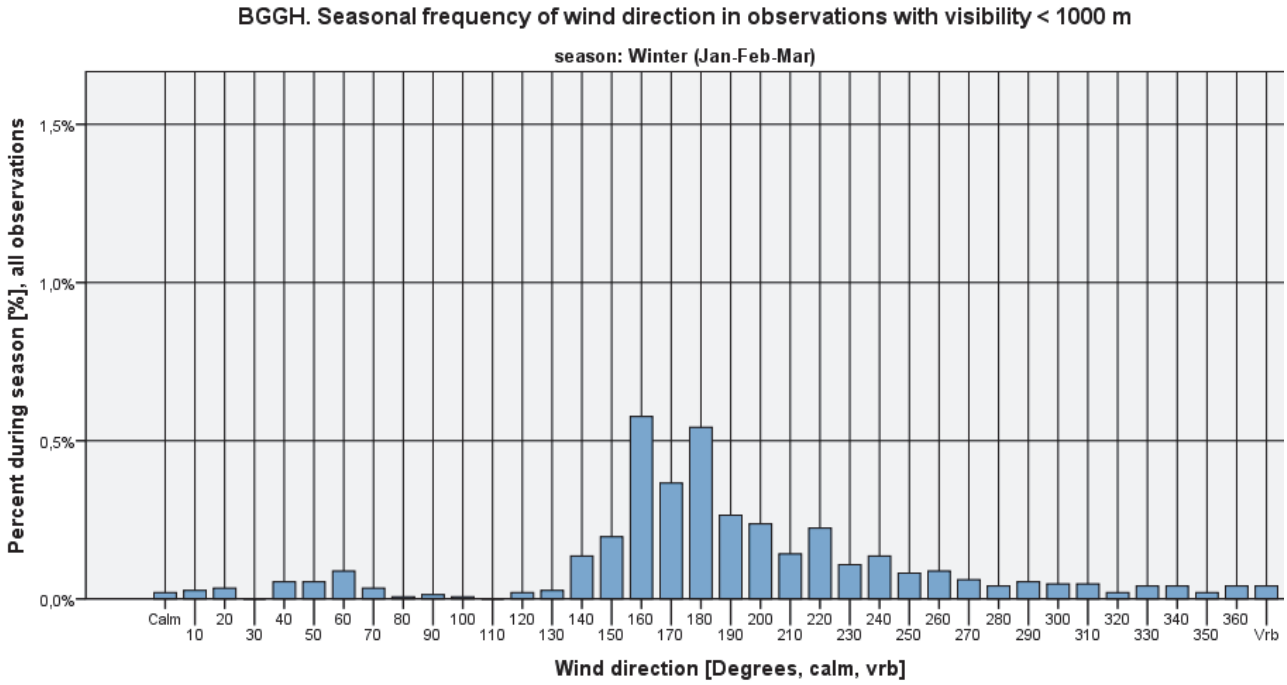


Figure 29

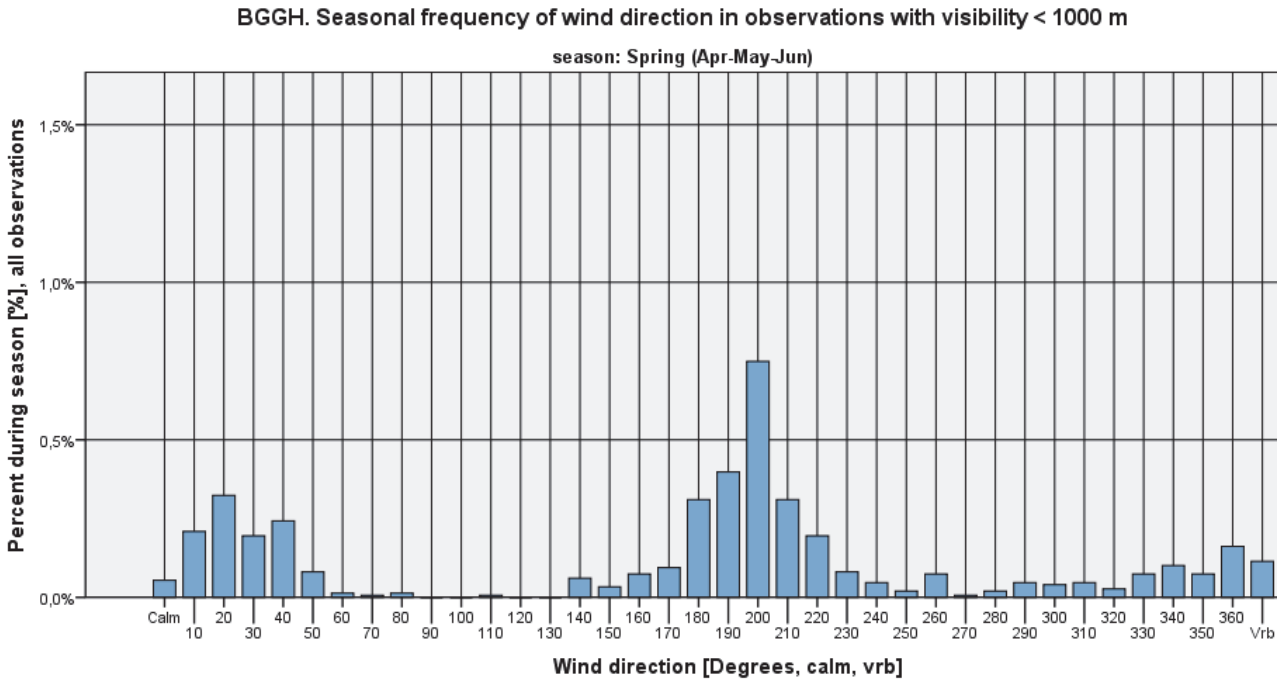


Figure 30

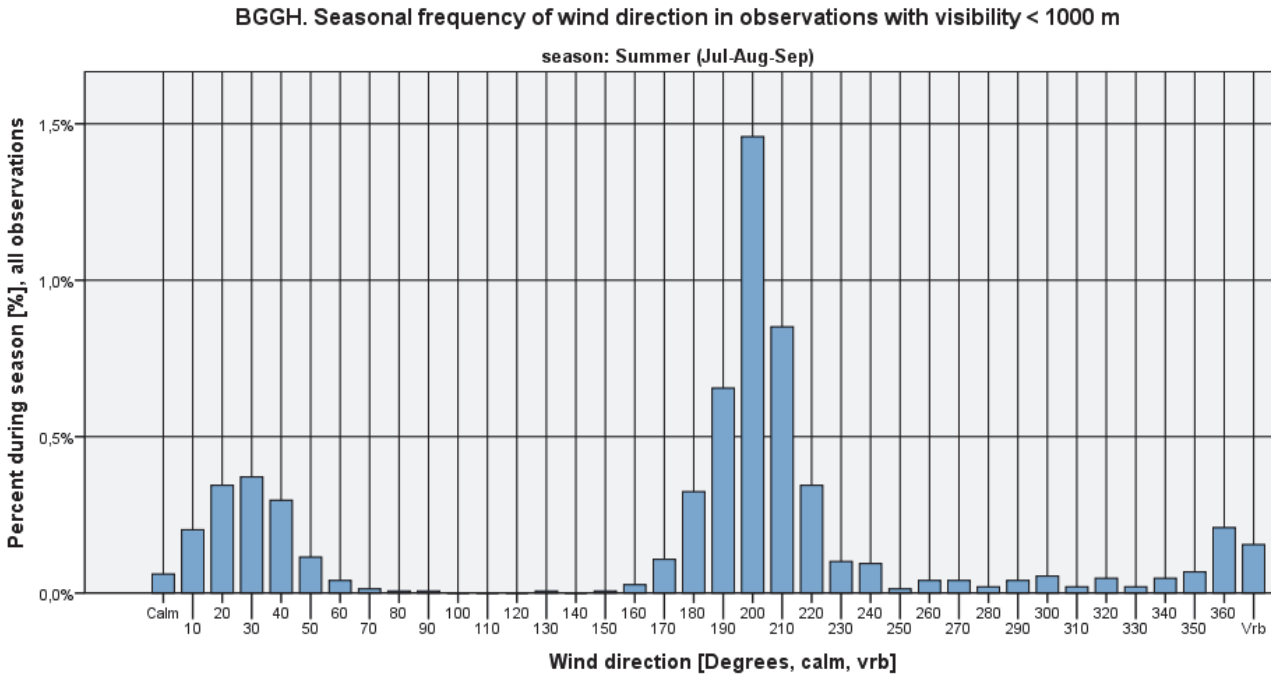


Figure 31

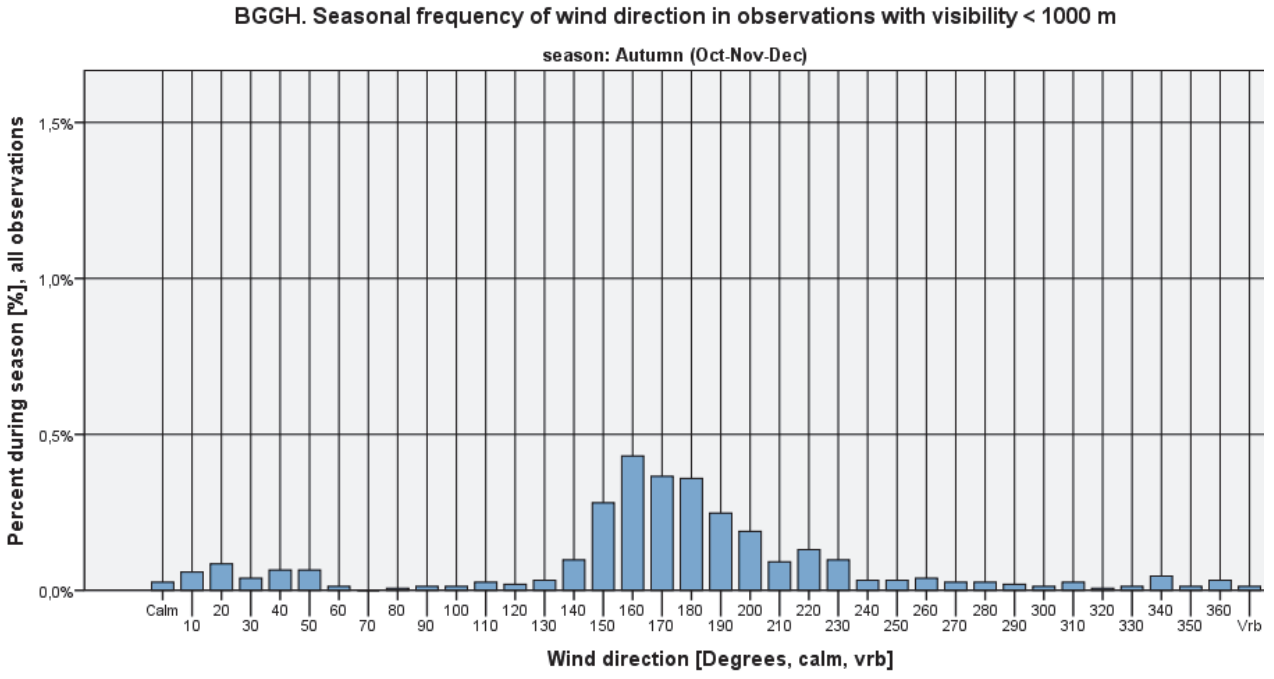


Figure 32

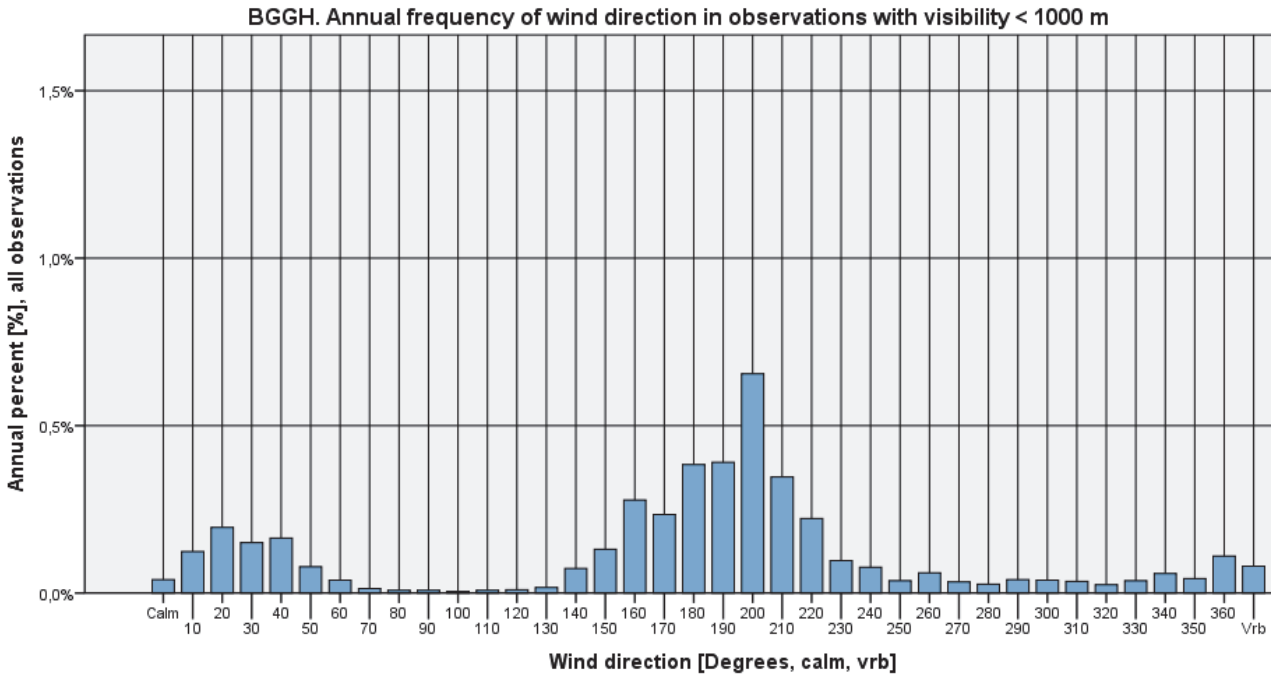

BGGH. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
1,5%
1,0%
0,5%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 33

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

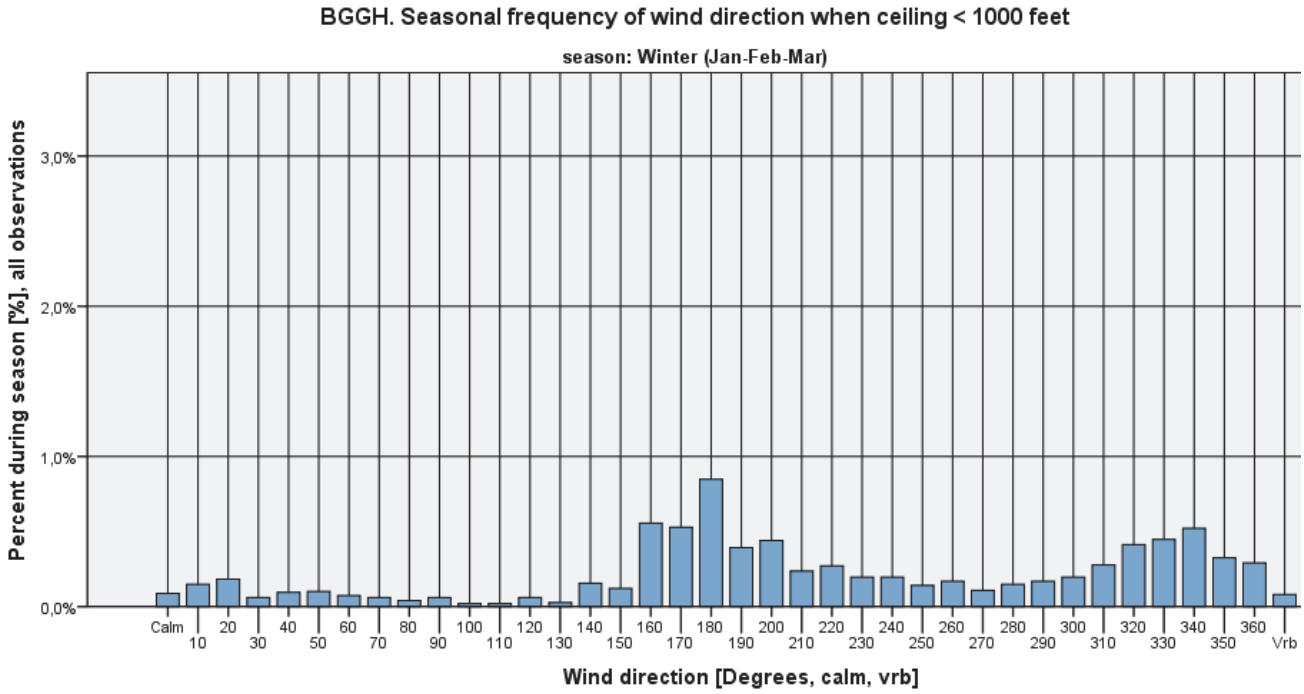


Figure 34

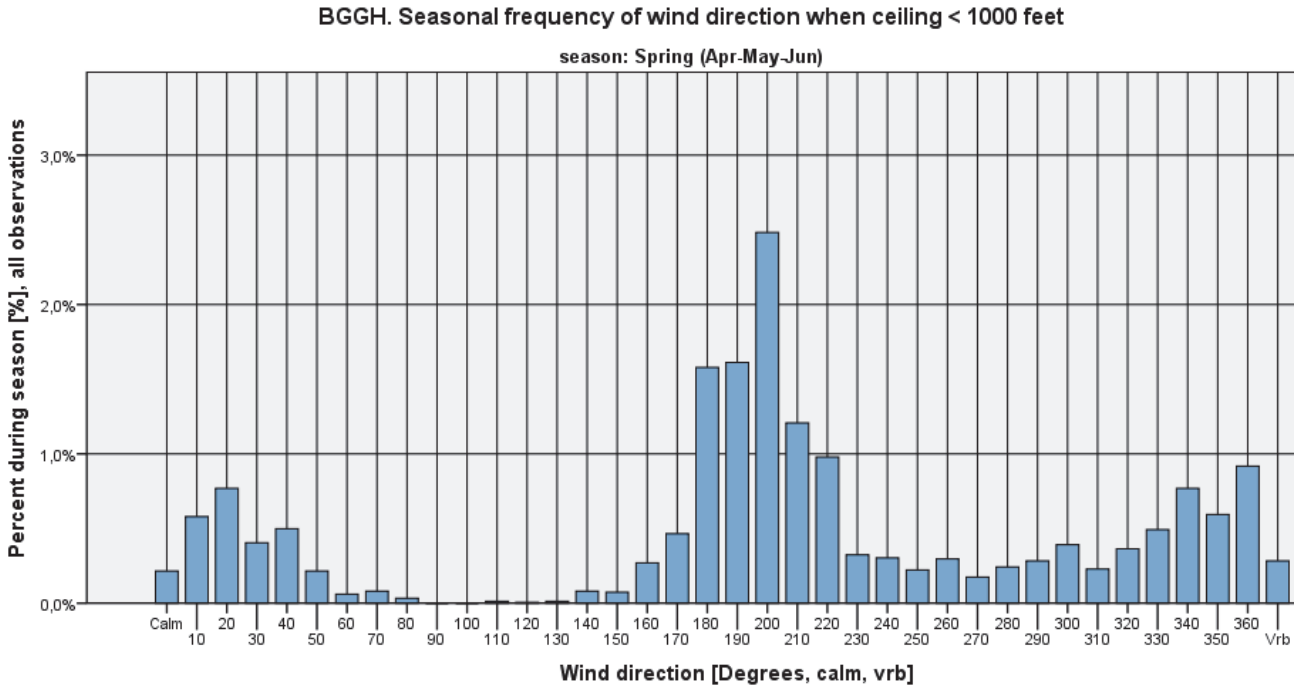


Figure 35

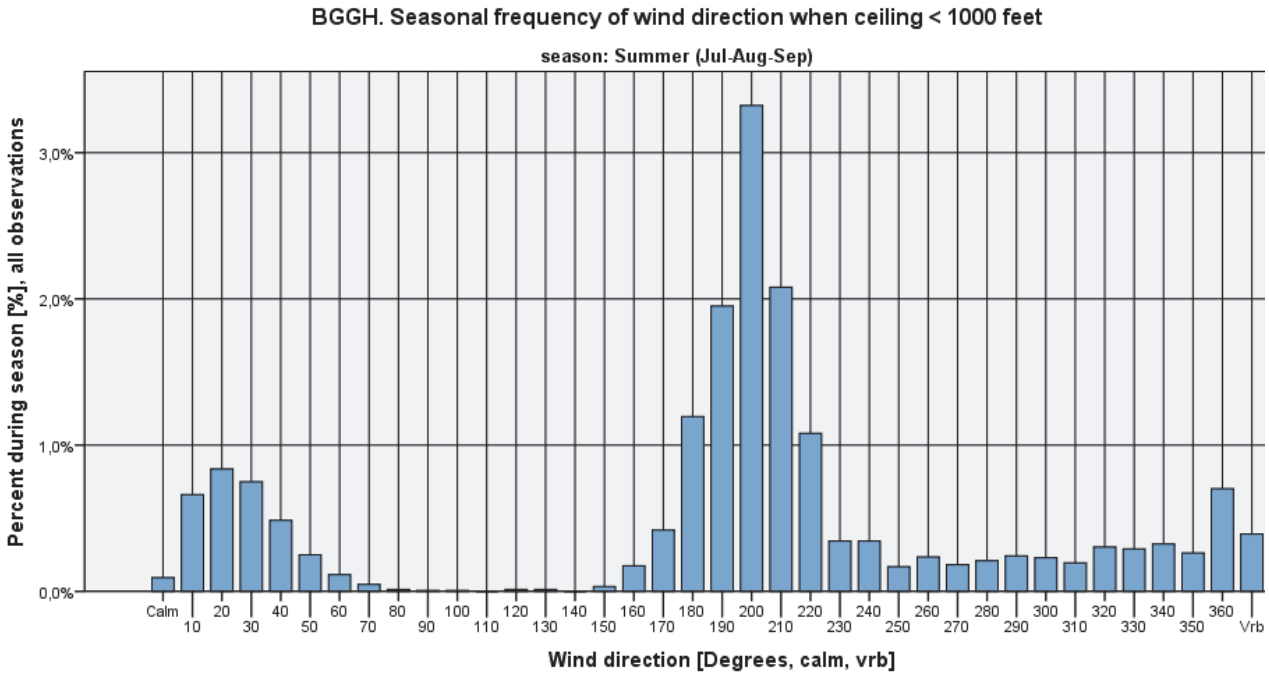


Figure 36

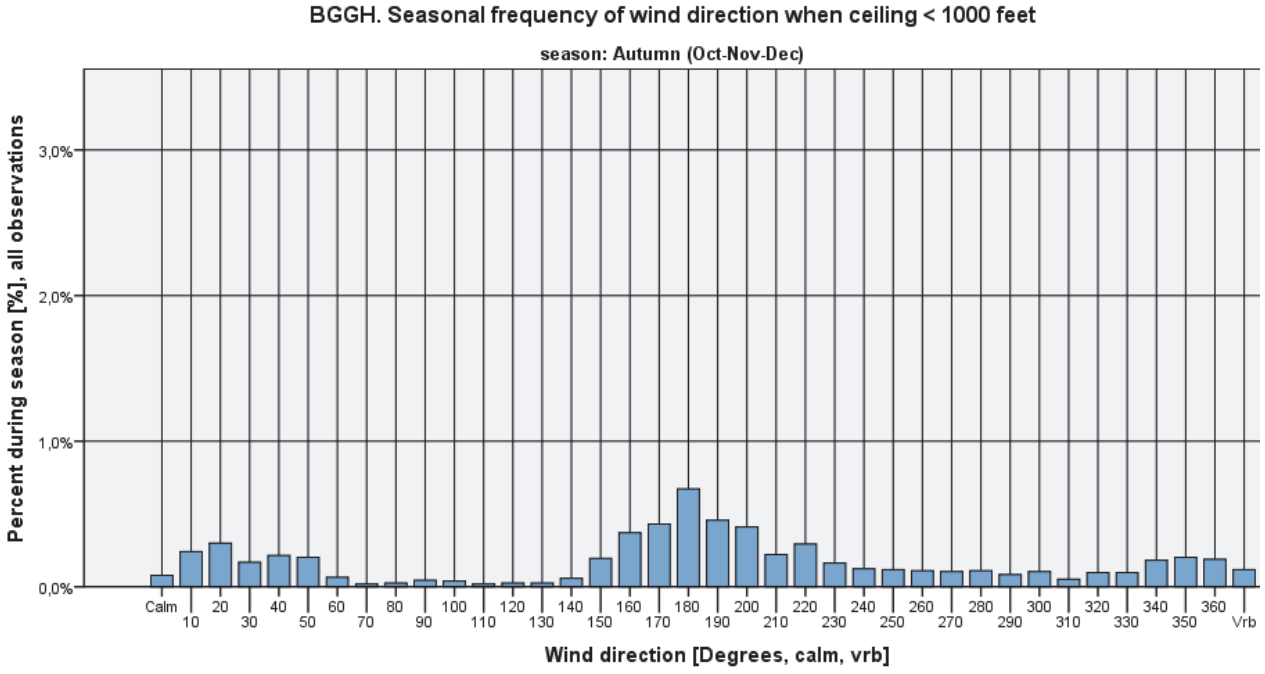


Figure 37

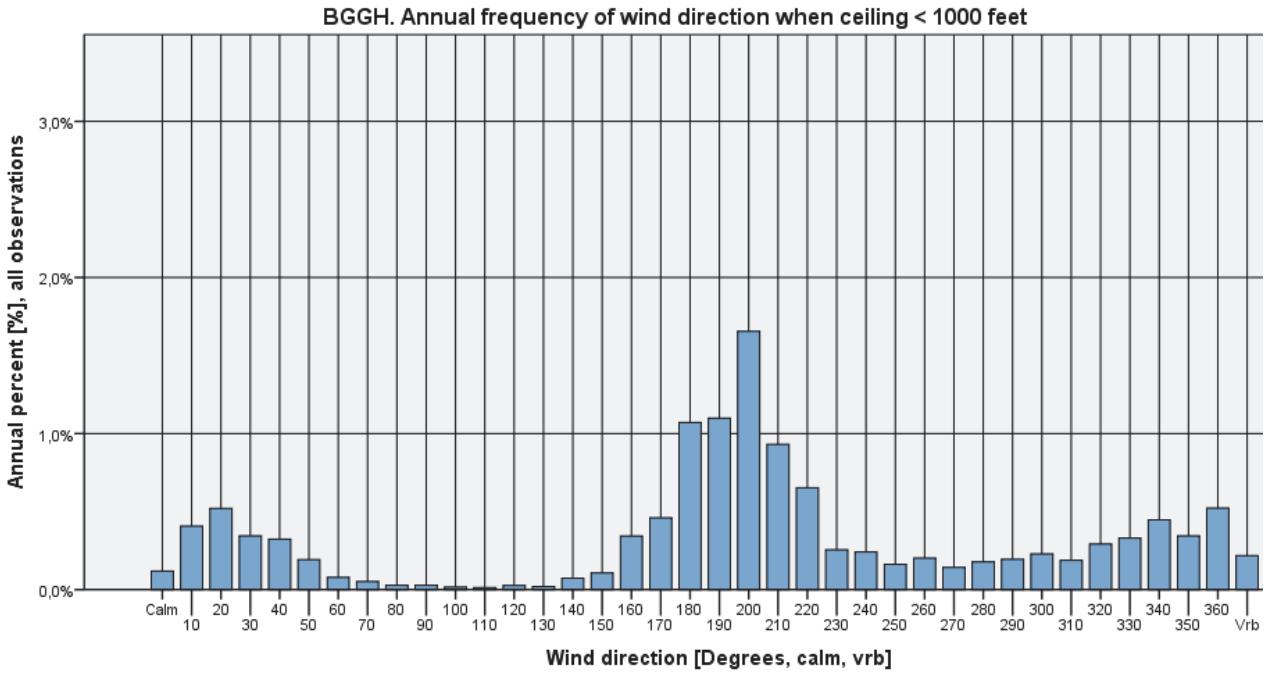

BGGH. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
3,0%
2,0%
1,0%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 38

Ceiling<500 feet

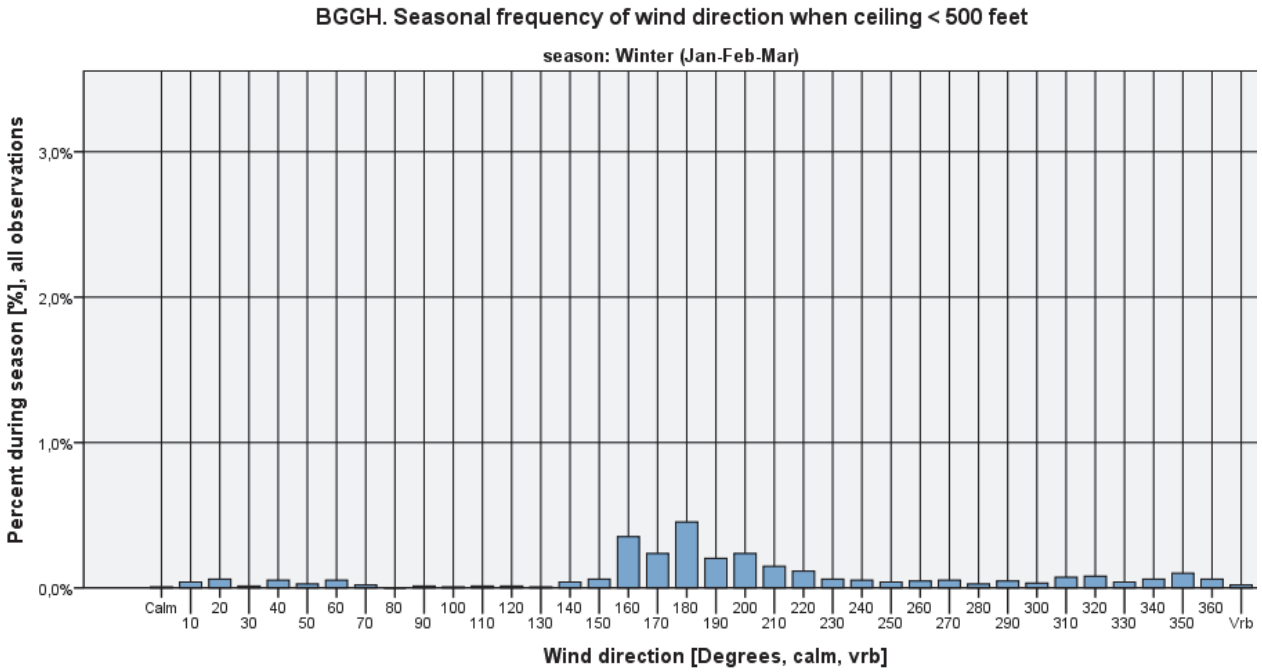


Figure 39

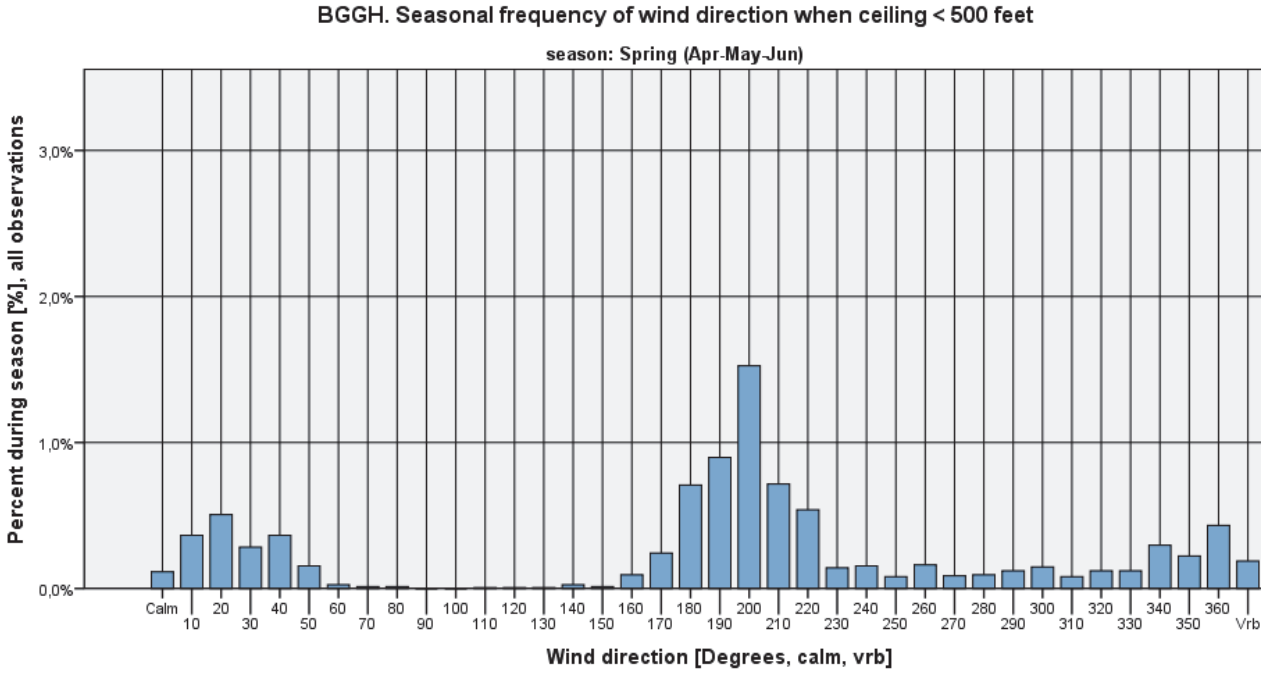


Figure 40

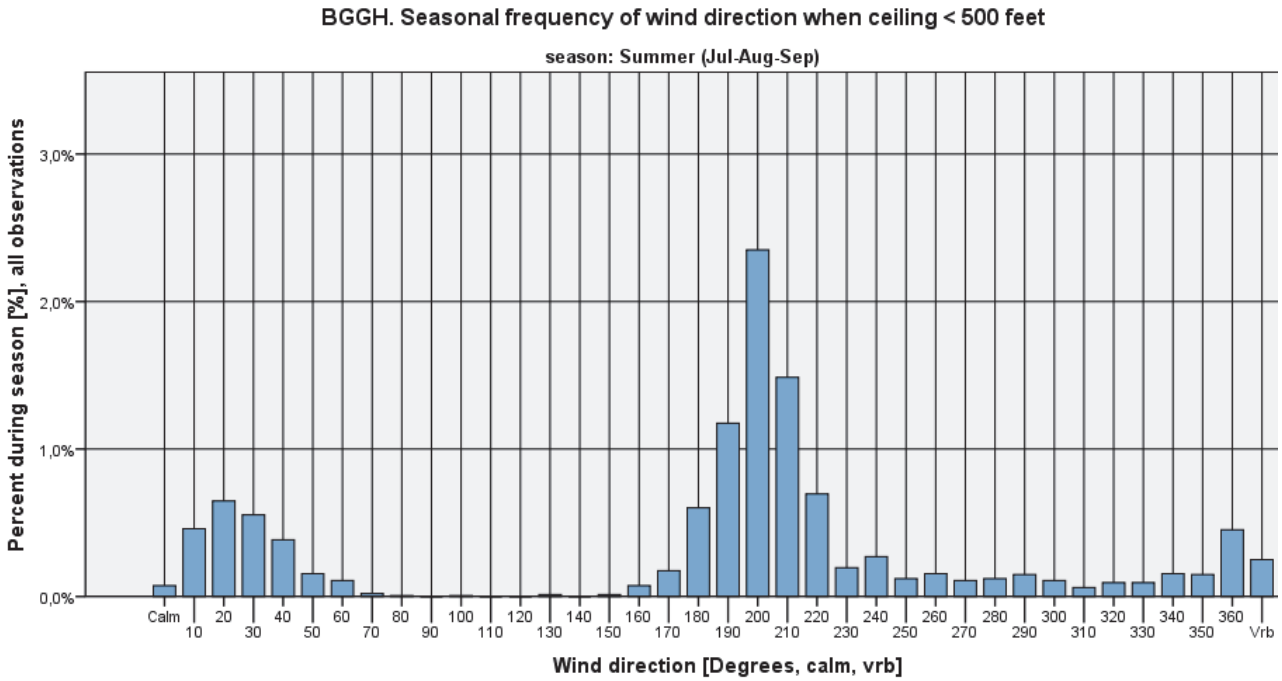


Figure 41

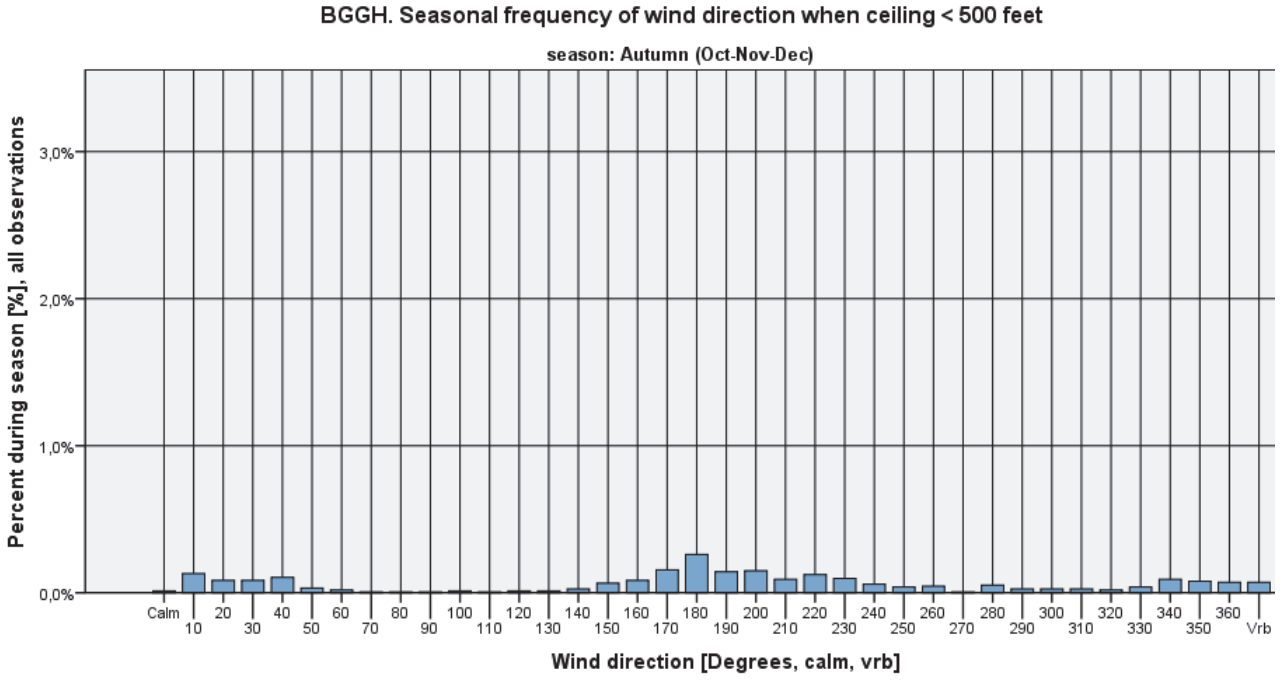


Figure 42

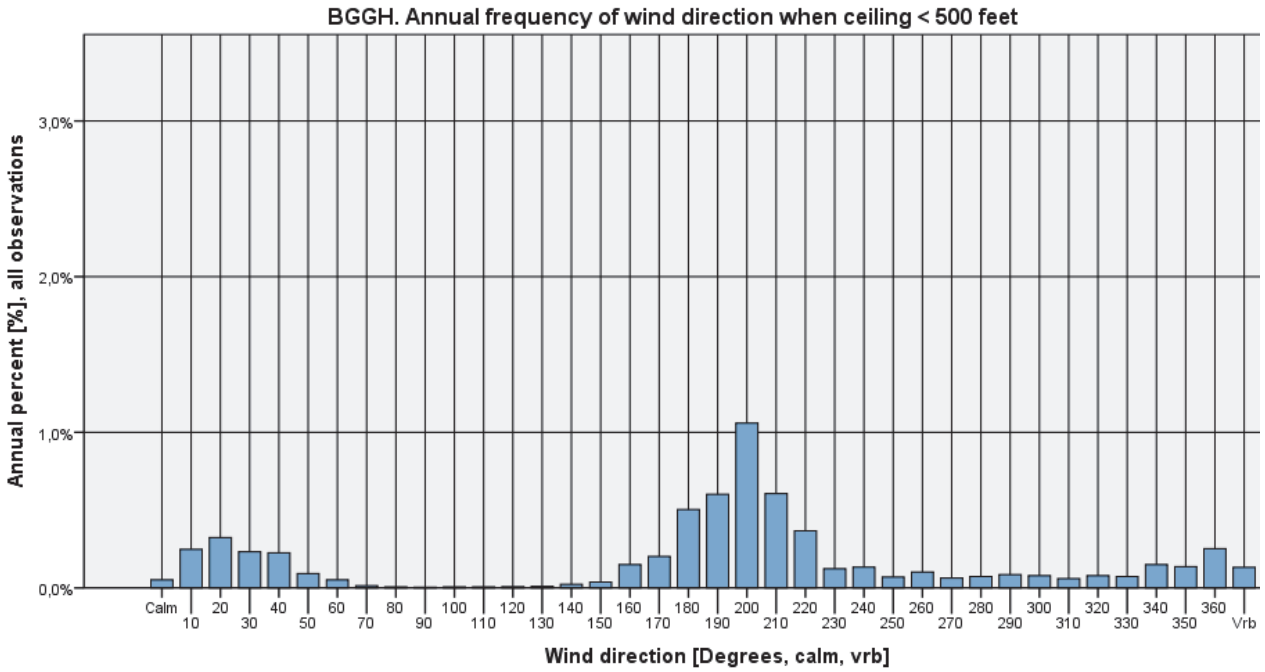
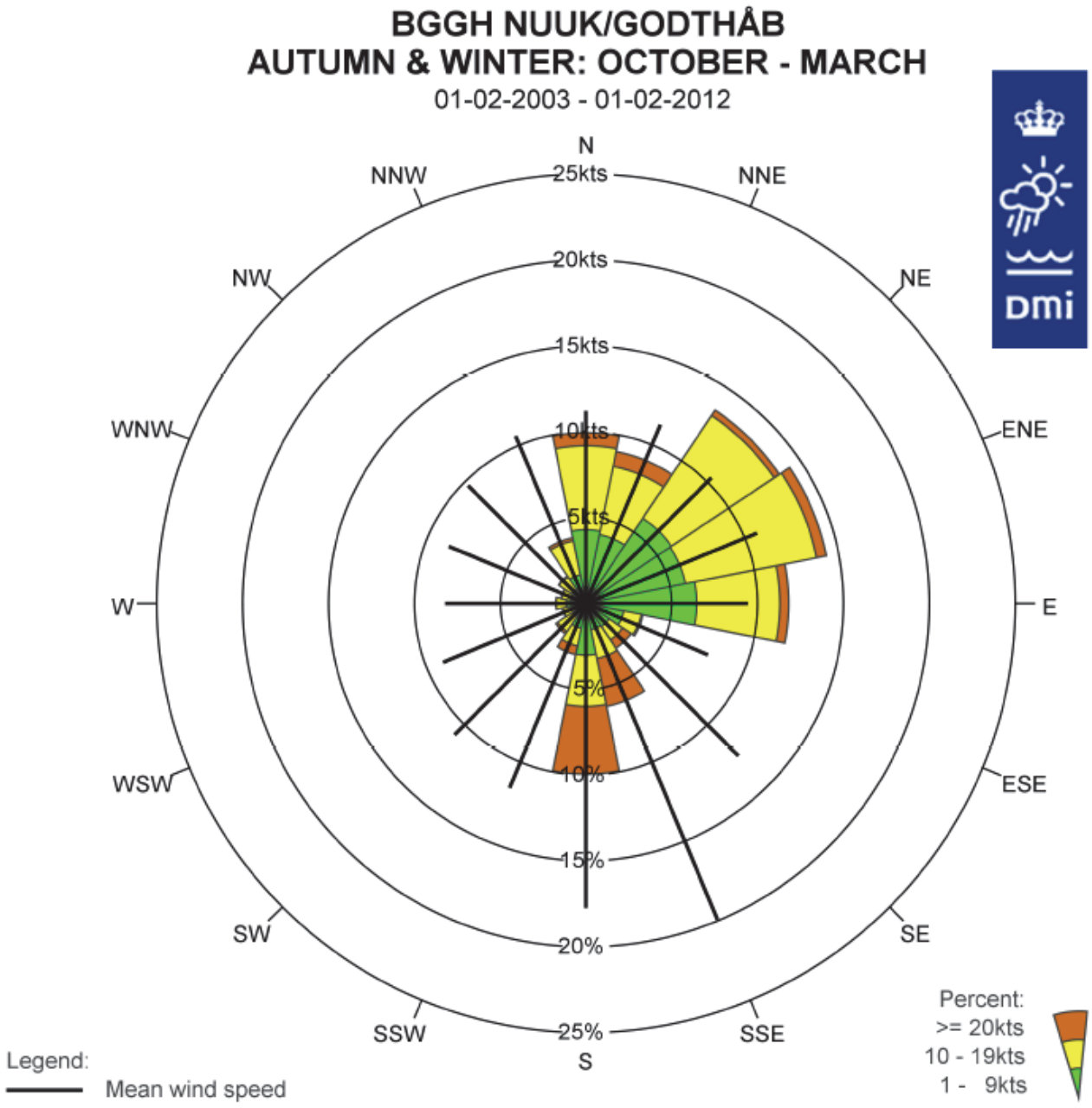

BGGH. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
3,0%
2,0%
1,0%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 43

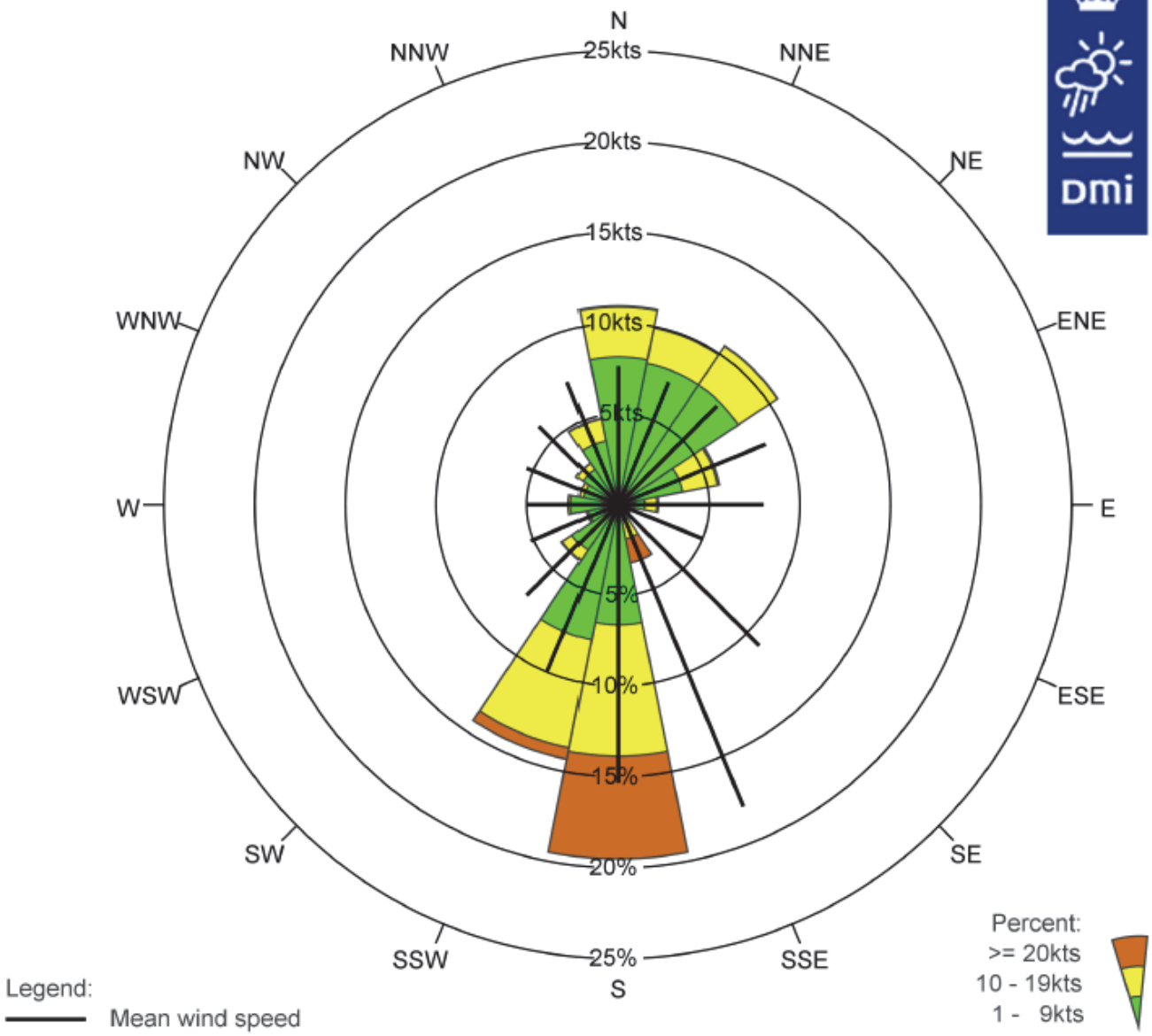
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	10.0	9.0	13.5	14.3	11.8	3.4	3.2	6.1	9.9	3.0	2.1	1.4	1.8	1.5	1.9	3.9	96.8
% 1 - 9kts	4.3	4.1	6.0	5.9	6.4	2.2	1.6	1.6	3.0	1.5	0.9	0.8	1.1	0.9	1.0	1.7	43.0
% 10 - 19kts	4.9	4.1	7.2	7.8	4.8	1.0	0.9	1.7	3.0	1.1	1.1	0.6	0.6	0.5	0.9	2.0	42.2
% >= 20kts	0.8	0.9	0.4	0.6	0.6	0.1	0.6	2.8	3.9	0.5	0.2	0.0	0.0	0.0	0.1	0.2	11.6
Mean wind speed	11.2	11.3	10.4	10.8	9.4	7.7	12.5	19.9	17.8	11.6	10.8	9.0	8.2	8.6	9.7	10.6	11.8
Max wind speed	38.0	41.0	31.0	46.0	36.0	36.0	61.0	58.0	60.0	39.0	30.0	27.0	22.0	25.0	24.0	28.0	61.0

Number of observations = 30060
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 953=3.2%
Observations with calm/varying wind direction are not used in the statistics

BGGH NUUK/GODTHÅB
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	11.0	10.0	10.5	5.7	2.2	0.7	0.7	3.3	19.5	14.3	3.7	1.8	2.7	2.2	2.8	4.9	95.8
% 1 - 9kts	8.1	7.9	7.9	3.6	1.4	0.6	0.5	0.9	6.6	7.6	3.0	1.7	2.6	2.0	2.3	3.6	60.4
% 10 - 19kts	2.8	2.0	2.6	2.0	0.7	0.1	0.1	1.0	7.2	6.1	0.6	0.1	0.1	0.2	0.4	1.2	27.2
% >= 20kts	0.1	0.0	0.0	0.1	0.1	0.0	0.2	1.4	5.7	0.6	0.1	0.0	0.0	0.0	0.0	0.1	8.3
Mean wind speed	7.6	7.3	7.7	8.7	8.0	5.0	11.0	18.0	15.3	10.0	7.0	5.1	5.0	5.4	6.1	7.4	9.7
Max wind speed	23.0	29.0	24.0	28.0	33.0	33.0	56.0	56.0	56.0	31.0	31.0	38.0	25.0	18.0	24.0	27.0	56.0

Number of observations = 29626
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 1232=4.2%
Observations with calm/varying wind direction are not used in the statistics

Availability

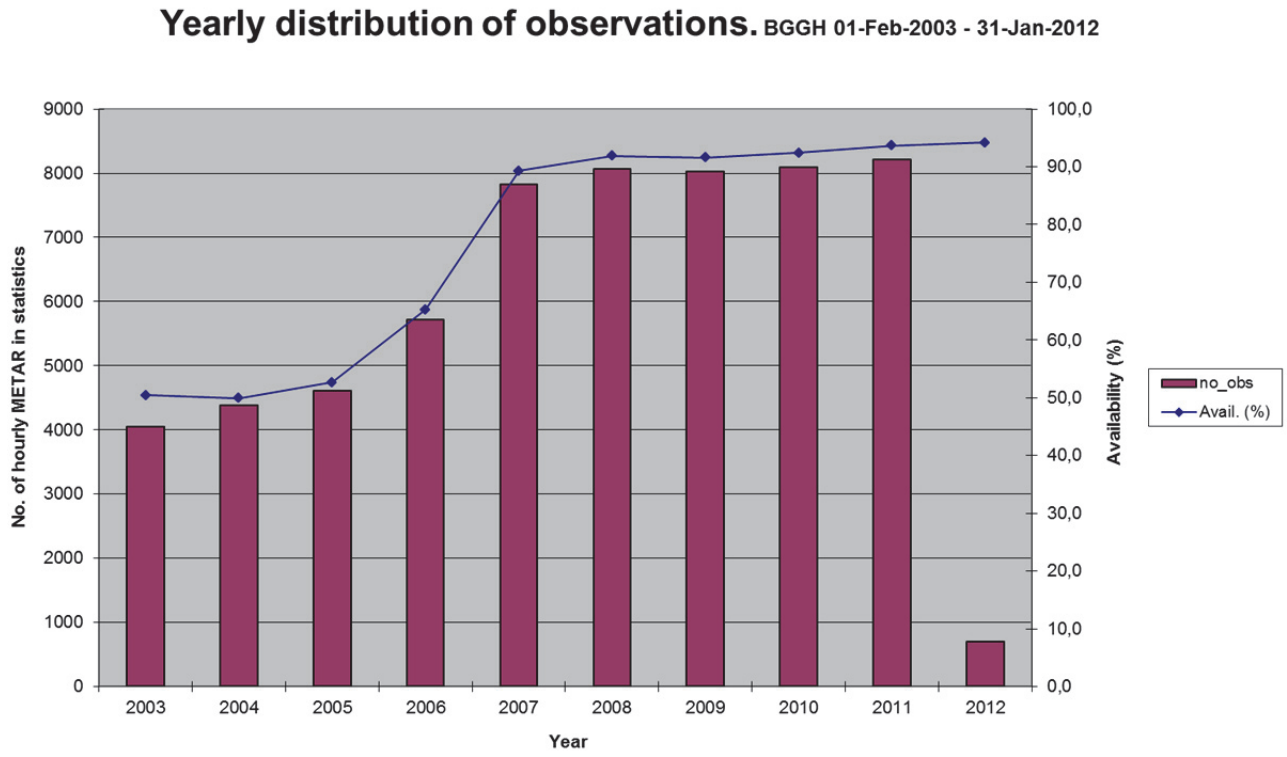


Figure 44

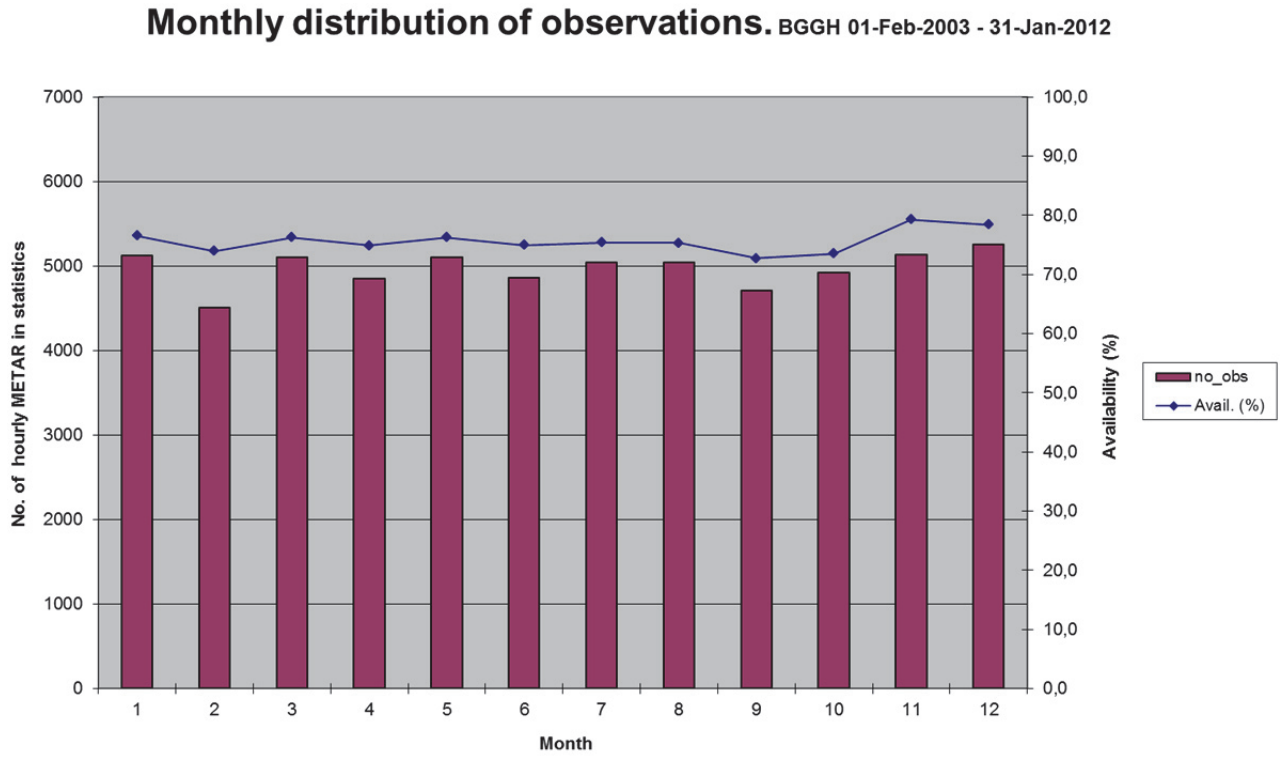


Figure 45

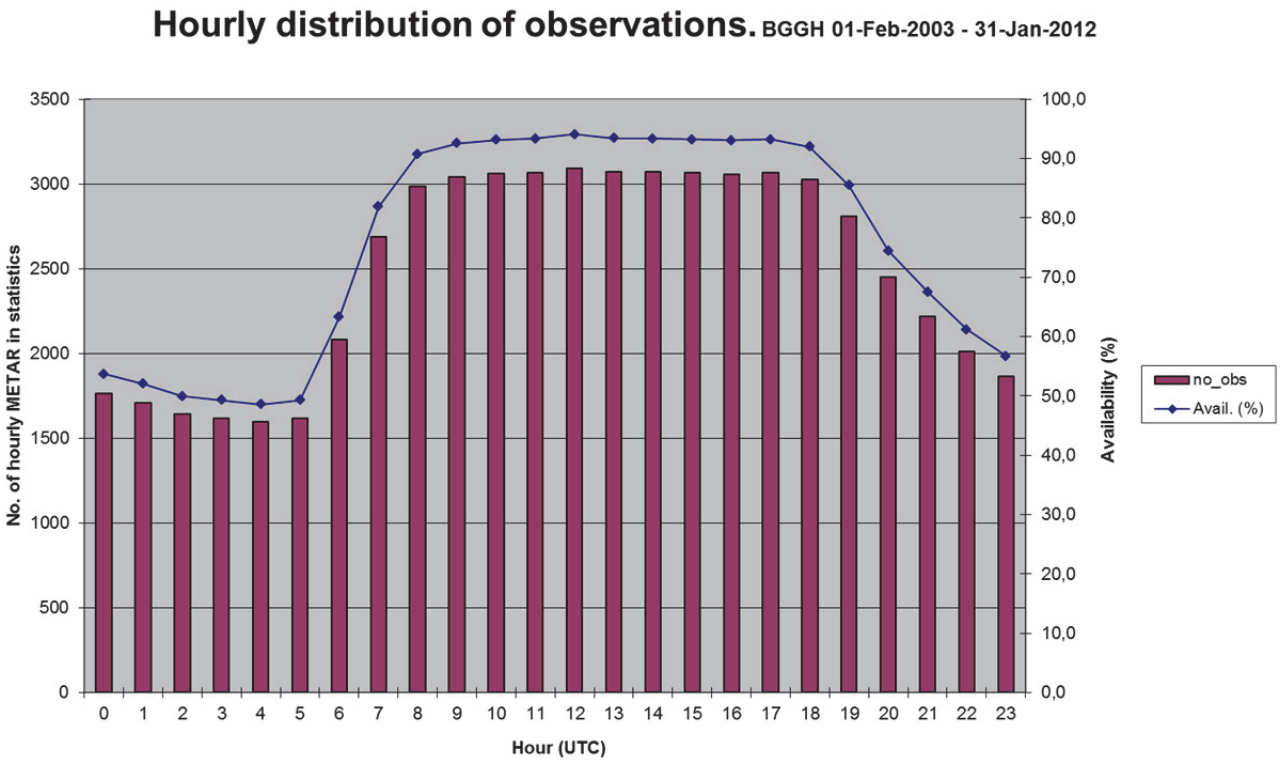


Figure 46

BGGH. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	,1	,1	,1	,3	,8	,9	,9	,9	,9	,9
	1	,0	,0	,0	,2	,8	,8	,8	,9	,9	,9
	2	,0	,0	,0	,2	,8	,8	,8	,9	,9	,9
	3	,0	,0	,0	,2	,7	,8	,8	,8	,9	,9
	4	,0	,0	,0	,2	,8	,8	,8	,8	,9	,9
	5	,0	,0	,0	,2	,8	,8	,8	,8	,9	,9
	6	,3	,2	,4	,6	,8	,8	,8	,9	,9	,9
	7	,6	,6	,7	,7	,9	,9	,9	,9	,9	1,0
	8	,8	,8	,8	,9	,9	1,0	1,0	1,0	1,0	1,0
	9	,9	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	10	,9	,9	,9	,9	1,0	1,0	1,0	1,0	,9	1,0
	11	,9	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	12	,9	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	13	,9	,9	,9	,9	1,0	1,0	1,0	1,0	,9	1,0
	14	,9	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	15	,9	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	16	,9	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	,9
	17	,9	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	18	,8	,8	,8	,9	1,0	1,0	1,0	1,0	1,0	,9
	19	,6	,7	,7	,9	1,0	1,0	1,0	1,0	,9	,9
	20	,4	,4	,5	,7	,9	1,0	,9	1,0	,9	,9
	21	,2	,2	,3	,5	,9	1,0	1,0	,9	1,0	,9
	22	,1	,2	,2	,4	,9	,9	,9	,9	,9	,9
	23	,1	,1	,1	,3	,8	,9	,9	,9	,9	1,0

Table 13

BGBW Narsarsuaq

Mittarfik Narsarsuaq

Location: 61,167°N 45,417°W H: 27 m above msl

BGBW observations in statistics: 50.289 hourly METAR[3] covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall availability of 63,7%.

The availability is mostly lowered because the period 2003-2010 only contains few nightly observations and few observations on Sundays. More details are shown in the Availability section.

The BGBW METAR are all manual until 28 June 2004, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGBW - Frequencies (%) Visibility - Ceiling

No. Obs = 12.684	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,0079	0,25	0,48	0,51	0,26	0,77
<1 km	0	0,0079	0,32	0,84	0,89	0,32	1,21
<1.5 km	0	0,0079	0,38	1,32	1,60	0,51	2,11
<3.0 km	0	0,0079	0,43	1,85	2,78	1,18	3,97
< 5.0 km	0	0,0079	0,43	1,98	3,19	2,30	5,50
>= 5,0 km or CAVOK	0	0	0,016	0,24	1,13	93,38	94,50
Total	0	0,0079	0,45	2,22	4,32	95,68	100

Table 14

Spring (Apr-May-Jun): BGBW - Frequencies (%) Visibility - Ceiling

No. Obs = 11.907	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,0084	0,042	0,17	0,27	0,27	0,09	0,36
<1 km	0,0084	0,042	0,28	0,50	0,50	0,11	0,60
<1.5 km	0,0084	0,042	0,34	0,72	0,76	0,18	0,94
<3.0 km	0,0084	0,042	0,34	0,97	1,22	0,38	1,60
< 5.0 km	0,0084	0,042	0,39	1,18	1,59	0,66	2,25
>= 5,0 km or CAVOK	0	0	0,15	1,44	4,10	93,65	97,75
Total	0,0084	0,042	0,54	2,61	5,69	94,31	100

Table 15

[3] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGBW - Frequencies (%) Visibility - Ceiling

No. Obs = 12.952	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,054	0,16	0,22	0,22	0,02	0,25
<1 km	0	0,062	0,22	0,32	0,33	0,03	0,36
<1.5 km	0	0,062	0,27	0,42	0,44	0,08	0,52
<3.0 km	0	0,062	0,42	0,67	0,73	0,12	0,86
< 5.0 km	0	0,069	0,61	1,10	1,34	0,25	1,59
>= 5,0 km or CAVOK	0	0,031	0,60	2,70	6,99	91,42	98,41
Total	0	0,10	1,21	3,81	8,33	91,67	100

Table 16

Autumn (Oct-Nov-Dec): BGBW - Frequencies (%) Visibility - Ceiling

No. Obs = 12.746	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,12	0,43	0,63	0,67	0,16	0,84
<1 km	0	0,12	0,55	1,02	1,18	0,21	1,39
<1.5 km	0	0,13	0,64	1,58	1,99	0,45	2,44
<3.0 km	0	0,13	0,75	2,13	3,01	1,00	4,01
< 5.0 km	0	0,13	0,78	2,42	3,64	1,91	5,55
>= 5,0 km or CAVOK	0	0	0,055	0,46	1,72	92,73	94,45
Total	0	0,13	0,83	2,87	5,36	94,64	100

Table 17

Annual: BGBW - Frequencies (%) Visibility - Ceiling

No. Obs = 50.289	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,0020	0,056	0,25	0,40	0,42	0,14	0,56
<1 km	0,0020	0,058	0,34	0,67	0,73	0,17	0,89
<1.5 km	0,0020	0,060	0,41	1,01	1,20	0,30	1,51
<3.0 km	0,0020	0,062	0,49	1,41	1,94	0,67	2,61
< 5.0 km	0,0020	0,064	0,55	1,67	2,45	1,28	3,73
>= 5,0 km or CAVOK	0	0,0080	0,21	1,21	3,49	92,78	96,27
Total	0,0020	0,072	0,76	2,89	5,94	94,06	100

Table 18

Wind direction histograms

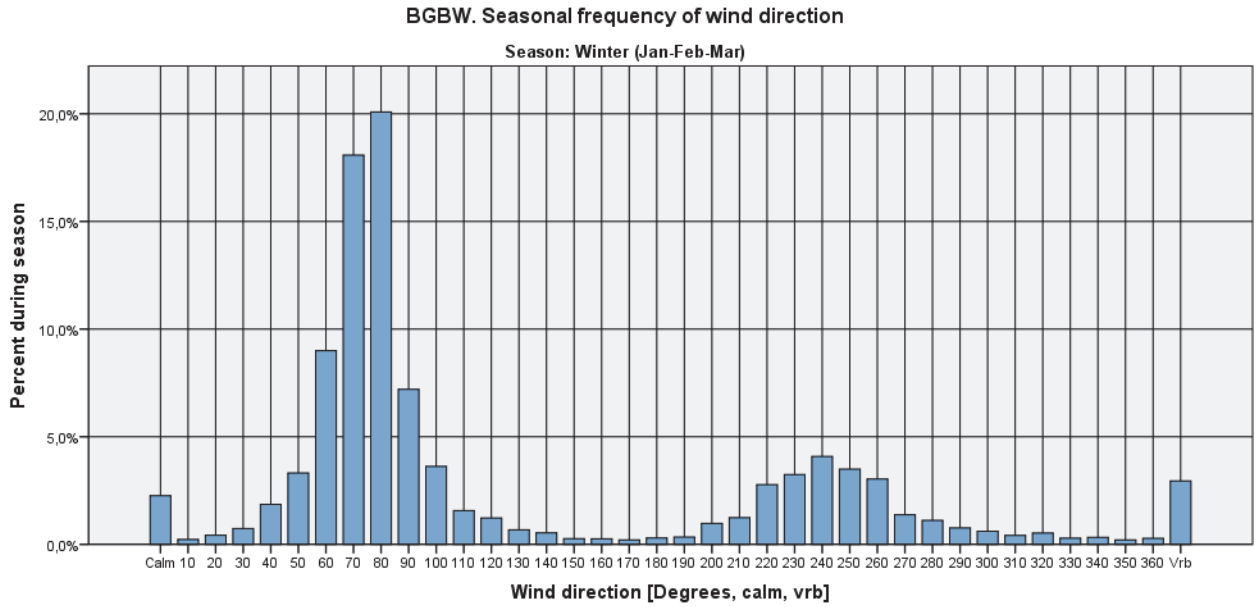


Figure 47

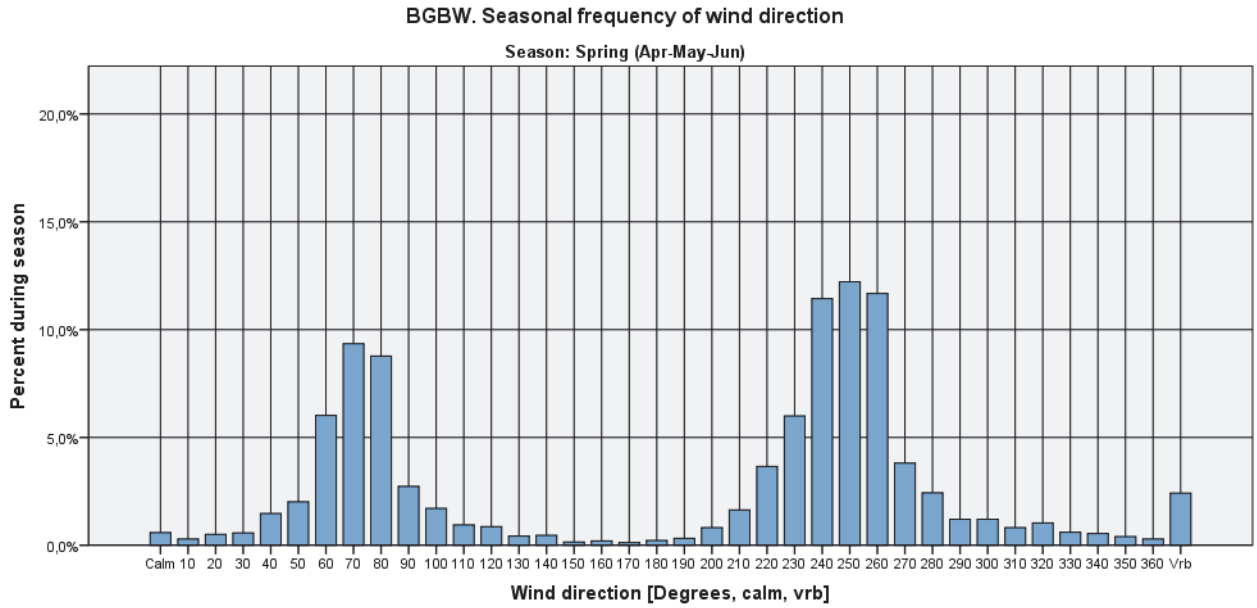


Figure 48

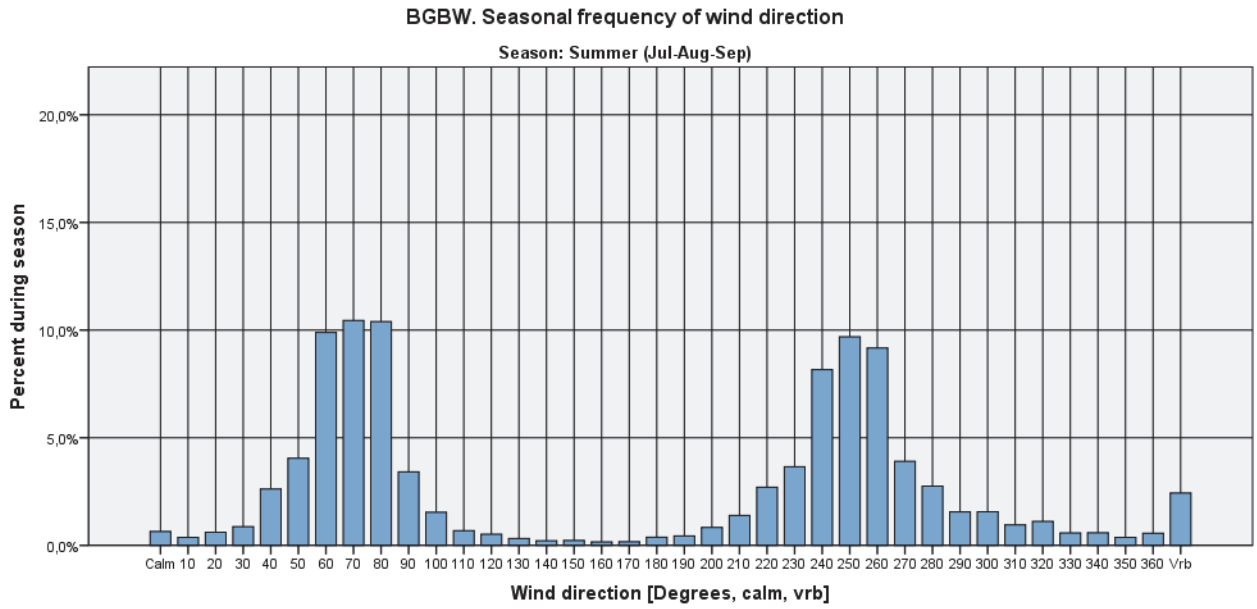


Figure 49

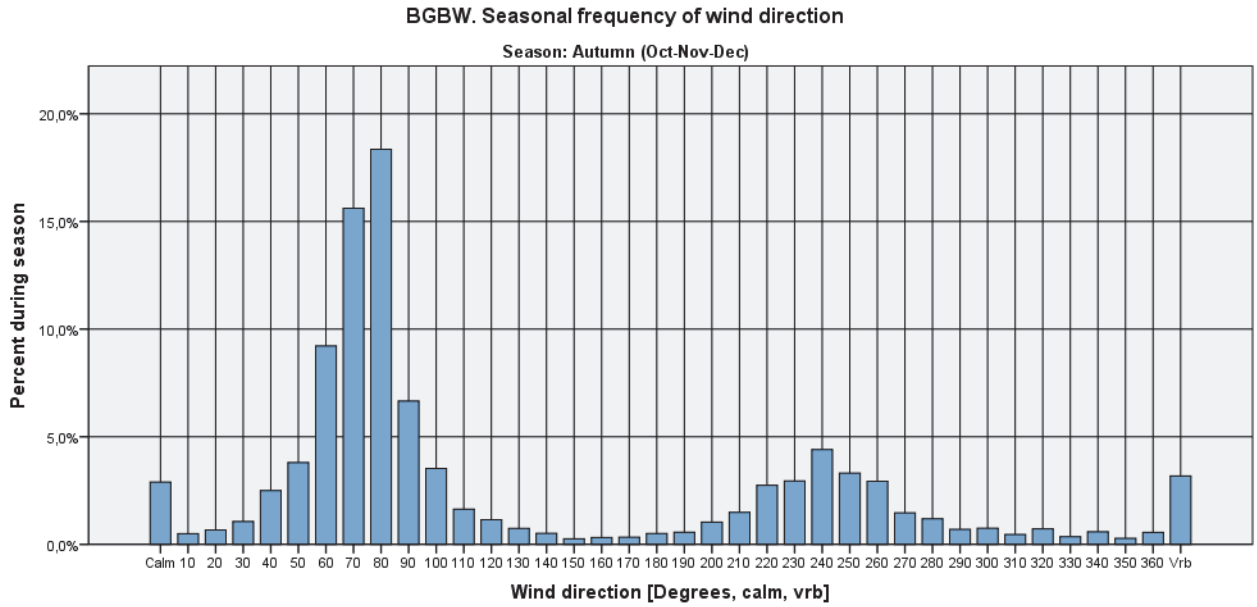


Figure 50

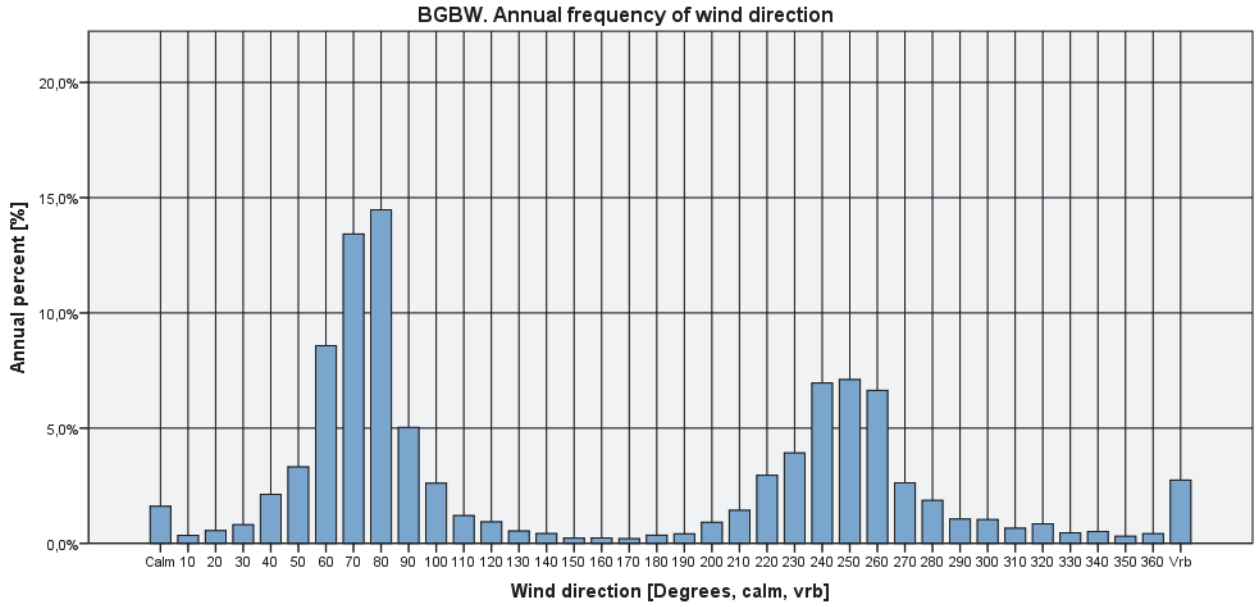

BGBW. Annual frequency of wind direction
Annual percent [%]
20,0%
15,0%
10,0%
5,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 51

Visibility criteria on wind direction histograms

Visibility<1000 m

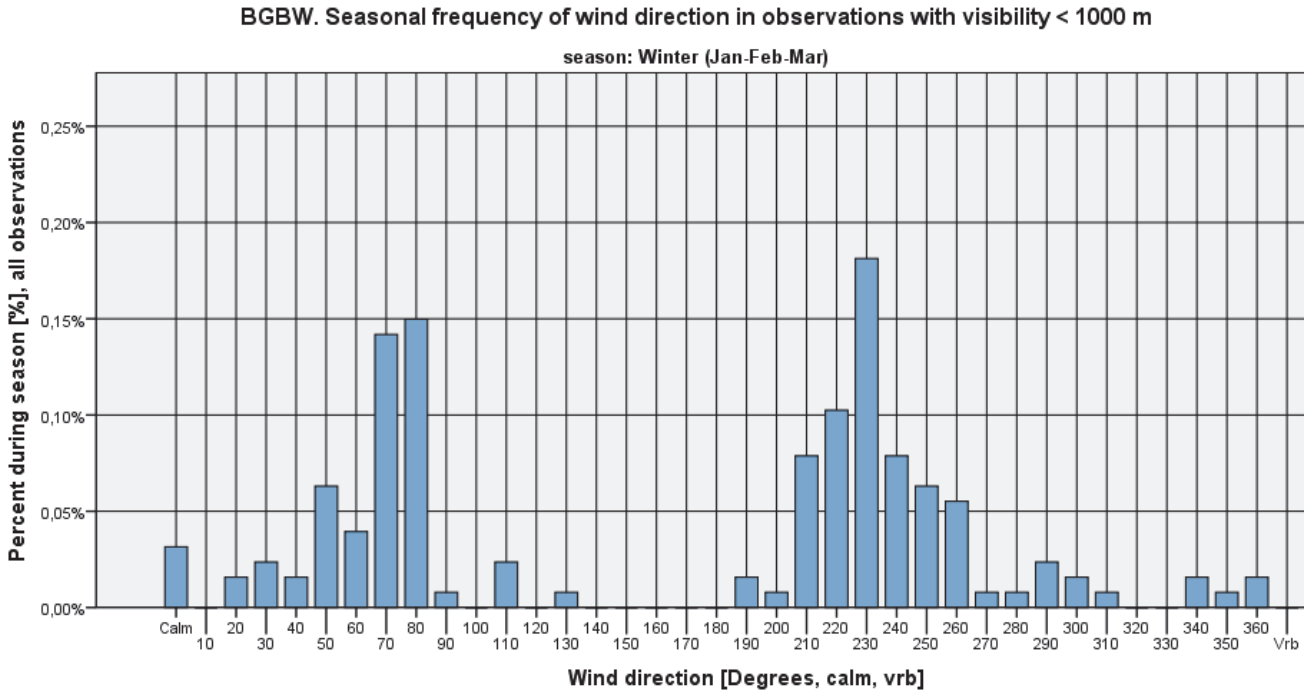


Figure 52

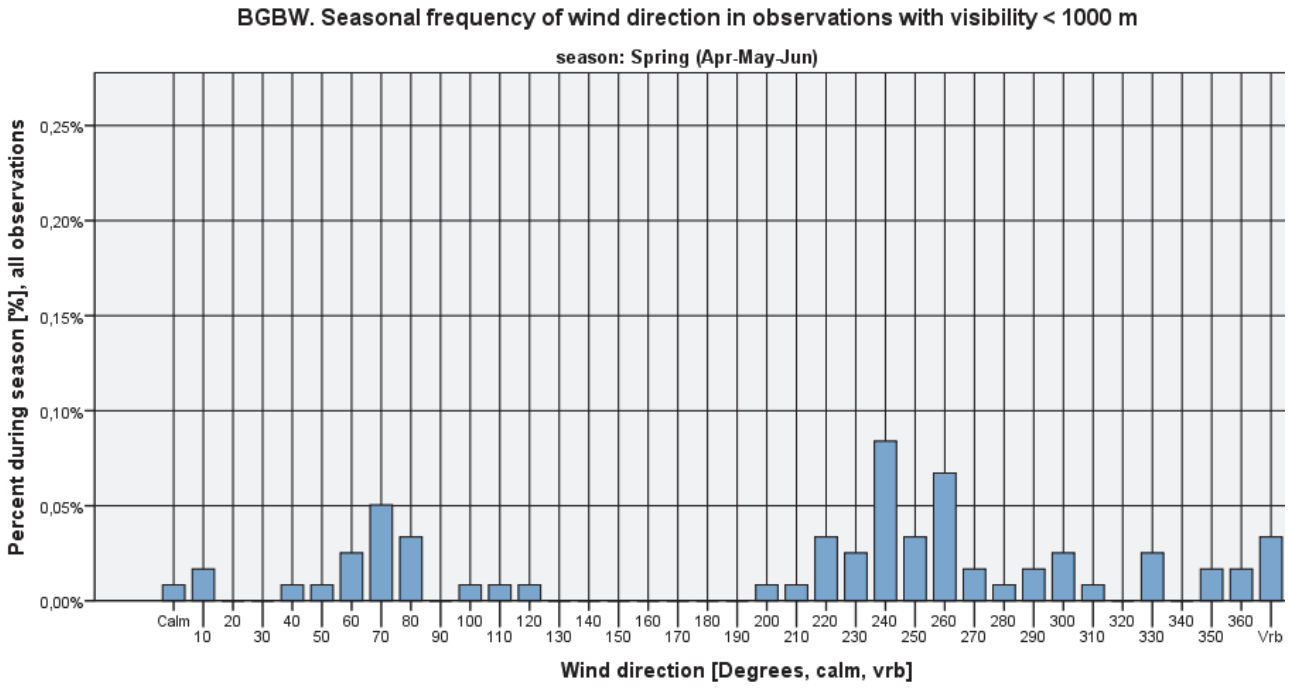


Figure 53

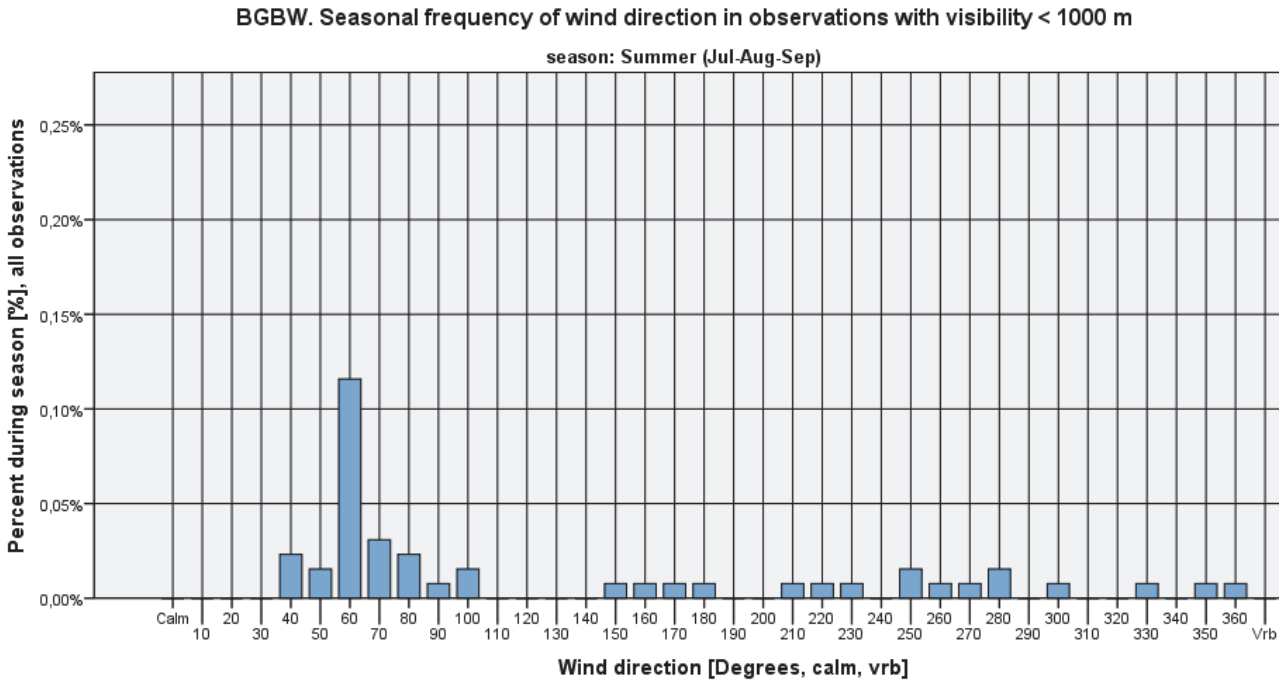


Figure 54

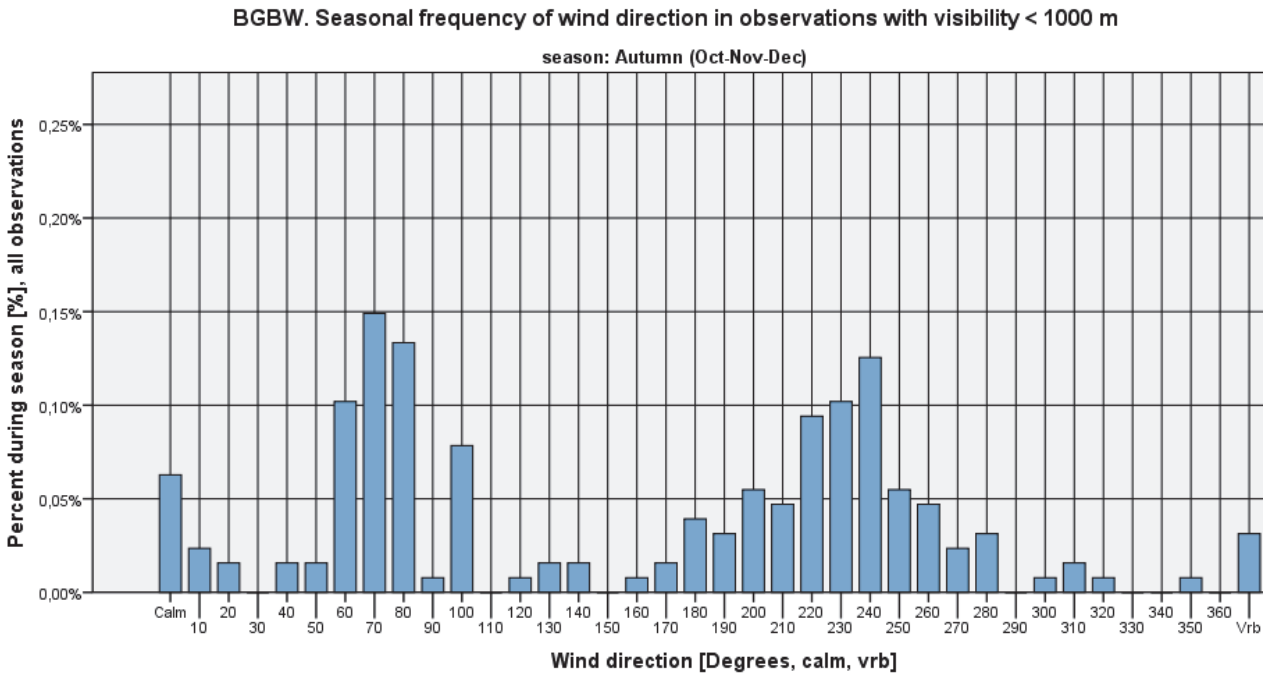


Figure 55

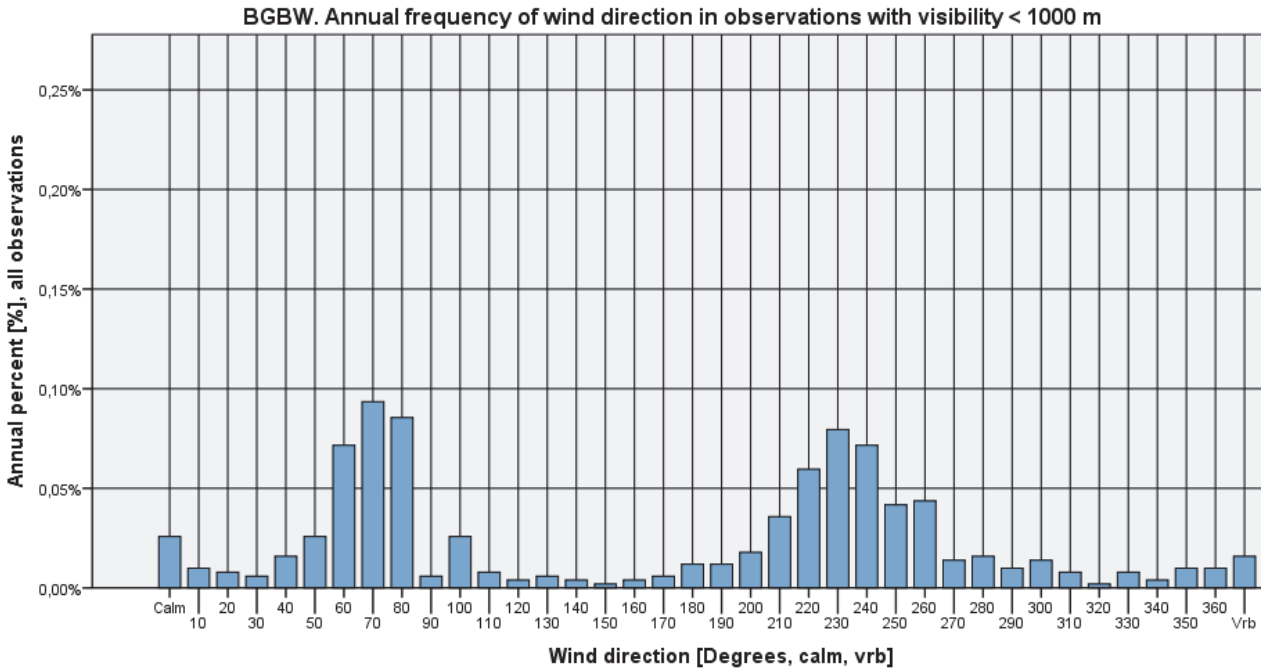

BGBW. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
0,25%
0,20%
0,15%
0,10%
0,05%
0,00%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 56

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

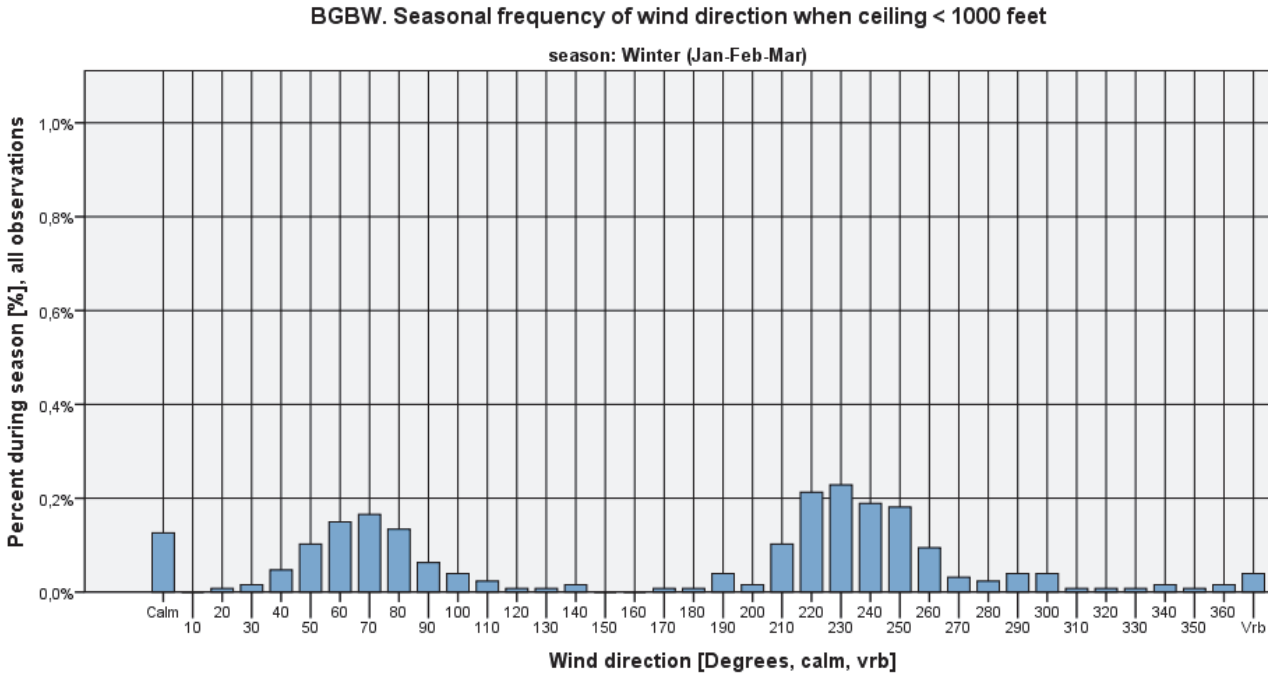


Figure 57

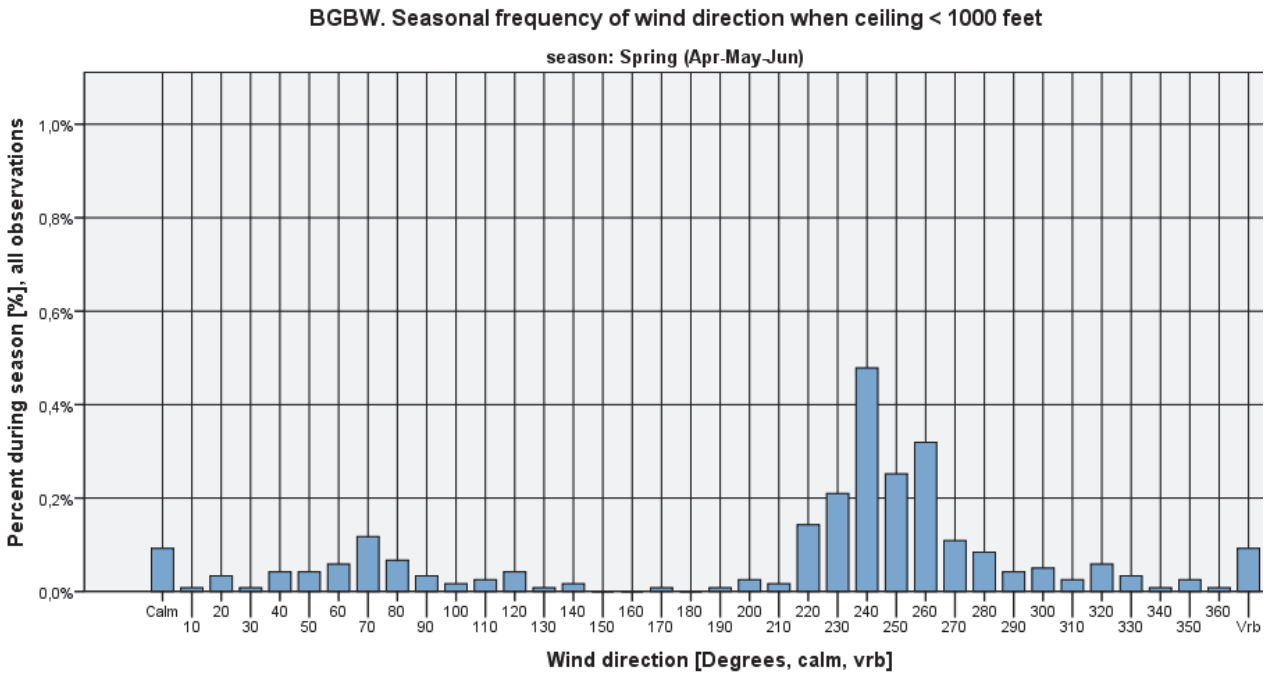


Figure 58

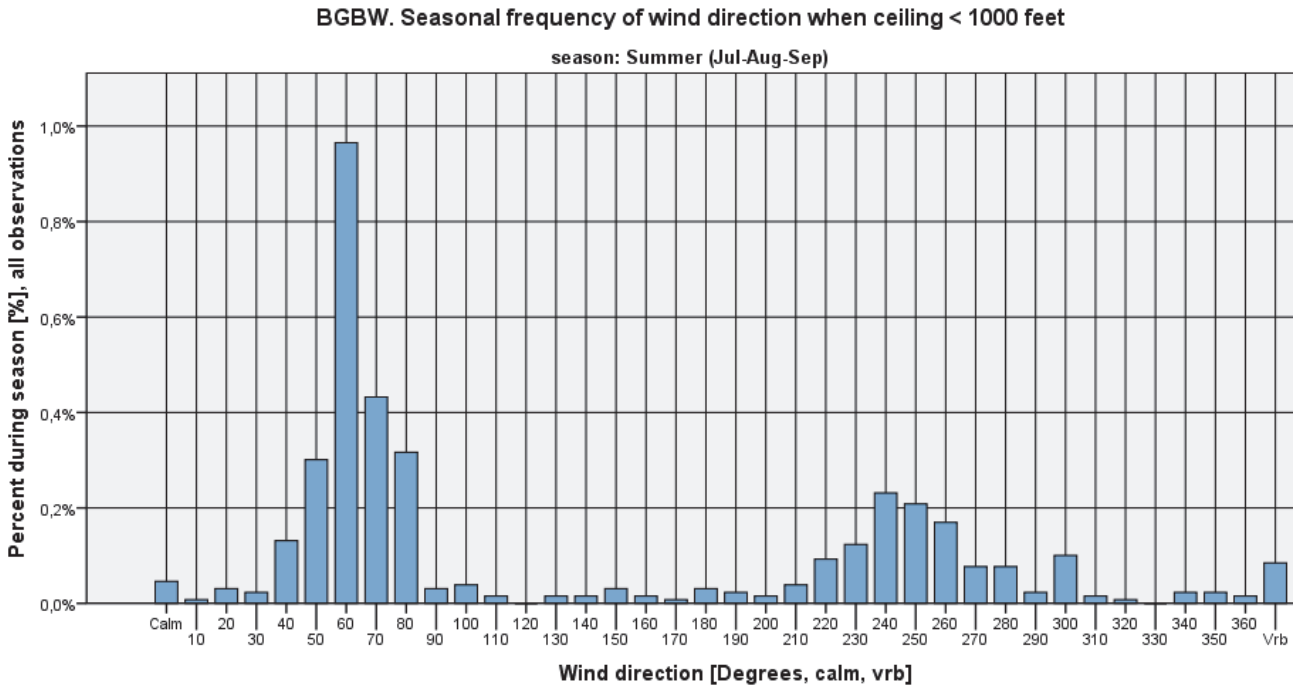


Figure 59

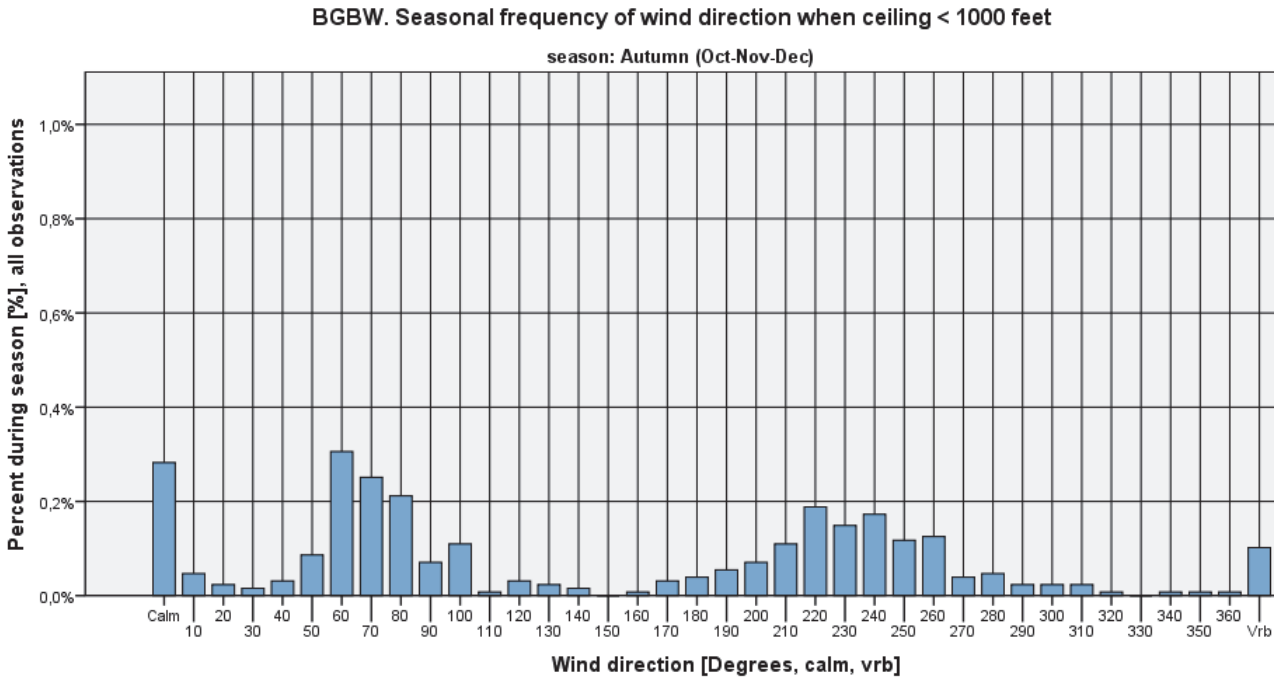


Figure 60

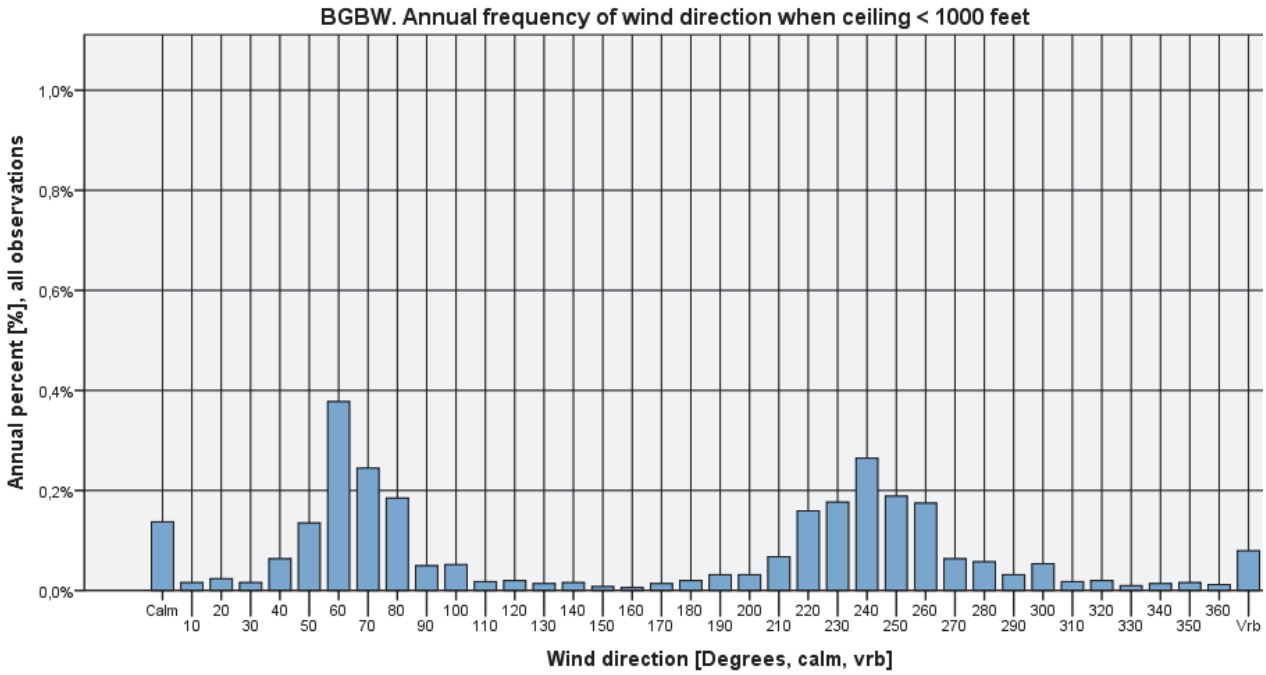

BGBW. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 61

Ceiling<500 feet

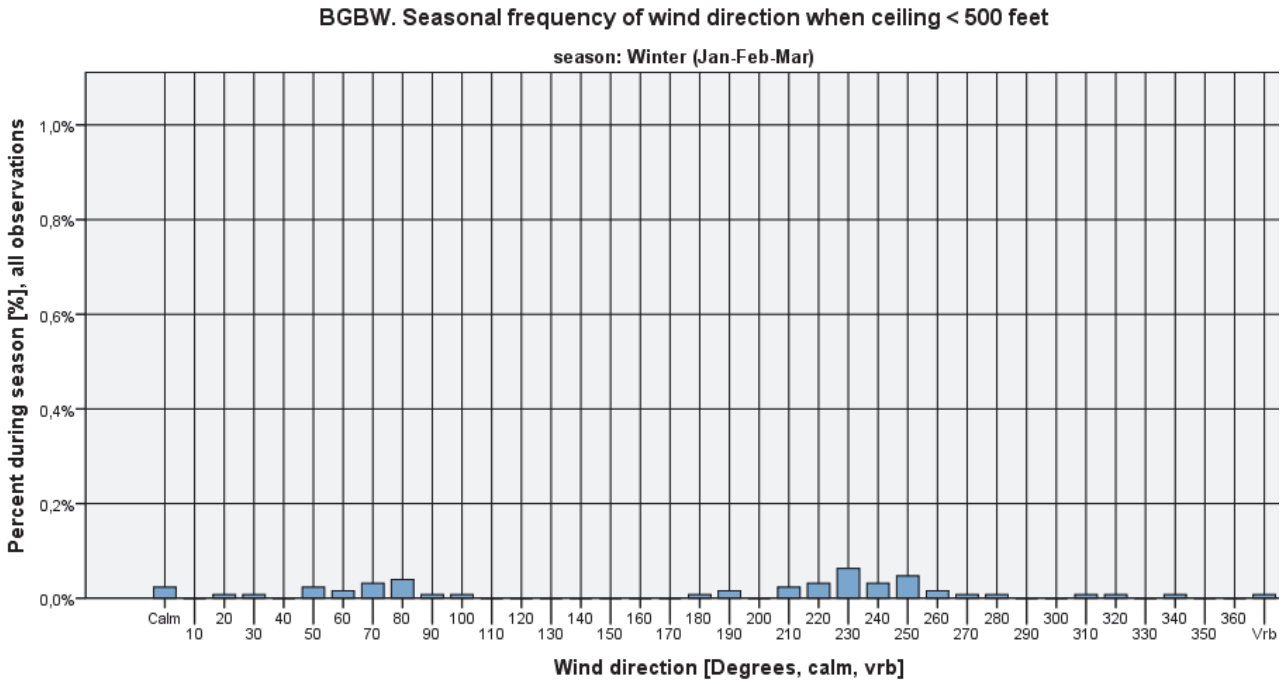


Figure 62

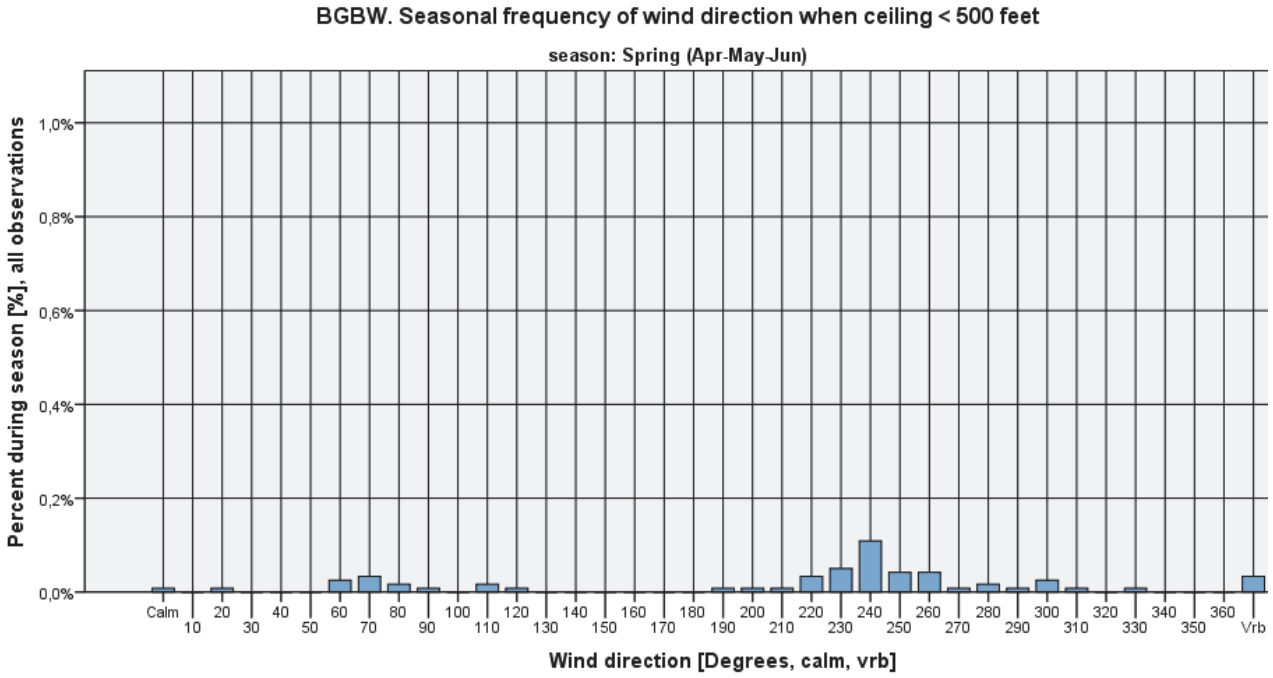


Figure 63

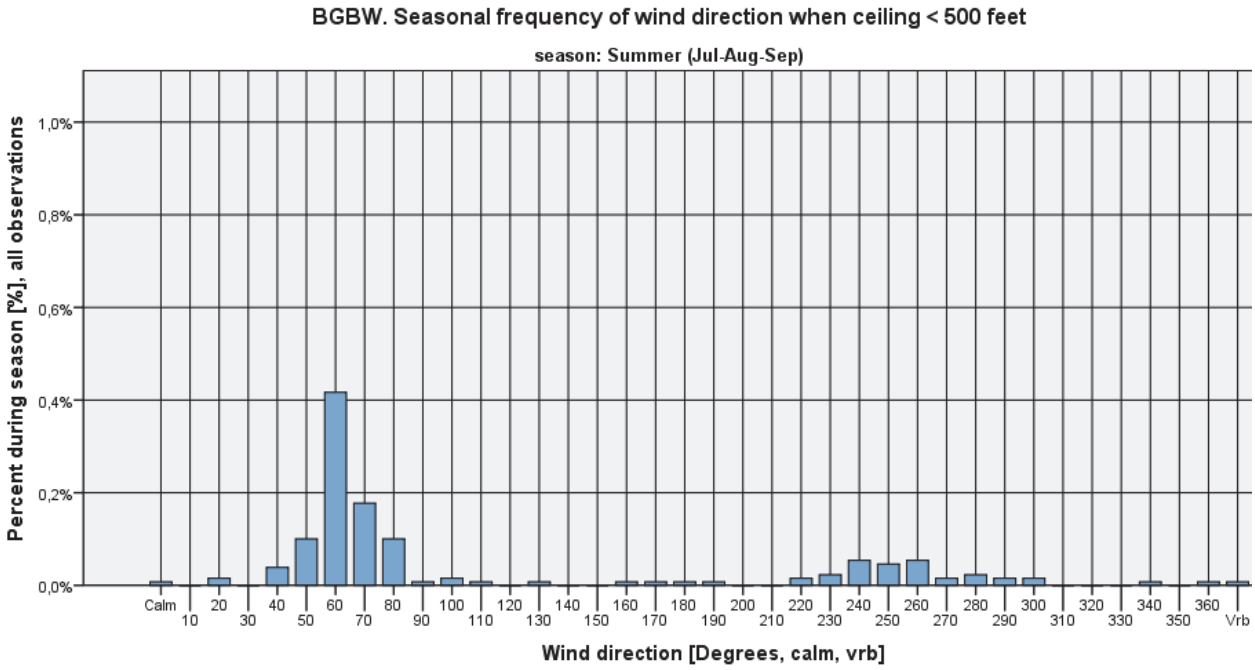


Figure 64

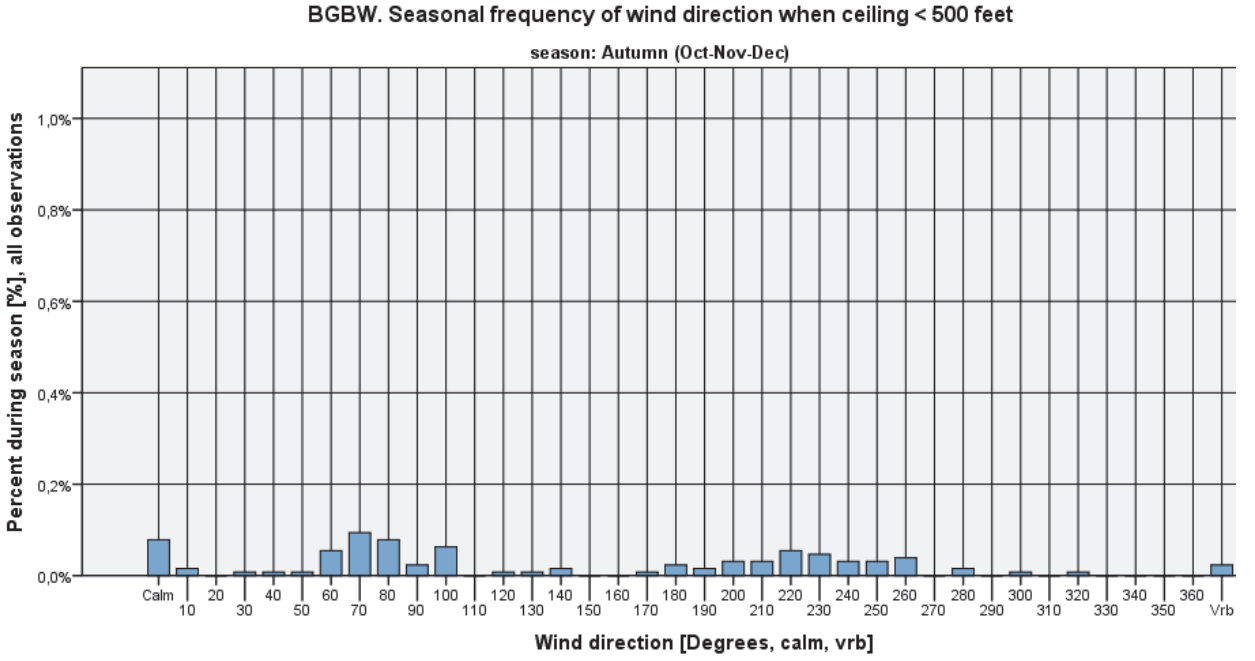


Figure 65

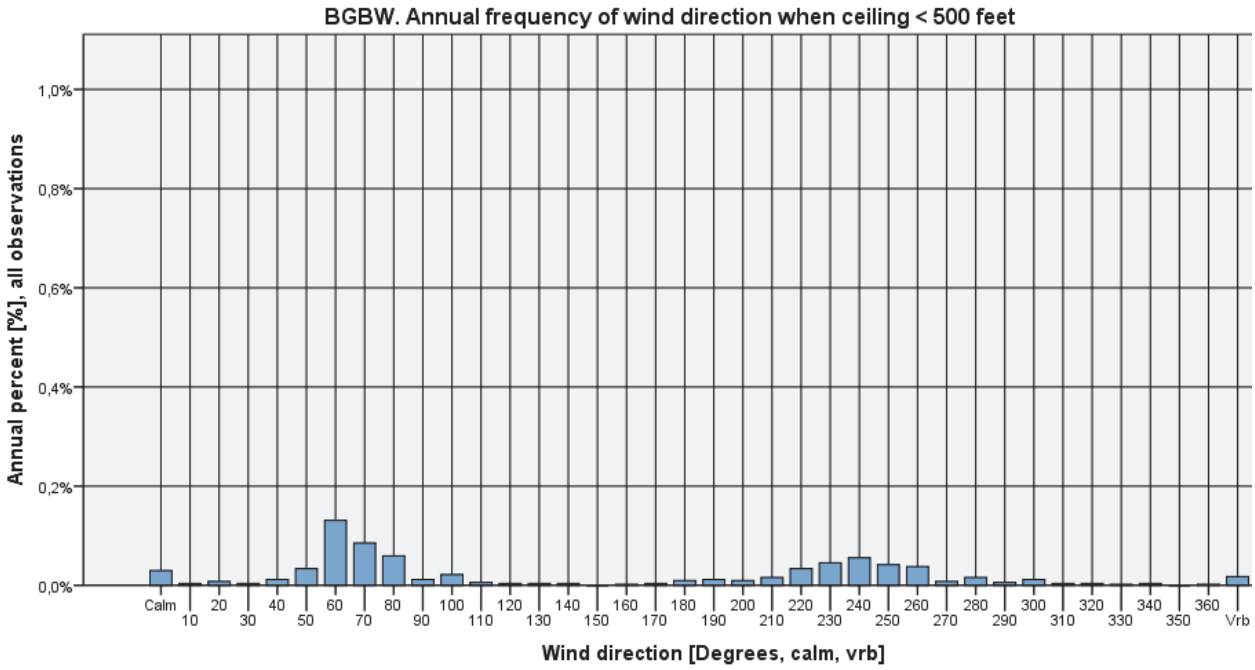
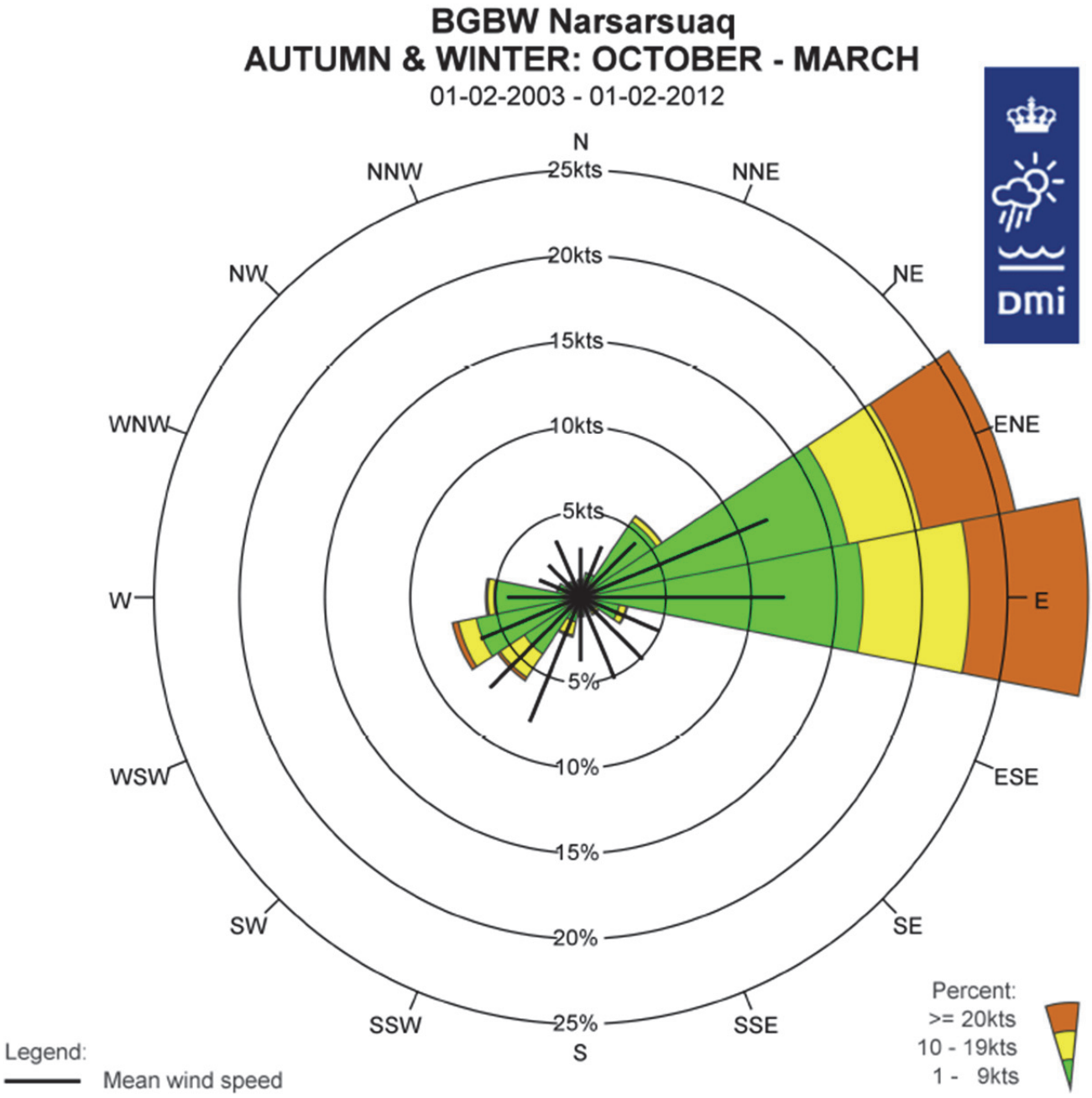

BGBW. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 66

Wind roses

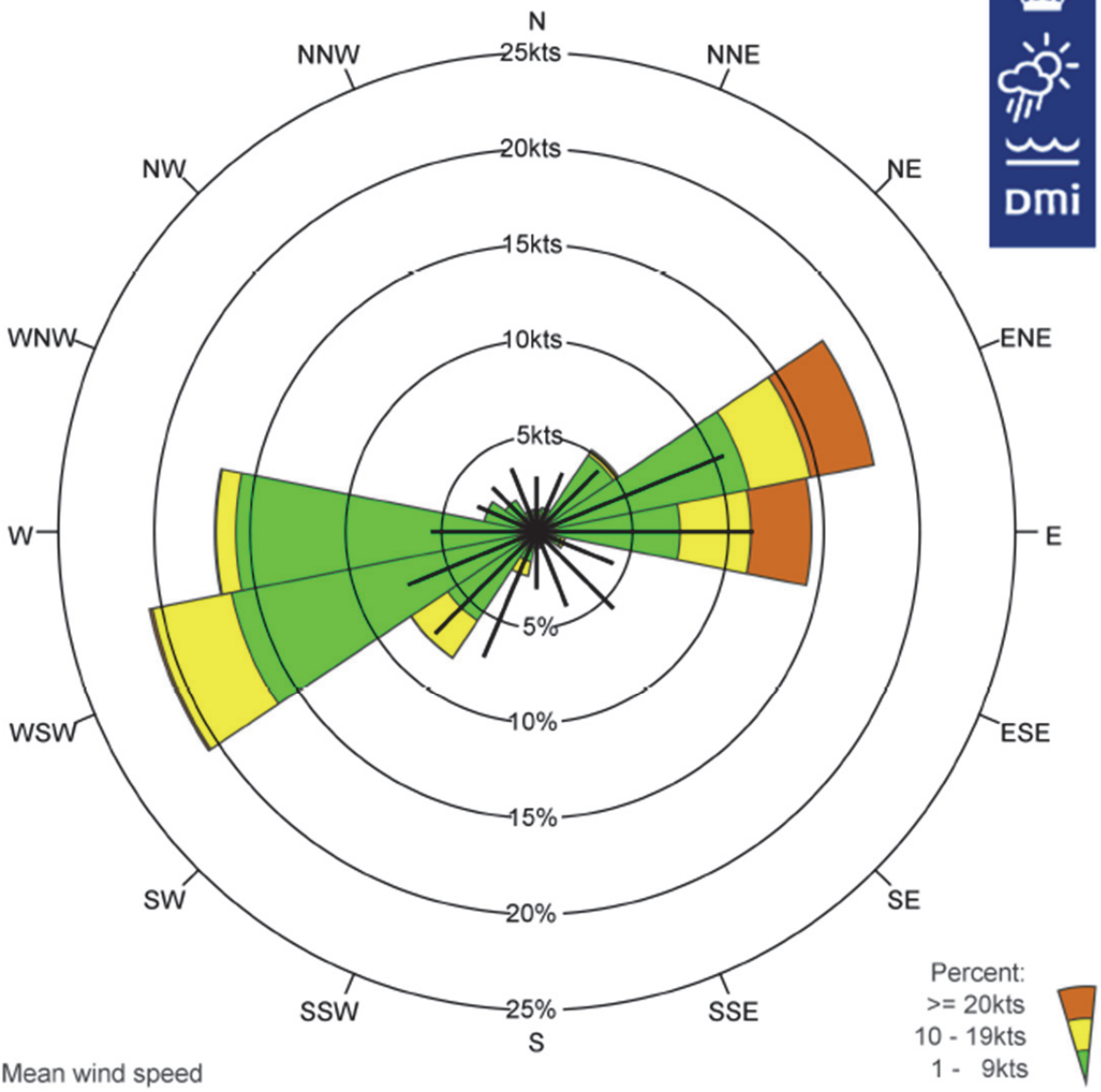


	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	1.0	1.5	5.7	26.0	29.7	2.8	1.2	0.6	1.1	2.4	5.9	7.7	5.6	1.4	1.1	0.8	94.4
% 1 - 9kts	1.0	1.4	5.3	16.0	16.5	2.3	1.0	0.4	1.1	1.5	4.0	6.2	5.1	1.4	1.1	0.7	65.0
% 10 - 19kts	0.0	0.0	0.4	4.4	6.2	0.4	0.2	0.1	0.1	0.8	1.7	1.1	0.4	0.0	0.0	0.0	15.8
% >= 20kts	0.0	0.0	0.1	5.6	7.0	0.1	0.0	0.0	0.0	0.1	0.2	0.3	0.1	0.0	0.0	0.0	13.5
Mean wind speed	2.8	3.3	4.5	11.9	12.0	5.1	5.1	5.1	3.7	7.9	7.5	6.3	4.3	2.7	2.6	3.6	9.2
Max wind speed	21.0	25.0	50.0	62.0	63.0	27.0	24.0	17.0	17.0	29.0	30.0	32.0	32.0	15.0	17.0	24.0	63.0

Number of observations = 25430
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 1435=5.6%
Observations with calm/varying wind direction are not used in the statistics

Source: DMI

BGBW Narsarsuaq
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	1.2	1.3	5.1	18.0	14.3	1.5	0.7	0.4	0.8	2.3	7.9	20.6	16.8	2.8	2.0	1.2	97.0
% 1 - 9kts	1.1	1.2	4.8	11.3	7.5	1.3	0.5	0.3	0.8	1.6	5.6	16.3	15.7	2.8	2.0	1.1	74.0
% 10 - 19kts	0.0	0.0	0.3	3.2	3.7	0.2	0.2	0.0	0.0	0.7	2.3	4.2	1.0	0.0	0.0	0.0	16.1
% >= 20kts	0.0	0.0	0.0	3.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	6.9
Mean wind speed	2.9	3.4	4.6	10.5	11.4	4.4	5.6	4.2	3.0	7.1	7.6	7.4	5.5	3.3	3.3	3.6	7.6
Max wind speed	19.0	29.0	26.0	63.0	58.0	20.0	23.0	16.0	10.0	22.0	26.0	34.0	28.0	14.0	19.0	22.0	63.0

Number of observations = 24859
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 757=3.0%
Observations with calm/varying wind direction are not used in the statistics

Availability

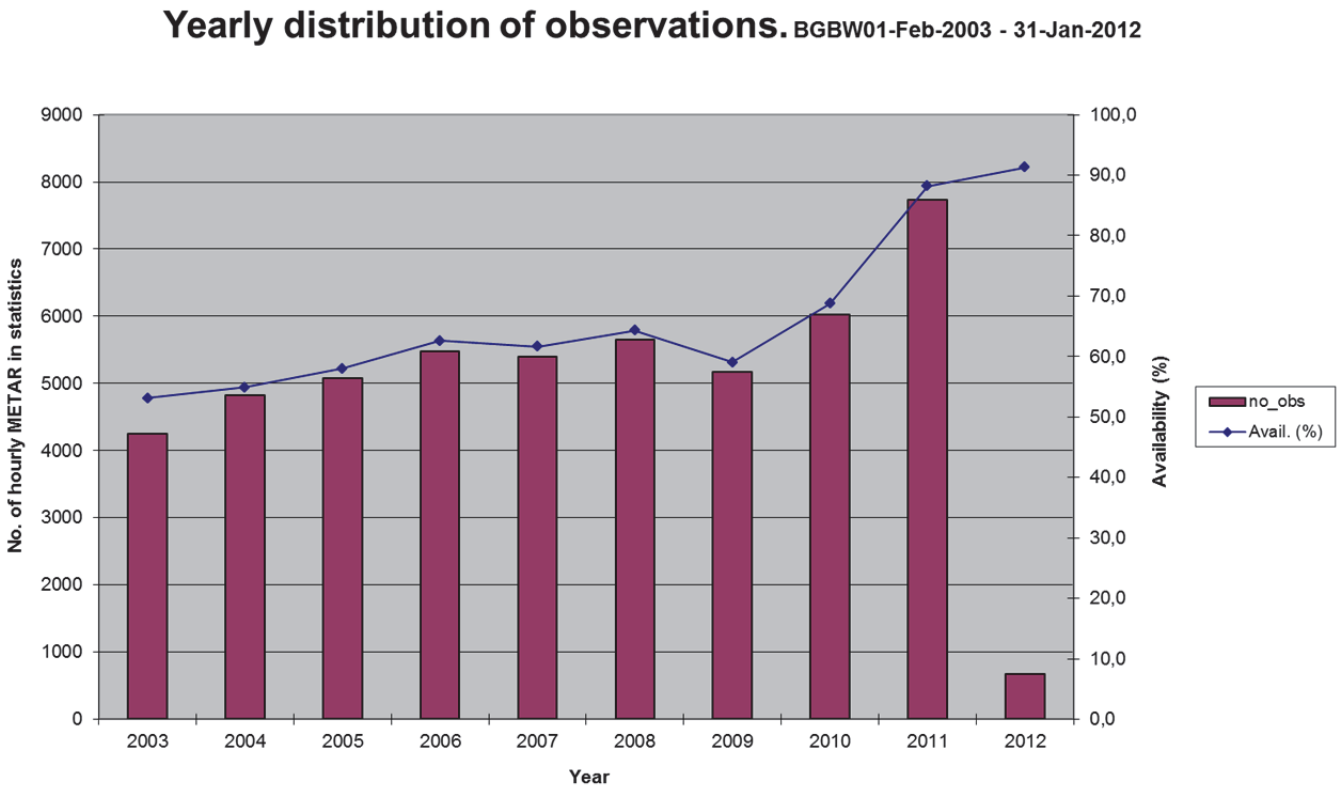


Figure 67

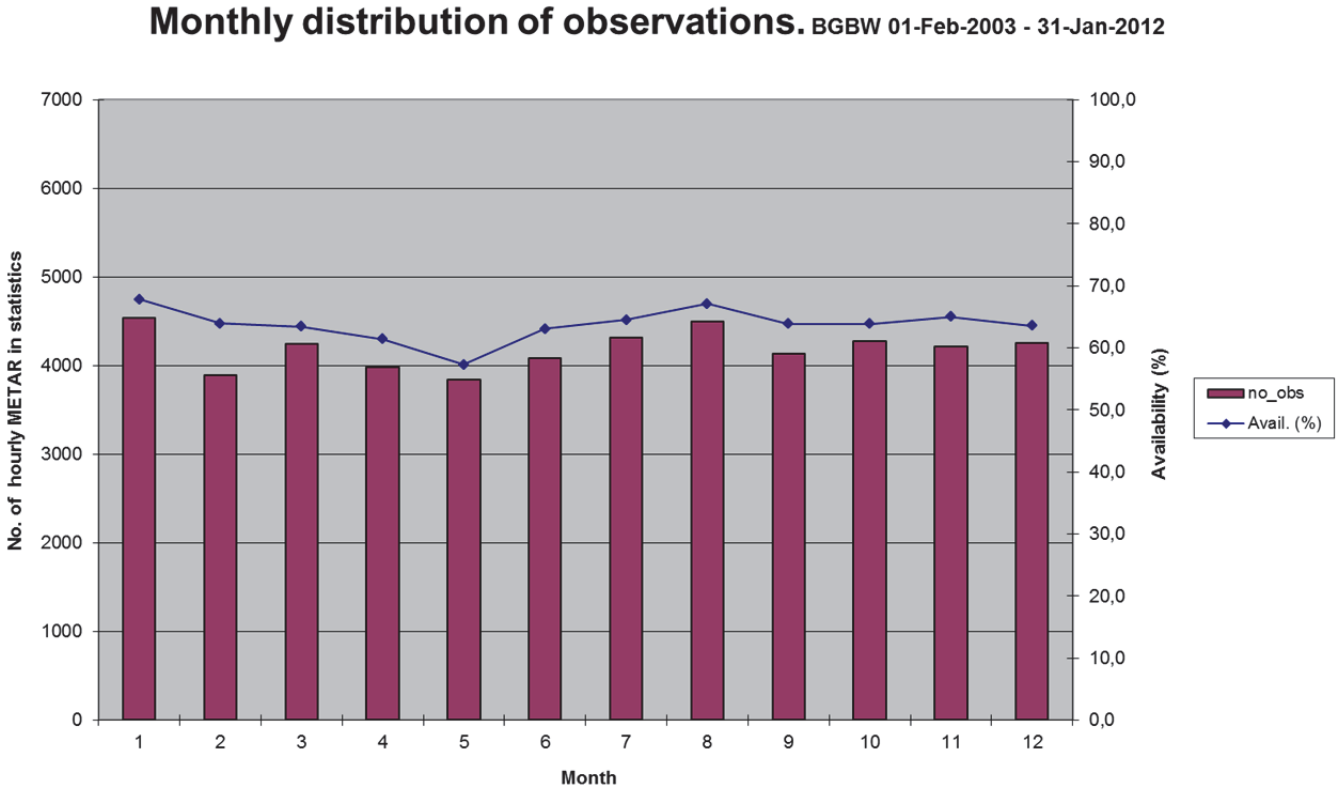


Figure 68

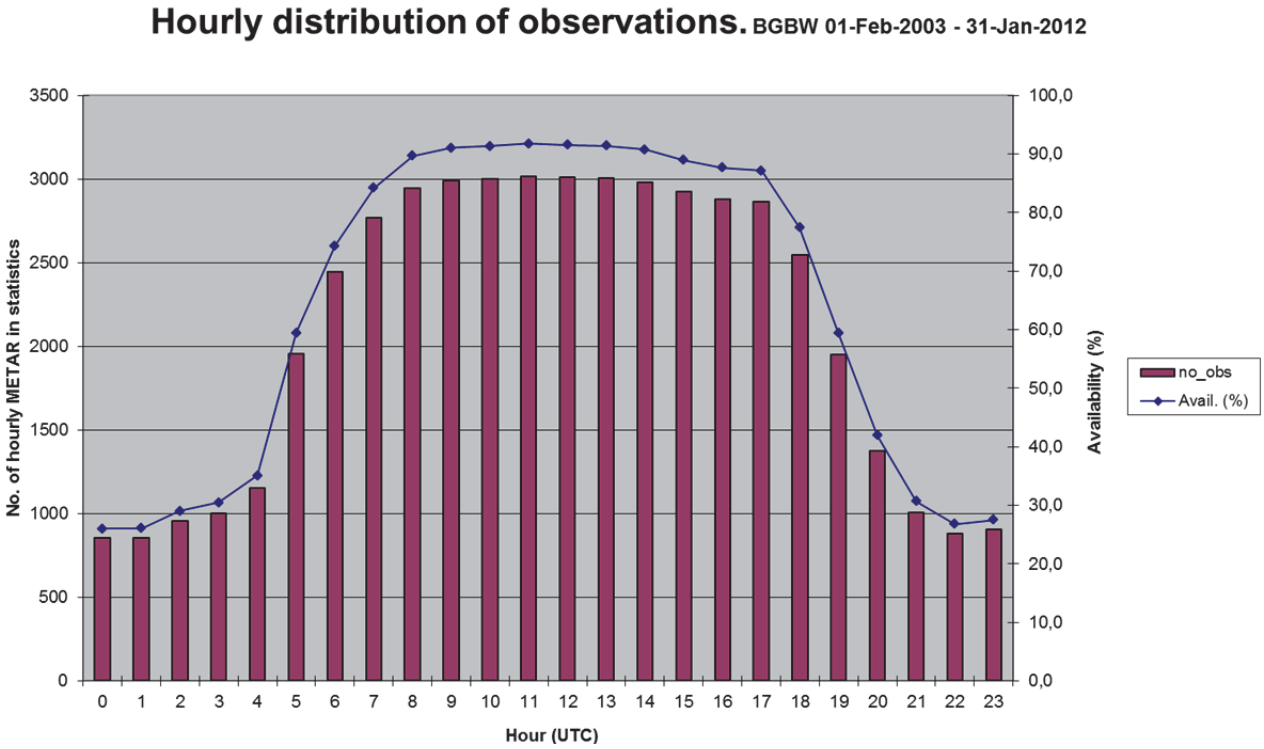


Figure 69

BGBW. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	,1	,1	,2	,2	,2	,2	,2	,4	,7	0,8
	1	,1	,1	,2	,2	,2	,2	,2	,4	,7	0,9
	2	,1	,1	,2	,2	,3	,3	,2	,4	,7	0,8
	3	,1	,1	,2	,2	,3	,3	,2	,4	,9	0,9
	4	,2	,2	,2	,3	,3	,3	,2	,4	,9	1,0
	5	,5	,5	,6	,6	,6	,6	,4	,6	,9	1,0
	6	,7	,7	,7	0,8	0,7	,7	,7	,7	1,0	1,0
	7	,8	,8	,8	,8	,8	,8	,8	,8	1,0	,9
	8	,9	,8	,9	,9	,9	0,9	,9	,9	1,0	1,0
	9	,9	,9	,9	,9	,9	,9	,9	,9	1,0	1,0
	10	,9	,9	,9	0,9	,9	0,9	,9	0,9	1,0	1,0
	11	,9	,9	,9	,9	,9	,9	,9	,9	,9	1,0
	12	,9	,9	,9	,9	,9	,9	,9	,9	1,0	1,0
	13	,9	,9	,9	,9	,9	0,9	,9	,9	1,0	1,0
	14	,9	,9	,9	,9	,9	,9	,9	,9	1,0	1,0
	15	,8	,9	,9	,9	,9	,9	,9	,9	,9	,9
	16	,8	,9	,8	,9	0,9	,9	,9	,9	,9	1,0
	17	,8	,8	,8	,9	,9	,9	,9	,9	,9	0,9
	18	,6	,7	,7	,8	,8	,8	,8	,8	,9	1,0
	19	,3	,5	,5	,6	,6	,6	,6	,7	,9	0,9
	20	,2	,2	,3	,4	0,4	,5	,4	,5	,8	0,8
	21	,1	,1	,2	,3	,2	,3	,3	,4	,7	,7
	22	,1	,1	,1	,3	,2	,3	,2	,4	,7	0,7
	23	,1	,1	,2	,3	0,2	,3	,2	,4	,7	,9

Table 19

BGJN Ilulissat/Jakobshavn

Mittarfik Ilulissat

Location: 69,233°N 51,067°W H: 29 m above msl

BGJN observations in statistics: 67.346 hourly METAR[4] covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall availability of 85,4%.

The availability is lowered by lack of observations during night-time and Sundays in the years 2003-2004. More details are shown in the Availability section.

The BGJN METAR are all manual until 31 March 2004, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGJN - Frequencies (%) Visibility - Ceiling

No. Obs = 16.315	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,074	0,17	0,57	0,85	0,91	0,36	1,26
<1 km	0,074	0,18	0,67	1,12	1,27	0,51	1,78
<1.5 km	0,074	0,18	0,77	1,67	1,93	0,95	2,88
<3.0 km	0,074	0,18	0,81	2,40	3,32	2,88	6,20
< 5.0 km	0,074	0,18	0,84	2,66	4,15	5,85	10,00
>= 5,0 km or CAVOK	0	0	0,14	0,86	2,41	87,59	90,00
Total	0,074	0,18	0,98	3,52	6,56	93,44	100

Table 20

Spring (Apr-May-Jun): BGJN - Frequencies (%) Visibility - Ceiling

No. Obs = 16.763	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,10	0,67	1,25	1,32	1,33	0,17	1,50
<1 km	0,10	0,71	1,59	1,71	1,74	0,26	2,00
<1.5 km	0,10	0,72	1,79	2,14	2,23	0,45	2,68
<3.0 km	0,10	0,77	2,12	3,01	3,53	1,09	4,62
< 5.0 km	0,10	0,79	2,39	3,75	4,87	2,56	7,43
>= 5,0 km or CAVOK	0	0,030	0,77	3,94	6,85	85,72	92,57
Total	0,10	0,82	3,16	7,70	11,72	88,28	100

Table 21

[4] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGJN - Frequencies (%) Visibility - Ceiling

No. Obs = 17.270	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,10	0,47	0,86	0,90	0,90	0,15	1,05
<1 km	0,11	0,50	1,02	1,11	1,11	0,29	1,40
<1.5 km	0,11	0,52	1,15	1,30	1,33	0,42	1,75
<3.0 km	0,11	0,56	1,44	1,88	1,98	0,72	2,70
< 5.0 km	0,11	0,57	1,57	2,68	3,02	1,19	4,20
>= 5,0 km or CAVOK	0	0,035	0,41	2,60	5,01	90,78	95,80
Total	0,11	0,60	1,98	5,28	8,03	91,97	100

Table 22

Autumn (Oct-Nov-Dec): BGJN - Frequencies (%) Visibility - Ceiling

No. Obs = 16.998	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,029	0,059	0,34	0,45	0,48	0,19	0,67
<1 km	0,029	0,065	0,45	0,70	0,73	0,32	1,05
<1.5 km	0,029	0,065	0,53	1,11	1,22	0,62	1,85
<3.0 km	0,029	0,065	0,56	1,74	2,40	2,05	4,45
< 5.0 km	0,029	0,071	0,59	2,04	3,15	4,33	7,48
>= 5,0 km or CAVOK	0	0	0,047	0,36	0,97	91,55	92,52
Total	0,029	0,071	0,64	2,39	4,12	95,88	100

Table 23

Annual: BGJN - Frequencies (%) Visibility - Ceiling

No. Obs = 67.346	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,077	0,35	0,76	0,88	0,90	0,22	1,12
<1 km	0,079	0,36	0,94	1,16	1,21	0,34	1,55
<1.5 km	0,079	0,37	1,06	1,55	1,67	0,61	2,28
<3.0 km	0,079	0,39	1,23	2,25	2,80	1,67	4,47
< 5.0 km	0,079	0,40	1,35	2,78	3,79	3,45	7,24
>= 5,0 km or CAVOK	0	0,016	0,34	1,95	3,82	88,94	92,76
Total	0,079	0,42	1,69	4,72	7,61	92,39	100

Table 24

Wind direction histograms

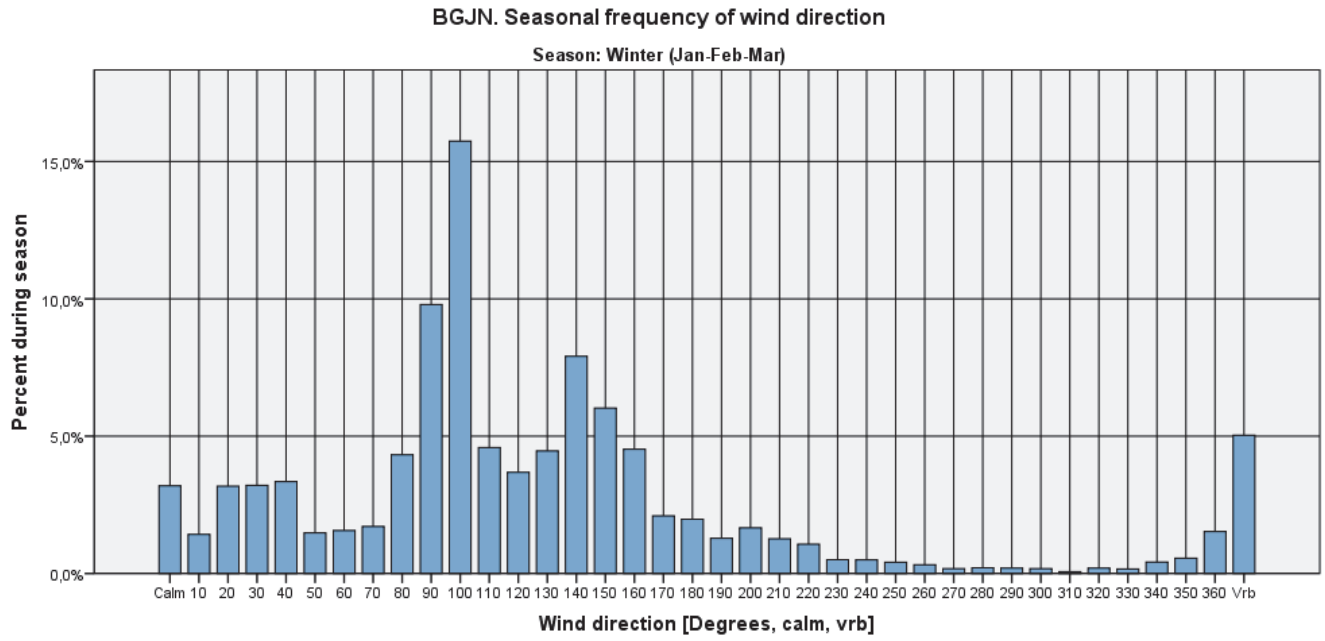


Figure 70

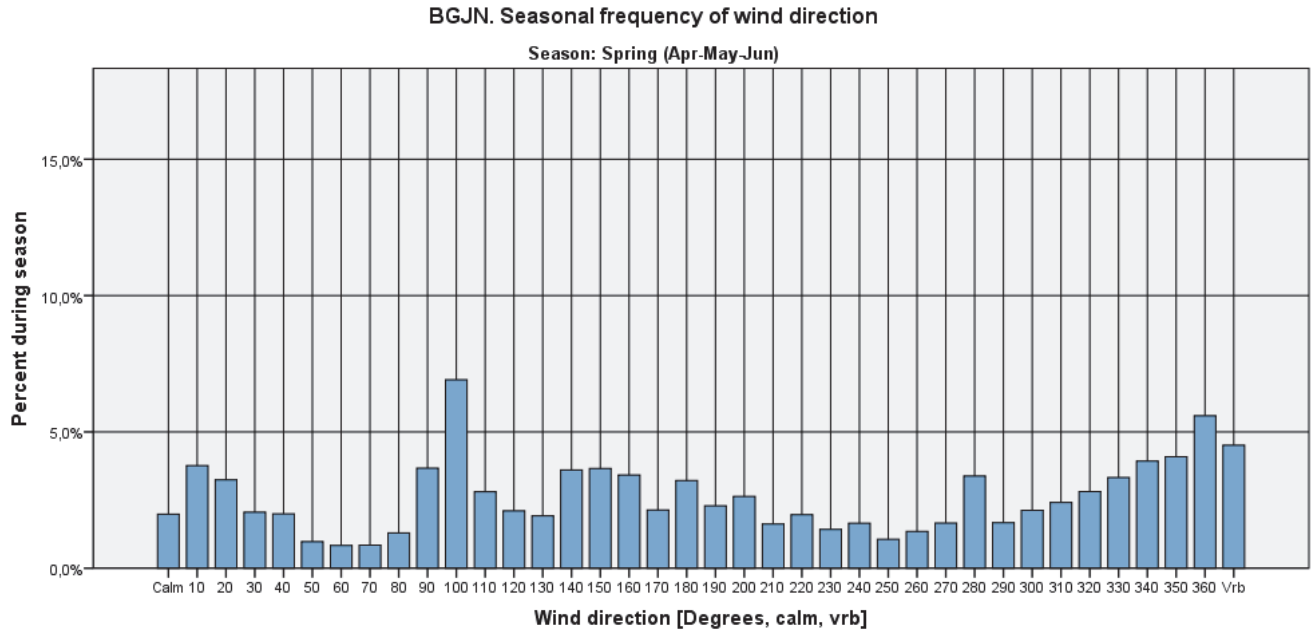


Figure 71

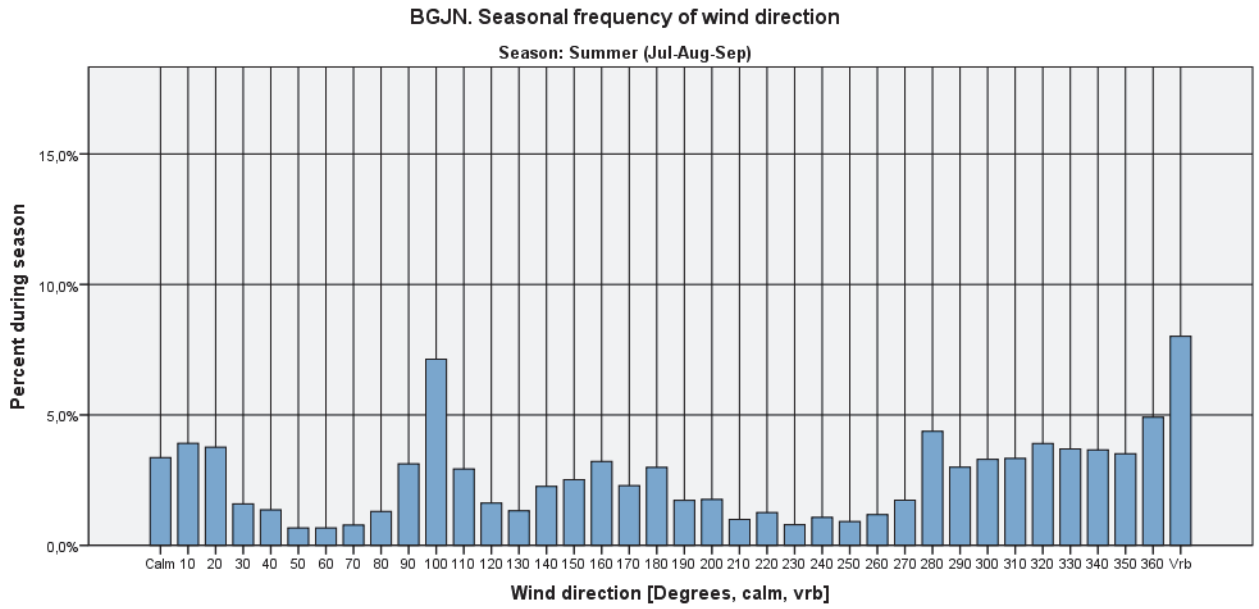


Figure 72

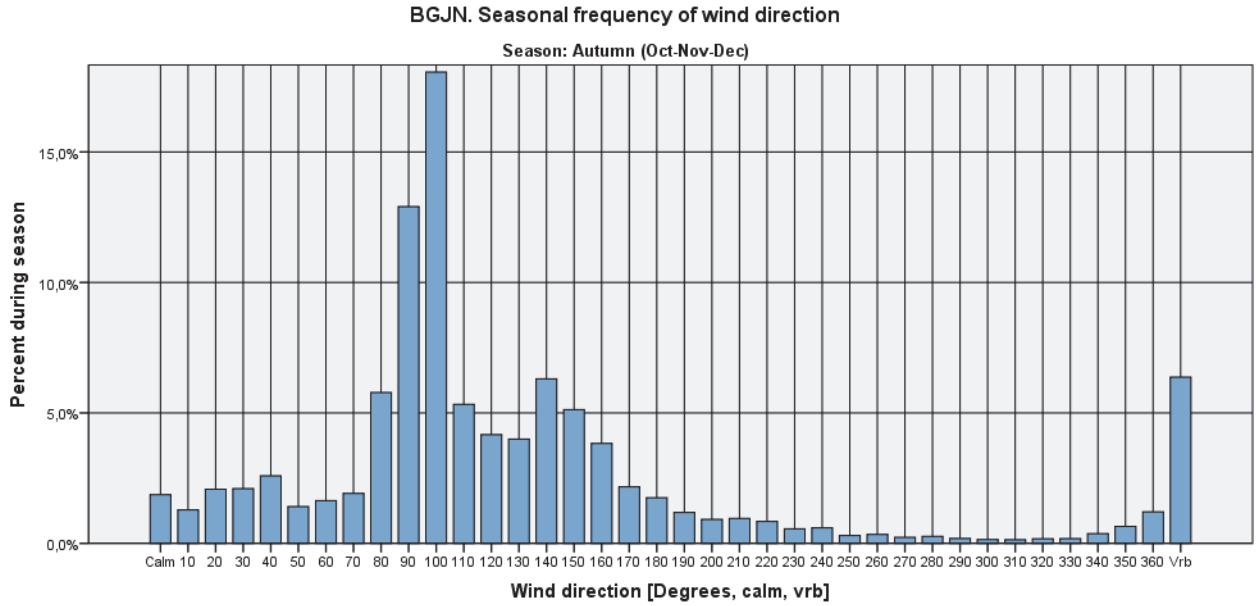


Figure 73

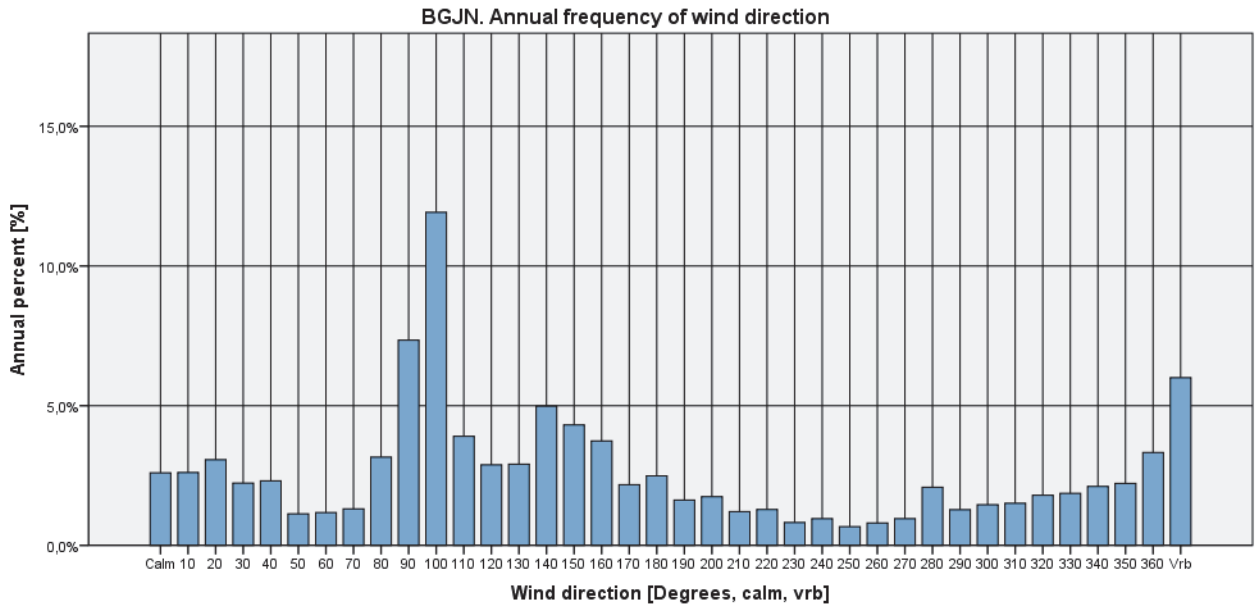

BGJN. Annual frequency of wind direction
Annual percent [%]
15,0%
10,0%
5,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 74

Visibility criteria on wind direction histograms

Visibility<1000 m

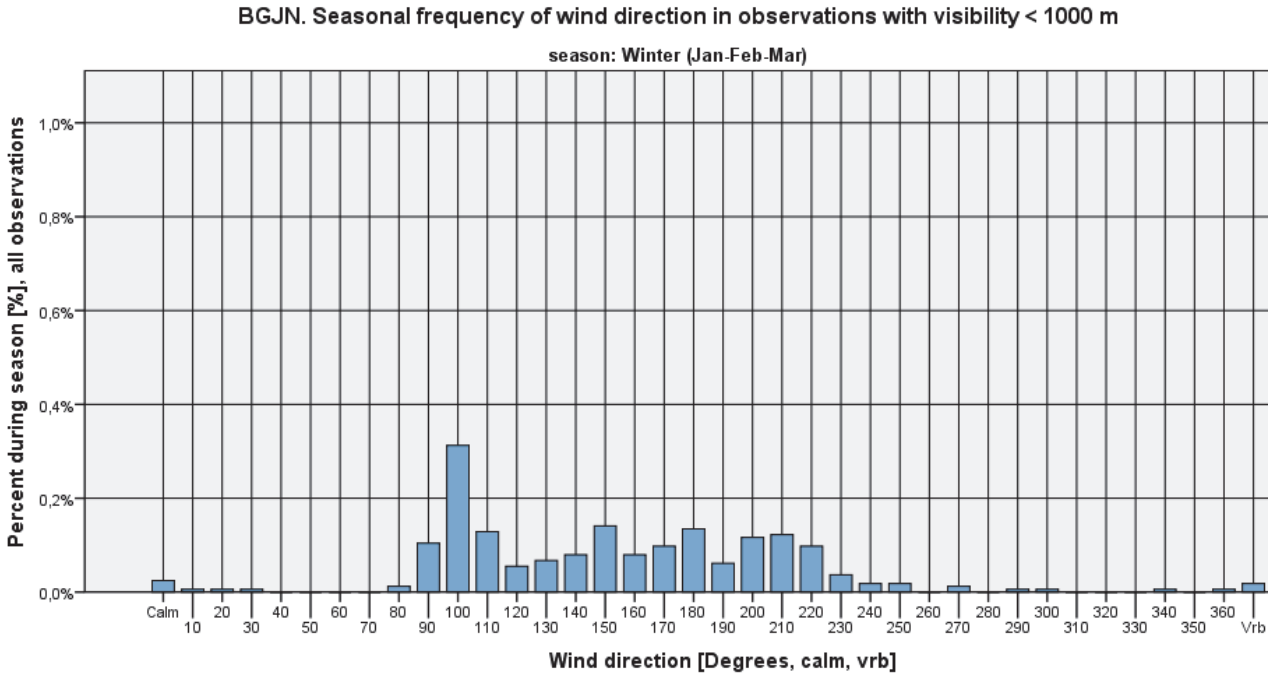


Figure 75

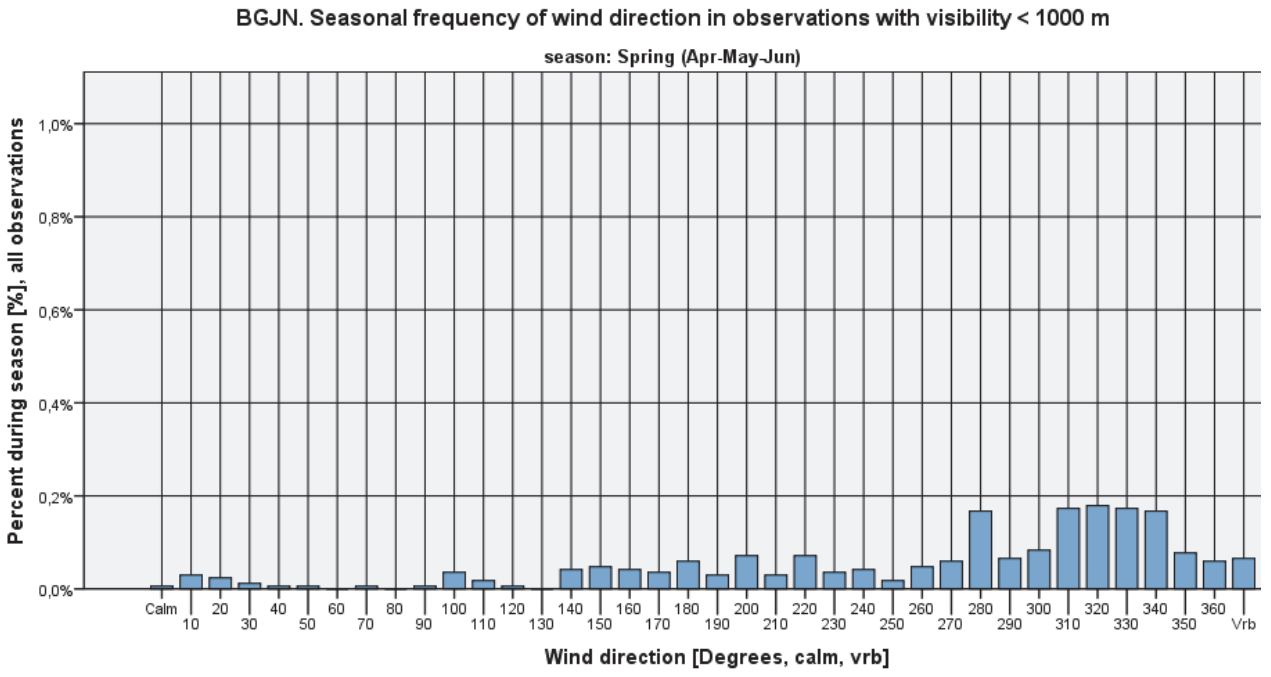


Figure 76

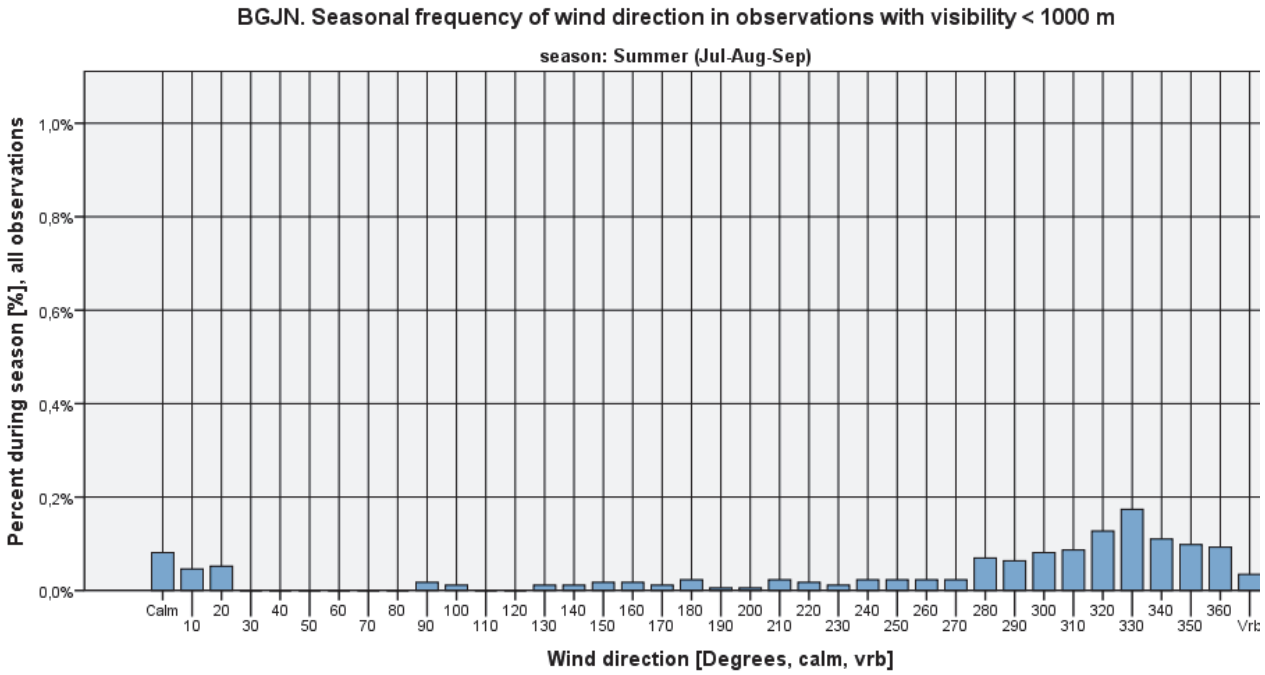


Figure 77

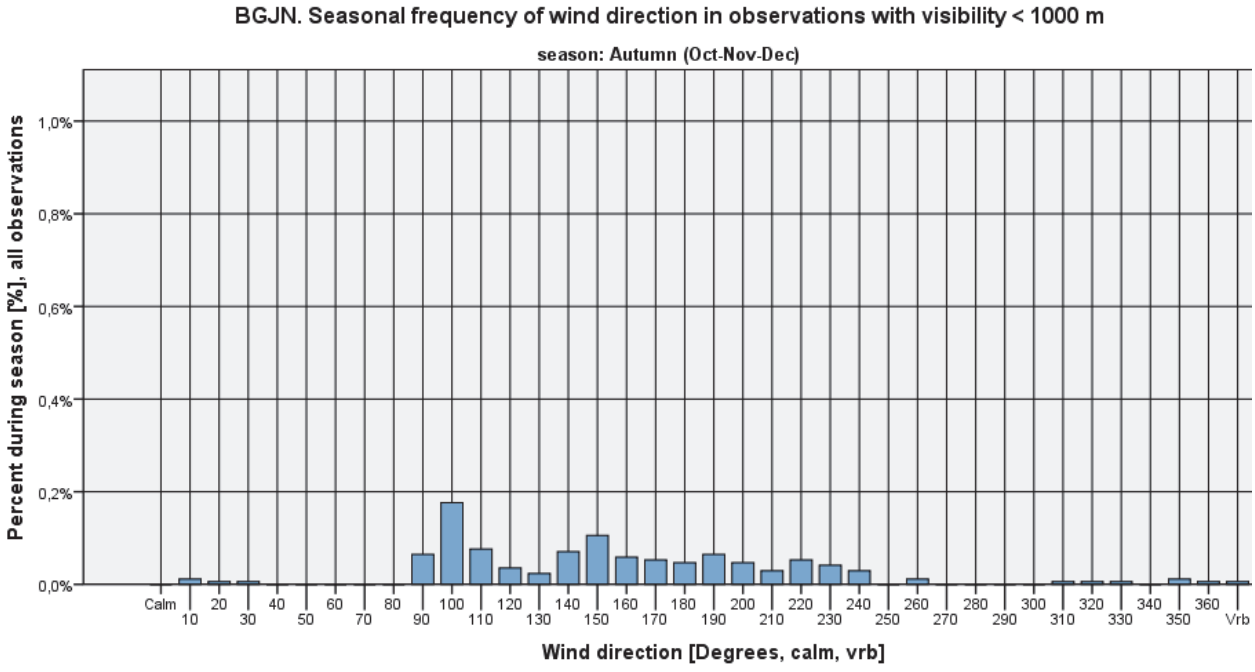


Figure 78

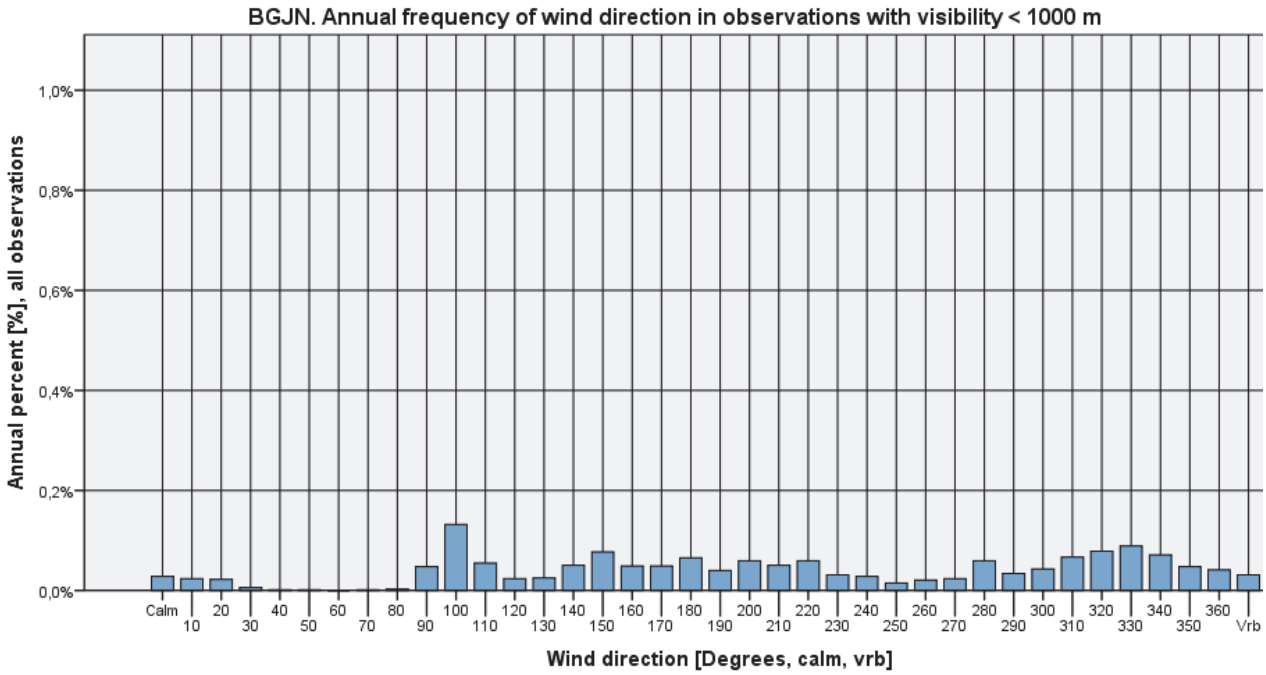

BGJN. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 79

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

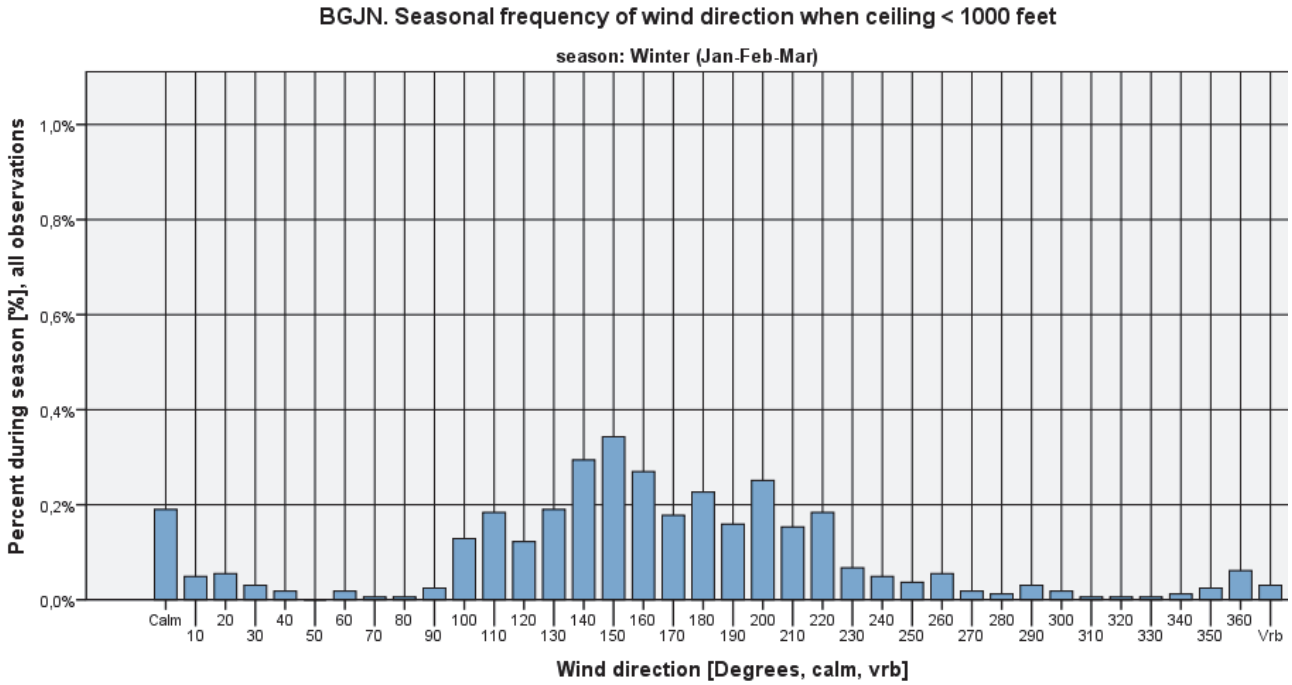


Figure 80

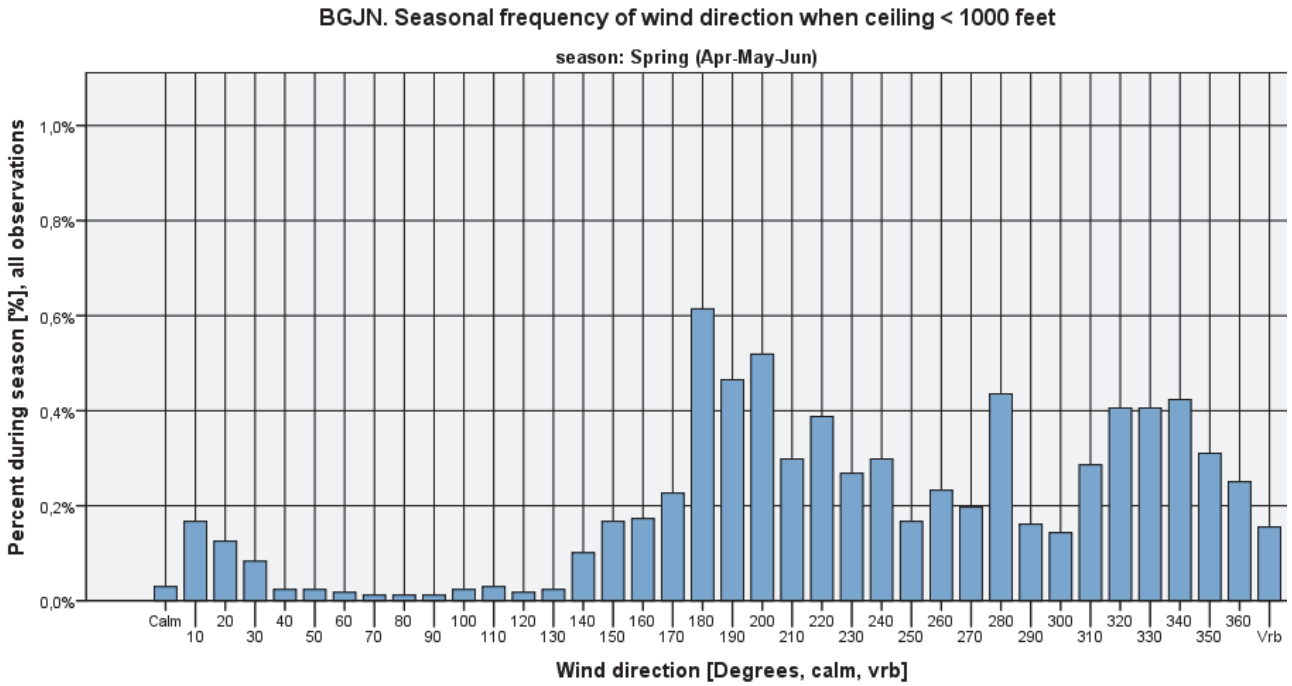


Figure 81

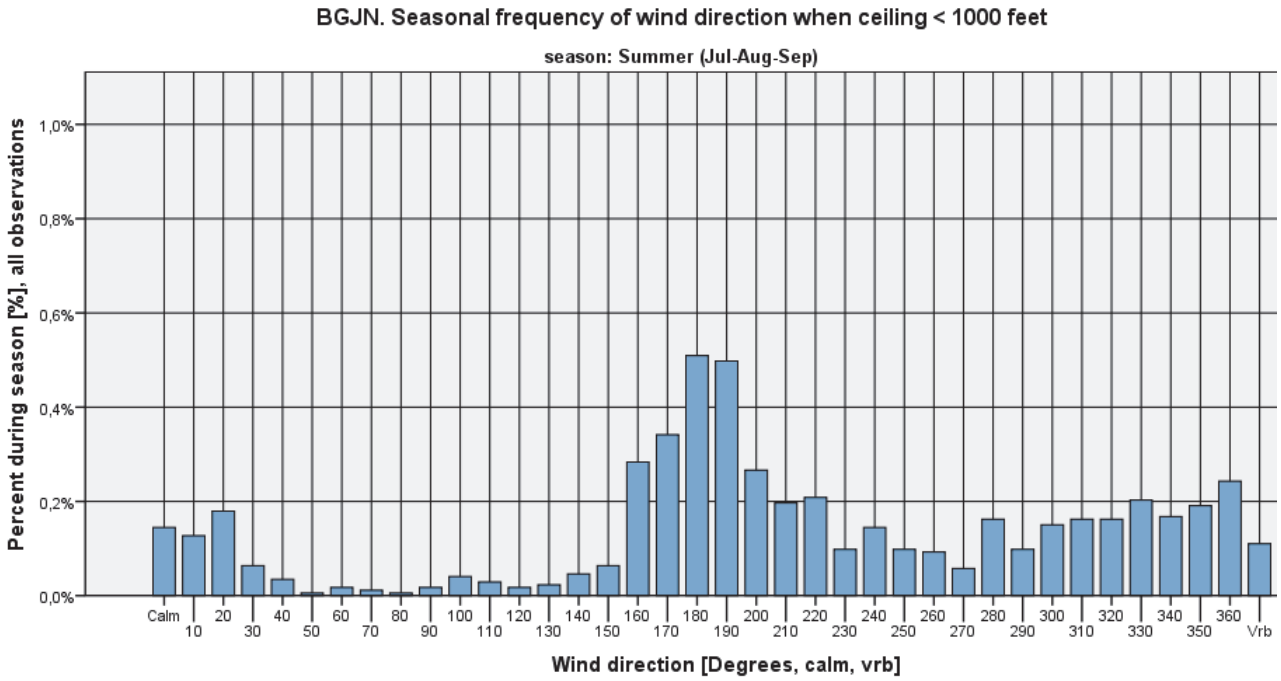


Figure 82

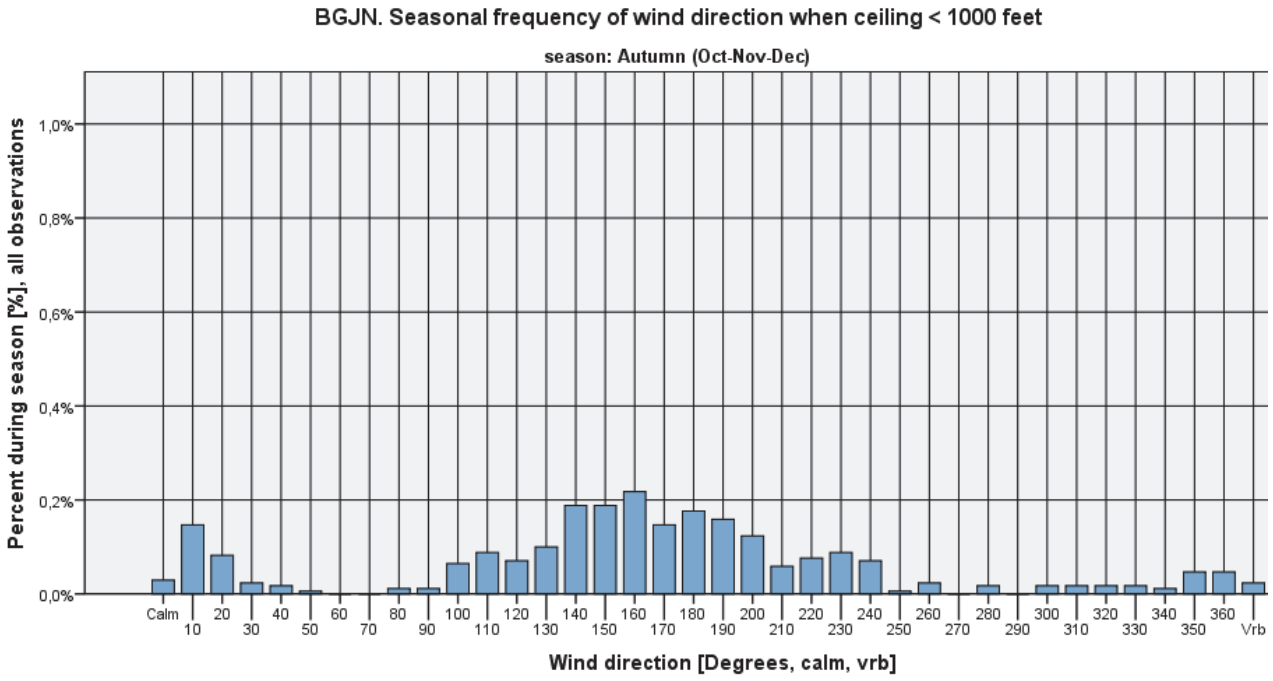


Figure 83

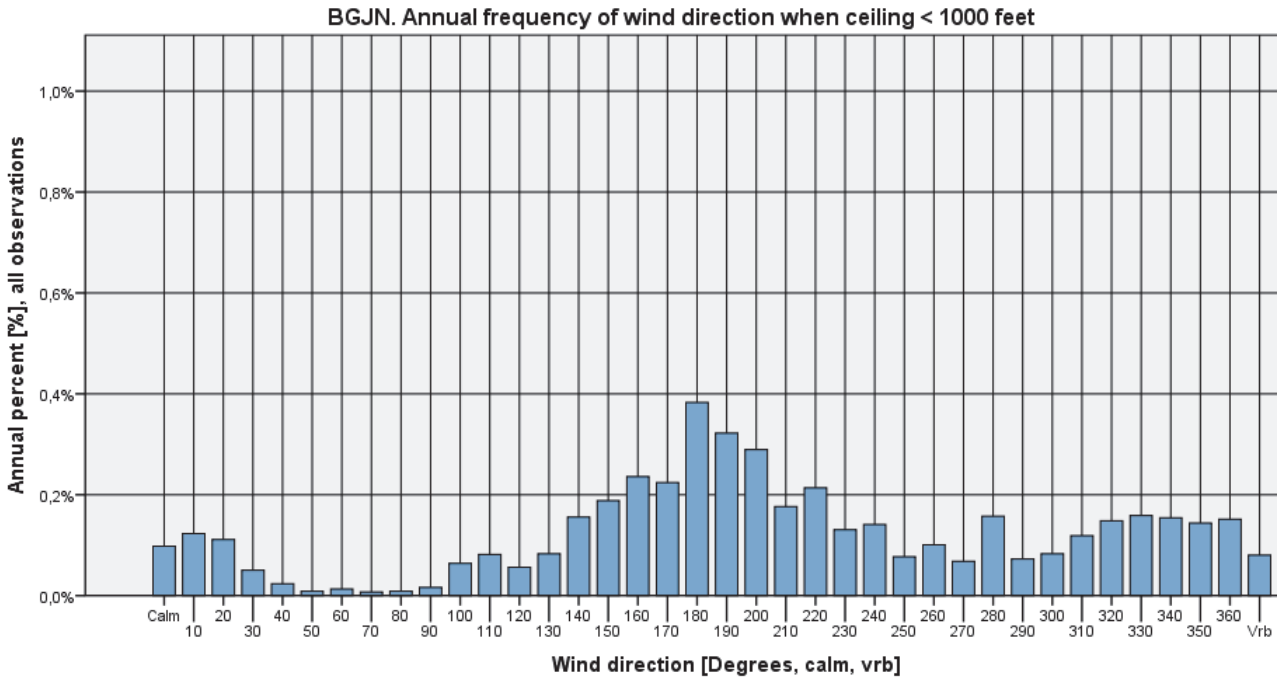

BGJN. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 84

Ceiling<500 feet

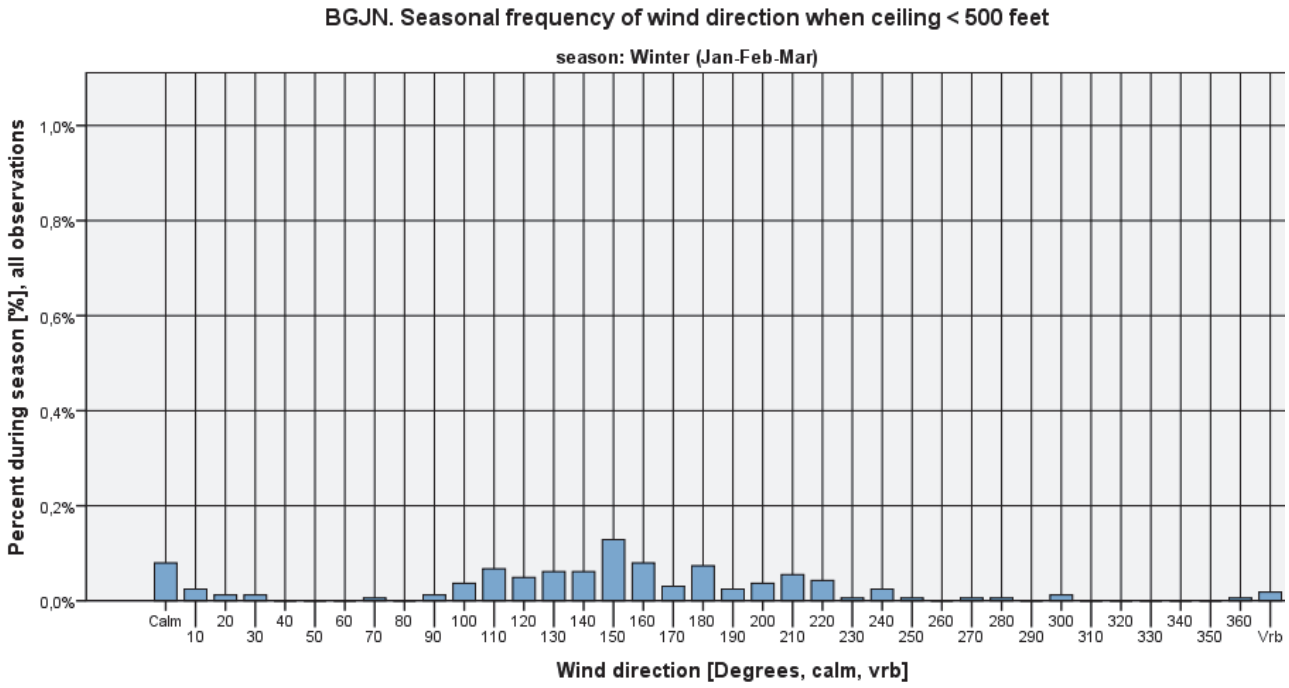


Figure 85

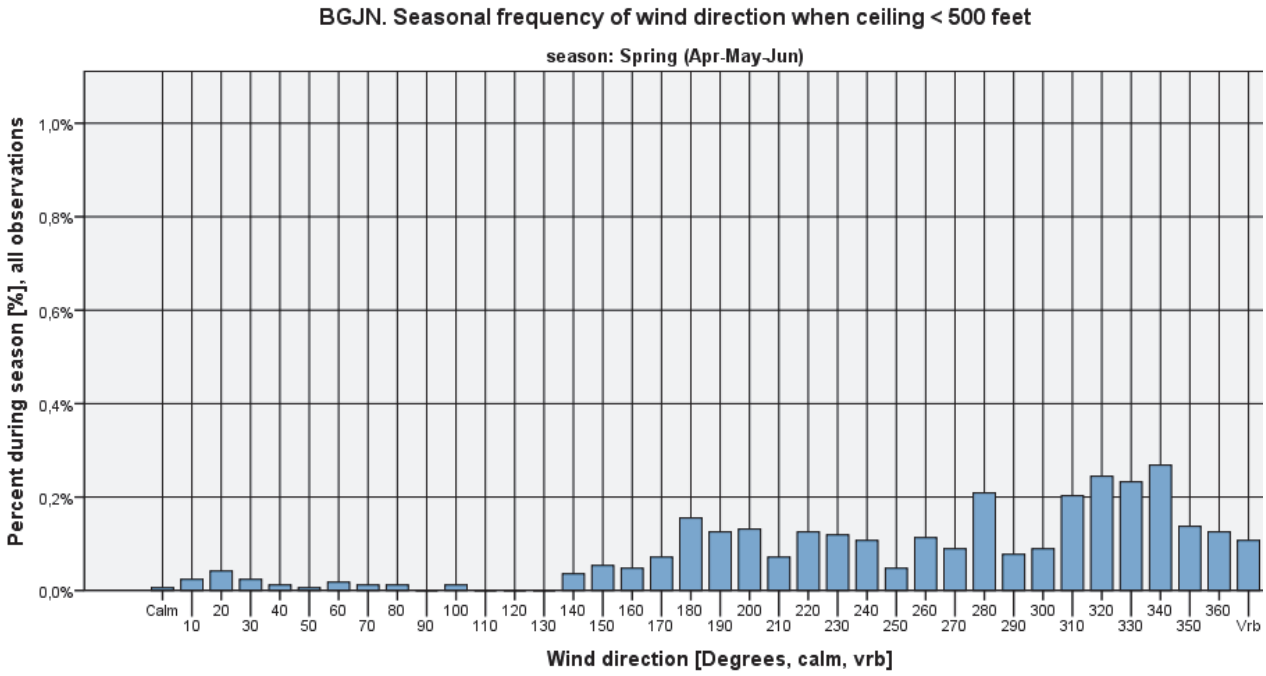


Figure 86

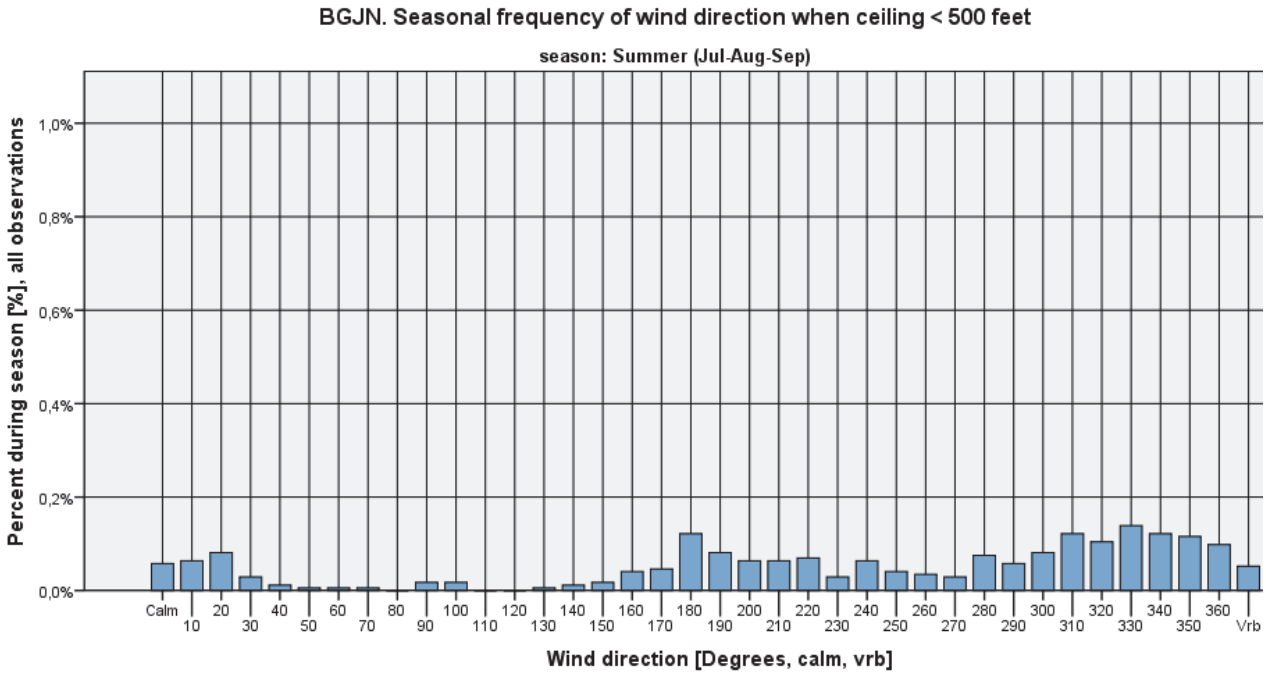


Figure 87

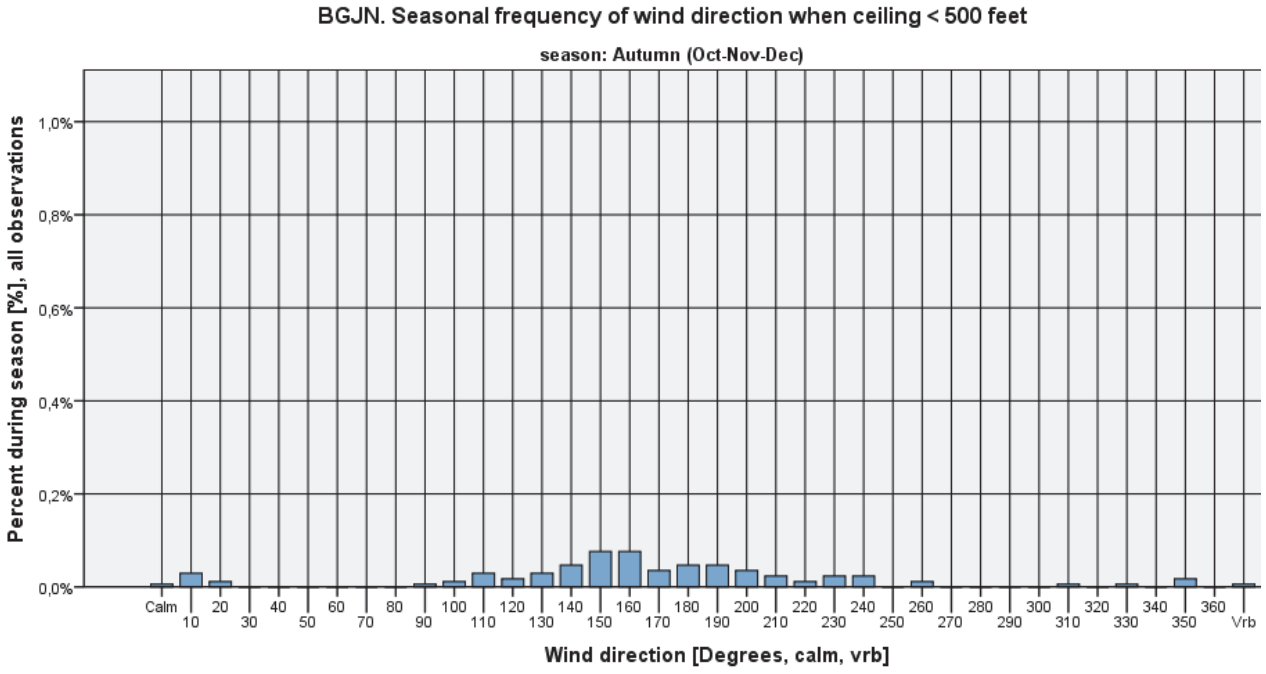


Figure 88

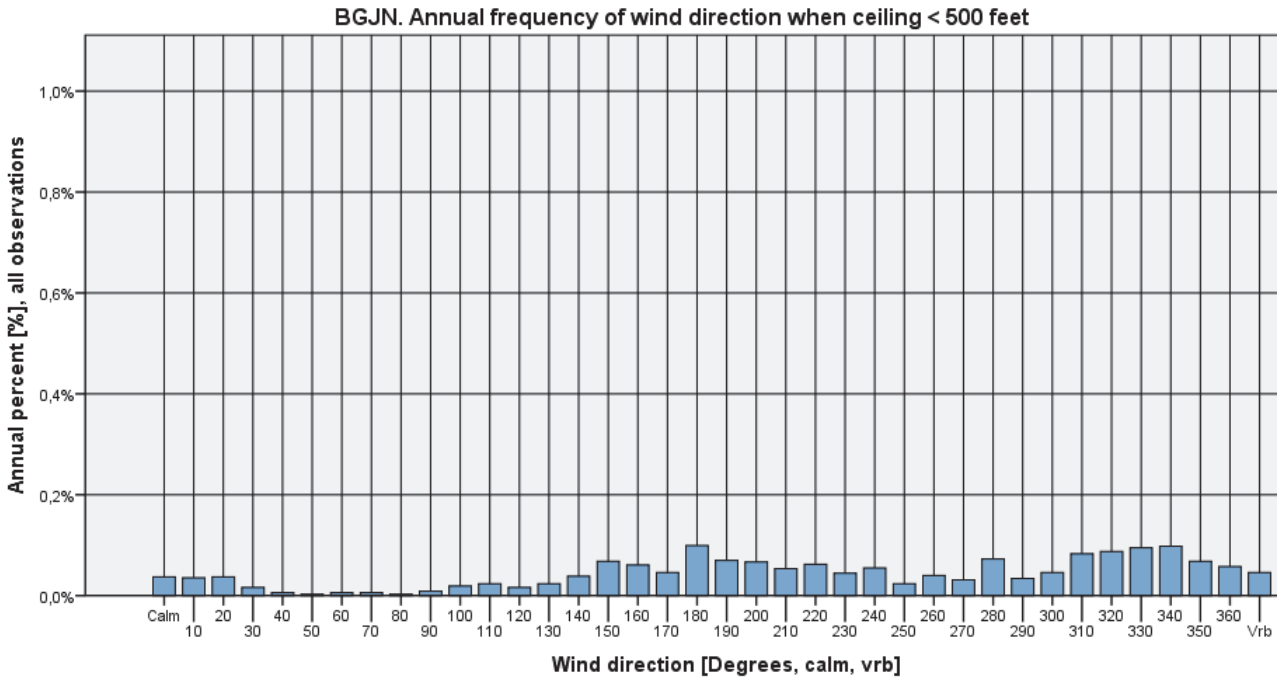
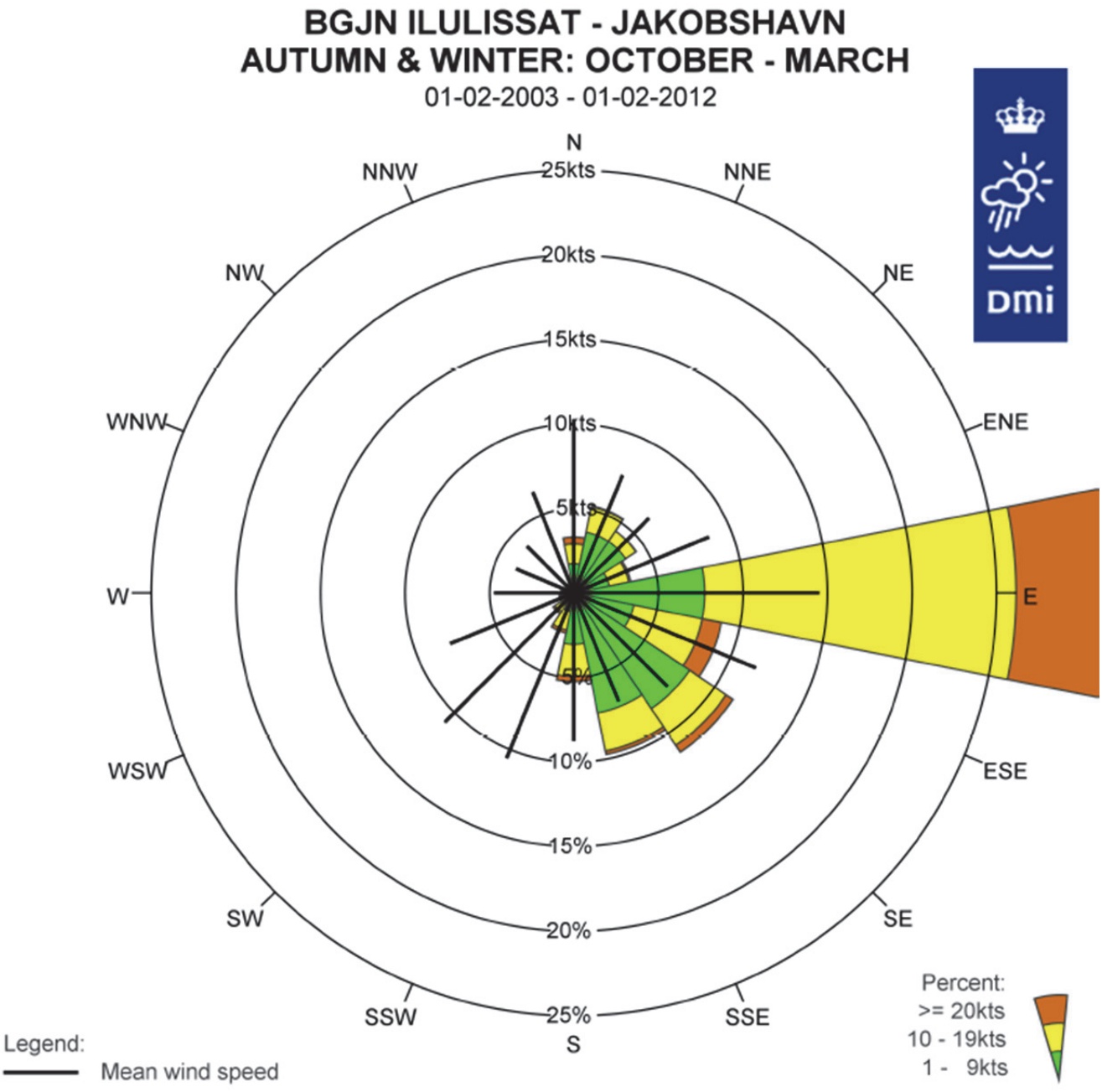

BGJN. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 89

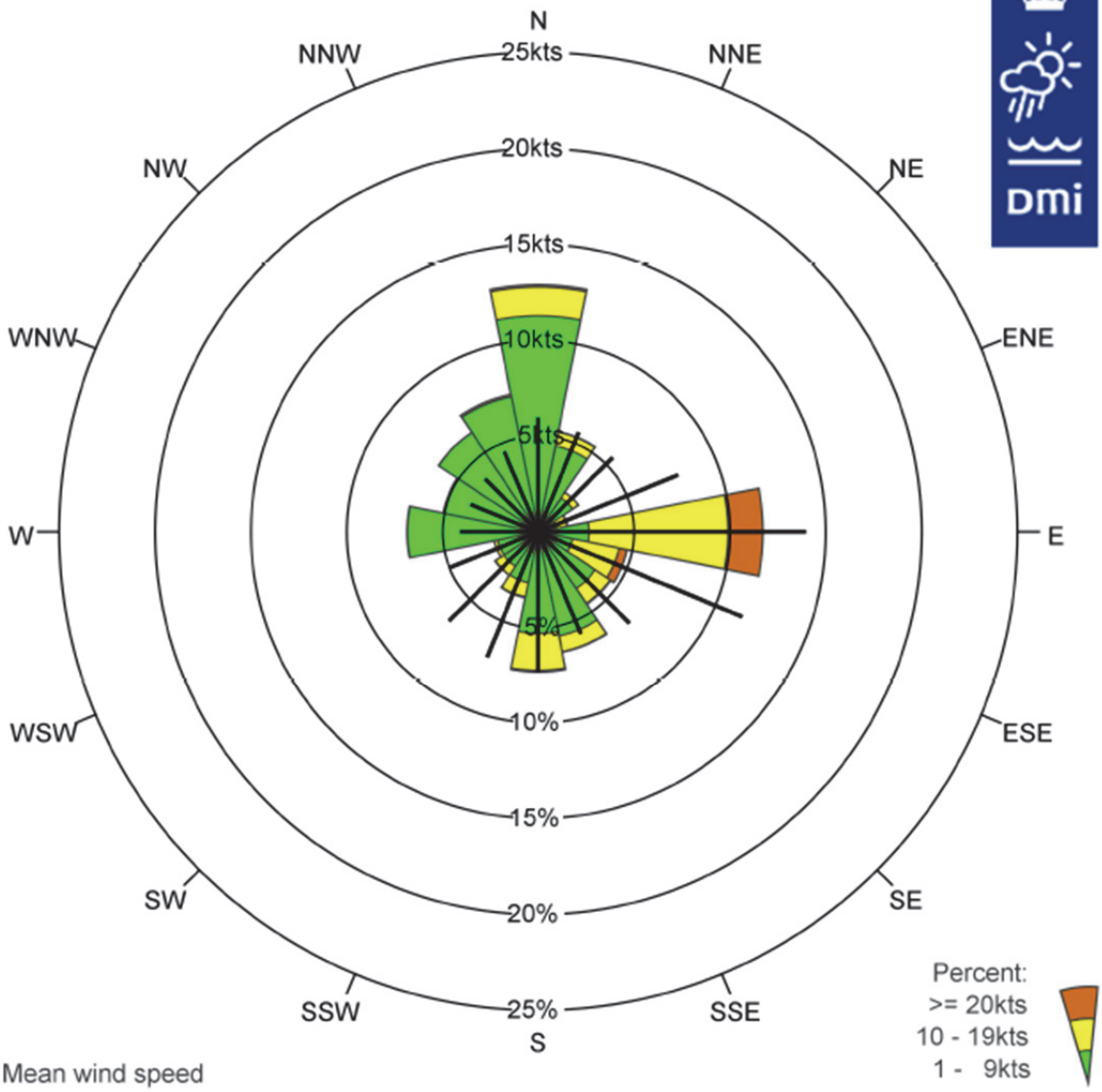
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	3.3	5.3	4.4	3.4	33.4	8.9	11.3	9.7	5.2	2.4	1.5	0.9	0.8	0.4	0.3	0.6	91.8
% 1 - 9kts	1.8	3.7	3.7	2.1	7.7	3.6	8.2	7.2	3.0	1.1	0.6	0.6	0.7	0.4	0.3	0.4	45.1
% 10 - 19kts	1.2	1.5	0.7	1.2	18.4	4.1	2.6	2.3	1.9	1.1	0.7	0.3	0.1	0.0	0.0	0.1	36.3
% >= 20kts	0.4	0.1	0.0	0.1	7.2	1.2	0.5	0.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	10.4
Mean wind speed	10.4	7.6	6.3	8.7	14.5	11.7	7.8	6.9	8.7	10.6	10.8	7.9	4.8	3.7	3.9	6.4	10.7
Max wind speed	33.0	25.0	24.0	30.0	46.0	37.0	40.0	34.0	36.0	30.0	29.0	28.0	17.0	14.0	12.0	21.0	46.0

Number of observations = 33313
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 2742=8.2%
Observations with calm/varying wind direction are not used in the statistics

BGJN ILULISSAT - JAKOBSHAVN
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	12.9	5.3	2.5	1.6	11.7	4.7	4.5	6.4	7.3	3.5	2.7	2.3	6.8	5.1	6.3	7.3	91.0
% 1 - 9kts	11.3	4.6	2.1	1.0	2.6	1.8	3.5	5.5	5.3	2.7	2.2	2.2	6.8	5.1	6.2	7.2	70.0
% 10 - 19kts	1.5	0.7	0.4	0.6	7.3	2.4	0.9	0.9	2.0	0.8	0.5	0.2	0.0	0.0	0.0	0.1	18.3
% >= 20kts	0.1	0.0	0.0	0.0	1.8	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Mean wind speed	6.0	5.6	5.5	7.9	13.9	11.5	6.8	5.7	7.4	7.1	6.6	5.0	4.1	3.8	3.9	4.5	6.9
Max wind speed	24.0	24.0	18.0	22.0	39.0	38.0	29.0	24.0	28.0	25.0	26.0	19.0	19.0	10.0	17.0	17.0	39.0

Number of observations = 34033
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 3055=9.0%
Observations with calm/varying wind direction are not used in the statistics

Availability

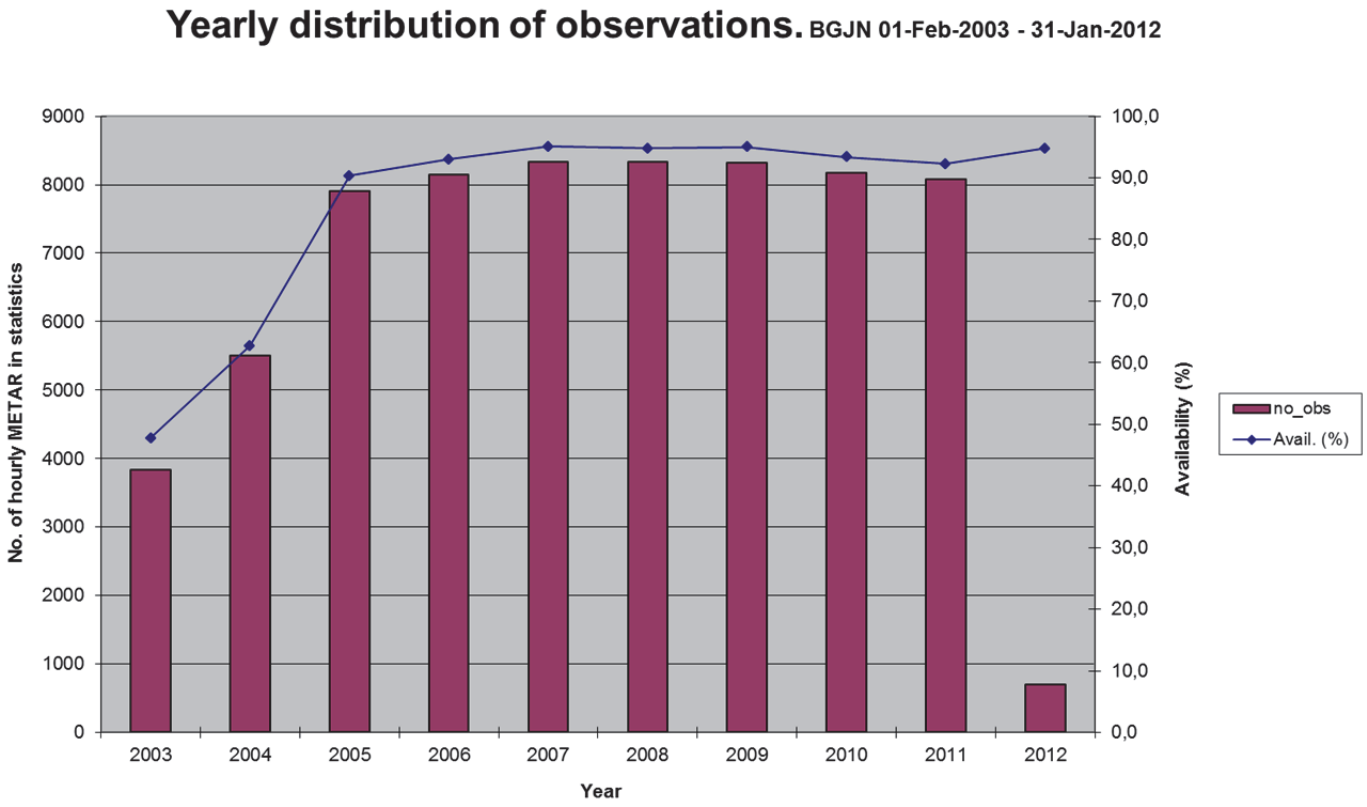


Figure 90

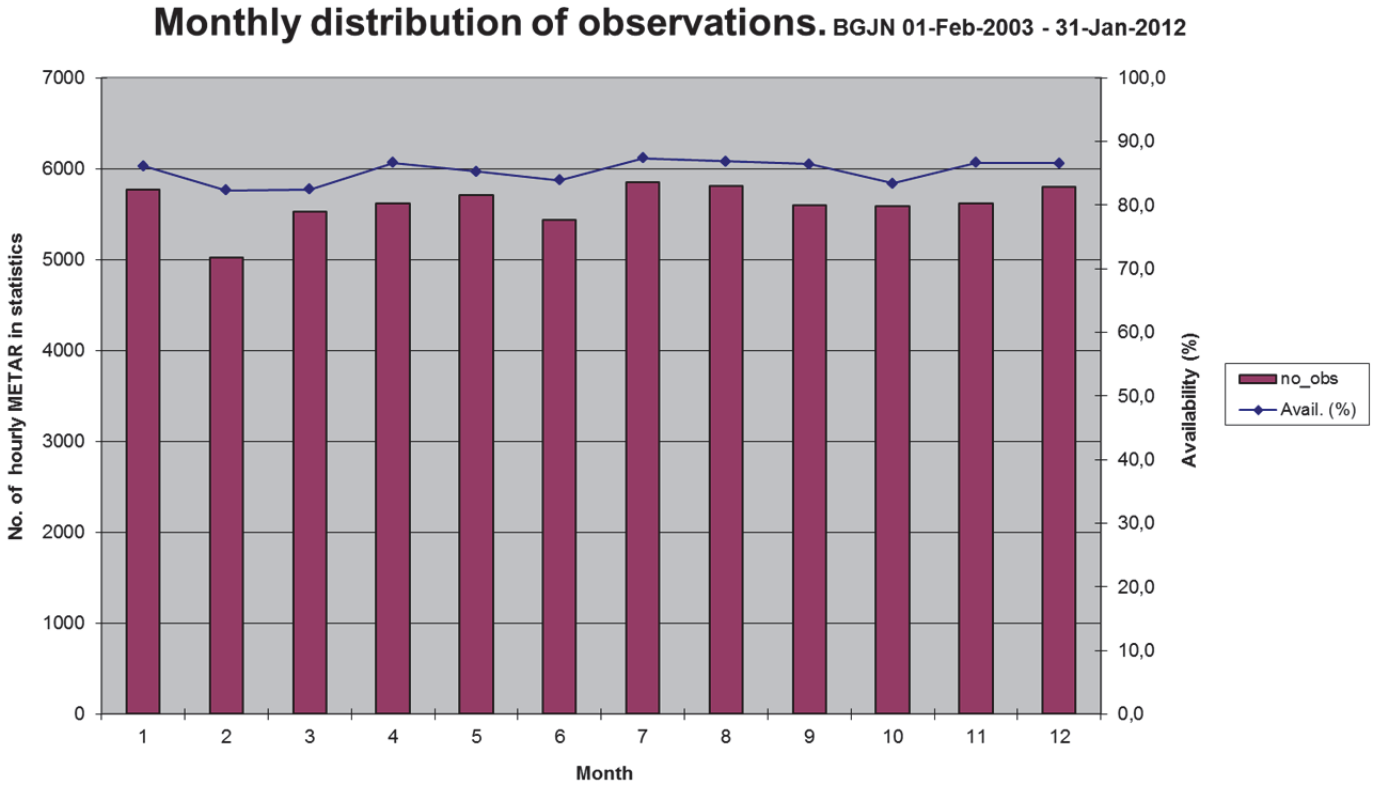


Figure 91

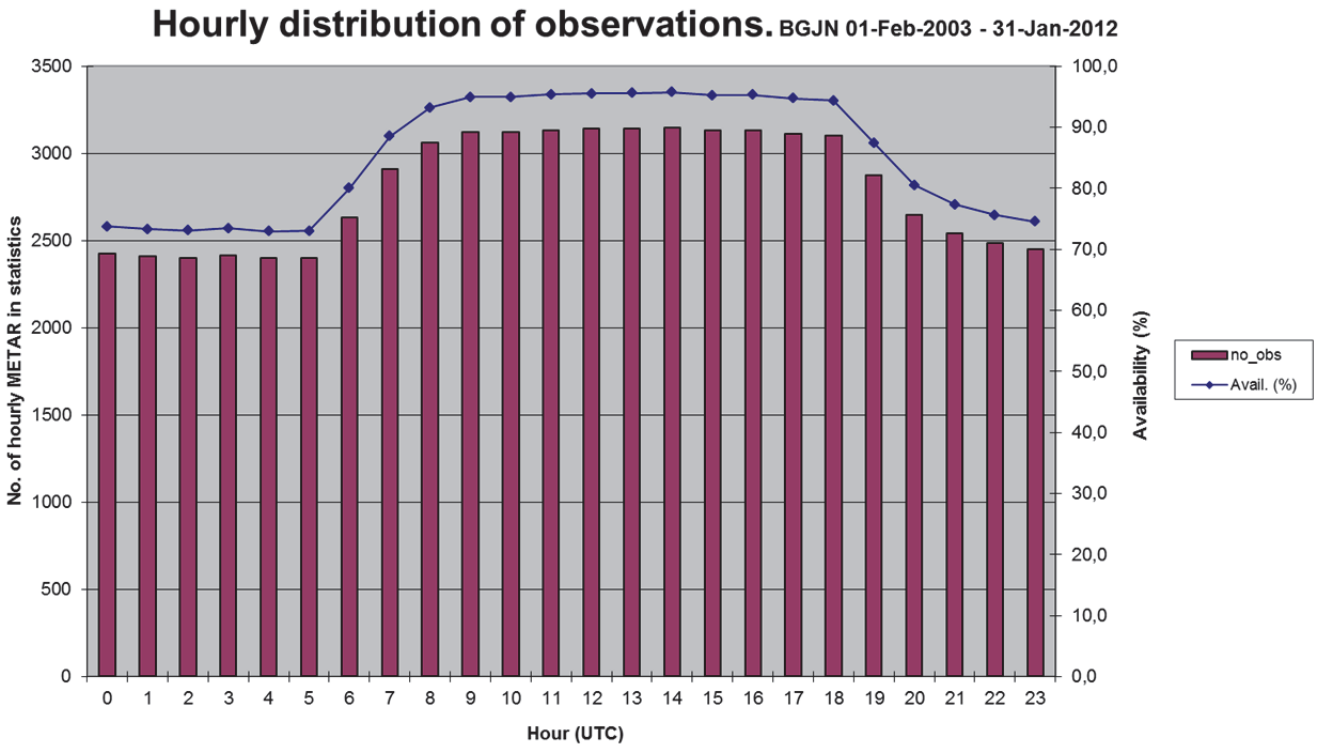


Figure 92

BGJN. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	,0	,3	,9	,9	,9	,9	,9	,9	,9	,9
	1	,0	,3	,8	,9	,9	,9	,9	,9	,9	1,0
	2	,0	,3	,9	,9	,9	,9	,9	,9	,9	,9
	3	,0	,3	,8	,9	,9	,9	,9	,9	,9	,9
	4	,0	,3	,8	,9	,9	,9	,9	,9	,9	1,0
	5	,0	,3	,8	,9	,9	,9	,9	,9	,9	,9
	6	,4	,6	,8	,9	,9	,9	,9	,9	,9	,9
	7	,8	,8	,9	,9	,9	,9	,9	,9	,9	,9
	8	,8	,9	,9	1,0	1,0	1,0	1,0	,9	,9	,9
	9	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	,9
	10	,8	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	,9
	11	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	12	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	13	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	14	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	15	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	16	,9	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	17	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	18	,8	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0	1,0
	19	,5	,7	,9	,9	1,0	1,0	1,0	1,0	1,0	1,0
	20	,2	,5	,9	,9	,9	1,0	,9	,9	,9	1,0
	21	,1	,4	,9	,9	,9	,9	,9	,9	,9	,9
	22	,1	,3	,9	,9	,9	,9	,9	,9	,9	,9
	23	,0	,3	,9	,9	,9	,9	,9	,9	,9	,9

Table 25

BGSS Sisimiut/Holsteinsborg

Mittarfik Sisimiut

Location: 66,950°N 53,717°W H: 29 m above msl

BGSS observations in statistics: 59.482 hourly METAR[5] covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall availability of 75,4%.

Please note the low availability and take care accordingly when using the current BGSS weather statistics since the low availability, besides the usual lack of manned night-time observations and lower observations frequency on Sundays, is resulting from exclusion of an unusual large number of erroneous or missing automated measurements of visibility and/or cloud cover, indicating what might be a data quality that overall is lower than usual. Other details are found in the Availability Section.

The BGSS METAR are all manual until 30 January 2004, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGSS - Frequencies (%) Visibility - Ceiling

No. Obs = 14.070	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,014	0,37	0,68	0,77	0,20	0,97
<1 km	0	0,014	0,43	0,90	1,04	0,28	1,32
<1.5 km	0	0,014	0,50	1,39	1,86	0,72	2,57
<3.0 km	0	0,014	0,58	2,16	3,44	3,32	6,76
< 5.0 km	0	0,014	0,61	2,44	4,43	6,77	11,19
>= 5,0 km or CAVOK	0	0	0,043	0,60	2,24	86,57	88,81
Total	0	0,014	0,65	3,04	6,67	93,33	100

Table 26

Spring (Apr-May-Jun): BGSS - Frequencies (%) Visibility - Ceiling

No. Obs = 14.131	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,014	0,13	0,46	0,54	0,54	0,05	0,59
<1 km	0,014	0,17	0,71	0,82	0,83	0,07	0,90
<1.5 km	0,014	0,19	0,92	1,20	1,32	0,11	1,43
<3.0 km	0,014	0,20	1,64	2,50	3,16	0,83	3,98
< 5.0 km	0,014	0,20	2,29	3,64	4,67	2,14	6,81
>= 5,0 km or CAVOK	0	0,014	1,819	7,51	11,96	81,23	93,19
Total	0,014	0,21	4,10	11,15	16,63	83,37	100

Table 27

[5] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGSS - Frequencies (%) Visibility - Ceiling

No. Obs = 16.175	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,012	0,15	0,63	0,64	0,64	0,04	0,68
<1 km	0,012	0,19	0,94	0,95	0,95	0,13	1,08
<1.5 km	0,012	0,20	1,27	1,30	1,31	0,21	1,52
<3.0 km	0,012	0,27	2,10	2,36	2,42	0,62	3,04
< 5.0 km	0,012	0,28	2,72	3,50	3,70	0,96	4,67
>= 5,0 km or CAVOK	0	0,031	2,32	8,58	13,43	81,90	95,33
Total	0,012	0,31	5,04	12,08	17,13	82,87	100

Table 28

Autumn (Oct-Nov-Dec): BGSS - Frequencies (%) Visibility - Ceiling

No. Obs = 15.106	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0	0,026	0,34	0,59	0,61	0,03	0,64
<1 km	0	0,026	0,45	0,95	1,01	0,07	1,09
<1.5 km	0	0,026	0,57	1,59	1,88	0,32	2,20
<3.0 km	0	0,026	0,68	2,61	3,83	2,20	6,03
< 5.0 km	0	0,026	0,71	3,26	5,31	4,84	10,15
>= 5,0 km or CAVOK	0	0	0,040	1,21	2,89	86,96	89,85
Total	0	0,026	0,75	4,48	8,20	91,80	100

Table 29

Annual: BGSS - Frequencies (%) Visibility - Ceiling

No. Obs = 59.482	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,0067	0,08	0,45	0,61	0,64	0,08	0,71
<1 km	0,0067	0,10	0,64	0,91	0,96	0,14	1,10
<1.5 km	0,0067	0,11	0,83	1,37	1,59	0,34	1,92
<3.0 km	0,0067	0,13	1,27	2,41	3,19	1,71	4,90
< 5.0 km	0,0067	0,13	1,61	3,22	4,51	3,60	8,11
>= 5,0 km or CAVOK	0	0,012	1,08	4,57	7,76	84,13	91,89
Total	0,0067	0,14	2,69	7,79	12,27	87,73	100

Table 30

Wind direction histograms

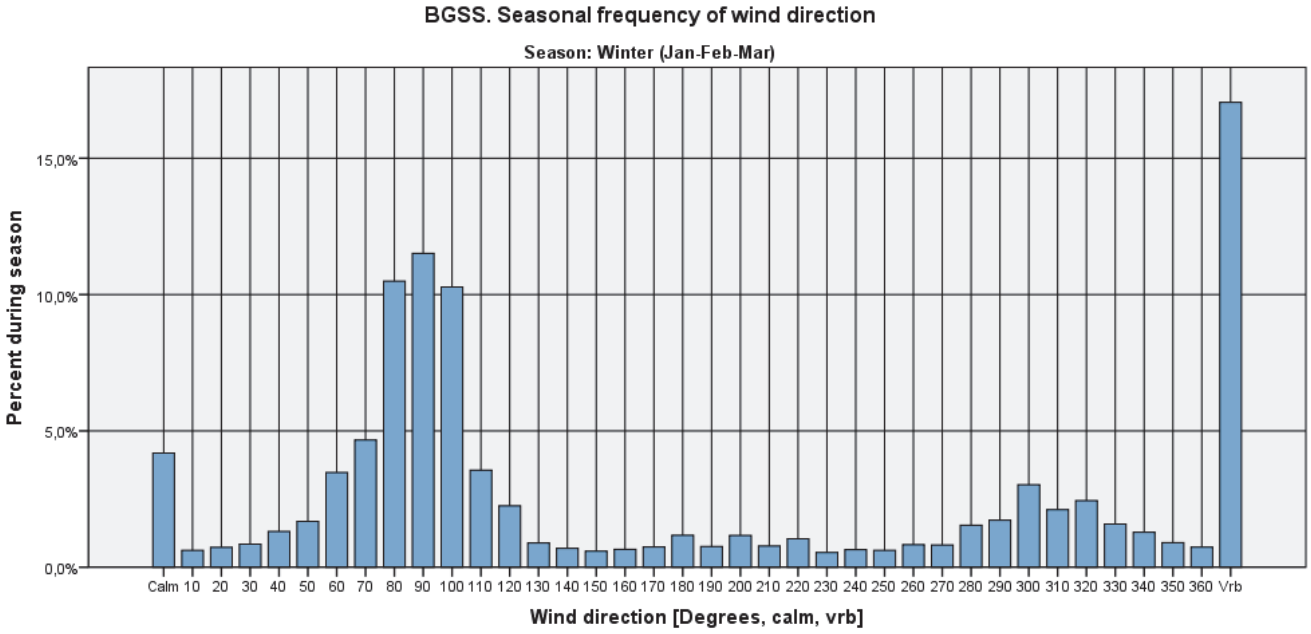


Figure 93

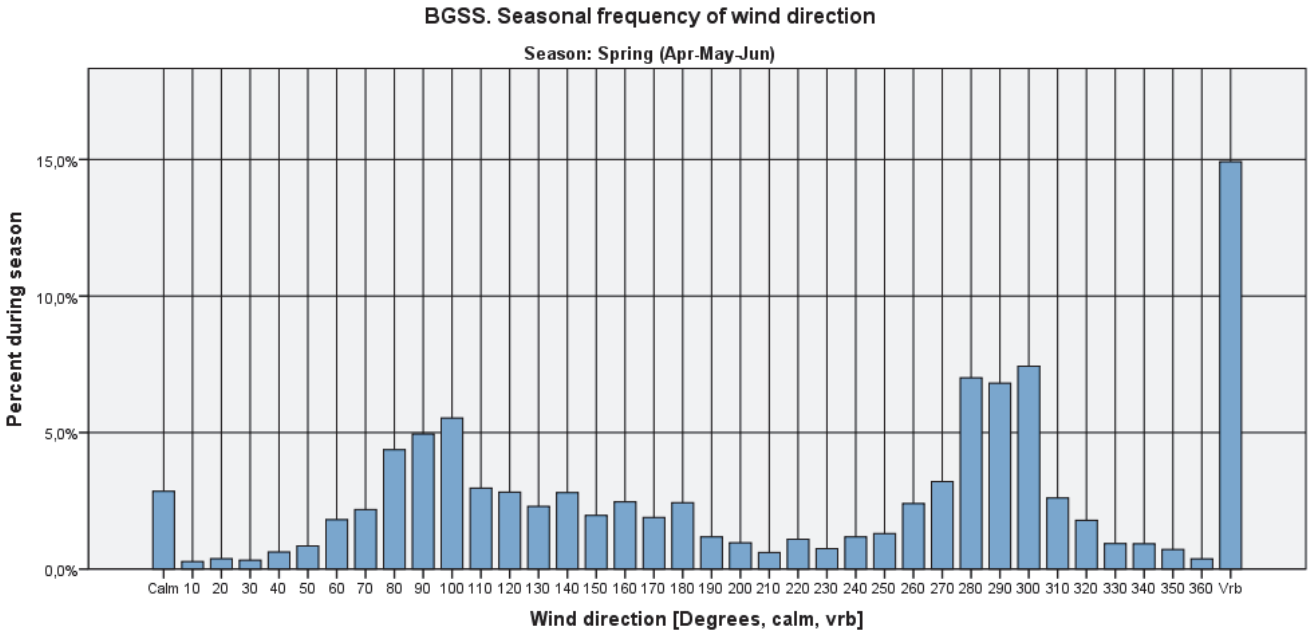


Figure 94

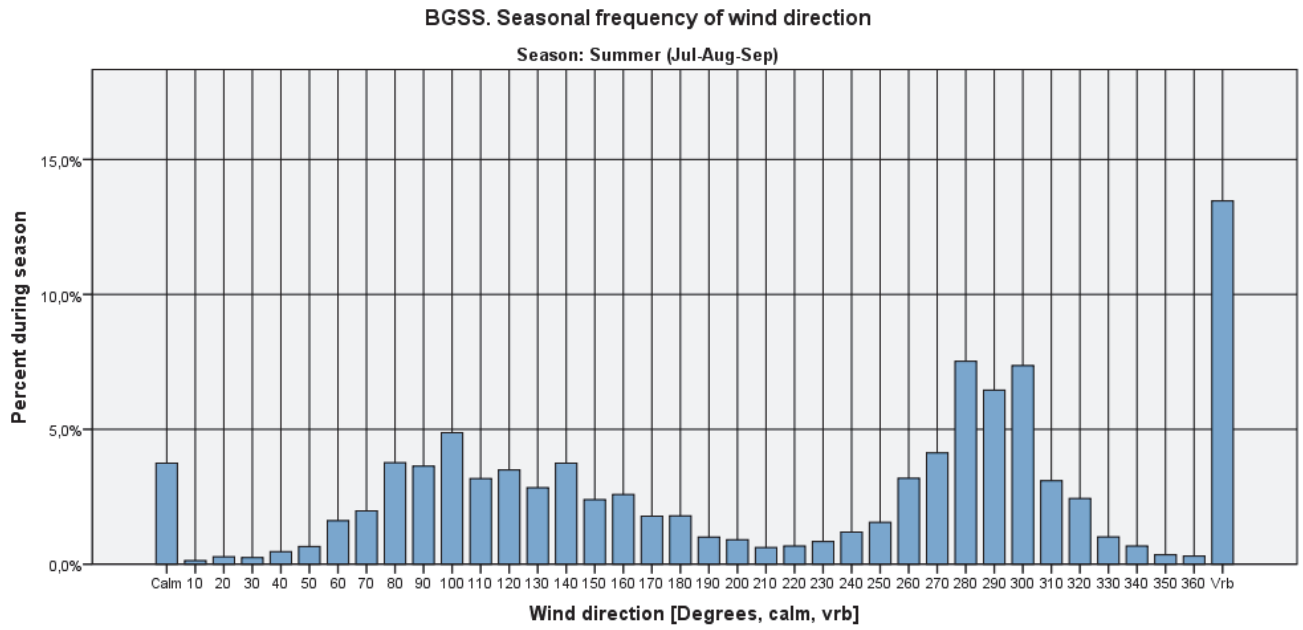


Figure 95

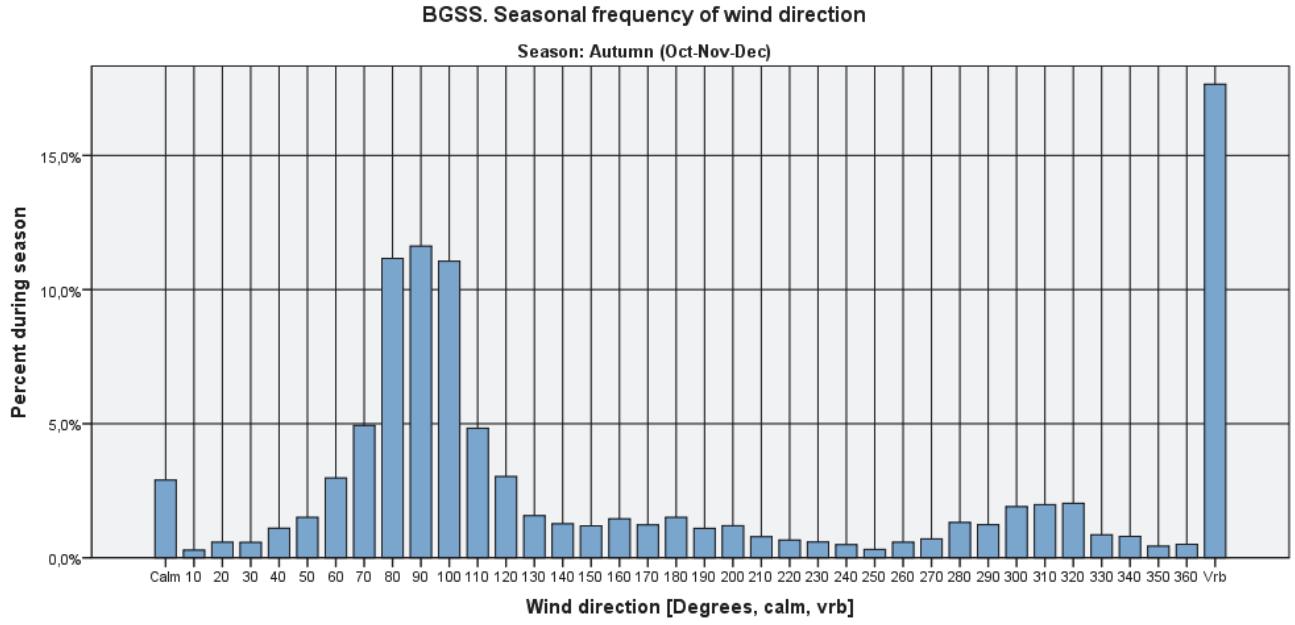


Figure 96

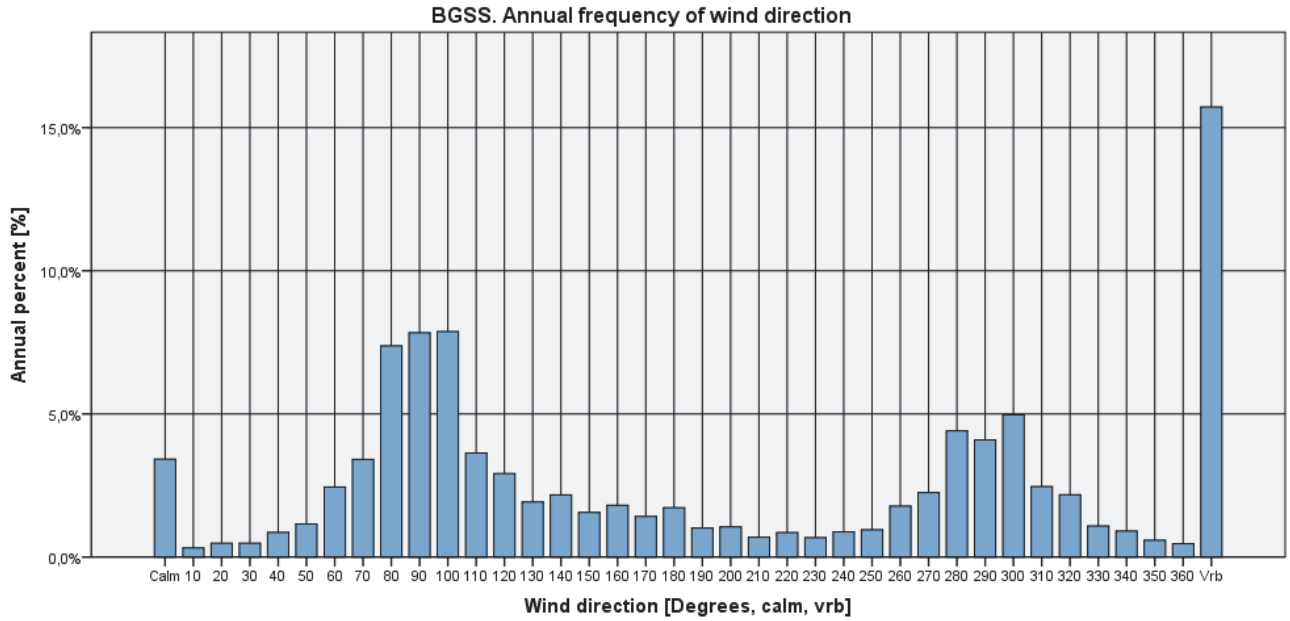

BGSS. Annual frequency of wind direction
Annual percent [%]
15,0%
10,0%
5,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 97

Visibility criteria on wind direction histograms

Visibility<1000 m

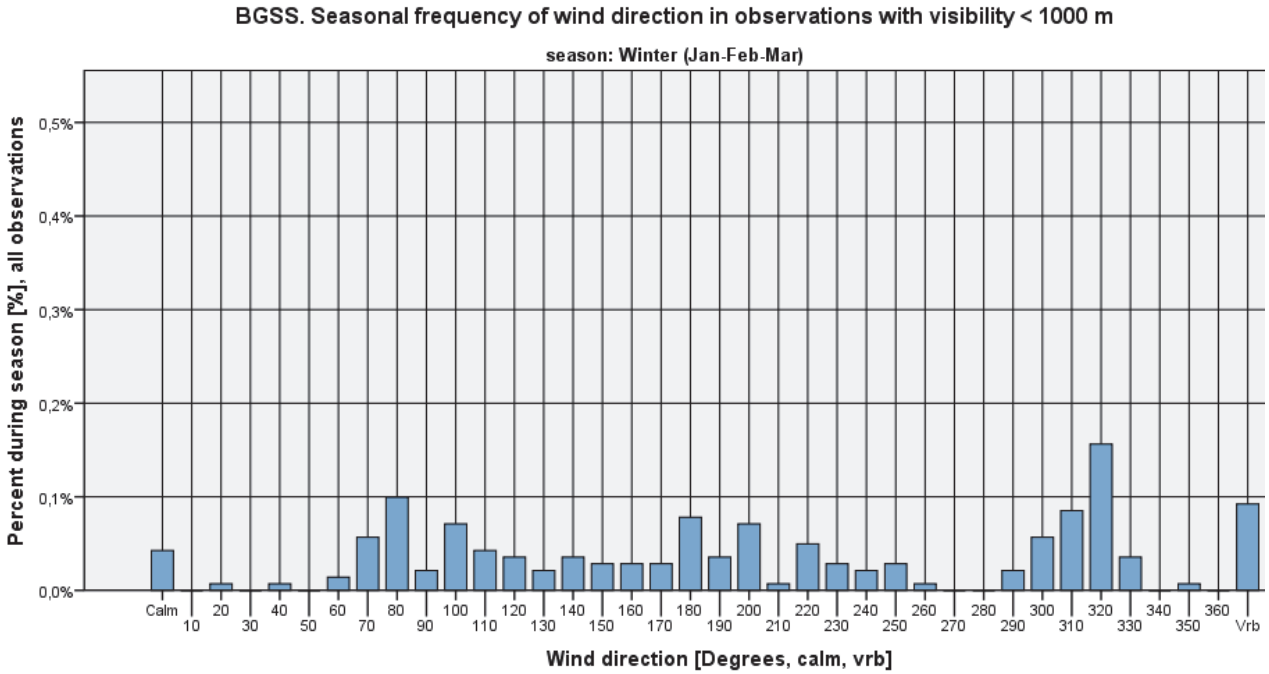


Figure 98

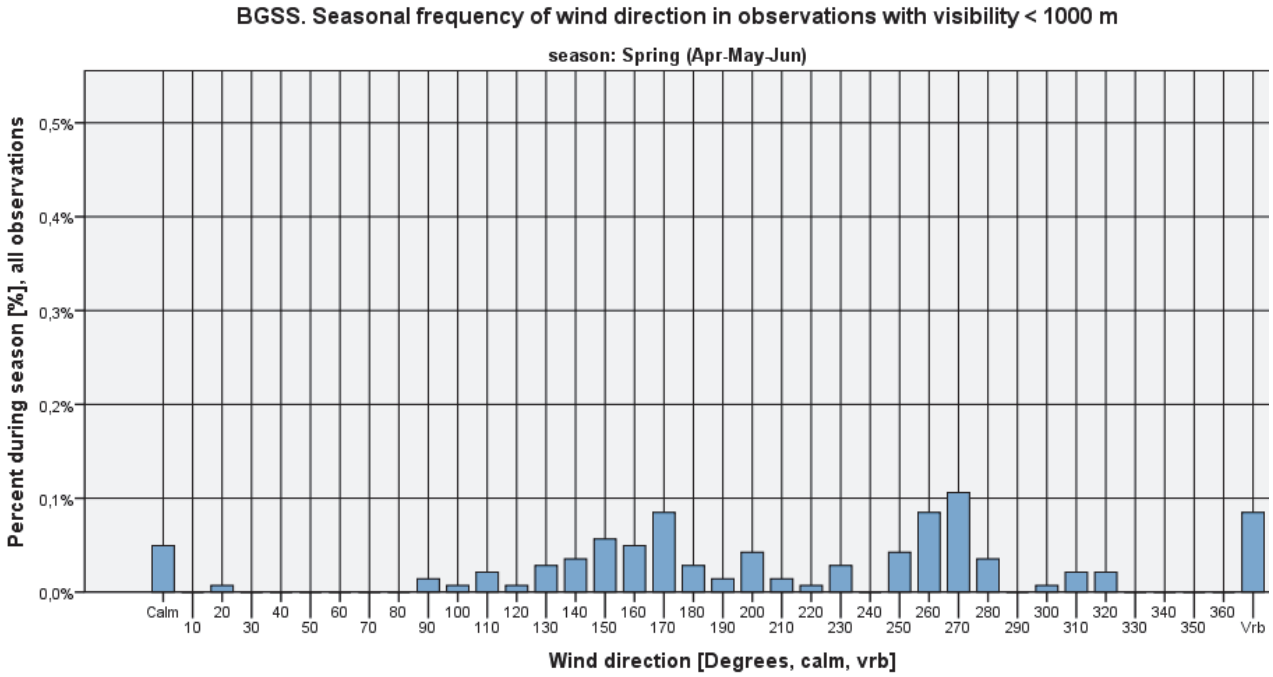


Figure 99

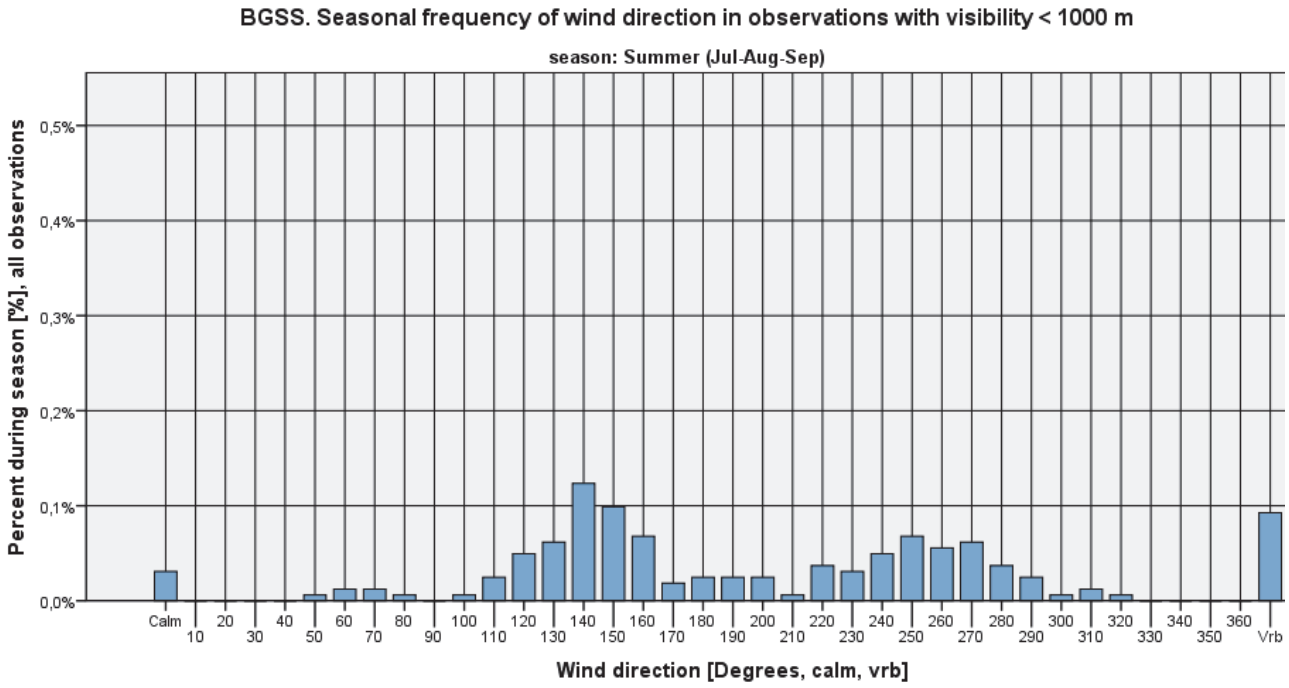


Figure 100

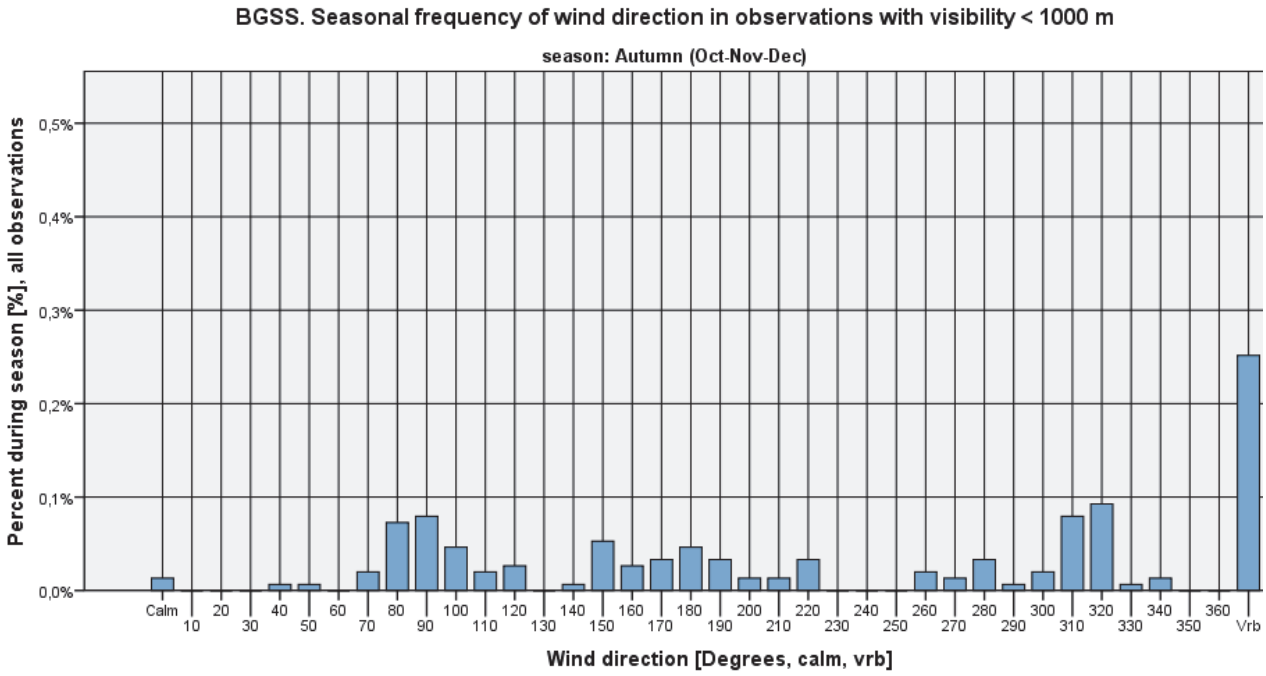


Figure 101

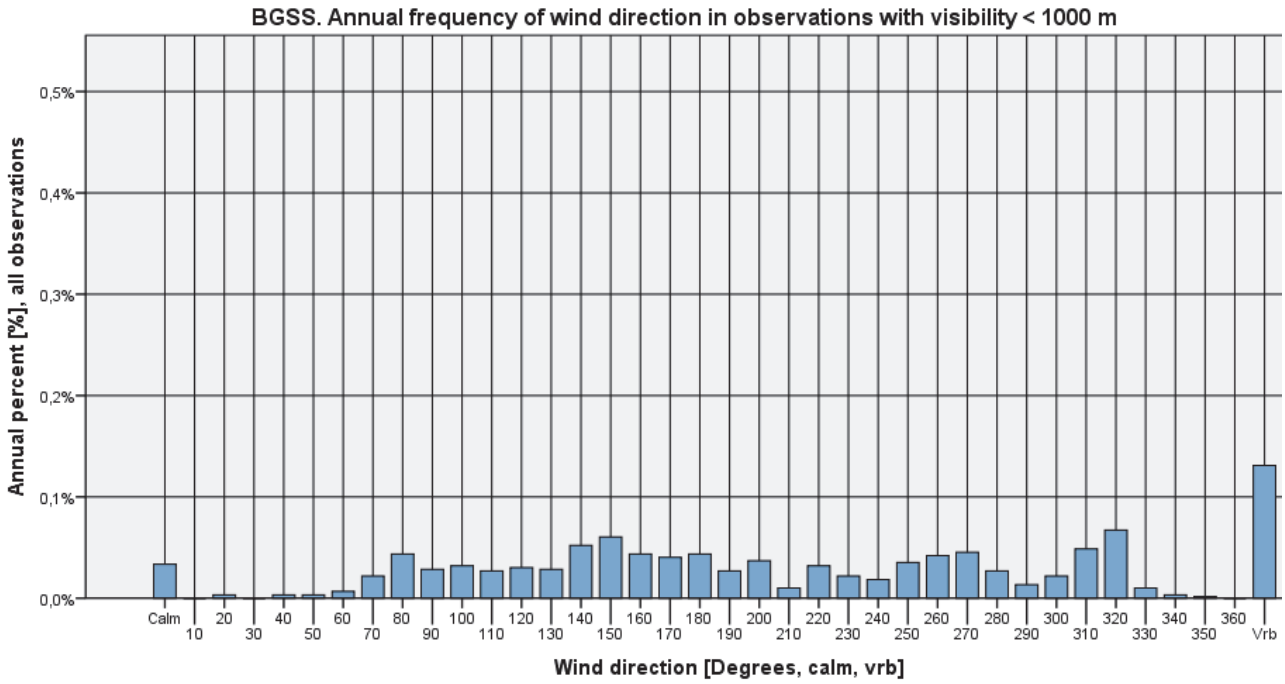

BGSS. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
0,5%
0,4%
0,3%
0,2%
0,1%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 102

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

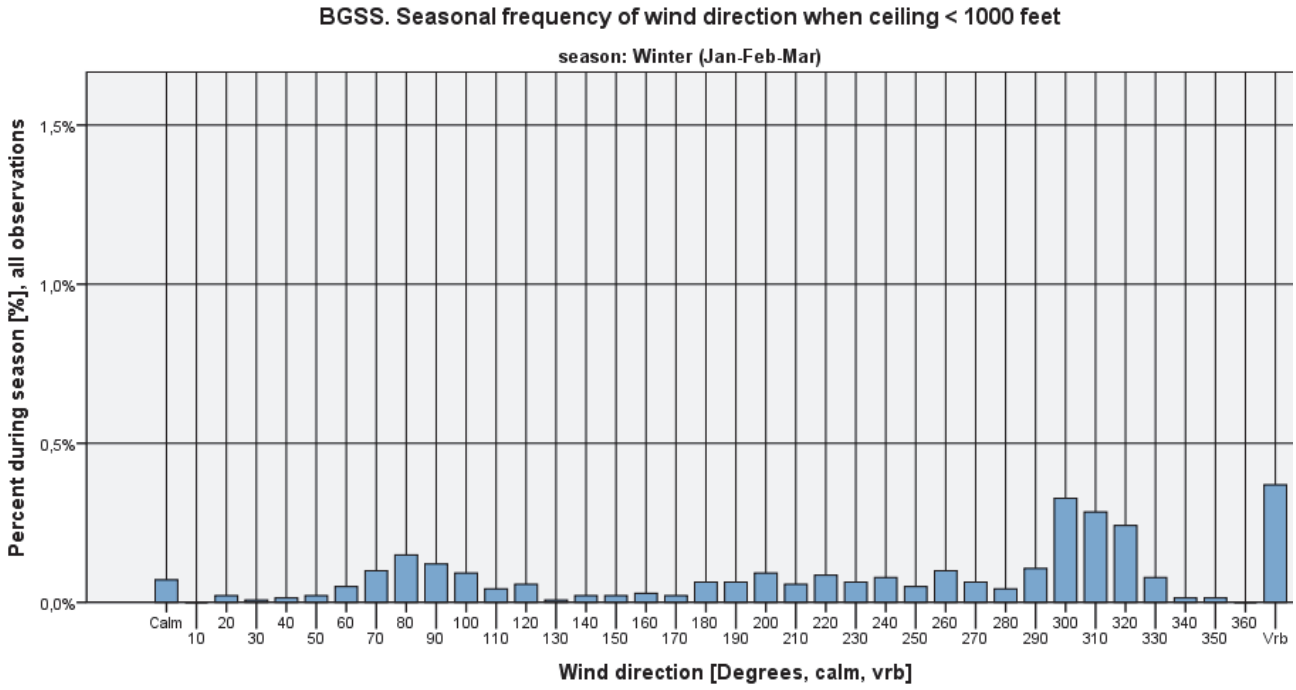


Figure 103

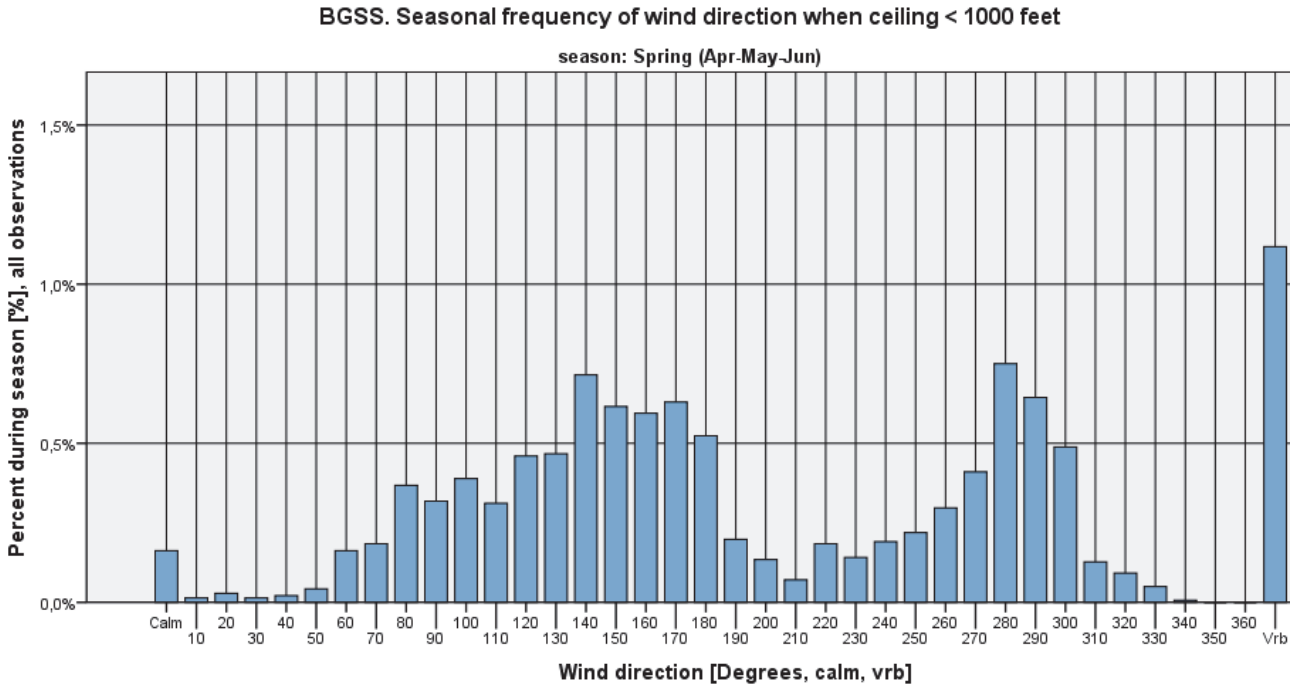


Figure 104

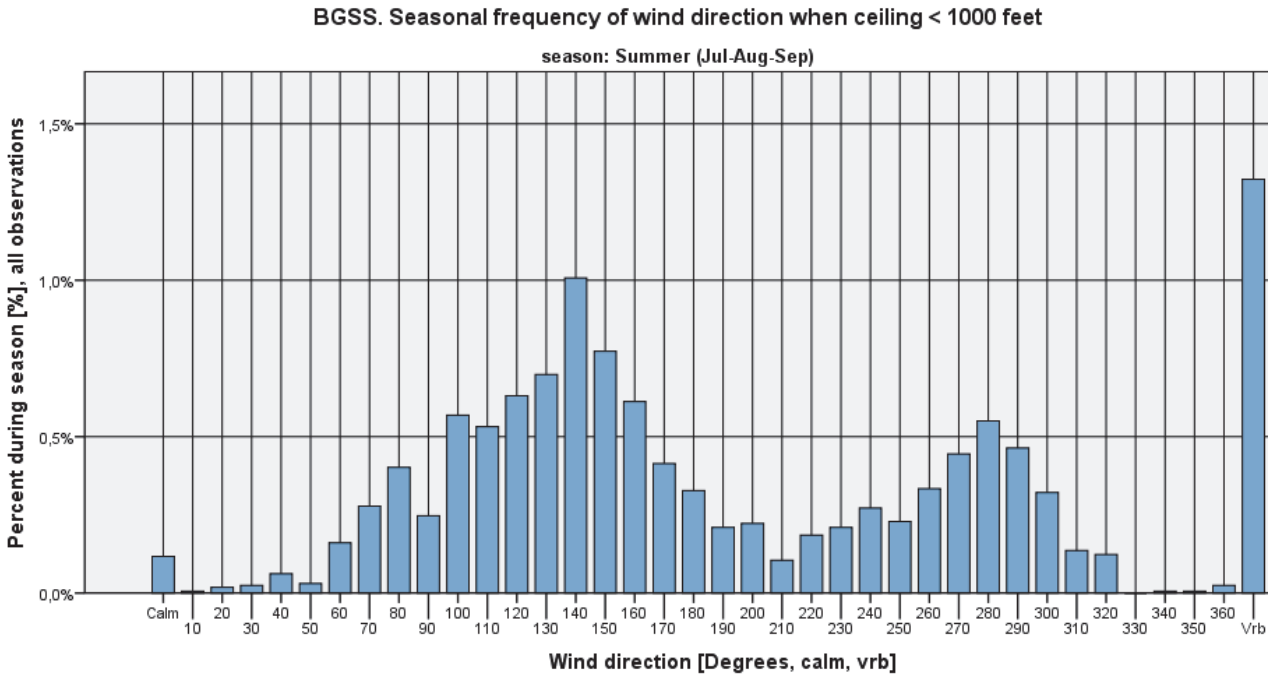


Figure 105

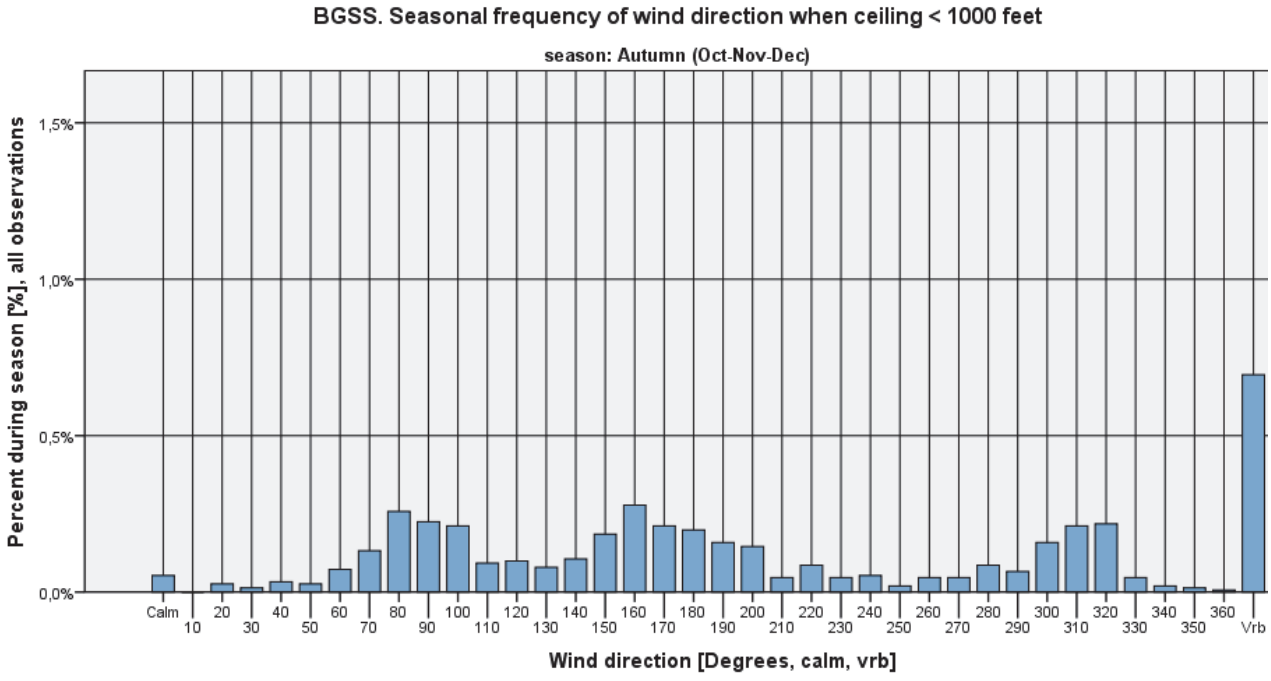


Figure 106

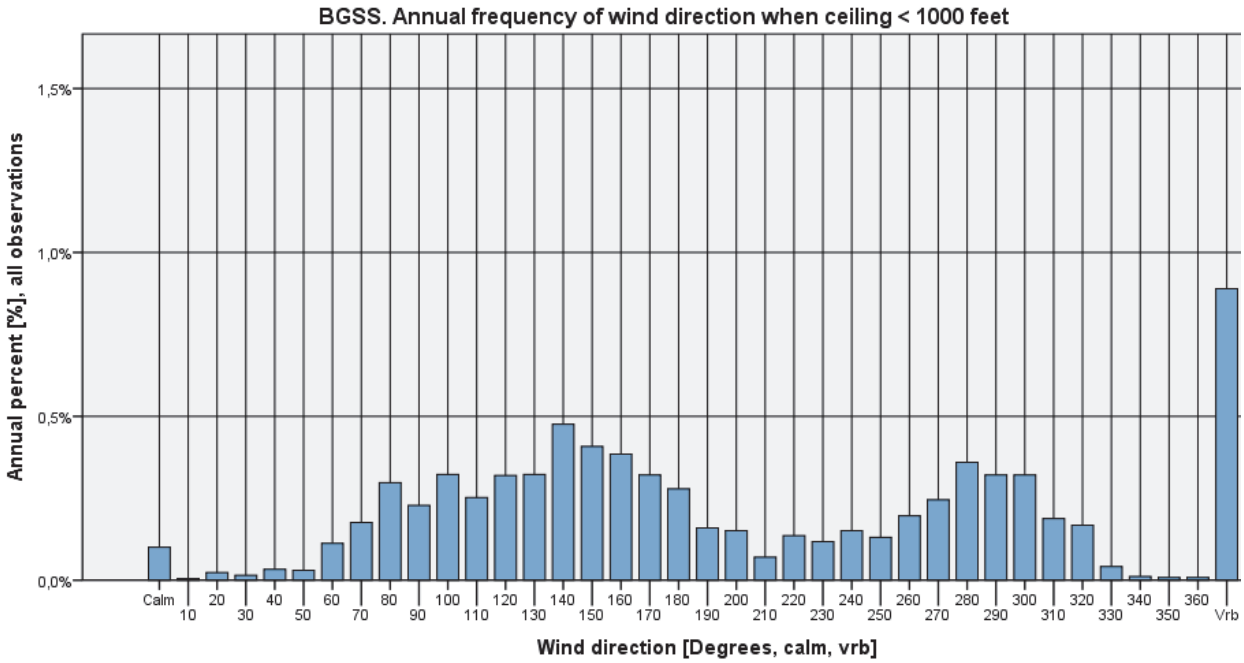

BGSS. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
1,5%
1,0%
0,5%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 107

Ceiling<500 feet

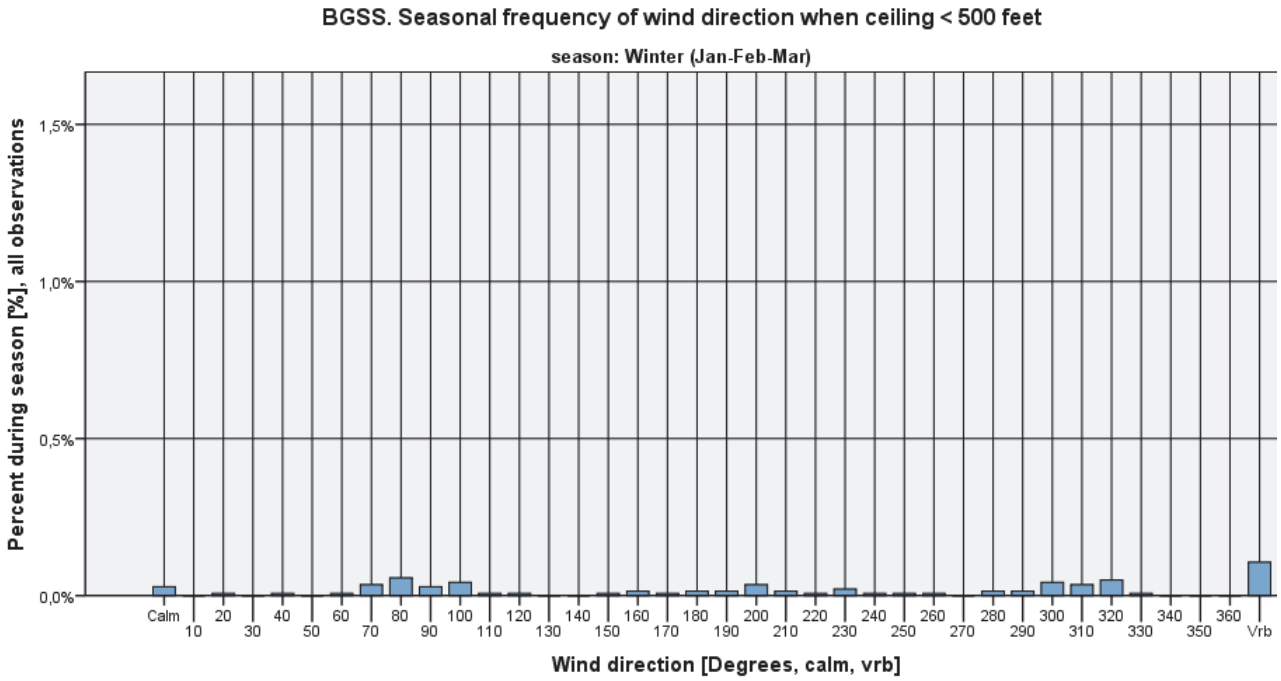


Figure 108

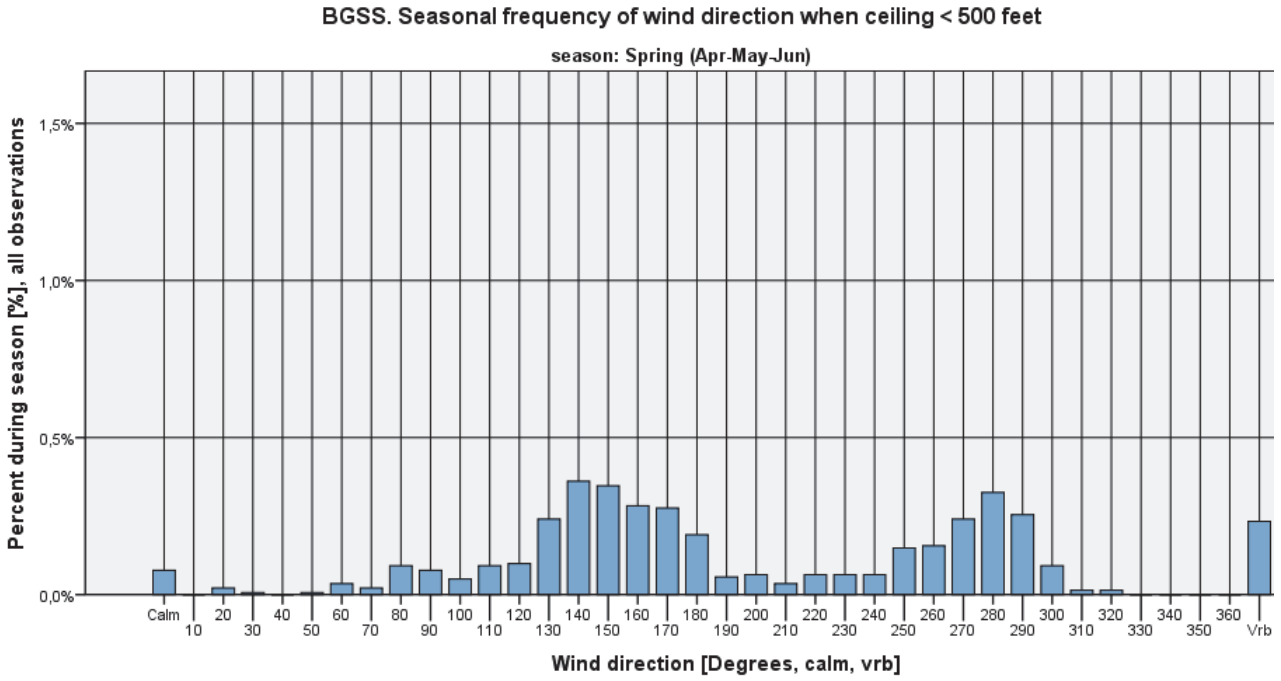


Figure 109

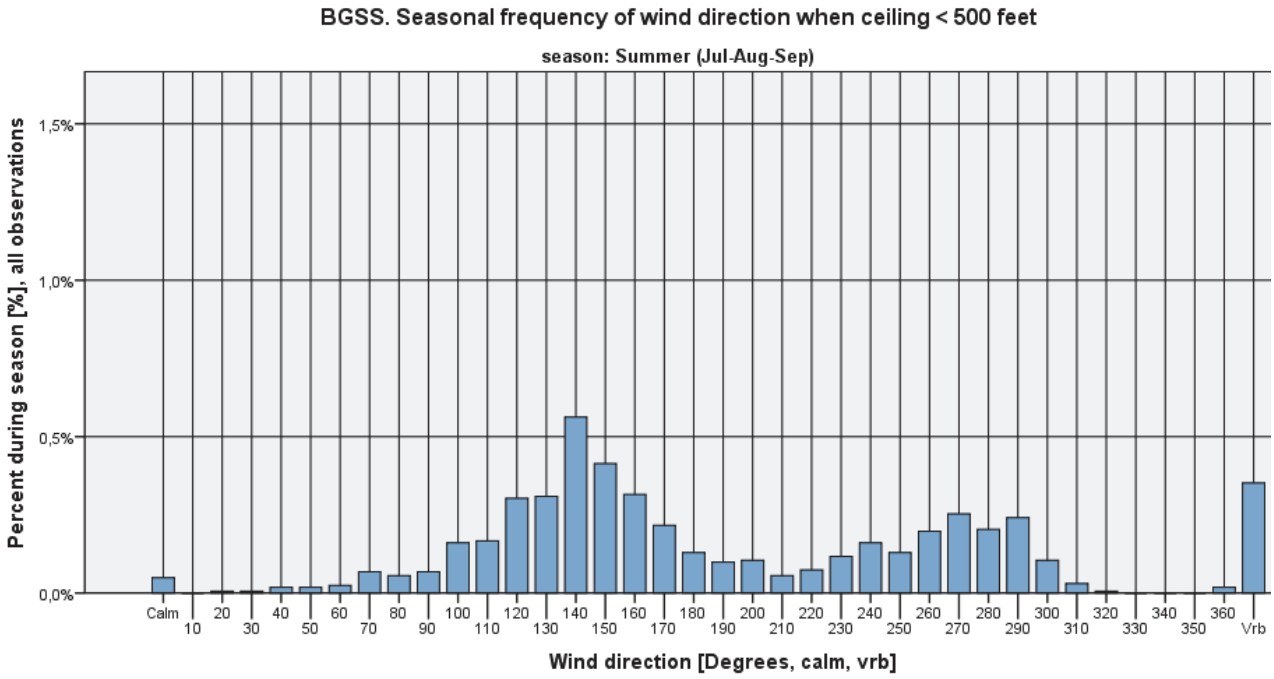


Figure 110

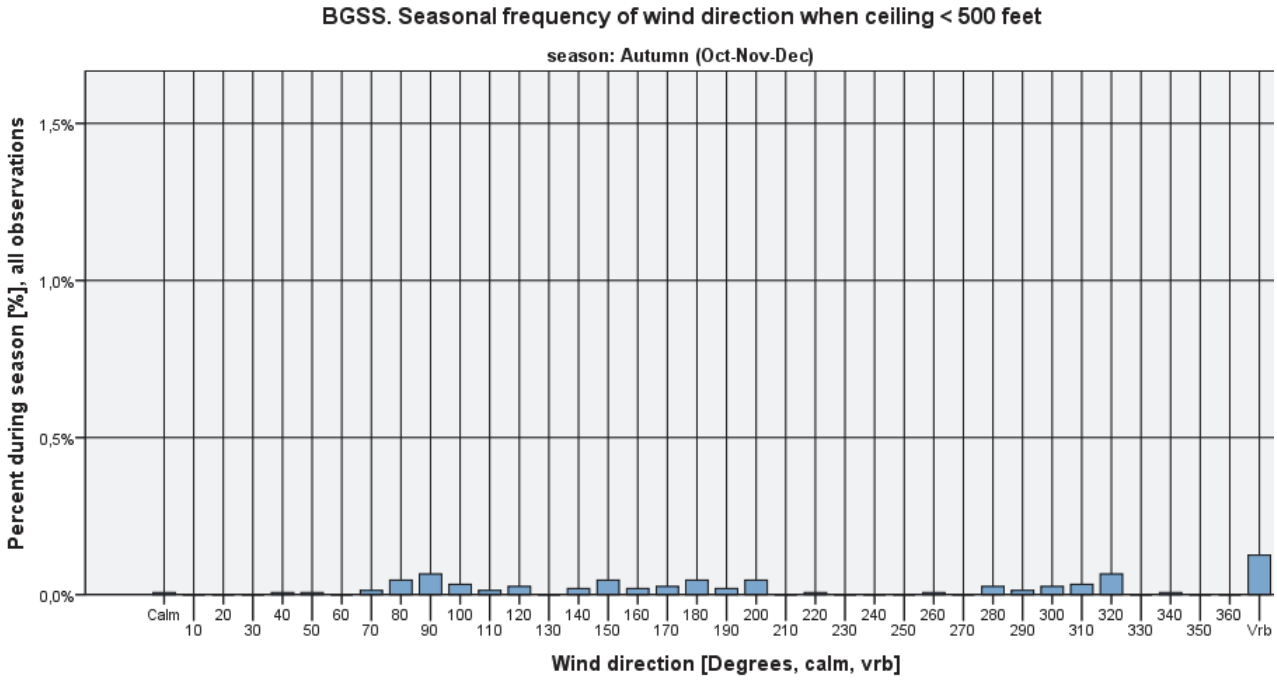


Figure 111

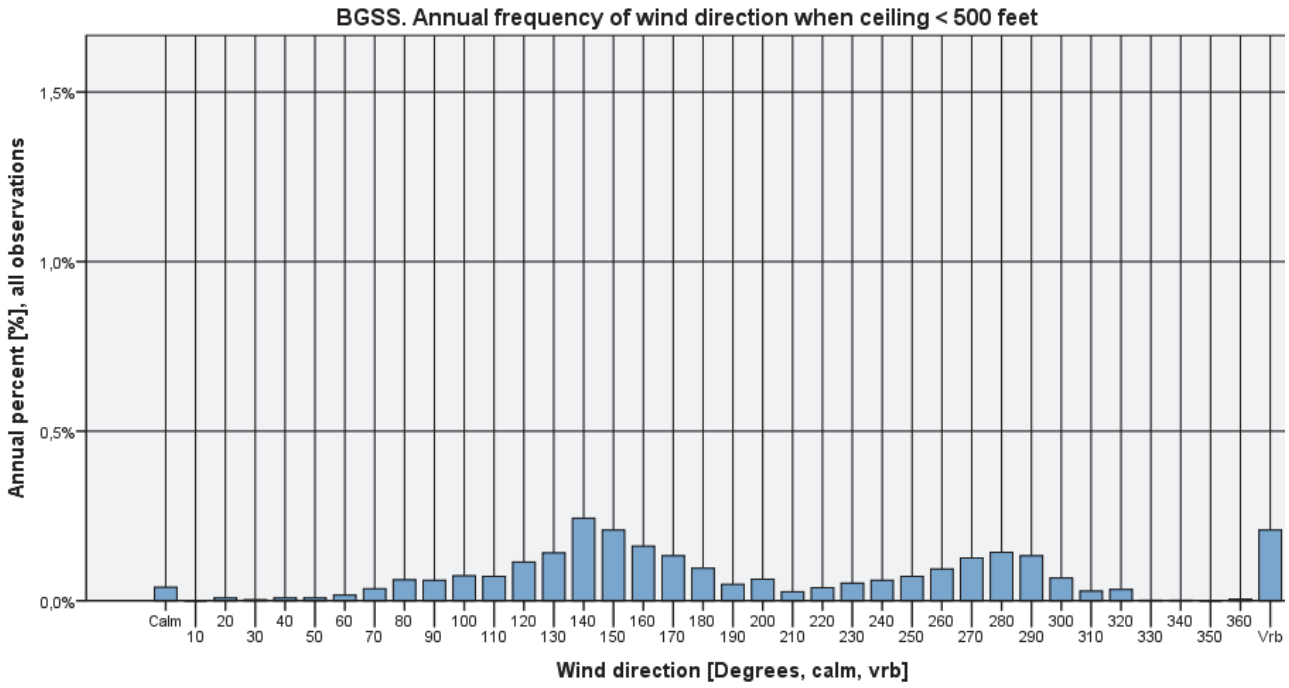
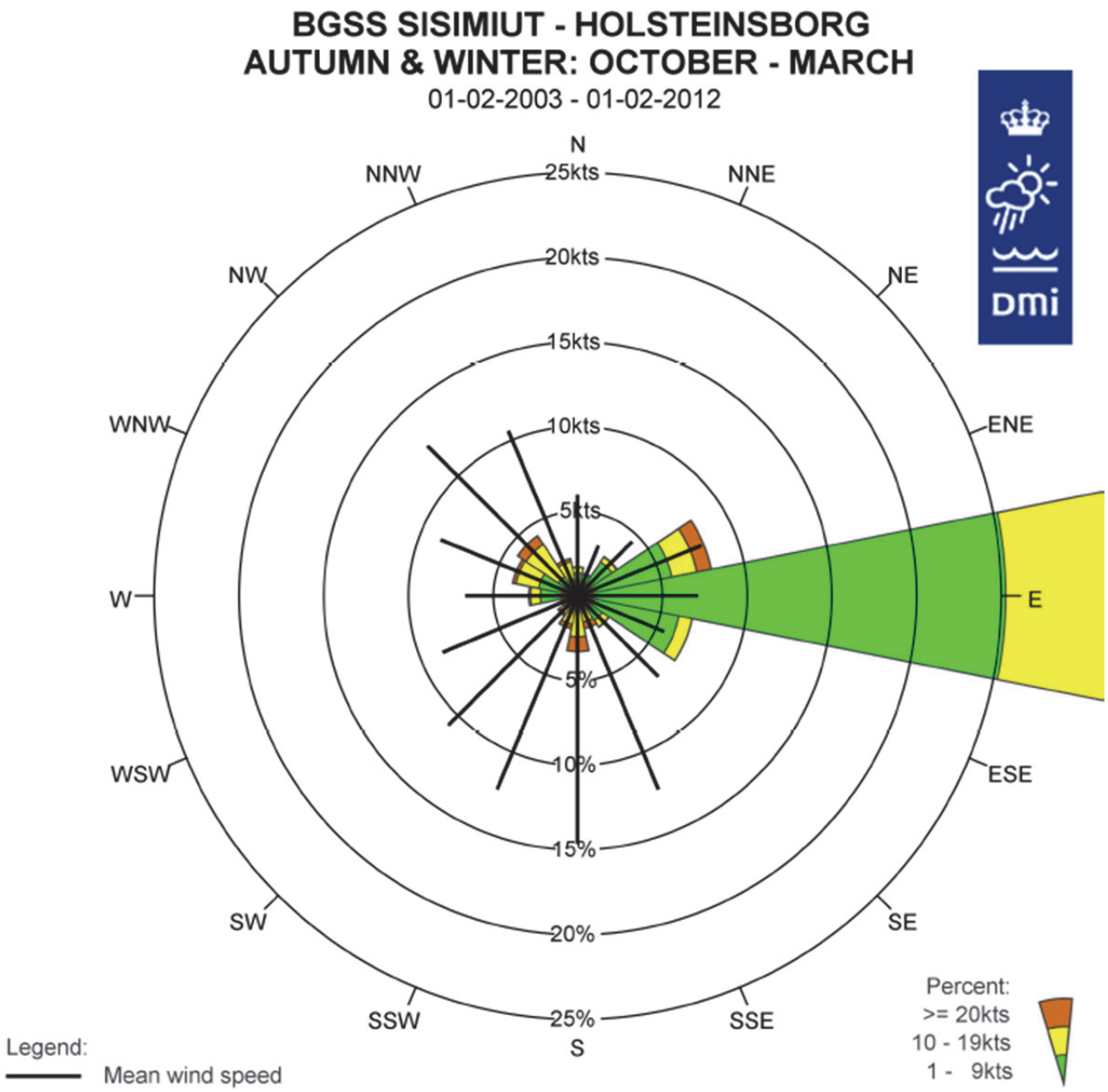

BGSS. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
1,5%
1,0%
0,5%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 112

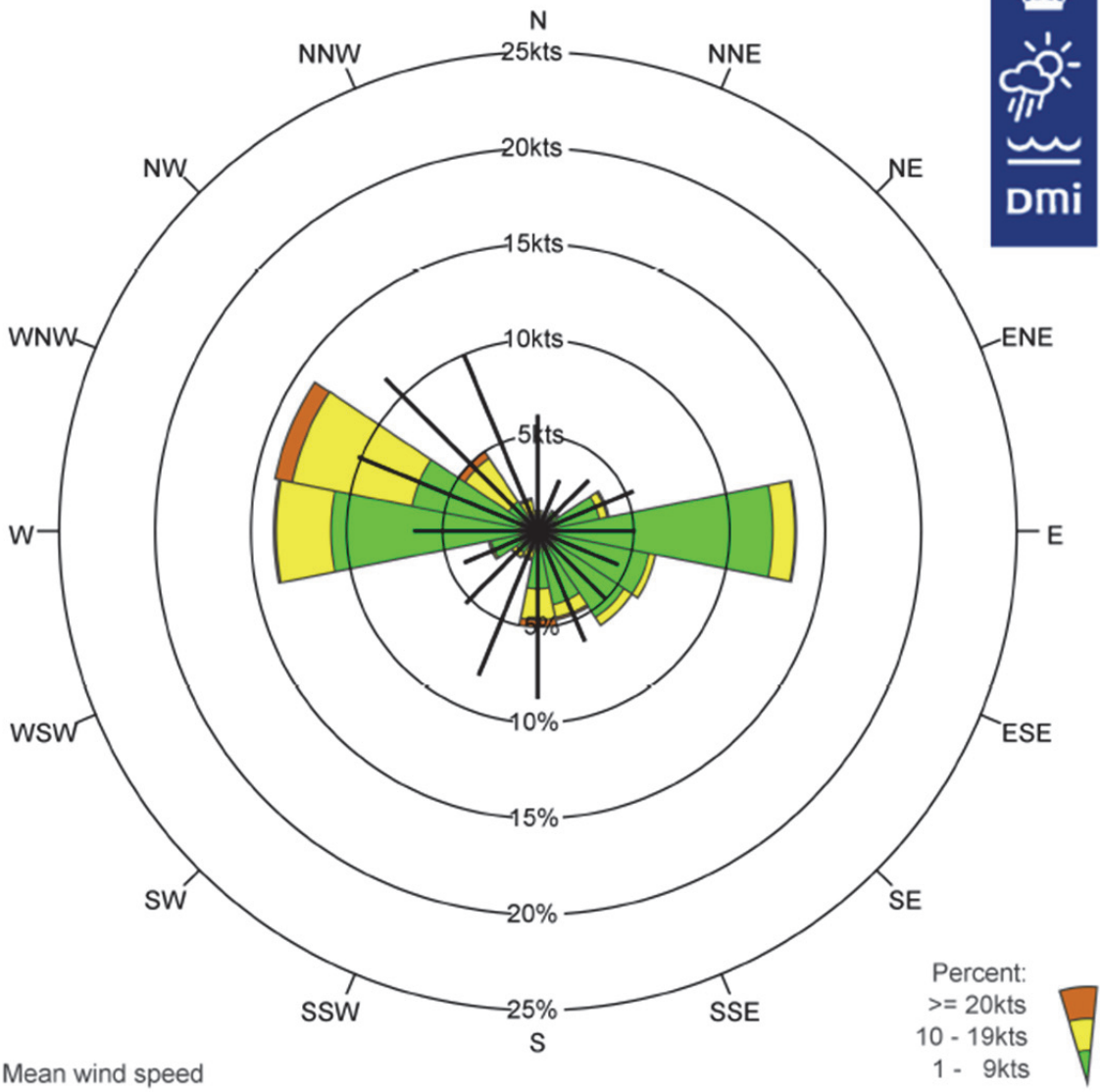
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	1.7	1.4	2.8	8.0	33.1	6.9	2.2	2.0	3.3	2.0	1.4	1.0	2.9	3.9	4.3	2.2	79.1
% 1 - 9kts	1.3	1.3	2.4	5.7	25.3	6.1	1.7	0.8	0.9	0.7	0.6	0.6	2.2	2.4	1.4	1.0	54.3
% 10 - 19kts	0.4	0.1	0.3	1.5	6.6	0.8	0.5	0.8	1.5	1.0	0.7	0.4	0.6	1.4	2.3	1.1	19.8
% >= 20kts	0.0	0.0	0.0	0.9	1.2	0.0	0.0	0.4	0.9	0.3	0.1	0.1	0.1	0.2	0.6	0.2	5.0
Mean wind speed	6.0	3.3	4.5	7.9	7.1	5.5	6.7	12.4	14.7	12.3	10.9	8.6	6.7	8.8	12.5	10.6	8.0
Max wind speed	24.0	18.0	28.0	46.0	46.0	19.0	31.0	39.0	42.0	32.0	27.0	39.0	37.0	37.0	37.0	30.0	46.0

Number of observations = 29176
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 6093=20.9%
Observations with calm/varying wind direction are not used in the statistics

BGSS SISIMIUT - HOLSTEINSBORG
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	1.1	0.6	1.3	3.8	13.5	6.3	5.9	4.7	5.0	1.5	1.7	2.6	13.8	14.0	5.0	1.8	82.5
% 1 - 9kts	0.8	0.6	1.2	3.3	12.2	5.9	5.4	3.9	3.0	1.0	1.3	2.5	10.8	6.7	1.9	0.8	61.2
% 10 - 19kts	0.3	0.0	0.1	0.4	1.2	0.4	0.5	0.7	1.6	0.5	0.3	0.1	2.9	6.4	2.7	0.9	18.9
% >= 20kts	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.1	0.9	0.4	0.1	2.4
Mean wind speed	6.1	2.8	3.8	5.4	5.1	4.6	5.1	6.2	8.8	8.2	5.4	4.3	6.5	10.2	11.3	10.0	7.0
Max wind speed	19.0	12.0	26.0	28.0	36.0	18.0	20.0	29.0	31.0	32.0	25.0	29.0	23.0	33.0	33.0	26.0	36.0

Number of observations = 30306
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 5295=17.5%
Observations with calm/varying wind direction are not used in the statistics

Availability

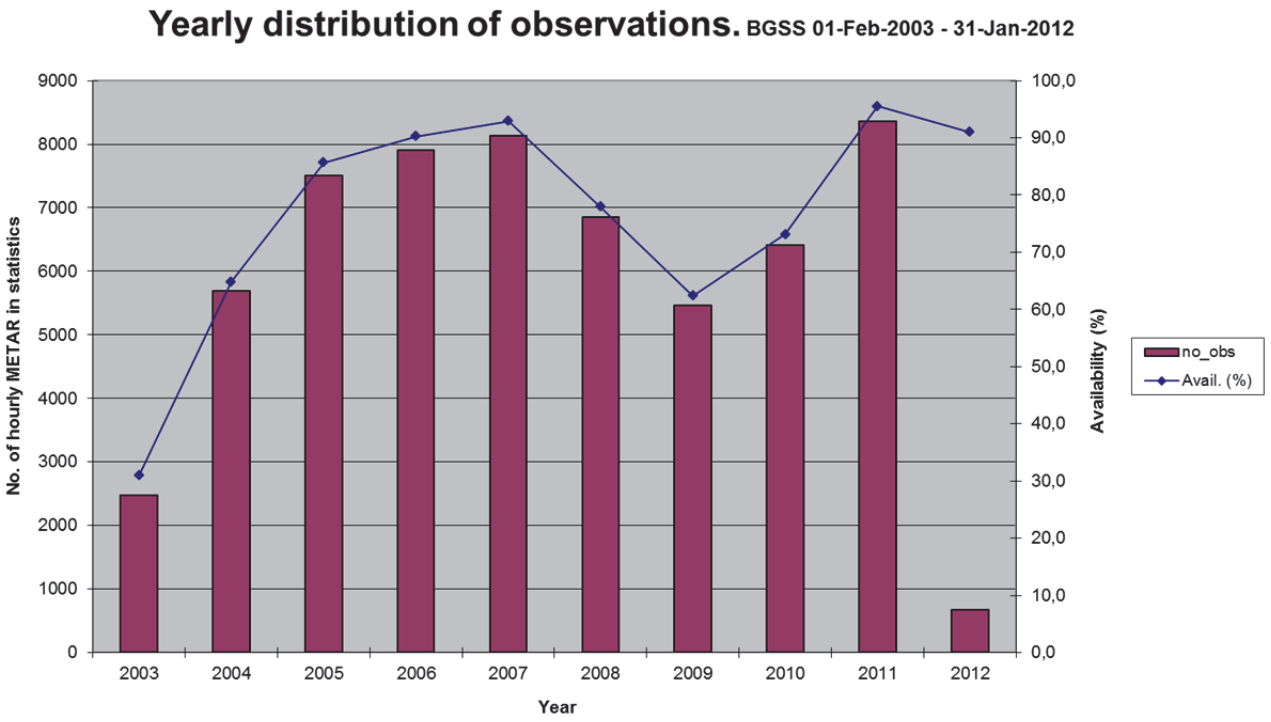


Figure 113

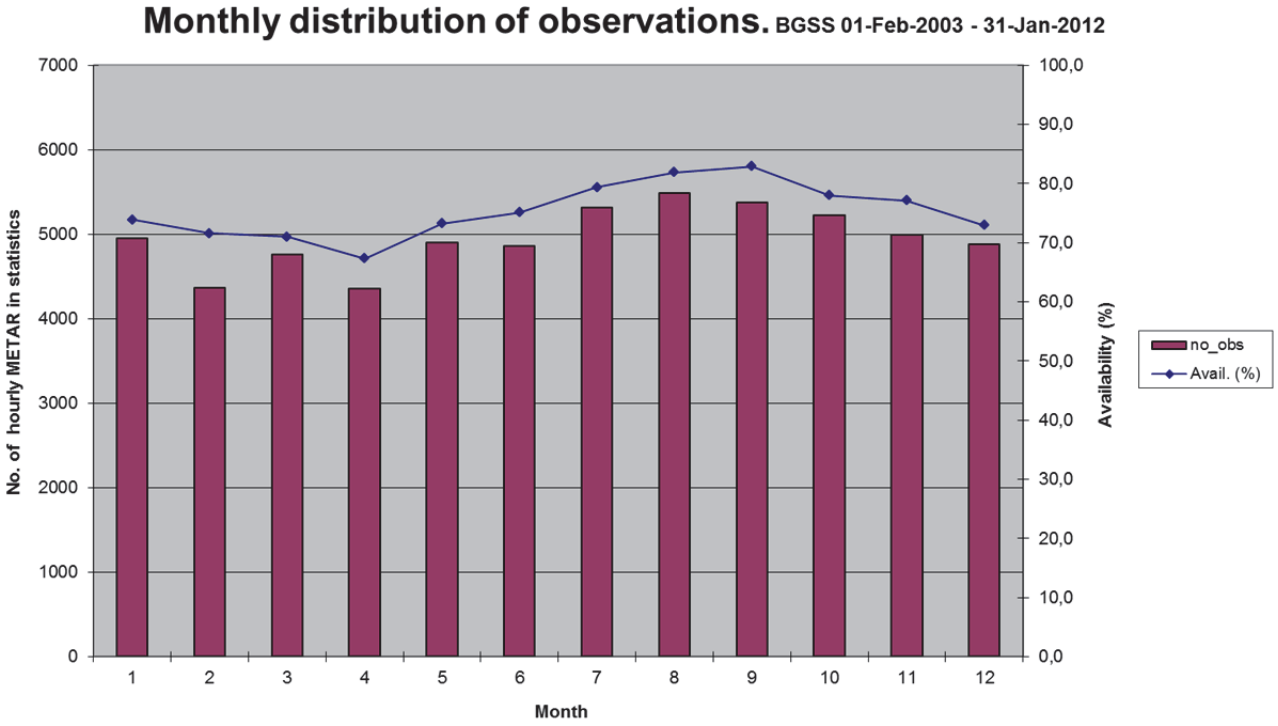


Figure 114

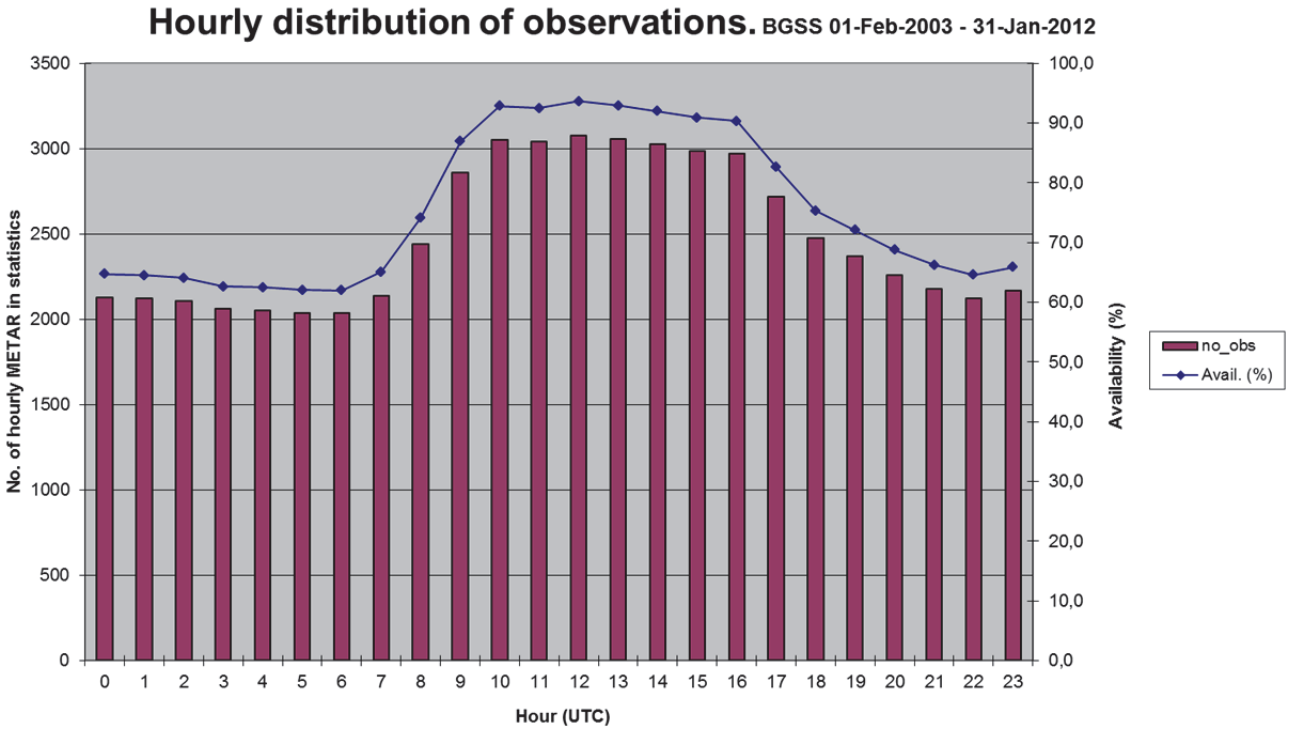


Figure 115

BGSS. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	,0	,5	,8	,9	,9	,7	,4	,6	1,0	,9
	1	,0	,5	,8	,9	,9	,7	,4	,6	1,0	,9
	2	,0	,5	,8	,9	,9	,7	,4	,6	,9	,9
	3	,0	,5	,8	,9	,9	,7	,4	,5	,9	,9
	4	,0	,5	,8	,9	,9	,7	,4	,5	,9	,9
	5	,0	,5	,8	,9	,9	,7	,4	,5	1,0	,9
	6	,0	,5	,8	,9	,9	,6	,4	,5	,9	,9
	7	,1	,5	,8	,9	,9	,6	,4	,7	,9	,9
	8	,5	,6	,8	,9	,9	,7	,5	,7	1,0	,9
	9	,8	,9	,9	,9	1,0	,8	,7	,8	1,0	,9
	10	,8	,9	1,0	1,0	1,0	,9	,9	,9	1,0	,9
	11	,8	,9	,9	1,0	1,0	,9	,9	1,0	,9	1,0
	12	,8	,9	,9	1,0	1,0	1,0	,9	1,0	1,0	,8
	13	,8	,9	,9	,9	1,0	,9	,9	,9	1,0	0,9
	14	,8	,9	,9	1,0	1,0	,9	,9	,9	1,0	0,9
	15	,7	,8	,9	1,0	1,0	,9	,9	,9	1,0	1,0
	16	,7	,9	,9	,9	1,0	,9	,9	,9	1,0	0,9
	17	,4	,7	,9	,9	,9	,9	,9	,8	,9	,9
	18	,1	,6	,9	,9	,9	,8	,8	,8	1,0	0,9
	19	,1	,6	,9	,9	,9	,8	,7	,8	1,0	,9
	20	,0	,5	,8	,9	,9	,7	,6	,7	,9	,9
	21	,0	,5	,8	,9	,8	,7	,5	,6	1,0	,9
	22	,0	,5	,8	,8	,8	,7	,5	,6	1,0	,9
	23	,0	,5	,8	,9	,9	,7	,4	,6	1,0	,9

Table 31

BGAA Aasiaat/Egedesminde

Mittarfik Aasiaat

Location: 68,717°N 52,783°W H: 23 m above msl

BGAA observations in statistics: 25.849 hourly METAR[6] during daytime only (hours 08-17 UTC), covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an overall daytime availability of 78,6%.

Please note the low availability and take care accordingly when using the current BGAA weather statistics since the low availability, besides a lower observations frequency on Sundays, is resulting from exclusion of an unusual large number of erroneous or missing automated measurements of visibility and/or cloud cover, indicating what might be a data quality that overall is lower than usual. More details are found in the Availability Section.

The BGAA METAR are all manual until 12 April 2004, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGAA - Frequencies (%) Visibility - Ceiling

No. Obs = 6.469	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,015	0,14	0,88	1,28	1,38	0,12	1,50
<1 km	0,015	0,14	1,25	1,73	1,87	0,26	2,13
<1.5 km	0,015	0,14	1,51	2,16	2,49	0,51	3,00
<3.0 km	0,015	0,14	2,09	3,15	3,85	1,31	5,16
< 5.0 km	0,015	0,14	2,33	4,02	5,67	2,97	8,64
>= 5,0 km or CAVOK	0	0	0,97	4,76	9,77	81,59	91,36
Total	0,015	0,14	3,31	8,78	15,44	84,56	100

Table 32

Spring (Apr-May-Jun): BGAA - Frequencies (%) Visibility - Ceiling

No. Obs = 6.311	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,27	1,33	2,06	2,08	2,09	0,05	2,14
<1 km	0,27	1,46	2,73	2,74	2,77	0,06	2,84
<1.5 km	0,27	1,52	3,52	3,58	3,66	0,16	3,82
<3.0 km	0,27	1,52	4,77	5,05	5,39	0,38	5,77
< 5.0 km	0,27	1,52	5,42	6,18	6,91	1,43	8,33
>= 5,0 km or CAVOK	0	0,016	2,52	9,94	17,49	74,17	91,67
Total	0,27	1,54	7,94	16,11	24,40	75,60	100

Table 33

[6] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGAA - Frequencies (%) Visibility - Ceiling

No. Obs = 6.478	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,46	1,39	2,66	2,66	2,66	0,09	2,75
<1 km	0,46	1,59	3,55	3,57	3,58	0,12	3,70
<1.5 km	0,46	1,64	4,34	4,37	4,38	0,28	4,66
<3.0 km	0,46	1,65	5,39	5,50	5,65	0,49	6,14
< 5.0 km	0,46	1,65	6,14	6,42	6,65	0,68	7,33
>= 5,0 km or CAVOK	0,015	0,031	2,24	9,96	14,71	77,96	92,67
Total	0,48	1,68	8,38	16,38	21,36	78,64	100

Table 34

Autumn (Oct-Nov-Dec): BGAA - Frequencies (%) Visibility - Ceiling

No. Obs = 6.591	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,20	0,35	1,14	1,24	1,29	0,11	1,40
<1 km	0,20	0,35	1,64	1,87	1,99	0,15	2,14
<1.5 km	0,20	0,35	1,97	2,55	2,79	0,39	3,19
<3.0 km	0,20	0,35	2,52	3,66	4,34	1,40	5,74
< 5.0 km	0,20	0,35	2,94	4,51	5,75	2,88	8,63
>= 5,0 km or CAVOK	0	0	0,33	2,18	5,39	85,98	91,37
Total	0,20	0,35	3,28	6,69	11,14	88,86	100

Table 35

Annual: BG - Frequencies (%) Visibility - Ceiling

No. Obs = 25.849	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,24	0,80	1,68	1,81	1,85	0,09	1,94
<1 km	0,24	0,88	2,29	2,47	2,55	0,15	2,70
<1.5 km	0,24	0,91	2,83	3,16	3,33	0,34	3,66
<3.0 km	0,24	0,91	3,68	4,33	4,80	0,90	5,70
< 5.0 km	0,24	0,91	4,20	5,27	6,24	2,00	8,24
>= 5,0 km or CAVOK	0,0039	0,012	1,50	6,67	11,78	79,99	91,76
Total	0,24	0,92	5,70	11,94	18,02	81,98	100

Table 36

Wind direction histograms

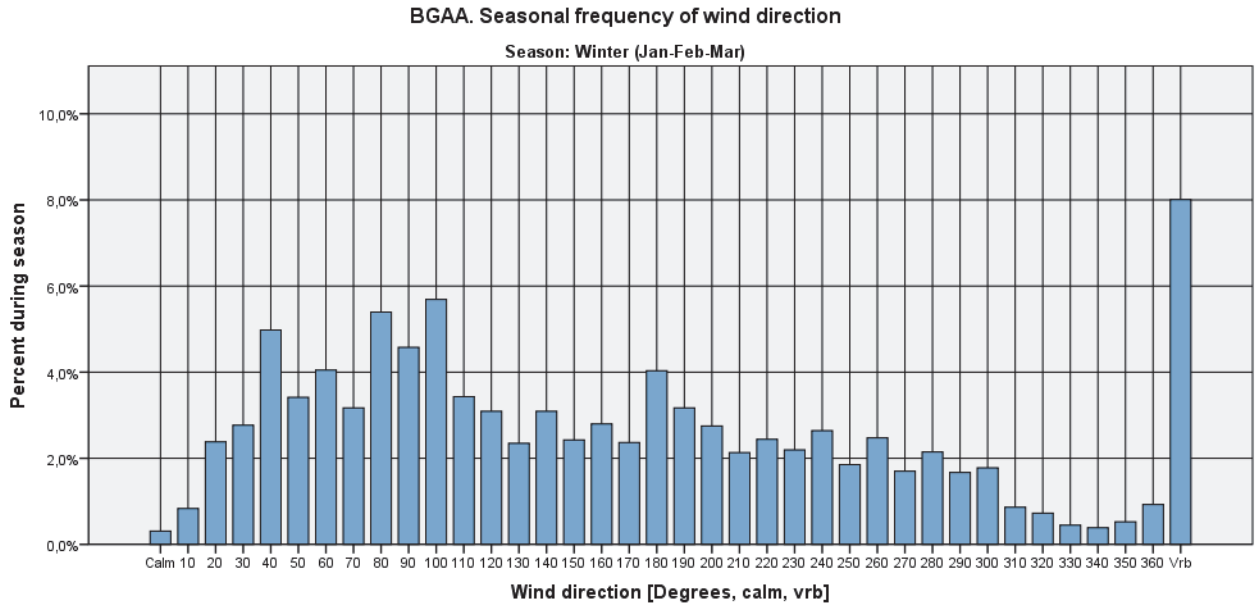


Figure 116

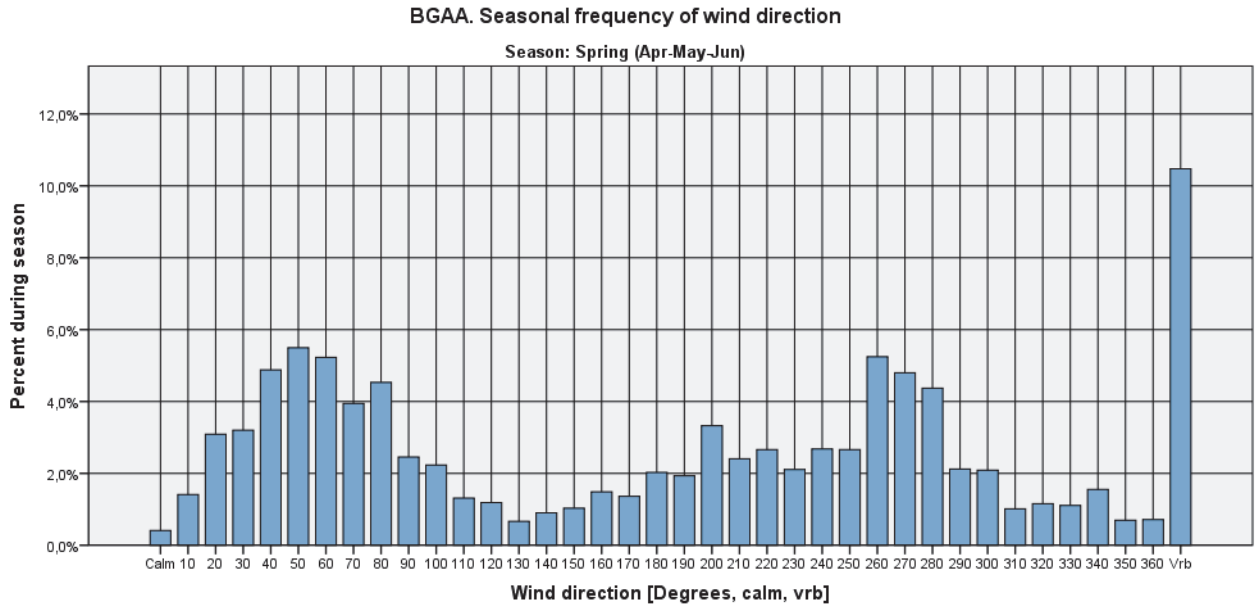


Figure 117

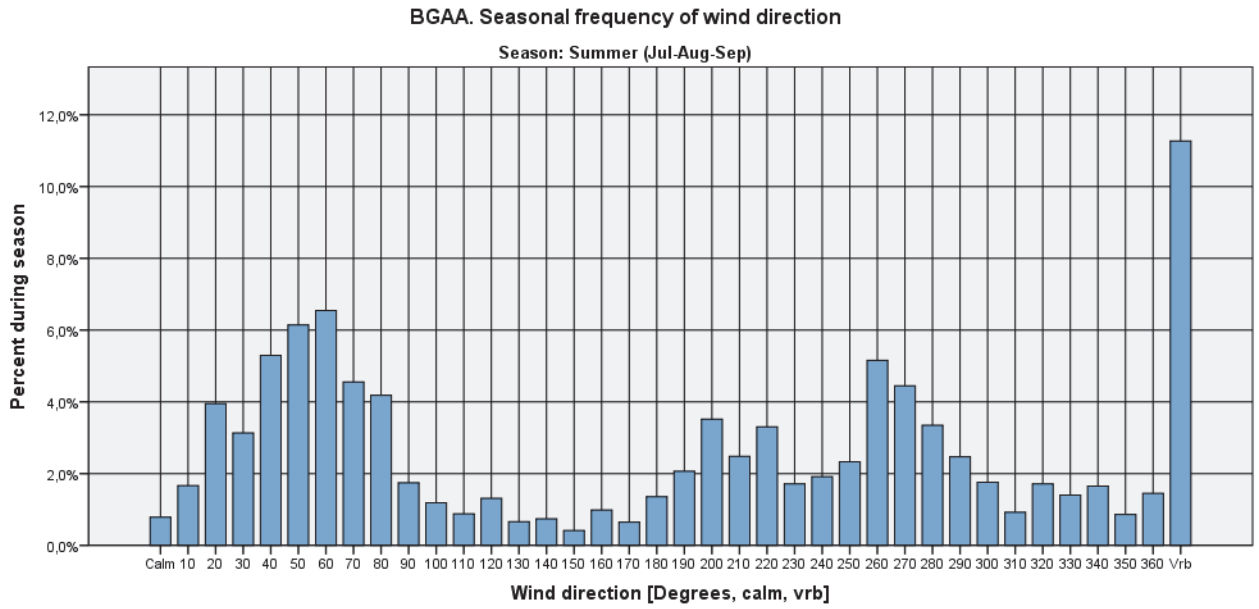


Figure 118

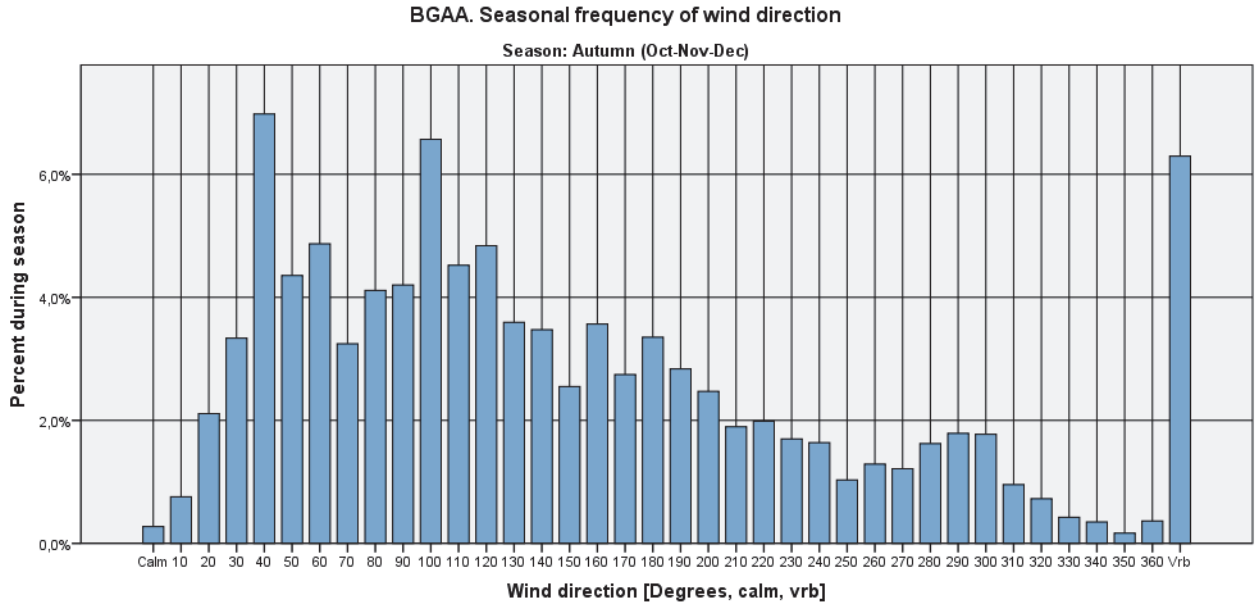


Figure 119

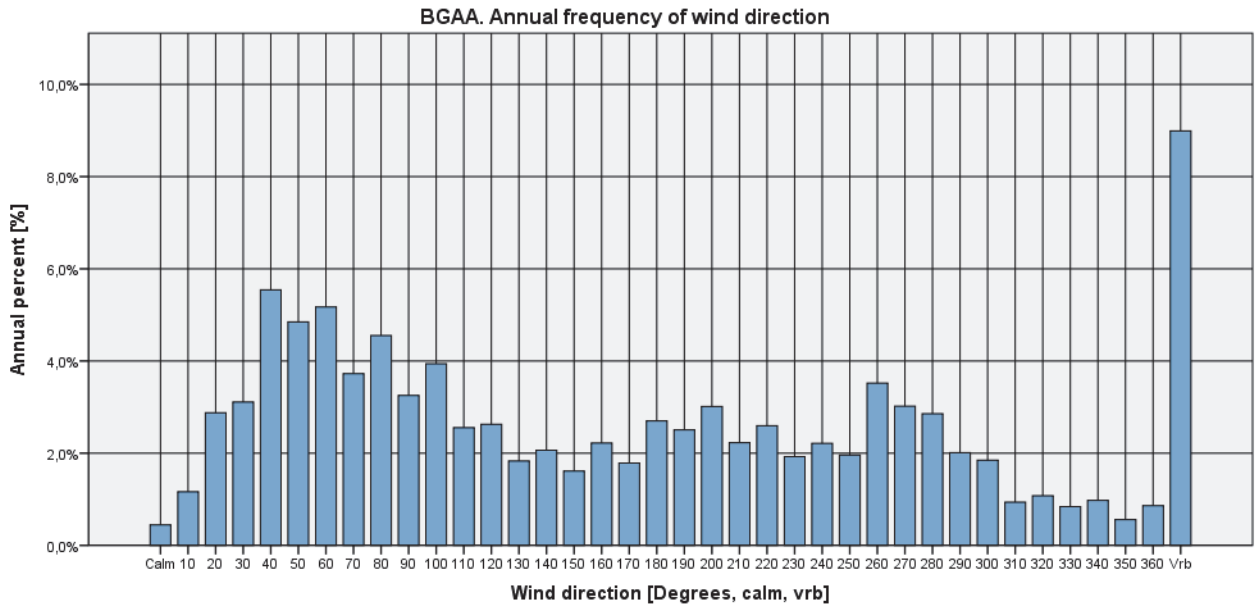

BGAA. Annual frequency of wind direction
Annual percent [%]
10,0%
8,0%
6,0%
4,0%
2,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 120

Visibility criteria on wind direction histograms

Visibility<1000 m

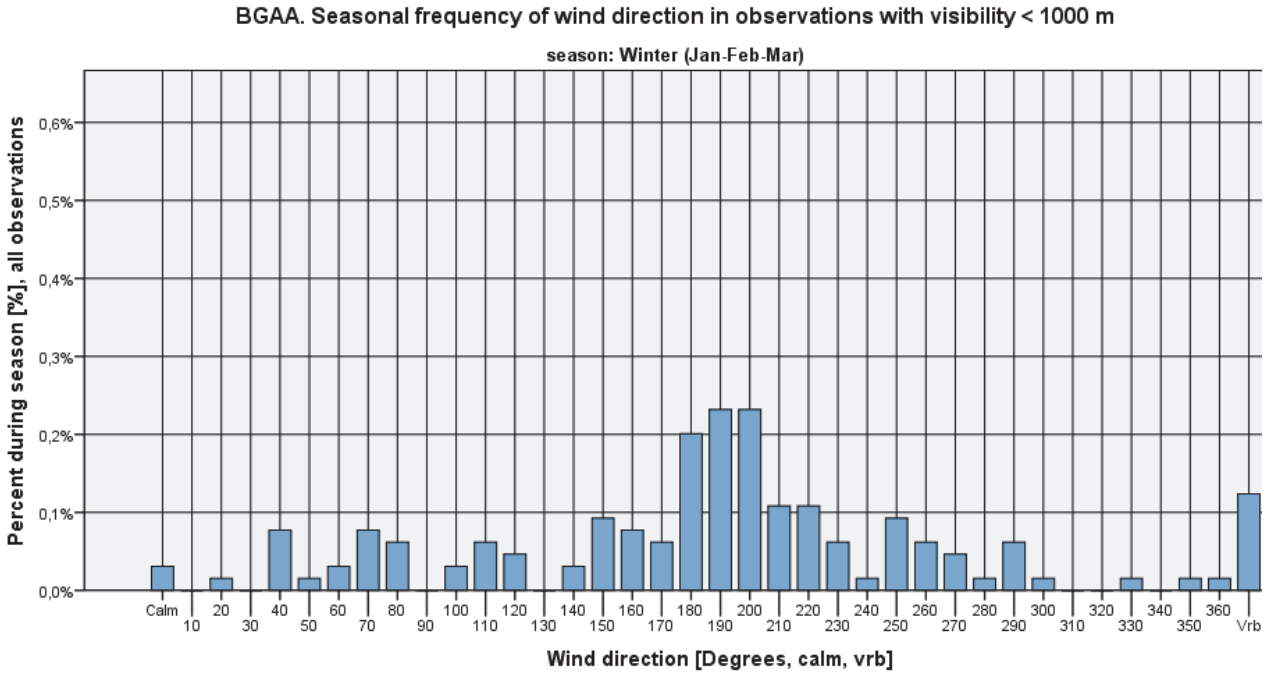


Figure 121

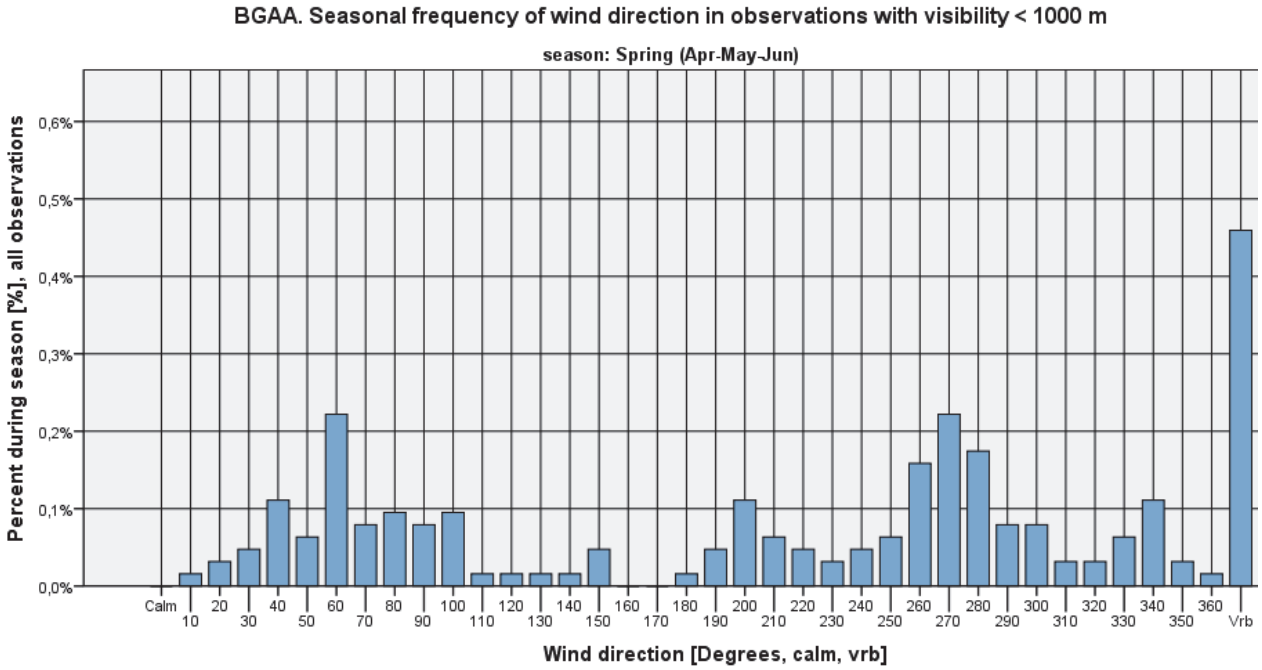


Figure 122

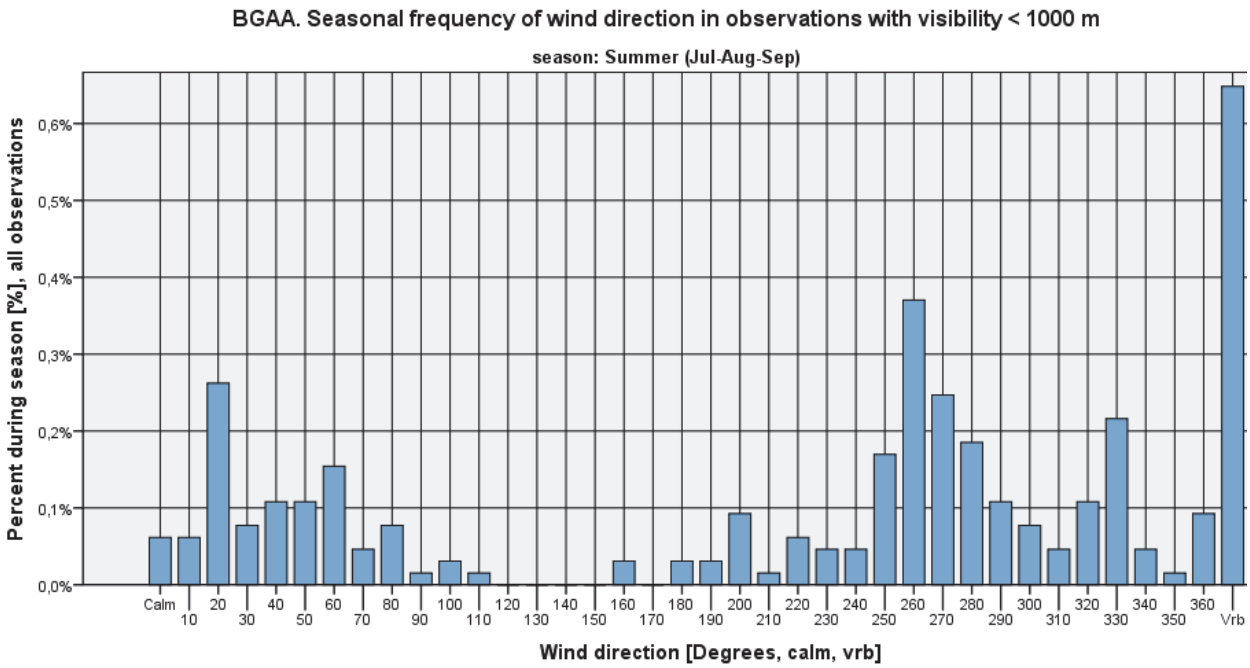


Figure 123

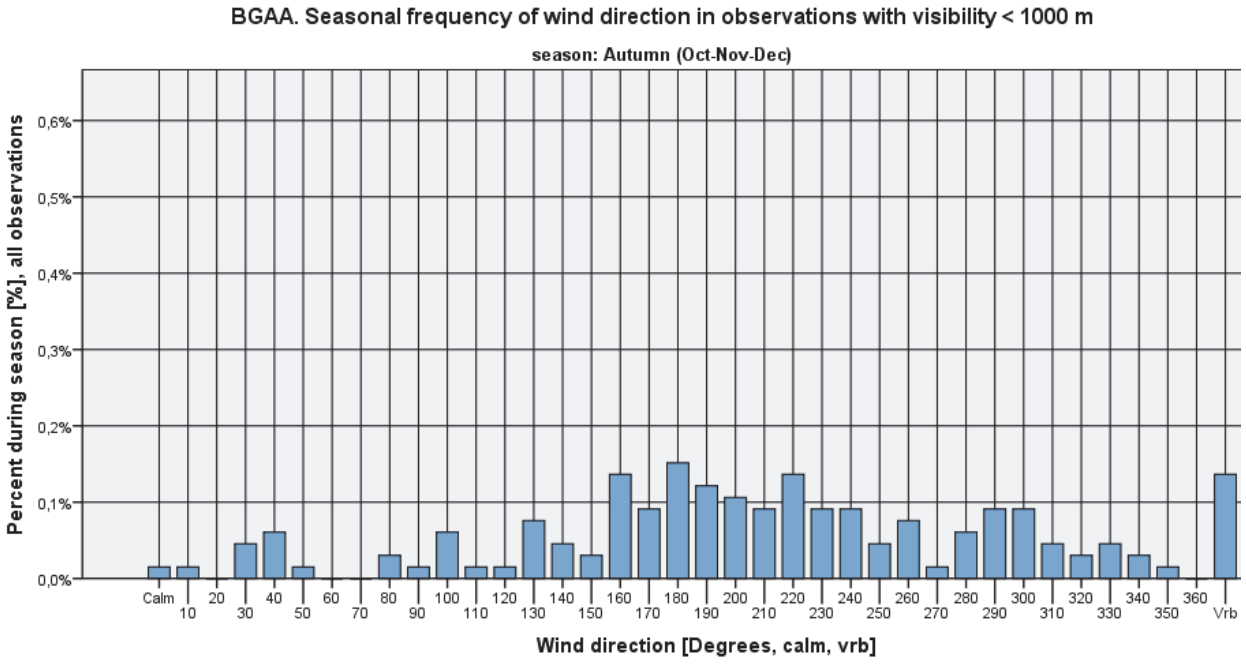


Figure 124

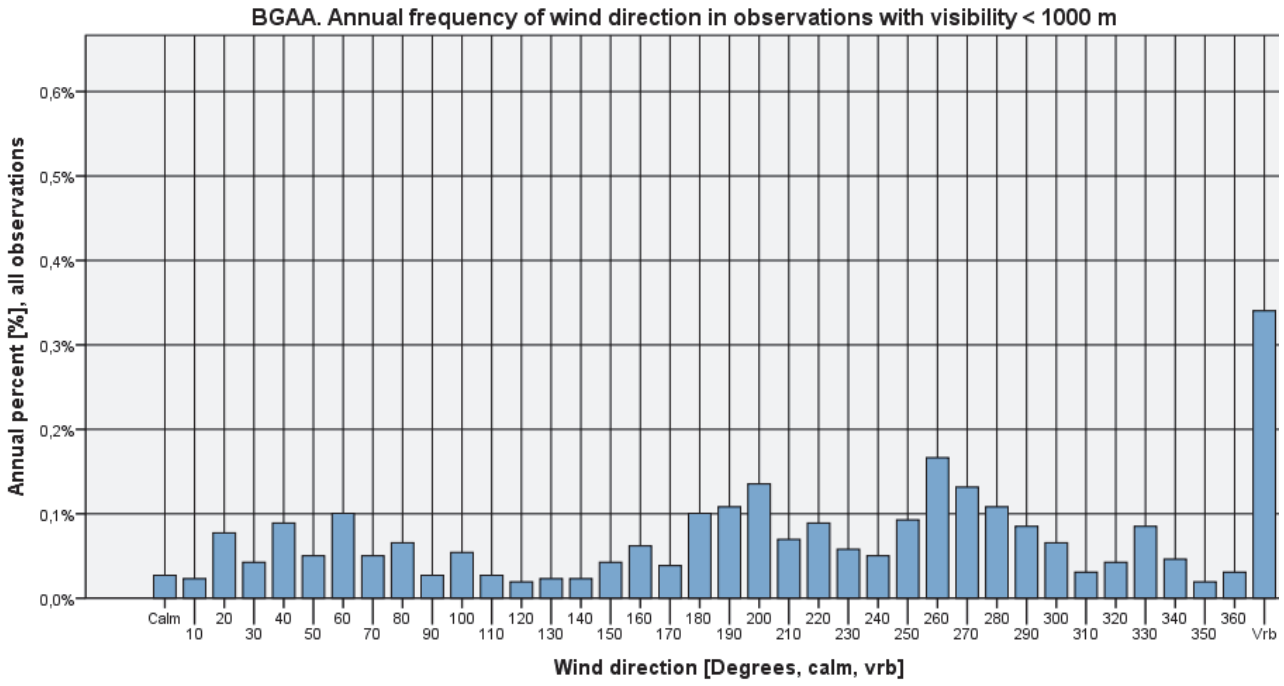

BGAA. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
0,6%
0,5%
0,4%
0,3%
0,2%
0,1%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 125

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

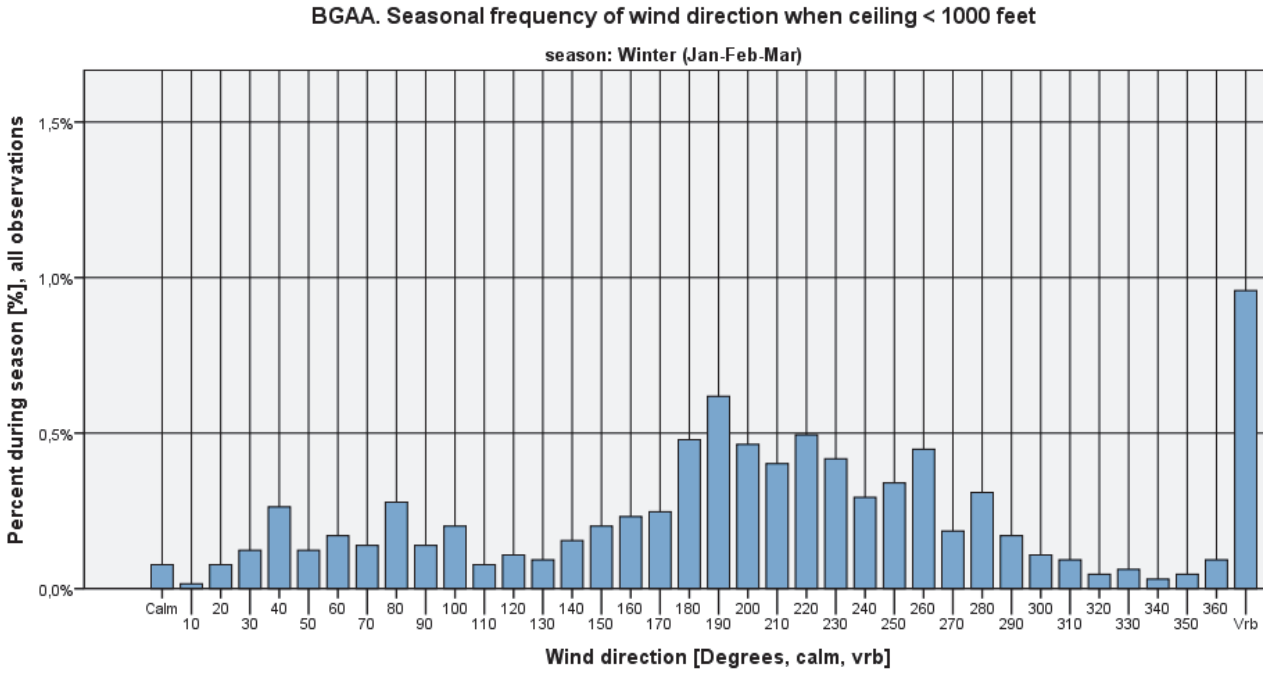


Figure 126

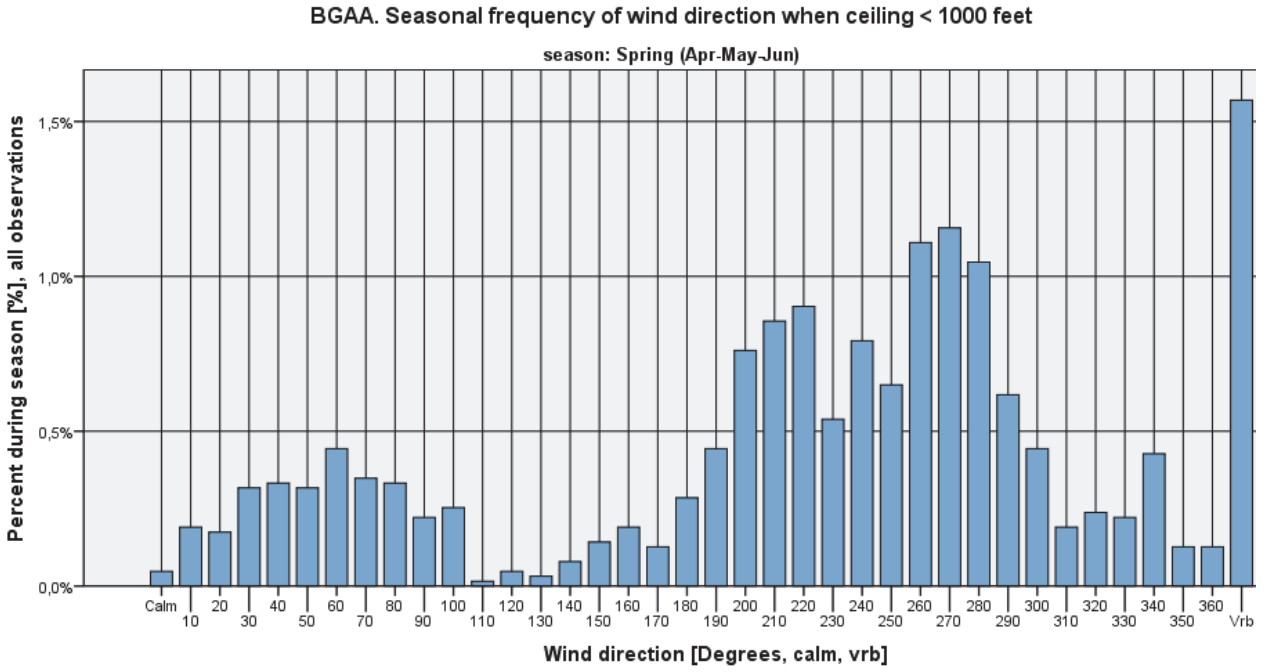


Figure 127

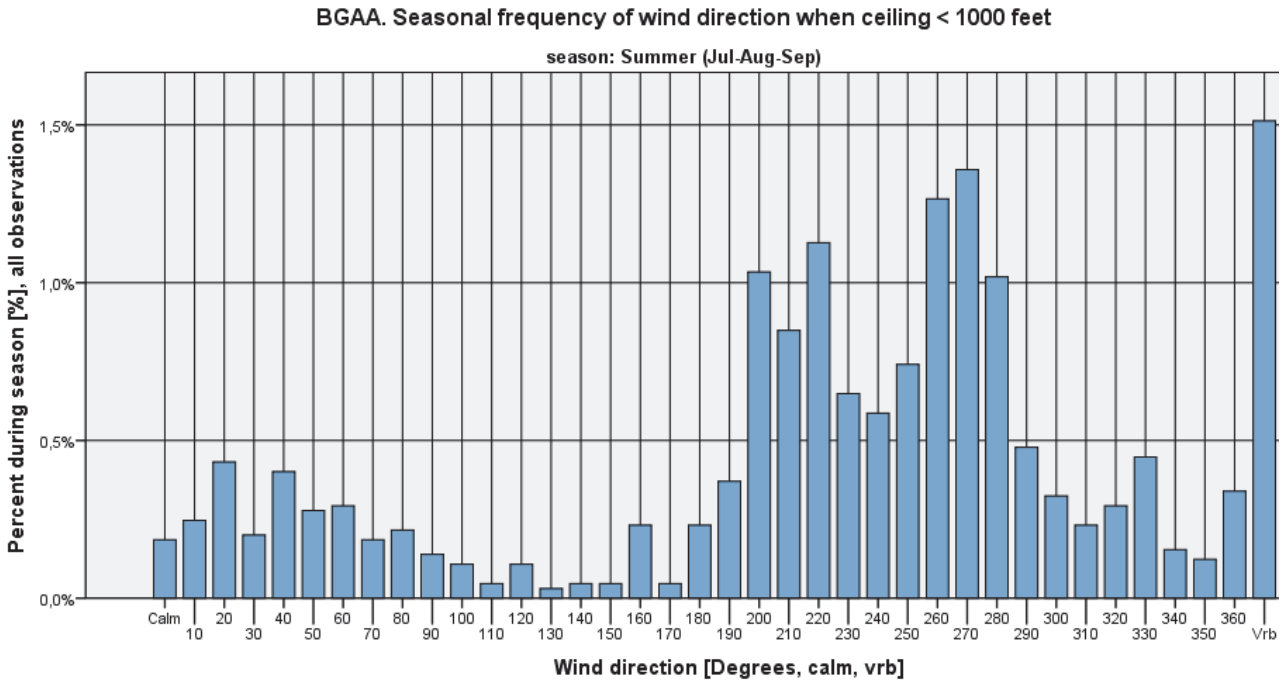


Figure 128

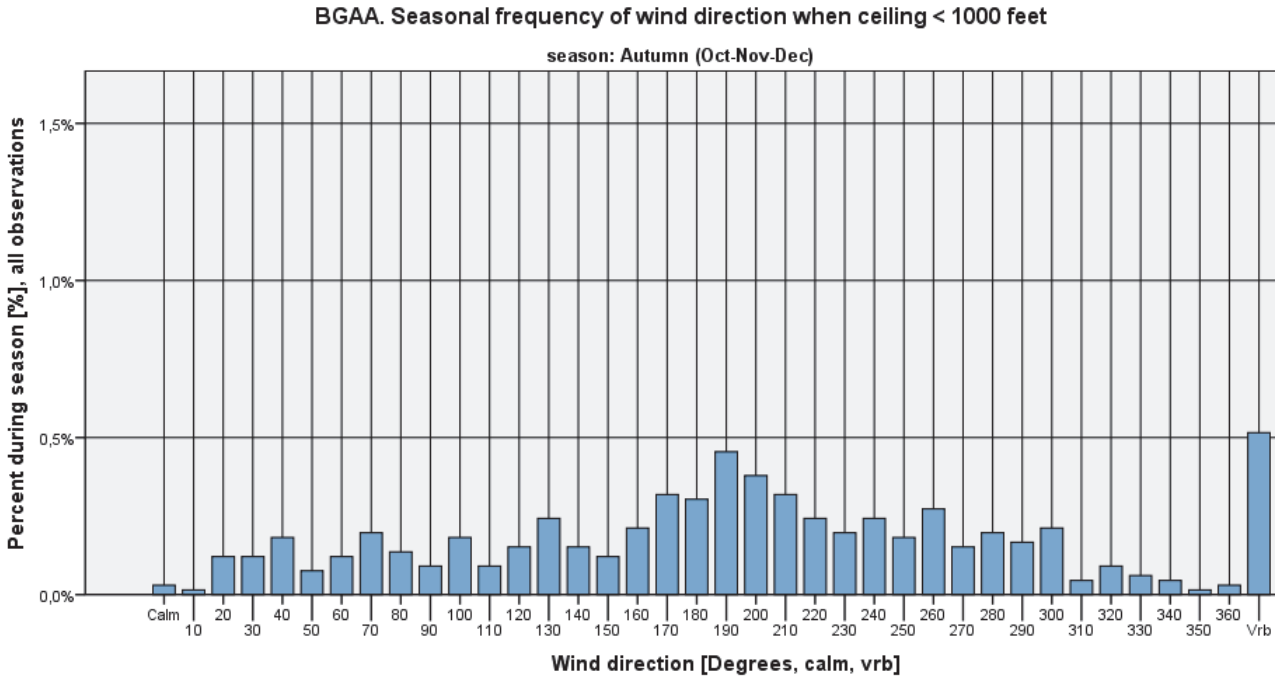


Figure 129

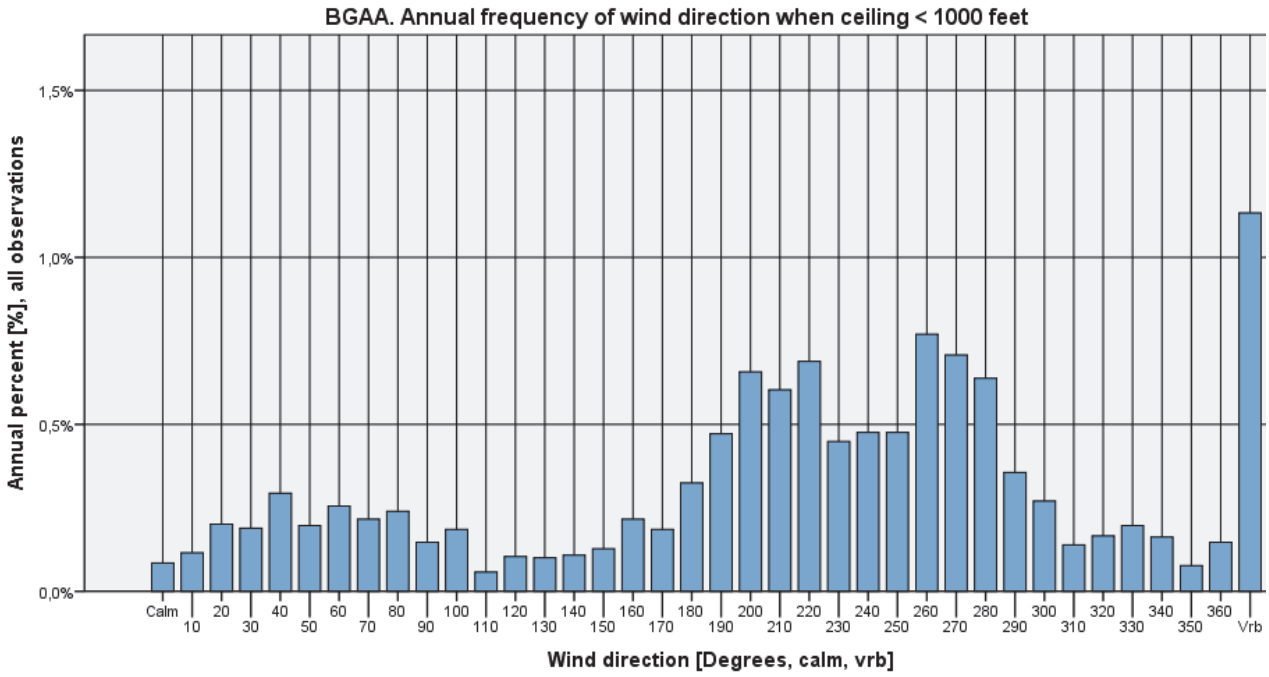

BGAA. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
1,5%
1,0%
0,5%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 130

Ceiling<500 feet

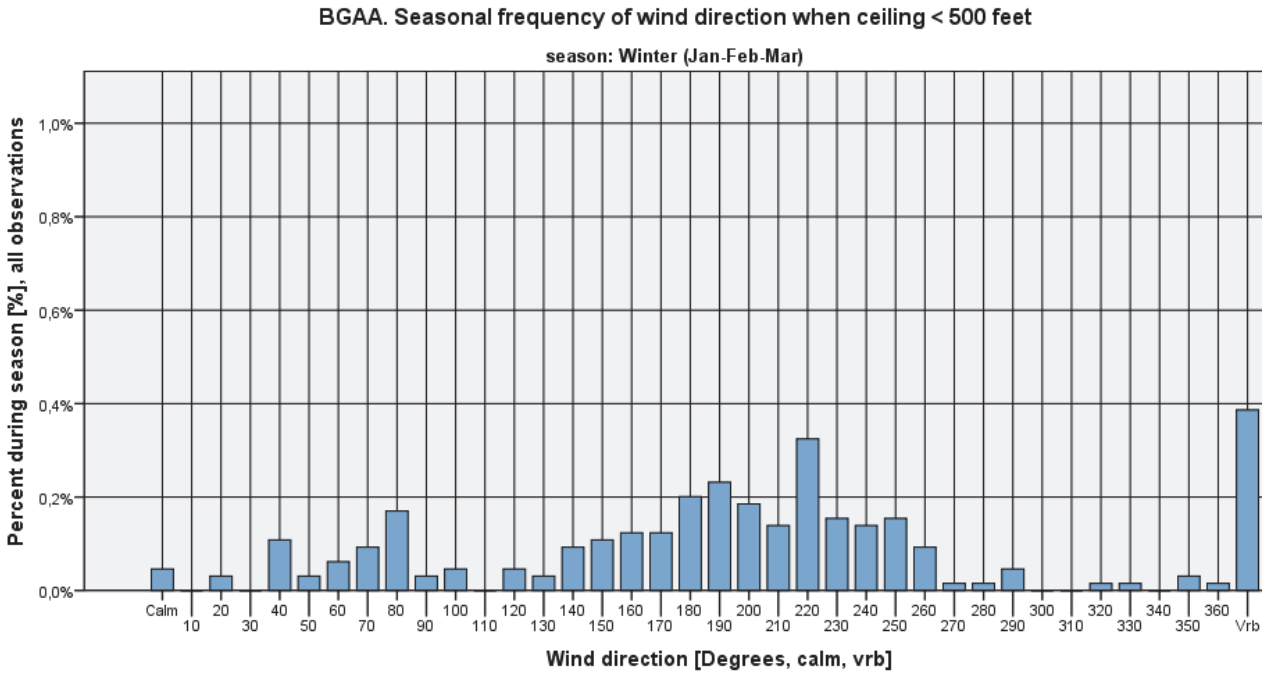


Figure 131

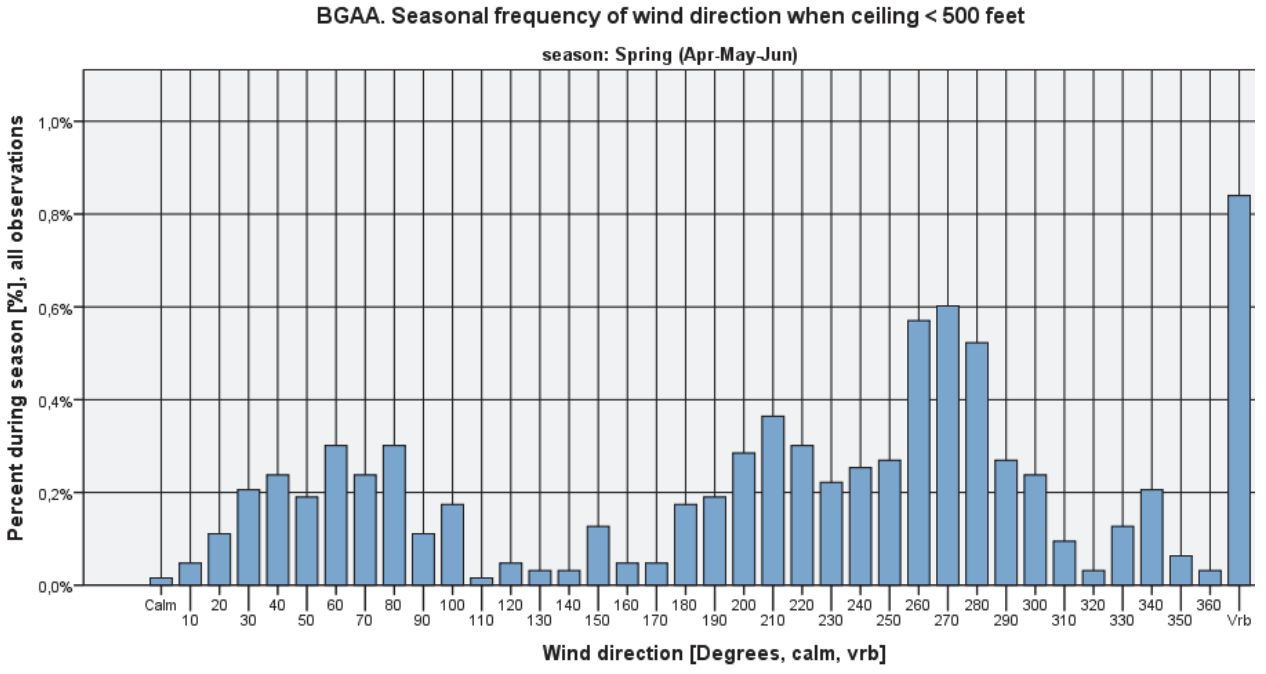


Figure 132

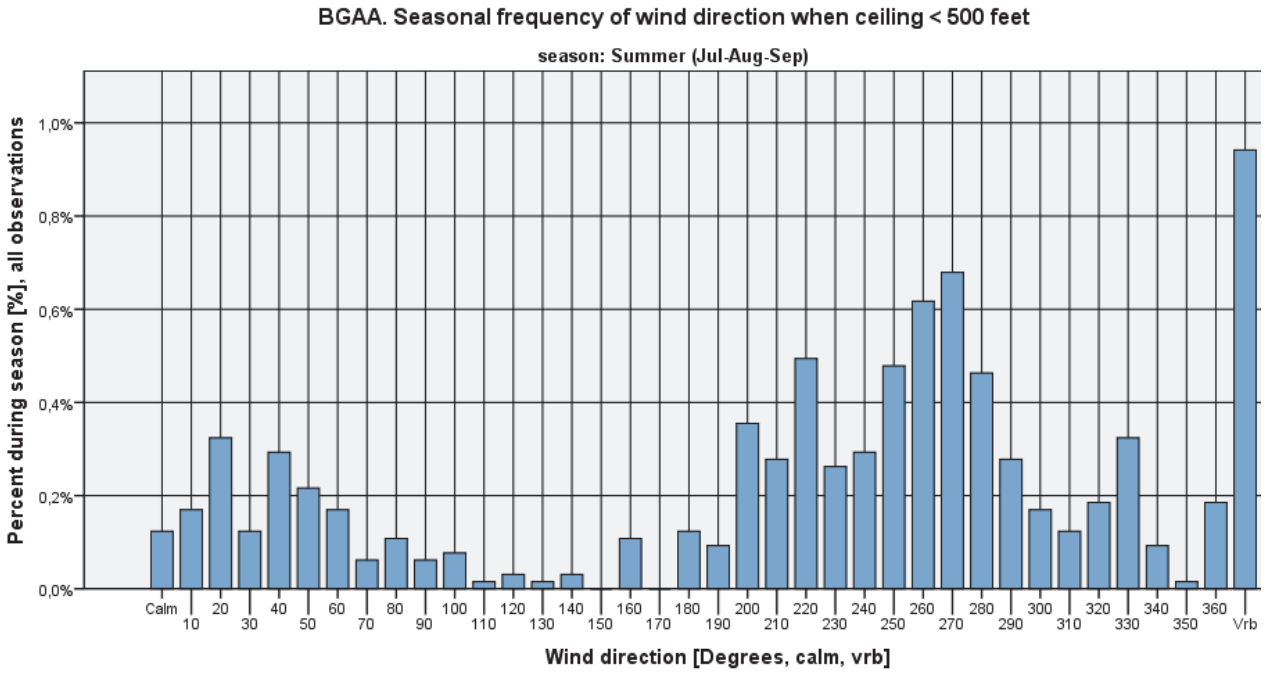


Figure 133

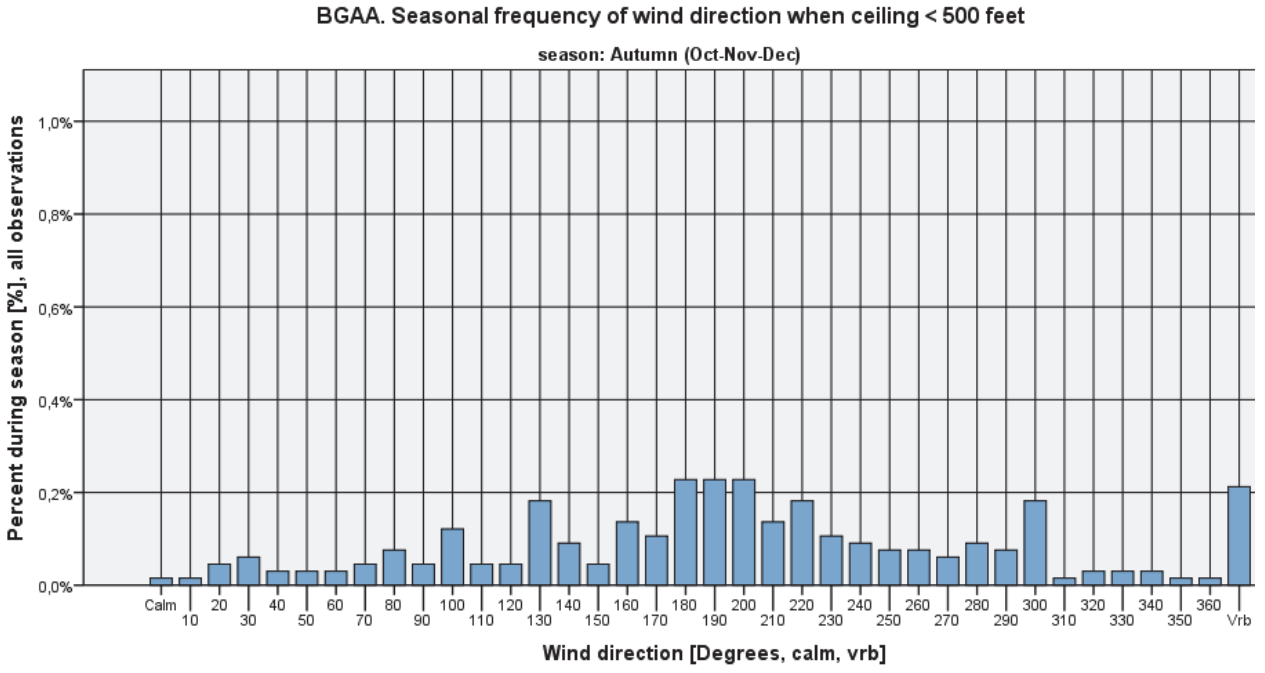


Figure 134

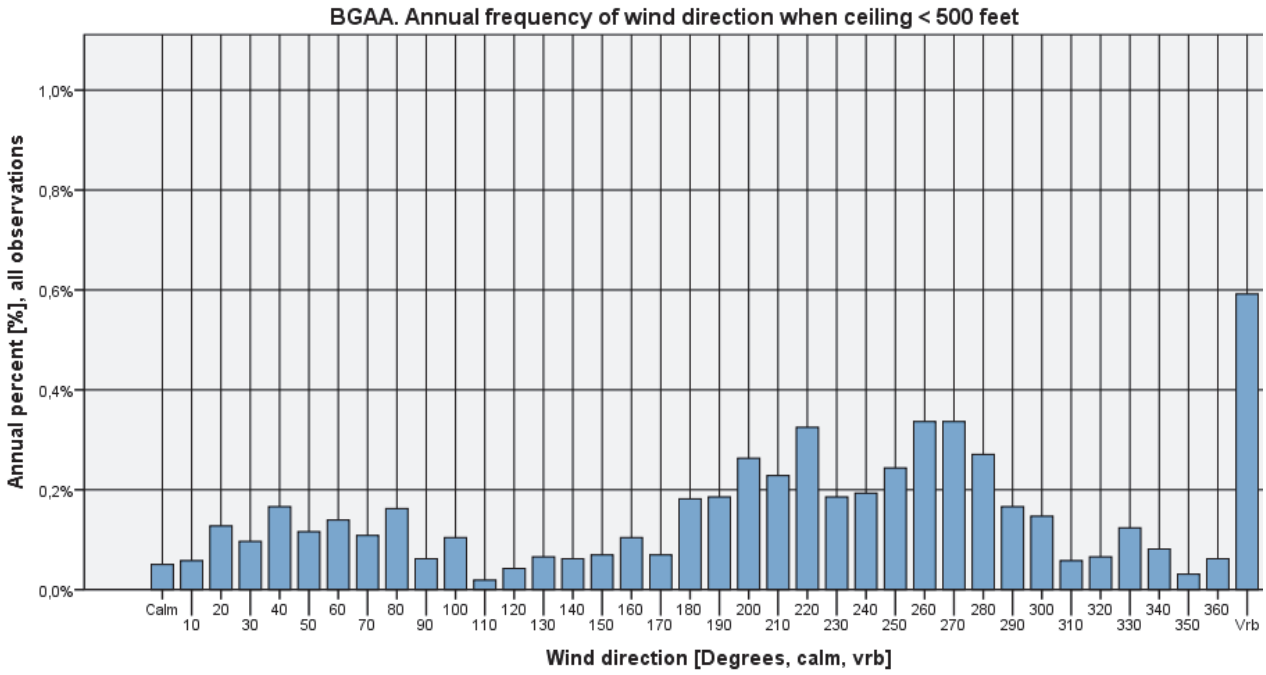
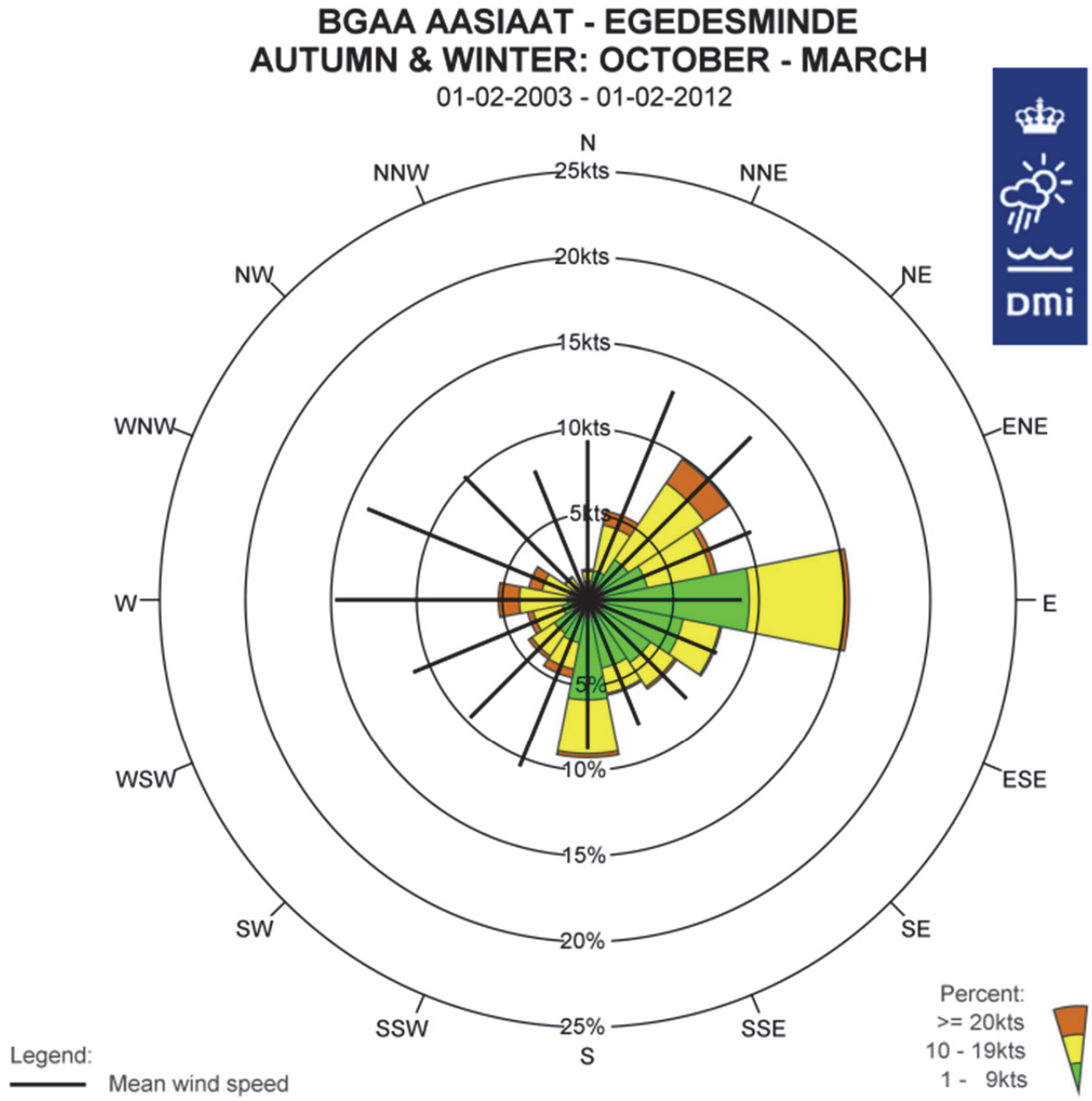

BGAA. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 135

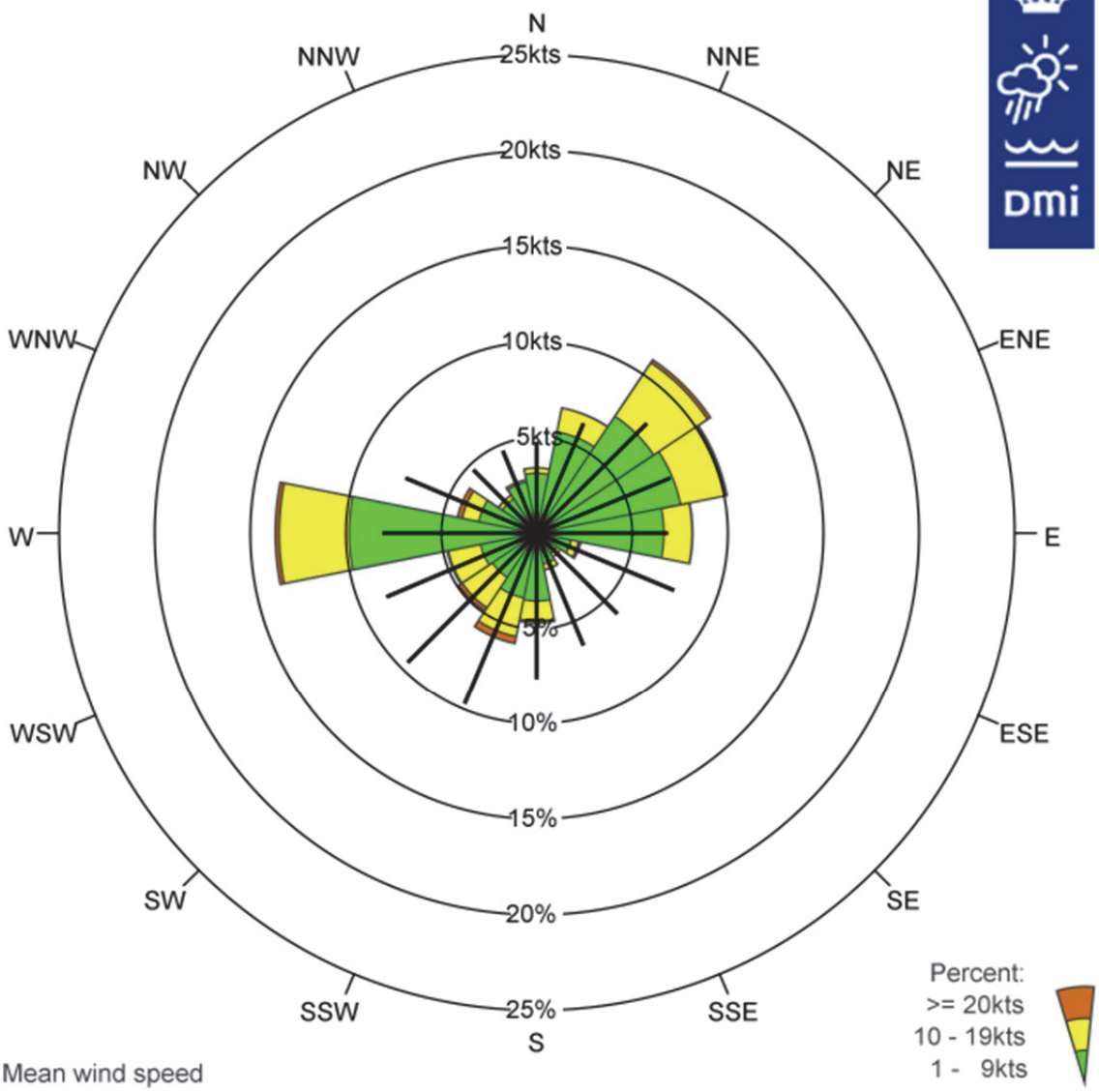
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	1.8	5.3	9.9	7.7	15.3	8.0	6.3	5.7	9.2	4.6	4.2	3.6	5.2	3.5	1.6	0.8	92.6
% 1 - 9kts	1.1	1.7	2.8	3.5	9.4	5.7	4.4	4.1	5.8	2.5	2.4	1.5	1.2	1.1	0.8	0.5	48.6
% 10 - 19kts	0.6	2.7	5.4	3.8	5.6	2.2	1.7	1.5	3.2	1.6	1.6	1.7	2.8	1.7	0.8	0.3	37.0
% >= 20kts	0.1	0.8	1.7	0.3	0.3	0.1	0.2	0.1	0.2	0.5	0.2	0.3	1.2	0.8	0.1	0.0	7.0
Mean wind speed	9.4	13.1	13.4	10.4	9.0	8.2	8.1	7.9	8.7	10.6	9.7	11.1	14.8	13.9	10.2	8.2	10.3
Max wind speed	25.0	38.0	33.0	29.0	33.0	29.0	32.0	27.0	34.0	40.0	35.0	26.0	39.0	35.0	28.0	21.0	40.0

Number of observations = 13060
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 971=7.4%
Observations with calm/varying wind direction are not used in the statistics

BGAA AASIAAT - EGEDESMINDE
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	3.4	6.7	10.9	10.1	8.2	2.3	1.5	2.0	4.7	5.9	4.9	4.8	13.7	4.2	2.4	2.9	88.5
% 1 - 9kts	3.1	5.4	7.4	7.7	6.7	1.8	1.3	1.6	3.5	3.4	2.8	3.0	9.8	3.1	2.2	2.7	65.5
% 10 - 19kts	0.3	1.3	3.4	2.4	1.5	0.4	0.2	0.3	1.0	2.1	1.9	1.7	3.7	0.9	0.2	0.1	21.4
% >= 20kts	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.4	0.2	0.1	0.2	0.2	0.0	0.0	1.6
Mean wind speed	4.8	6.3	8.2	7.5	6.8	7.8	6.0	6.4	7.6	9.7	9.6	8.6	8.0	7.5	4.7	4.7	7.5
Max wind speed	18.0	23.0	26.0	27.0	35.0	41.0	17.0	27.0	31.0	40.0	34.0	32.0	37.0	30.0	21.0	17.0	41.0

Number of observations = 12789
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 1468=11.5%
Observations with calm/varying wind direction are not used in the statistics

Availability

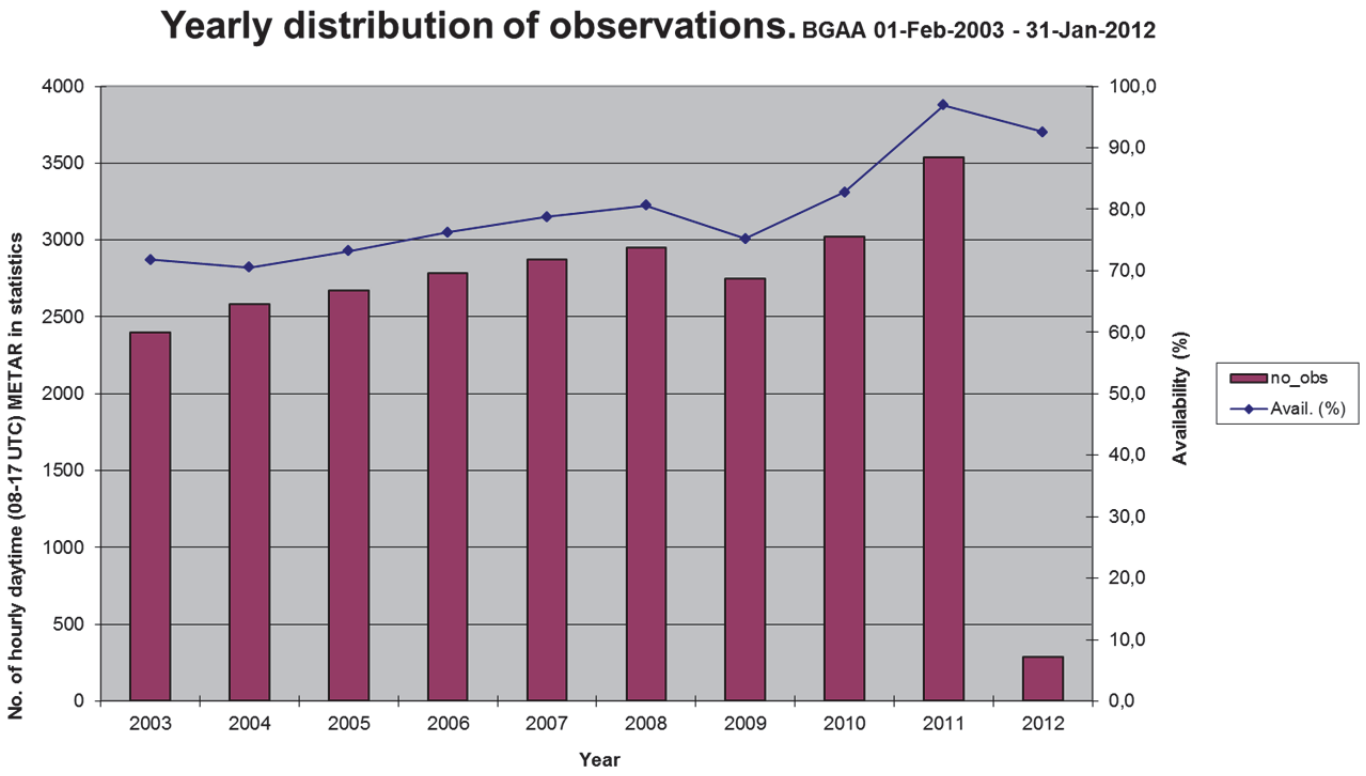


Figure 136. The BGAA observations during the hours 08-17 UTC used in the statistics.

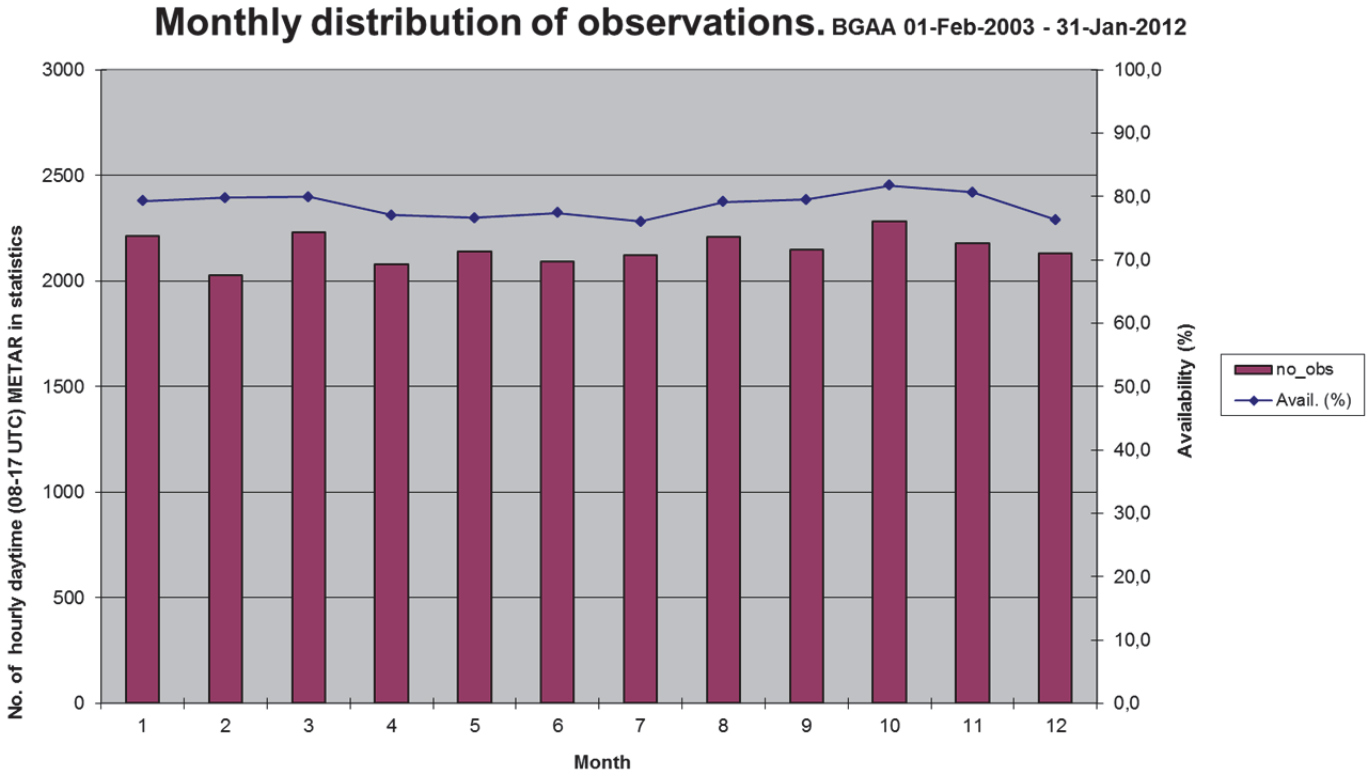


Figure 137. The BGAA observations during the hours 08-17 UTC used in the statistics.

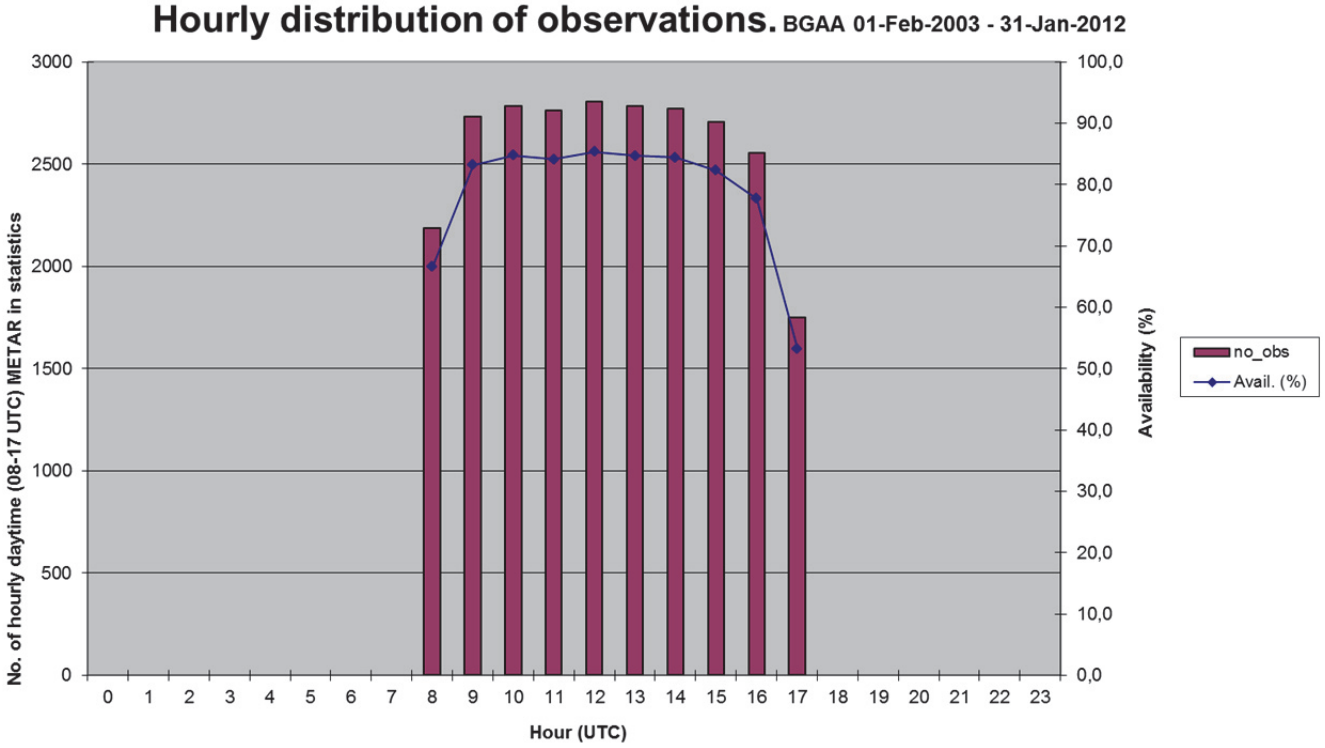


Figure 138. The BGAA observations during the hours 08-17 UTC used in the statistics.

BGAA. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8	,6	,7	,7	,6	,6	,7	,6	,5	1,0	,9
	9	,8	,8	,8	,8	,8	,8	,8	,8	1,0	,9
	10	,8	,8	,8	,8	,8	,8	,8	,9	1,0	1,0
	11	,8	,8	,8	,8	,8	,8	,8	,9	,9	,9
	12	,8	,8	,8	,8	,8	,9	,8	,9	1,0	,9
	13	,8	,8	,8	,8	,9	,8	,8	,9	1,0	,9
	14	,8	,8	,8	,8	,8	,9	,8	,9	1,0	,9
	15	,8	,7	,8	,8	,8	,8	,8	,9	1,0	,9
	16	,7	,6	,7	,8	,8	,8	,7	,8	1,0	,9
	17	,3	,3	,3	,5	,5	,6	,5	,8	,9	1,0
	18	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	19	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	20	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	21	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	22	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	23	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

Table 37. Please note: The BGAA Aasiaat/Egedesminde statistics are daytime only, 08-17 UTC

BGKK Kulusuk

Mittarfik Kulusuk

Location: 65,583°N 37,150°W H: 35 m above msl

BGKK observations in statistics: 24.872 hourly METAR[7] during the hours 08-17 UTC, only, covering the 9 years period 01-Feb-2003 – 31-Jan-2012, yielding an day-time availability of 75,7%.

Please note the low availability and take care accordingly when using the current BGKK weather statistics since the low availability partly results from exclusion of an unusual large number of erroneous or missing automated measurements of visibility and/or cloud cover, indicating what might be a data quality that overall is lower than usual. Also note a lower observations frequency on Sundays and Mondays. E.g. availability of 08-16 UTC BGKK observations Tuesday – Saturday 2003-2011 was 89,7%. Other details are found in the Availability Section.

The BGKK METAR are all manual until 11 June 2005, and partly AUTO METAR since then.

Cross tables Visibility – Ceiling

Winter (Jan-Feb-Mar): BGKK - Frequencies (%) Visibility - Ceiling

No. Obs = 5.381	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,28	1,13	2,68	3,16	3,27	0,28	3,55
<1 km	0,28	1,13	3,10	3,92	4,13	0,43	4,55
<1.5 km	0,28	1,15	3,44	5,15	6,08	0,87	6,95
<3.0 km	0,28	1,17	3,66	6,65	9,40	2,90	12,30
< 5.0 km	0,28	1,19	3,75	7,14	10,96	5,78	16,74
>= 5,0 km or CAVOK	0	0	0,019	0,65	1,88	81,38	83,26
Total	0,28	1,19	3,77	7,79	12,84	87,16	100

Table 38

Spring (Apr-May-Jun): BGKK - Frequencies (%) Visibility - Ceiling

No. Obs = 6.668	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,30	0,66	1,99	2,35	2,46	0,015	2,47
<1 km	0,33	0,72	2,58	3,31	3,43	0,090	3,52
<1.5 km	0,33	0,73	2,82	4,03	4,59	0,19	4,78
<3.0 km	0,33	0,73	3,43	5,19	6,40	1,09	7,50
< 5.0 km	0,33	0,73	3,78	6,24	8,04	2,97	11,01
>= 5,0 km or CAVOK	0	0	0,43	2,46	4,99	84,00	88,99
Total	0,33	0,73	4,21	8,70	13,03	86,97	100

Table 39

[7] For every hourly period max one observation (METAR *or* SPECI) is included, selected as the available METAR *or* SPECI with lowest visibility.

Summer (Jul-Aug-Sep): BGKK - Frequencies (%) Visibility - Ceiling

No. Obs = 7.154	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,25	0,53	1,50	1,57	1,59	0,18	1,78
<1 km	0,25	0,57	1,93	2,08	2,15	0,29	2,45
<1.5 km	0,25	0,57	2,10	2,35	2,49	0,38	2,87
<3.0 km	0,25	0,60	2,78	3,30	3,59	0,80	4,39
< 5.0 km	0,25	0,62	3,15	4,18	5,05	1,98	7,03
>= 5,0 km or CAVOK	0	0	0,42	2,24	5,20	87,77	92,97
Total	0,25	0,62	3,56	6,42	10,25	89,75	100

Table 40

Autumn (Oct-Nov-Dec): BGKK - Frequencies (%) Visibility - Ceiling

No. Obs = 5.669	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,51	1,50	2,43	2,68	2,68	0	2,68
<1 km	0,51	1,55	2,79	3,35	3,40	0,018	3,42
<1.5 km	0,51	1,57	3,09	4,23	4,55	0,23	4,78
<3.0 km	0,51	1,57	3,26	5,26	6,70	1,36	8,06
< 5.0 km	0,51	1,57	3,44	5,80	8,77	3,86	12,63
>= 5,0 km or CAVOK	0	0	0,088	0,71	2,43	84,94	87,37
Total	0,51	1,57	3,53	6,51	11,20	88,80	100

Table 41

Annual: BGKK - Frequencies (%) Visibility - Ceiling

No. Obs = 24.872	<100 feet	<200 feet	<500 feet	<1000 feet	<1500 feet	>=1500 feet, CAVOK or no ceiling	Total
< 800 m	0,33	0,92	2,10	2,38	2,44	0,12	2,55
<1 km	0,34	0,96	2,55	3,10	3,21	0,21	3,41
<1.5 km	0,34	0,97	2,81	3,84	4,30	0,40	4,70
<3.0 km	0,34	0,98	3,26	4,98	6,31	1,46	7,77
< 5.0 km	0,34	0,99	3,51	5,74	7,98	3,50	11,47
>= 5,0 km or CAVOK	0	0	0,26	1,60	3,80	84,73	88,53
Total	0,34	0,99	3,78	7,35	11,77	88,23	100

Table 42

Wind direction histograms

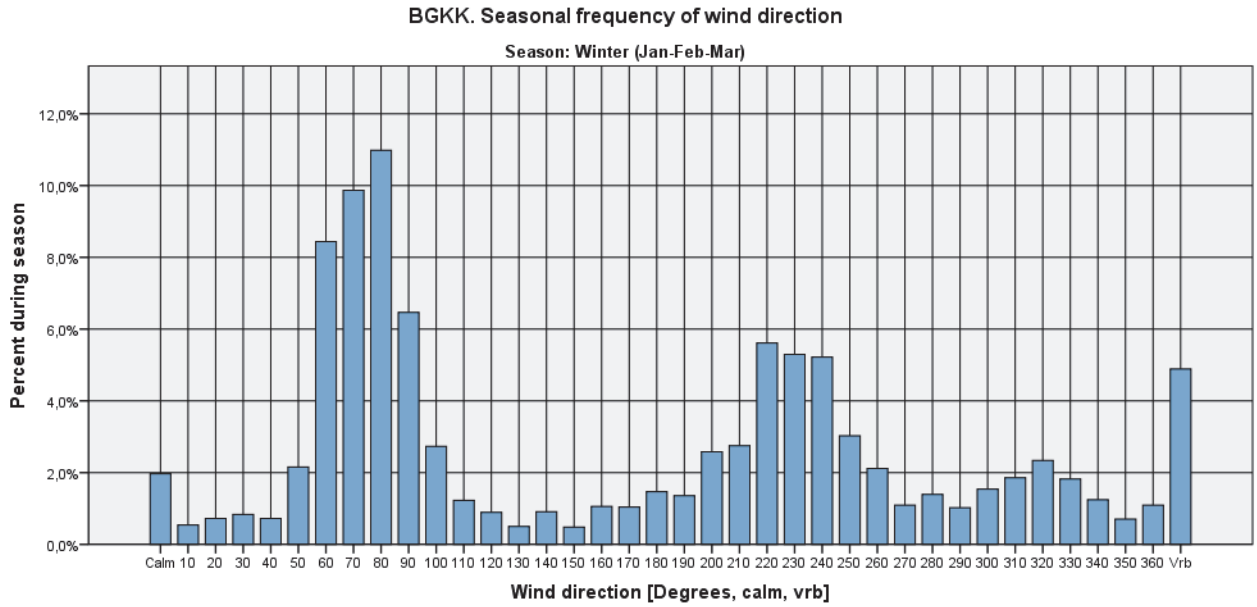


Figure 139

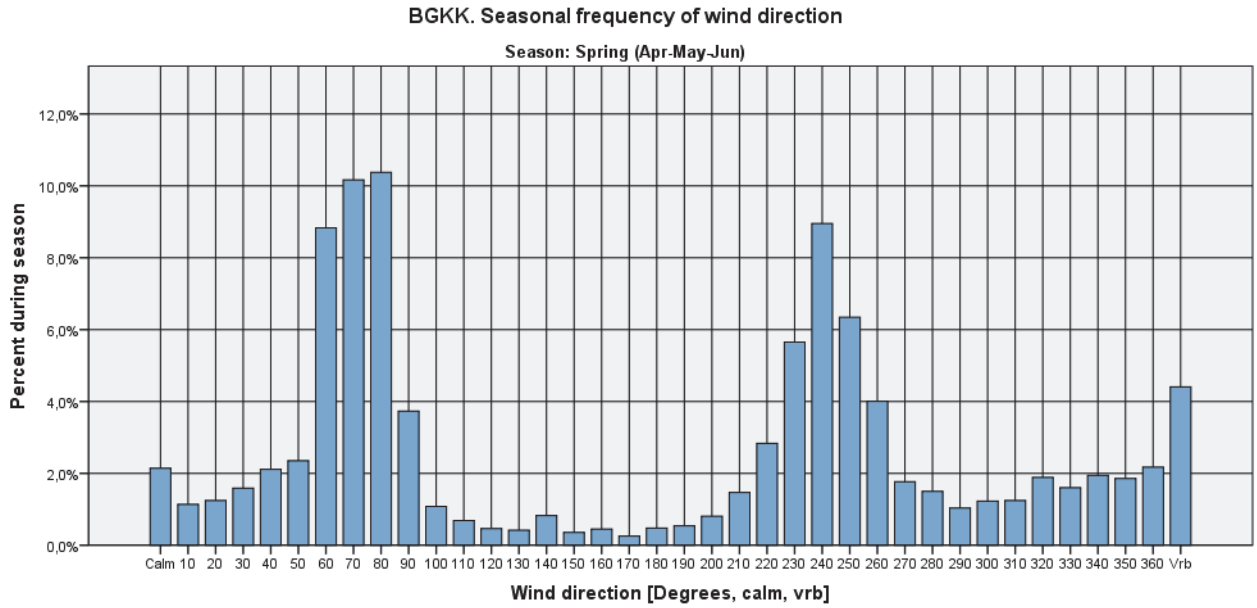


Figure 140

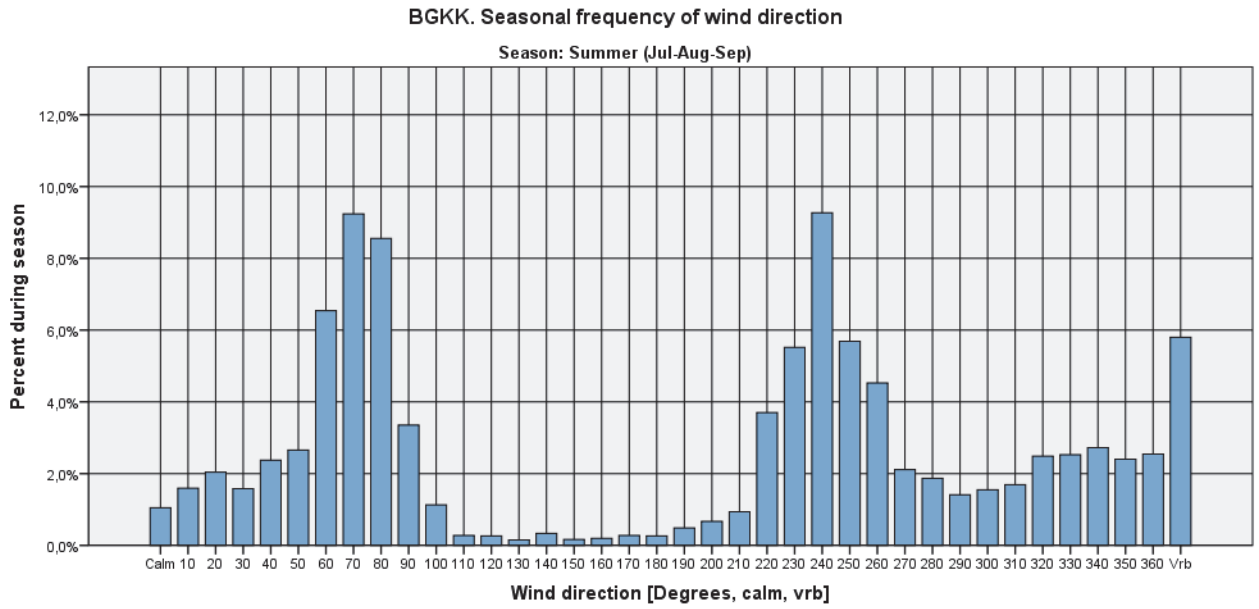


Figure 141

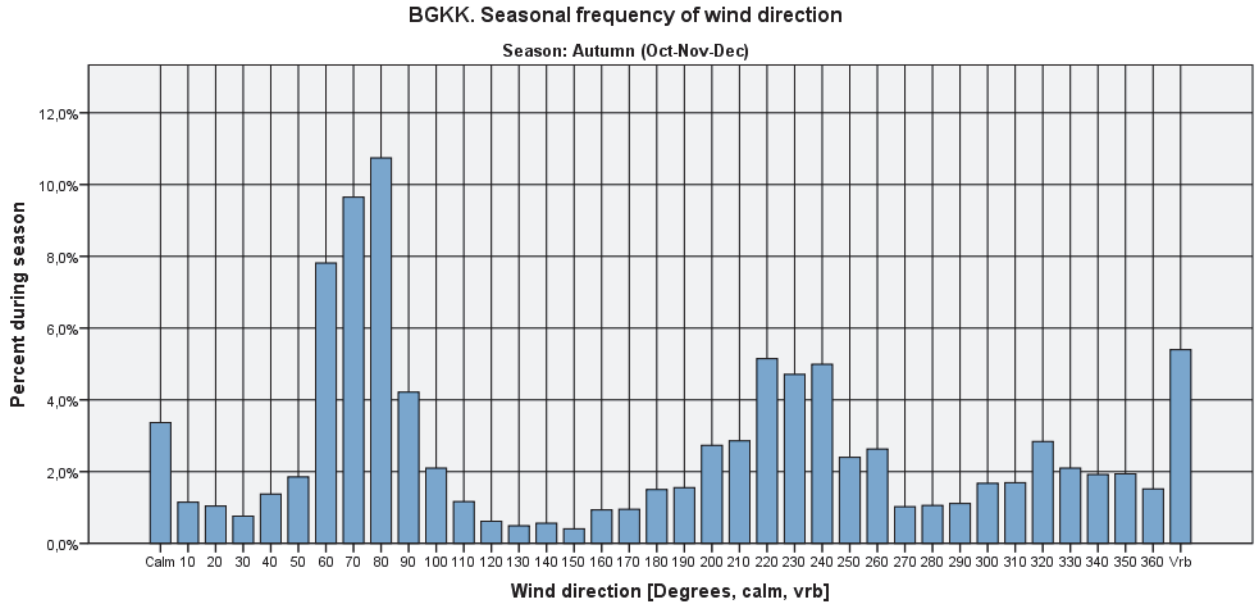


Figure 142

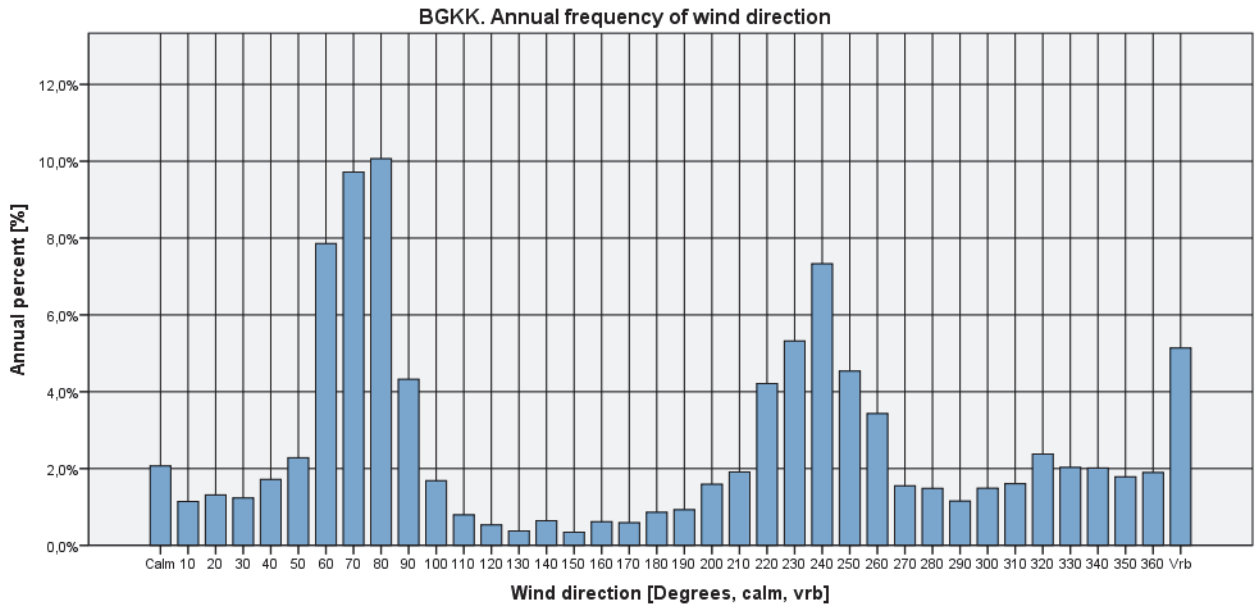

BGKK. Annual frequency of wind direction
Annual percent [%]
12,0%
10,0%
8,0%
6,0%
4,0%
2,0%
0,0%
Calm 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 Vrb
Wind direction [Degrees, calm, vrb]

Figure 143

Visibility criteria on wind direction histograms

Visibility<1000 m

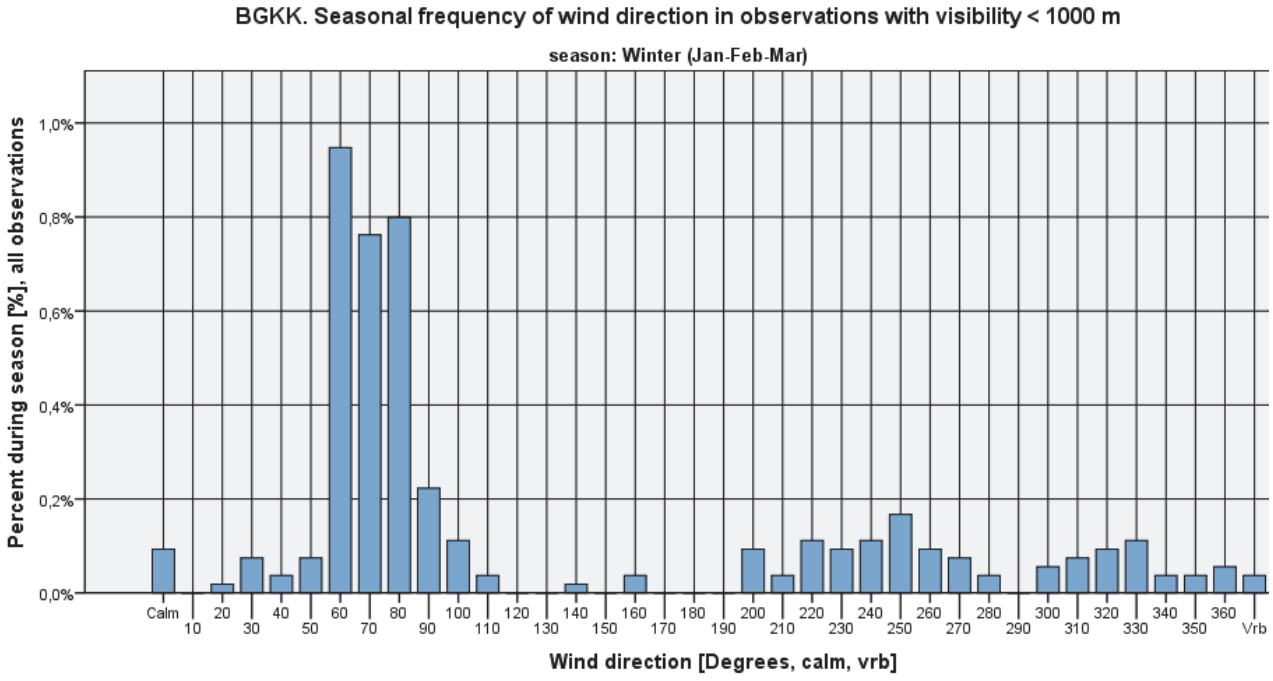


Figure 144

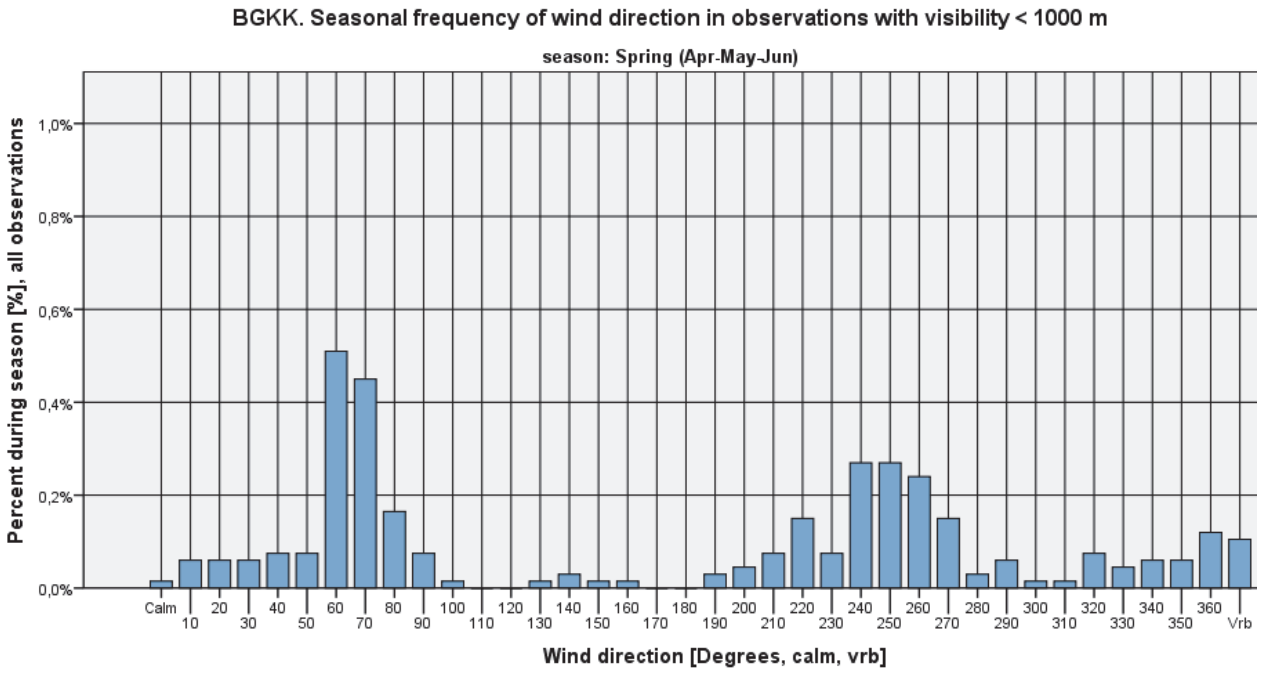


Figure 145

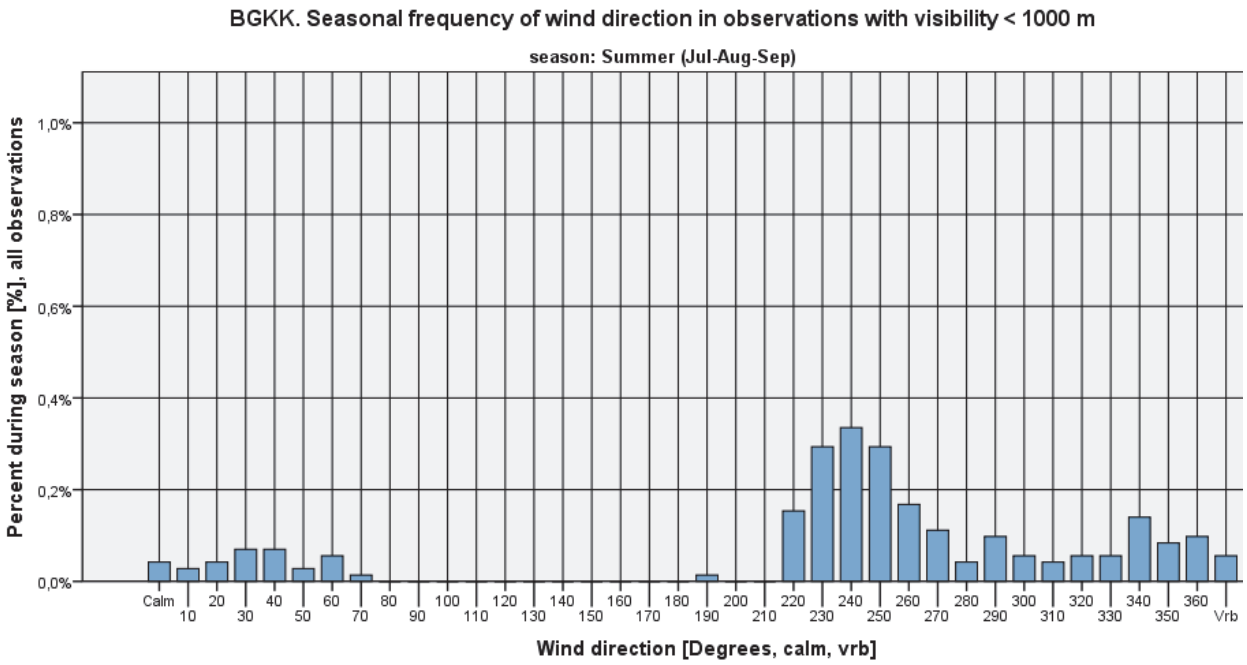


Figure 146

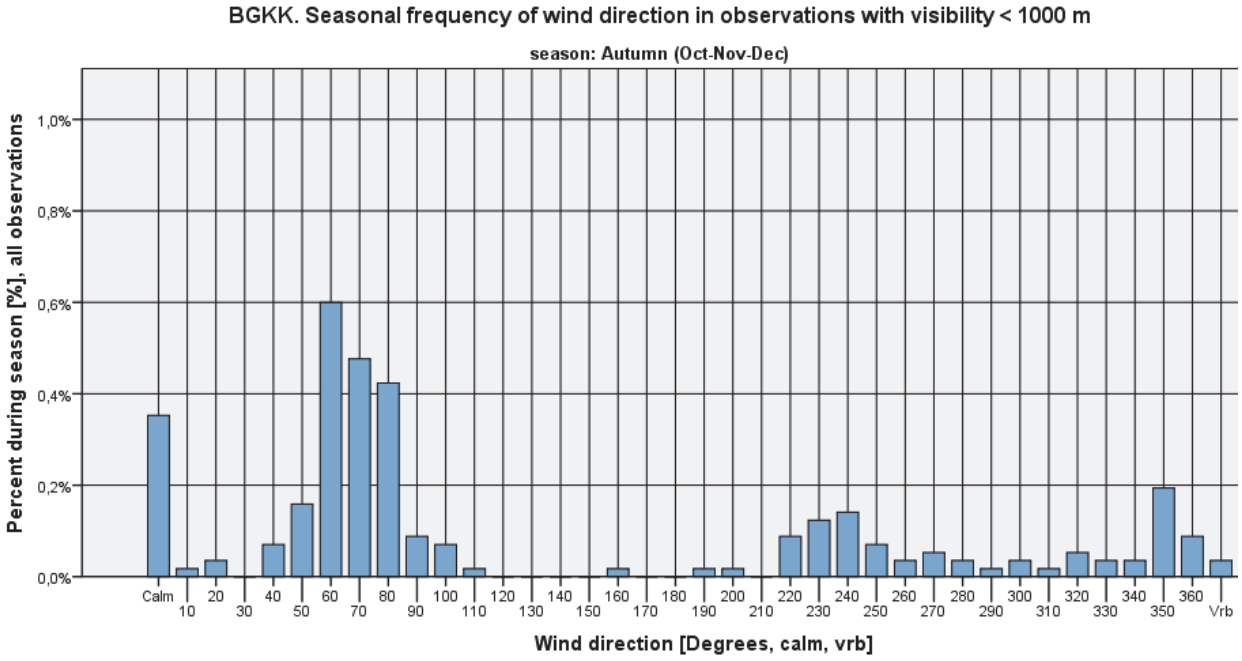


Figure 147

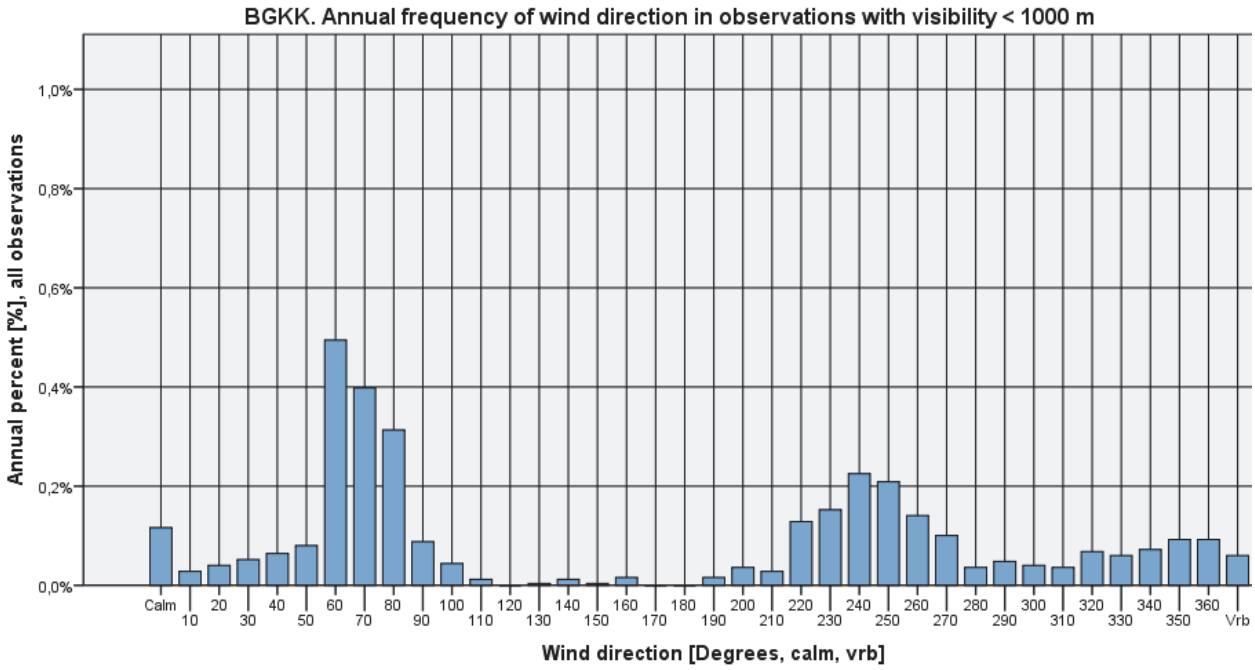

BGKK. Annual frequency of wind direction in observations with visibility < 1000 m
Annual percent [%], all observations
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 148

Ceiling criteria on wind direction histograms

Ceiling<1000 feet

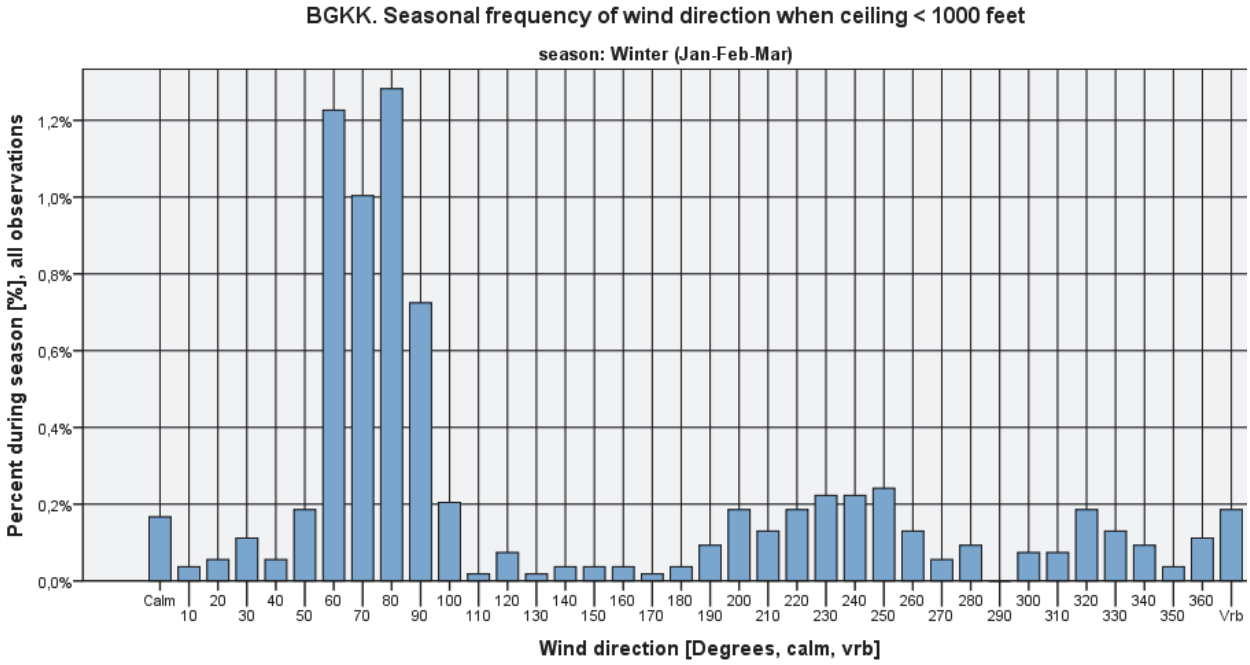


Figure 149

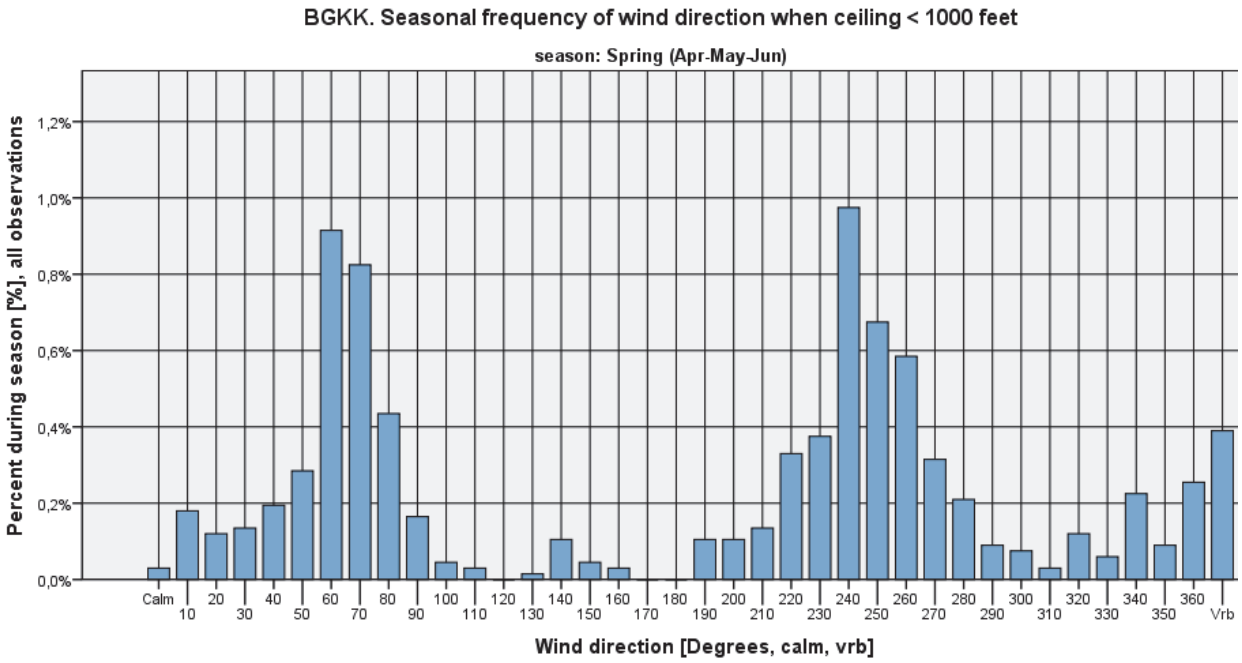


Figure 150

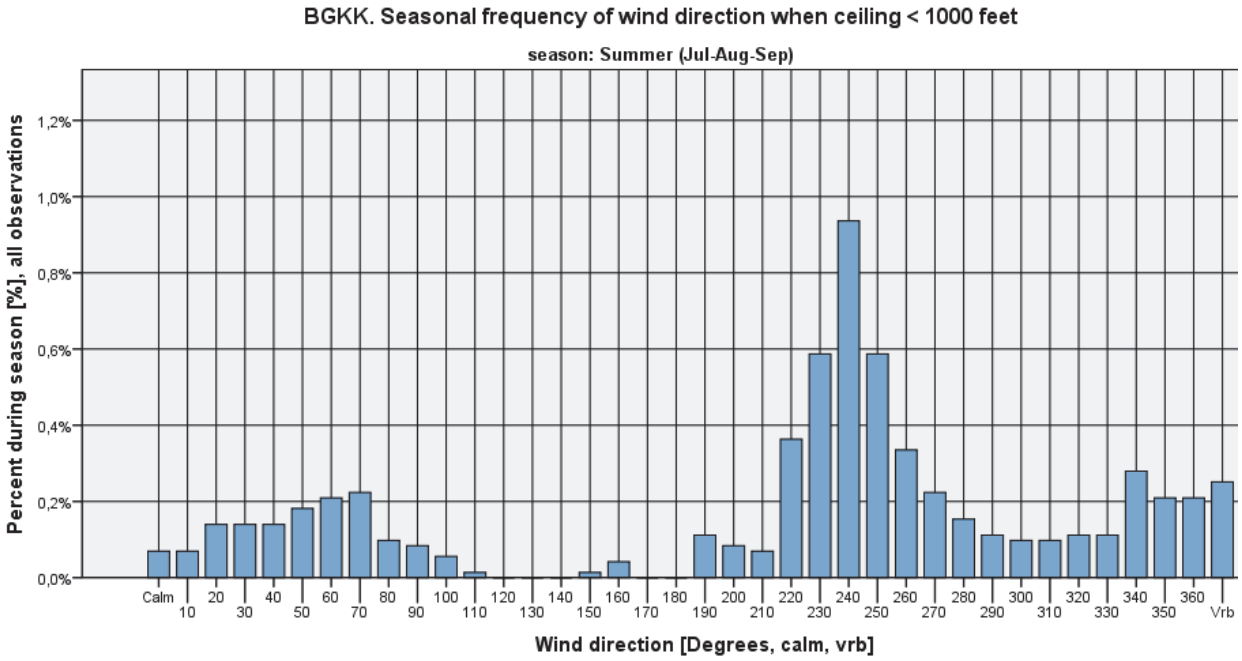


Figure 151

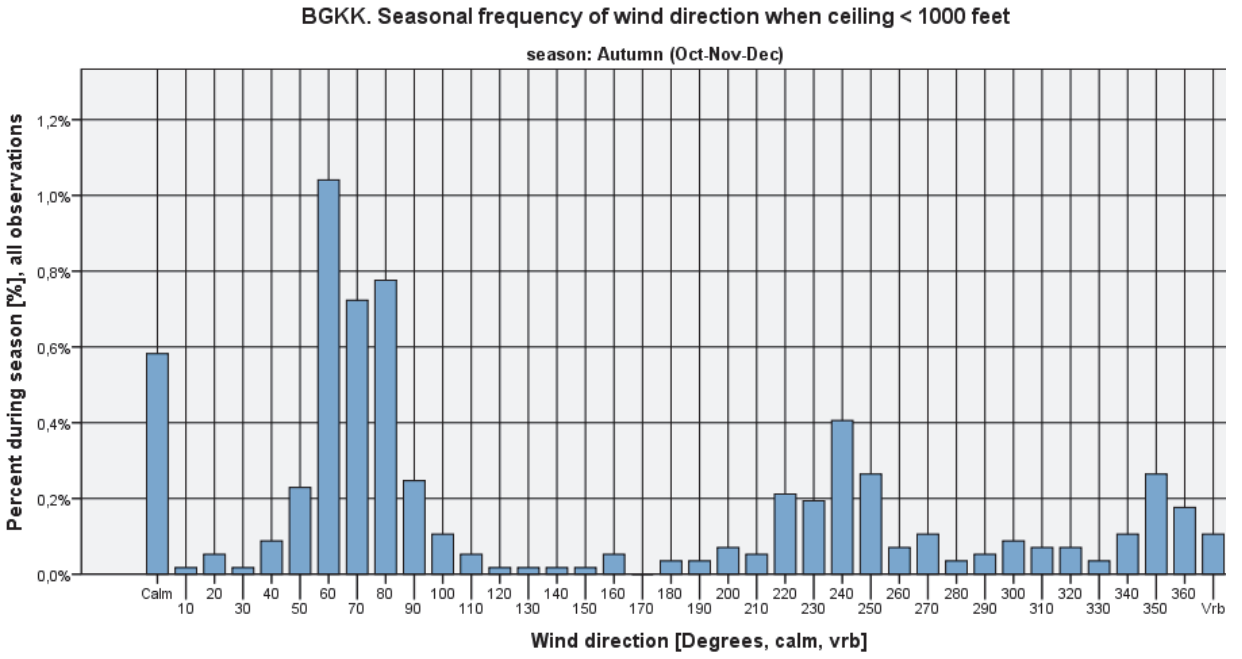


Figure 152

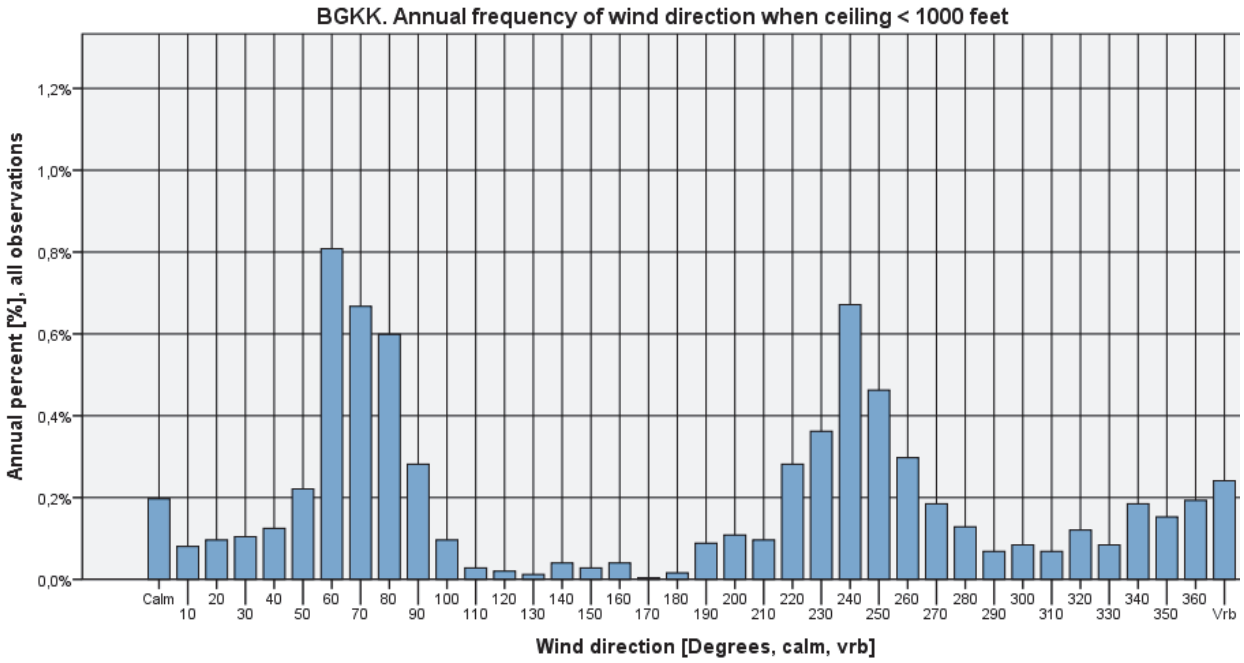

BGKK. Annual frequency of wind direction when ceiling < 1000 feet
Annual percent [%], all observations
1,2%
1,0%
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 153

Ceiling<500 feet

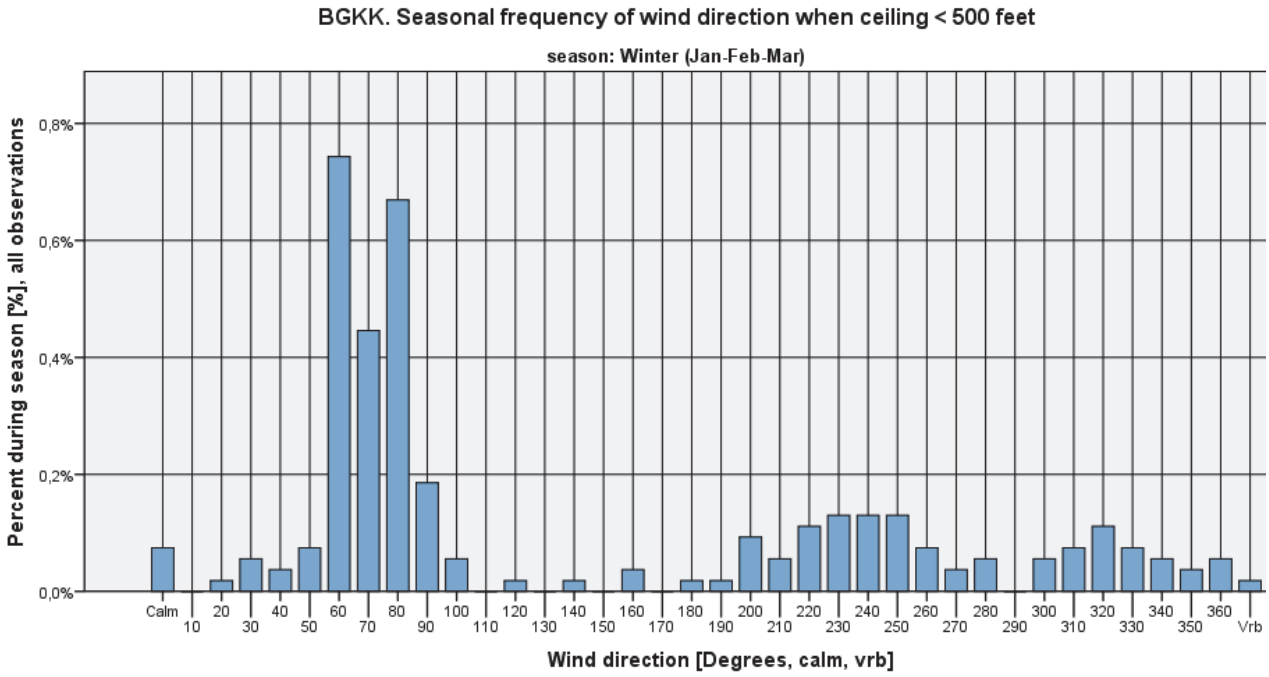


Figure 154

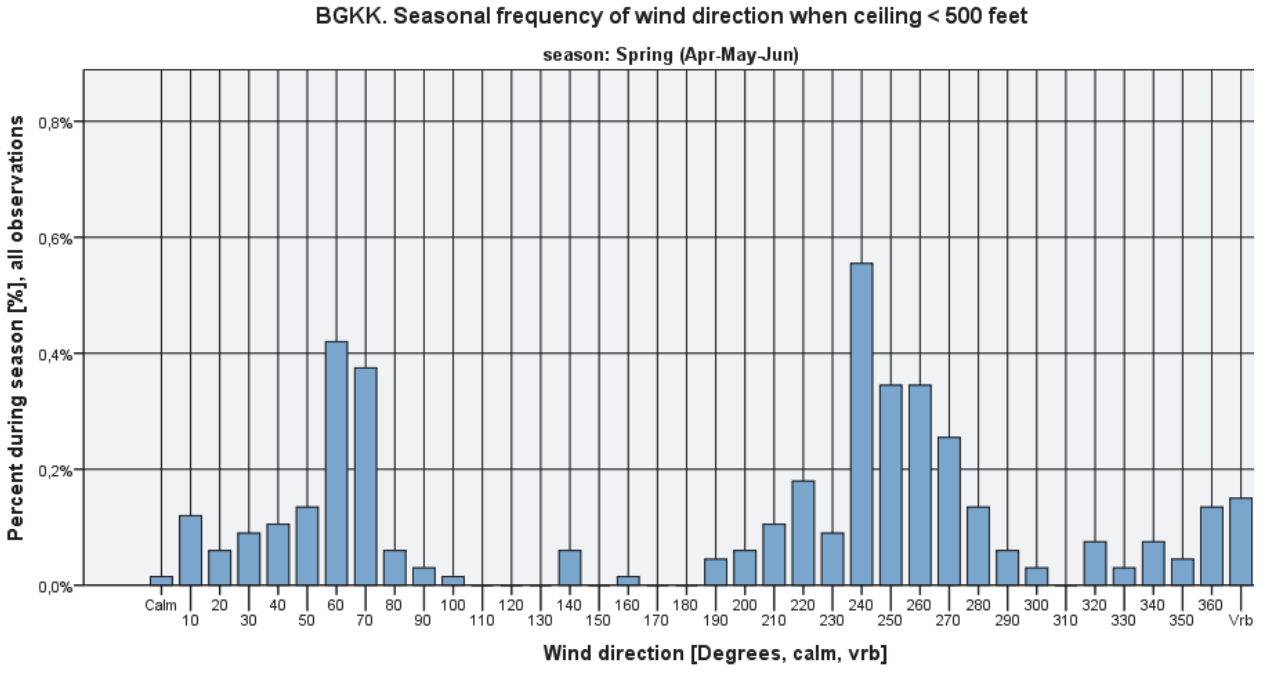


Figure 155

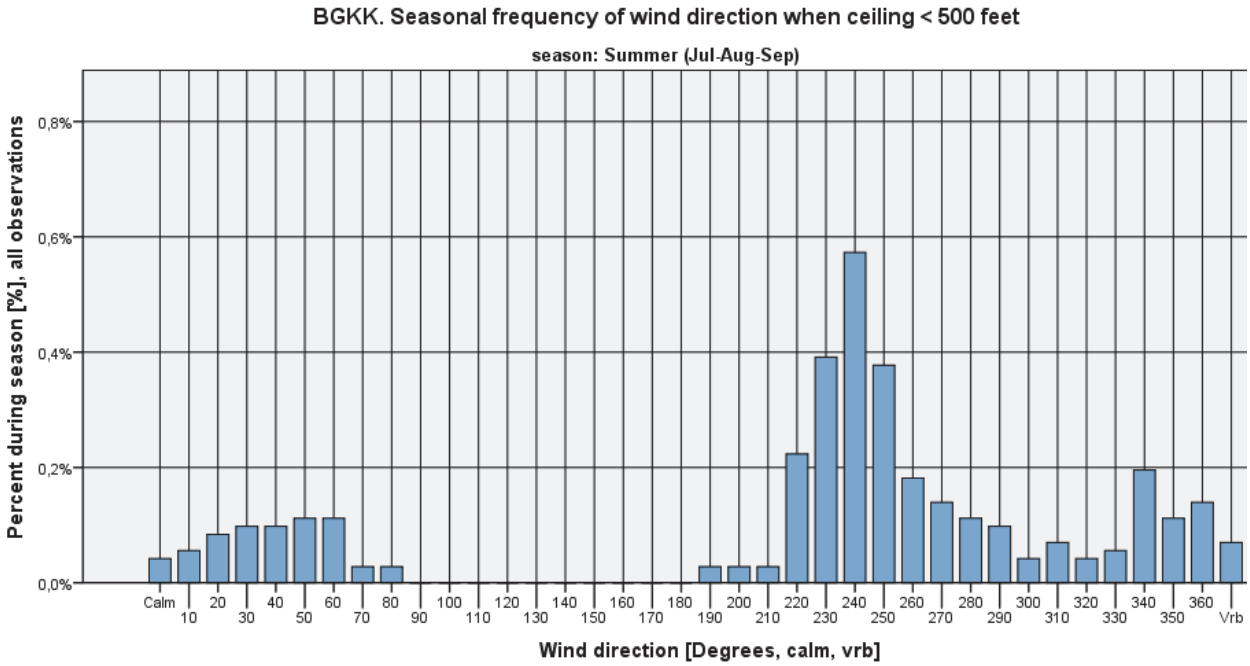


Figure 156

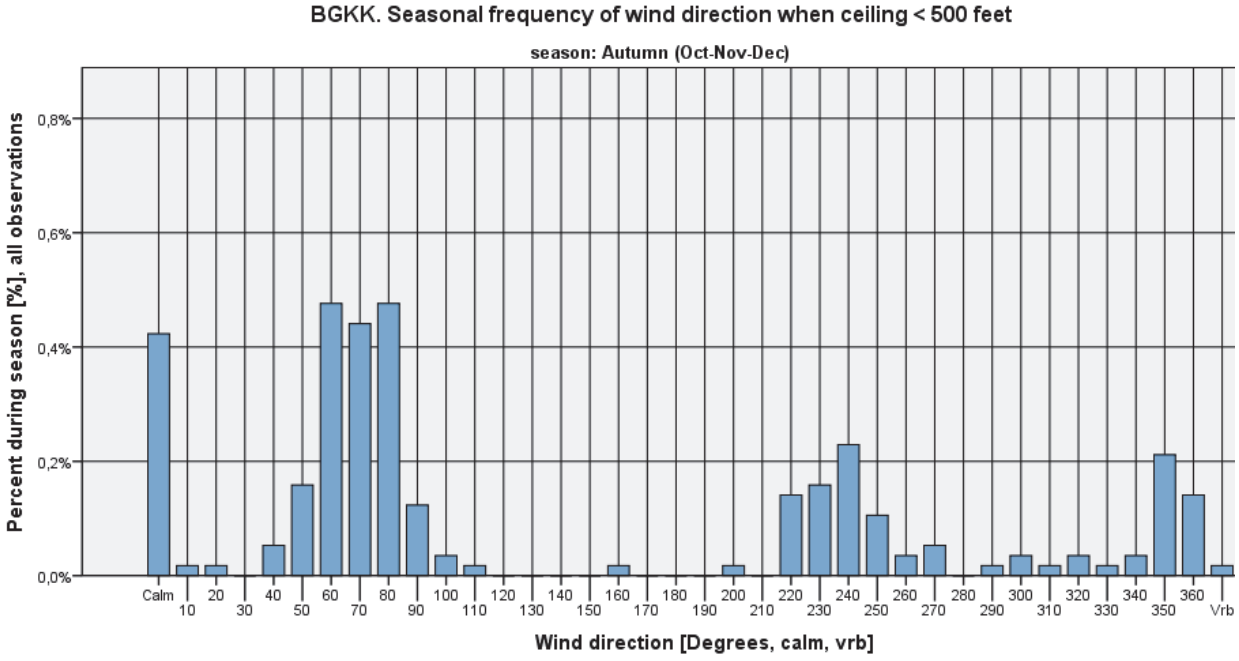


Figure 157

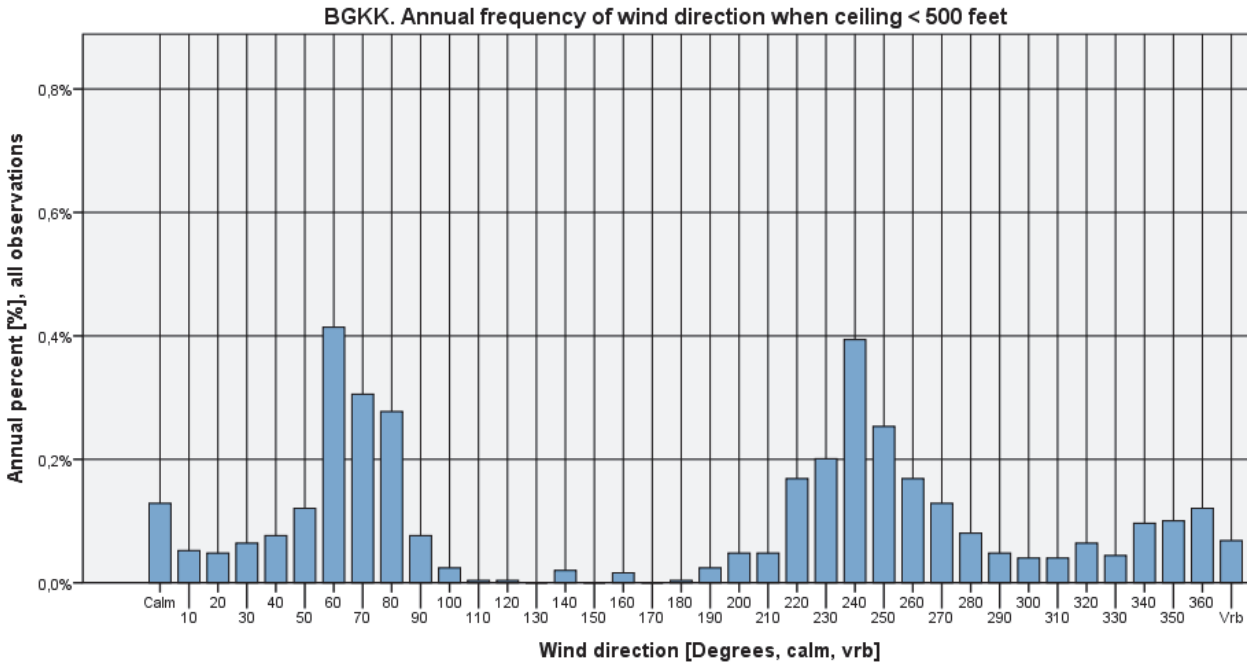
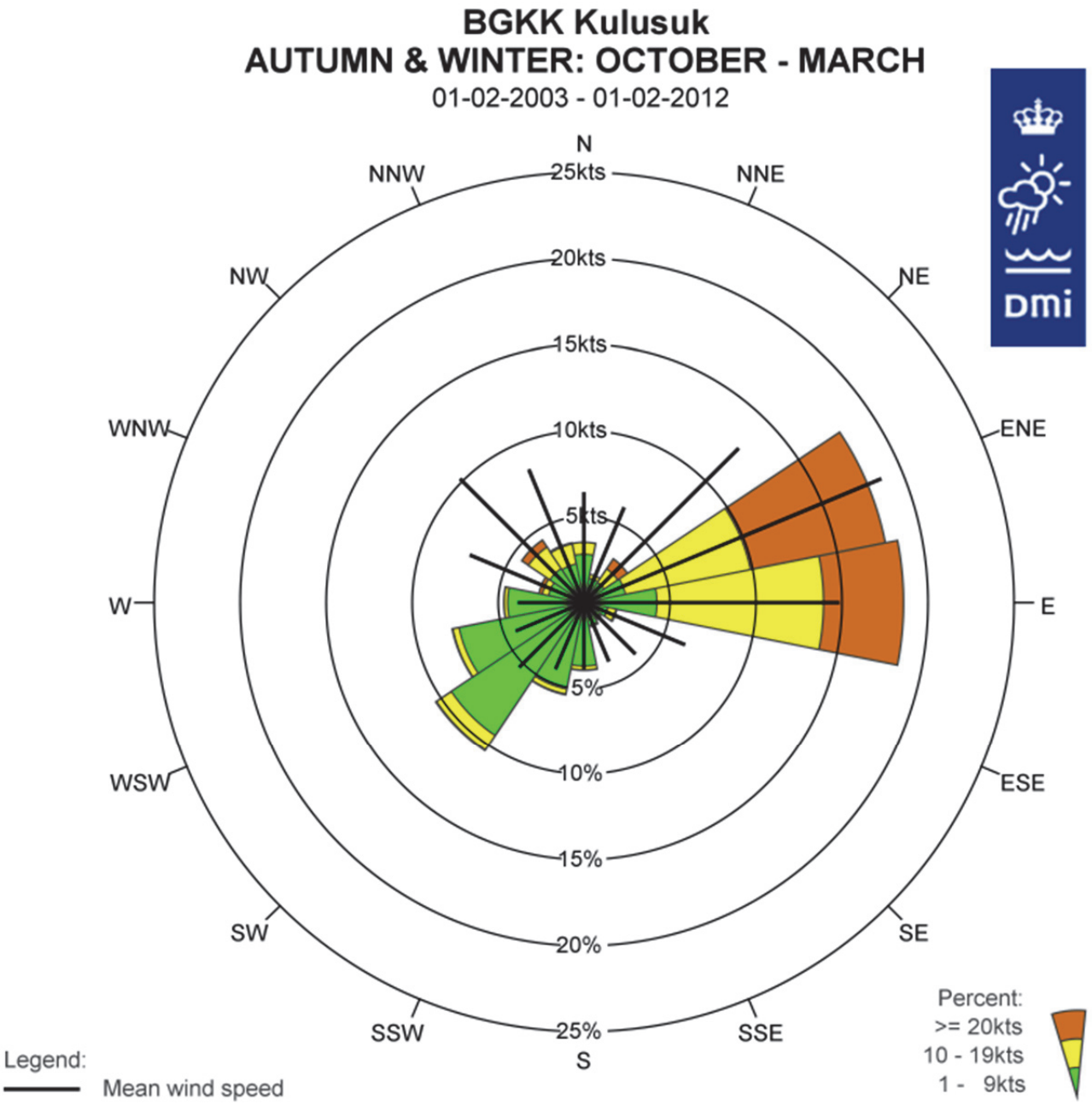

BGKK. Annual frequency of wind direction when ceiling < 500 feet
Annual percent [%], all observations
0,8%
0,6%
0,4%
0,2%
0,0%
Calm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
360
Vrb
Wind direction [Degrees, calm, vrb]

Figure 158

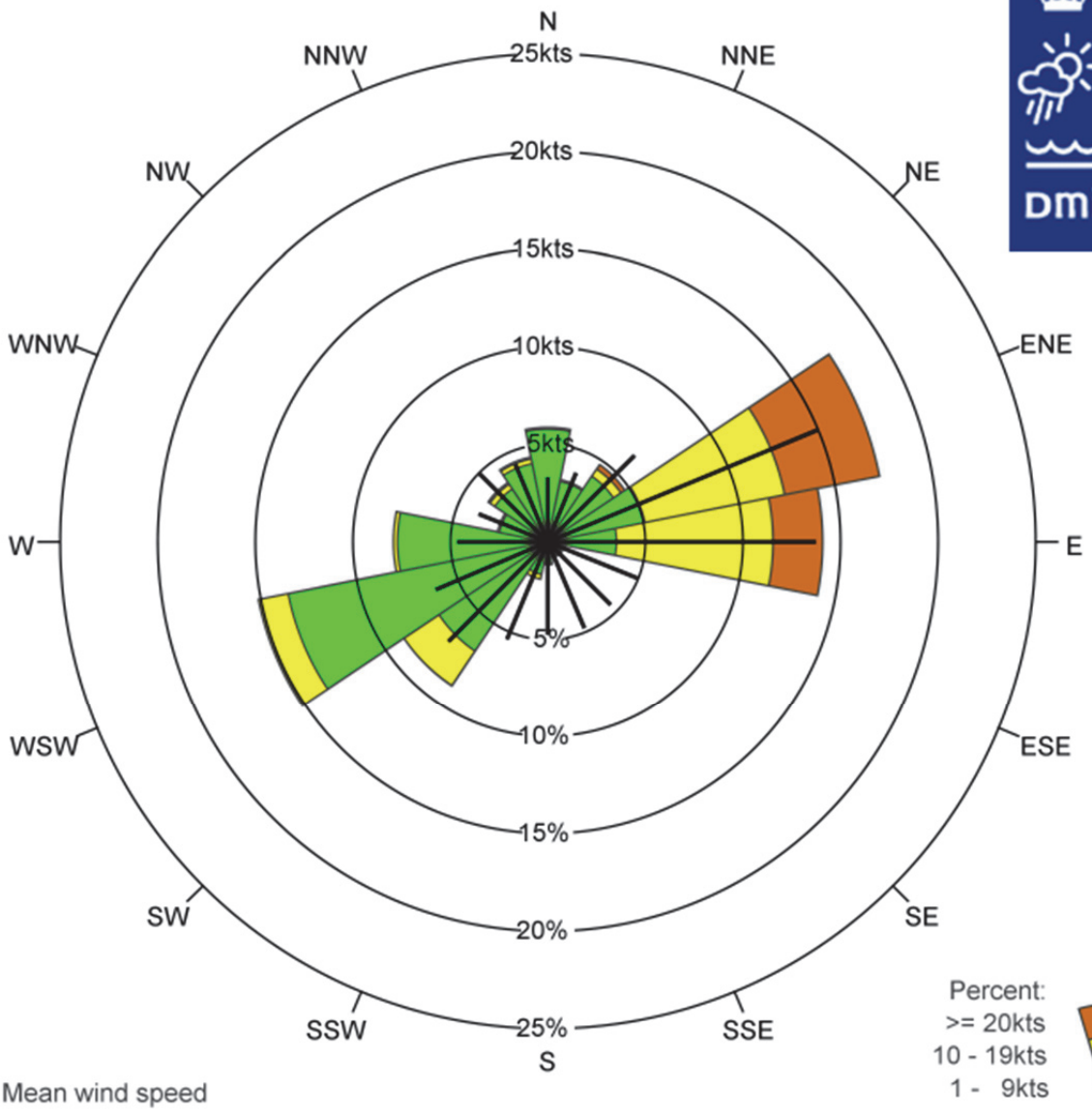
Wind roses



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	3.5	1.7	3.1	17.9	18.6	1.9	1.2	1.4	3.9	5.5	10.4	7.8	4.7	2.7	4.4	3.6	92.2
% 1 - 9kts	2.8	1.4	1.4	2.5	4.2	1.4	1.1	1.4	3.7	5.1	9.3	7.4	4.4	2.1	2.4	2.3	53.0
% 10 - 19kts	0.7	0.2	1.0	7.4	9.7	0.5	0.1	0.1	0.2	0.3	1.0	0.4	0.2	0.4	1.5	1.2	24.9
% >= 20kts	0.0	0.0	0.7	8.0	4.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.1	14.3
Mean wind speed	6.5	6.0	12.8	18.7	14.9	6.4	4.2	3.7	3.9	4.3	5.3	4.3	3.9	7.2	10.1	8.4	10.3
Max wind speed	18.0	26.0	37.0	48.0	42.0	25.0	17.0	16.0	24.0	22.0	23.0	21.0	28.0	44.0	37.0	26.0	48.0

Number of observations = 11050
Source: DMI
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 866=7.8%
Observations with calm/varying wind direction are not used in the statistics

BGKK Kulusuk
SPRING & SUMMER: APRIL - SEPTEMBER
01-02-2003 - 01-02-2012



	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
%	5.9	3.2	4.8	17.3	14.1	0.8	0.9	0.6	1.2	1.9	8.9	15.1	7.9	2.6	3.7	4.4	93.3
% 1 - 9kts	5.8	3.2	4.0	5.1	3.5	0.7	0.8	0.5	1.0	1.7	6.7	13.6	7.7	2.5	3.3	4.1	64.2
% 10 - 19kts	0.1	0.1	0.4	7.3	8.0	0.1	0.1	0.1	0.1	0.3	2.1	1.5	0.2	0.1	0.3	0.3	21.1
% >= 20kts	0.0	0.0	0.3	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	8.0
Mean wind speed	3.3	3.8	6.3	15.0	13.8	5.1	4.5	4.8	4.8	5.4	7.2	6.2	4.6	3.8	5.0	4.3	8.4
Max wind speed	18.0	17.0	45.0	48.0	45.0	35.0	14.0	13.0	15.0	16.0	20.0	20.0	17.0	24.0	31.0	25.0	48.0

Number of observations = 13822
Calm defined a wind speed = 0kts
Number of observations with calm/varying wind direction: 927=6.7%
Observations with calm/varying wind direction are not used in the statistics

Source: DMI

Availability

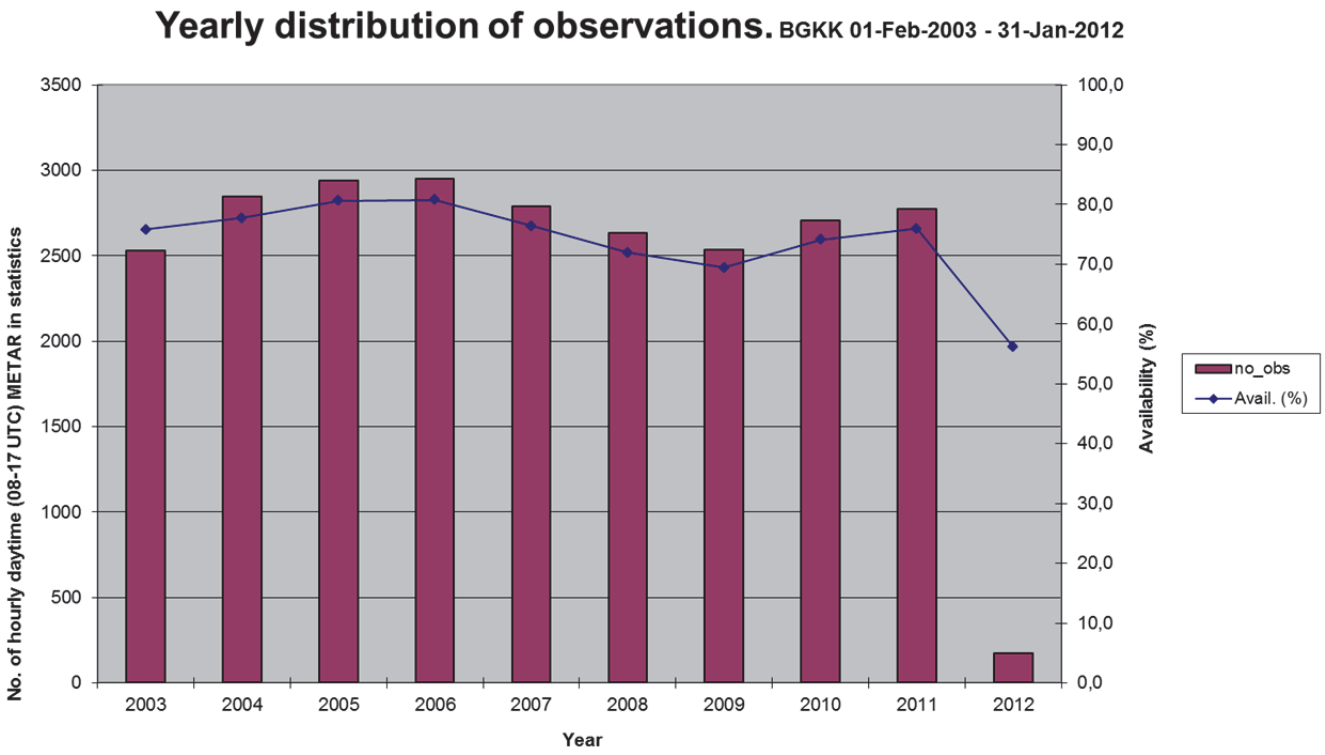


Figure 159

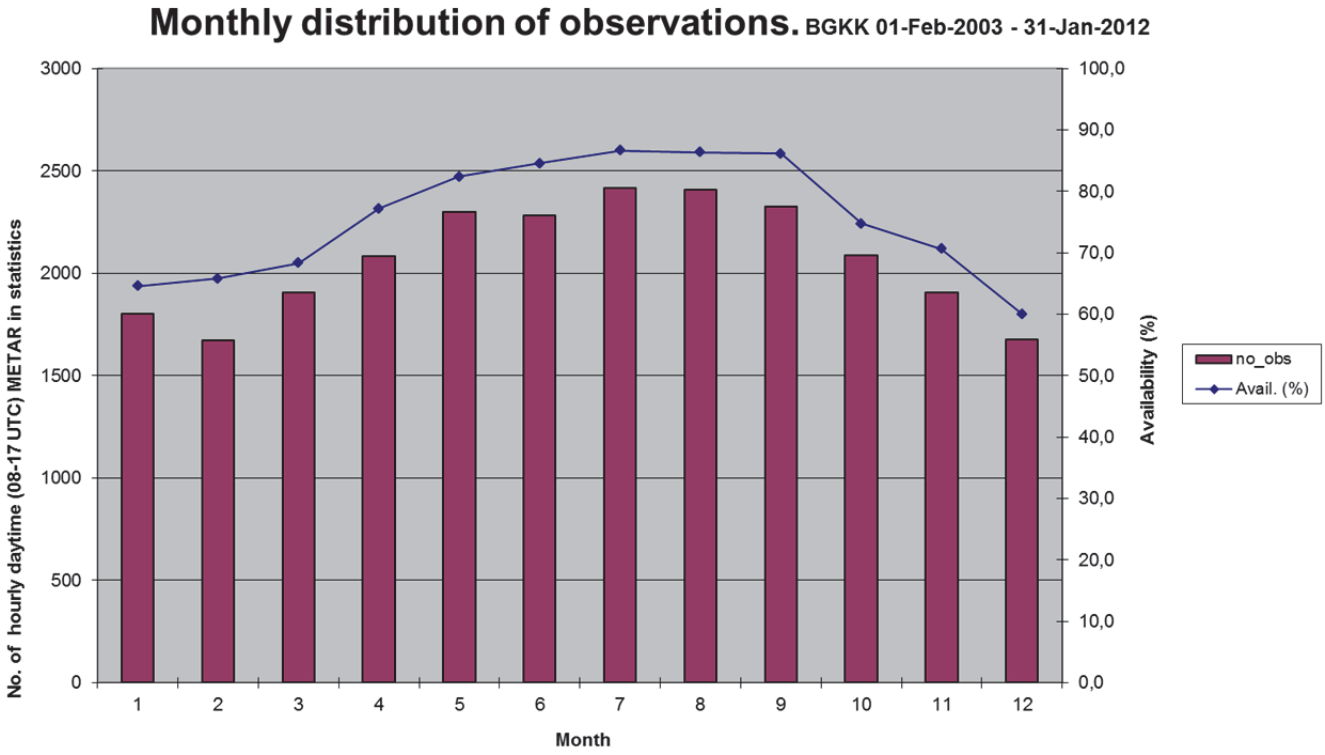


Figure 160

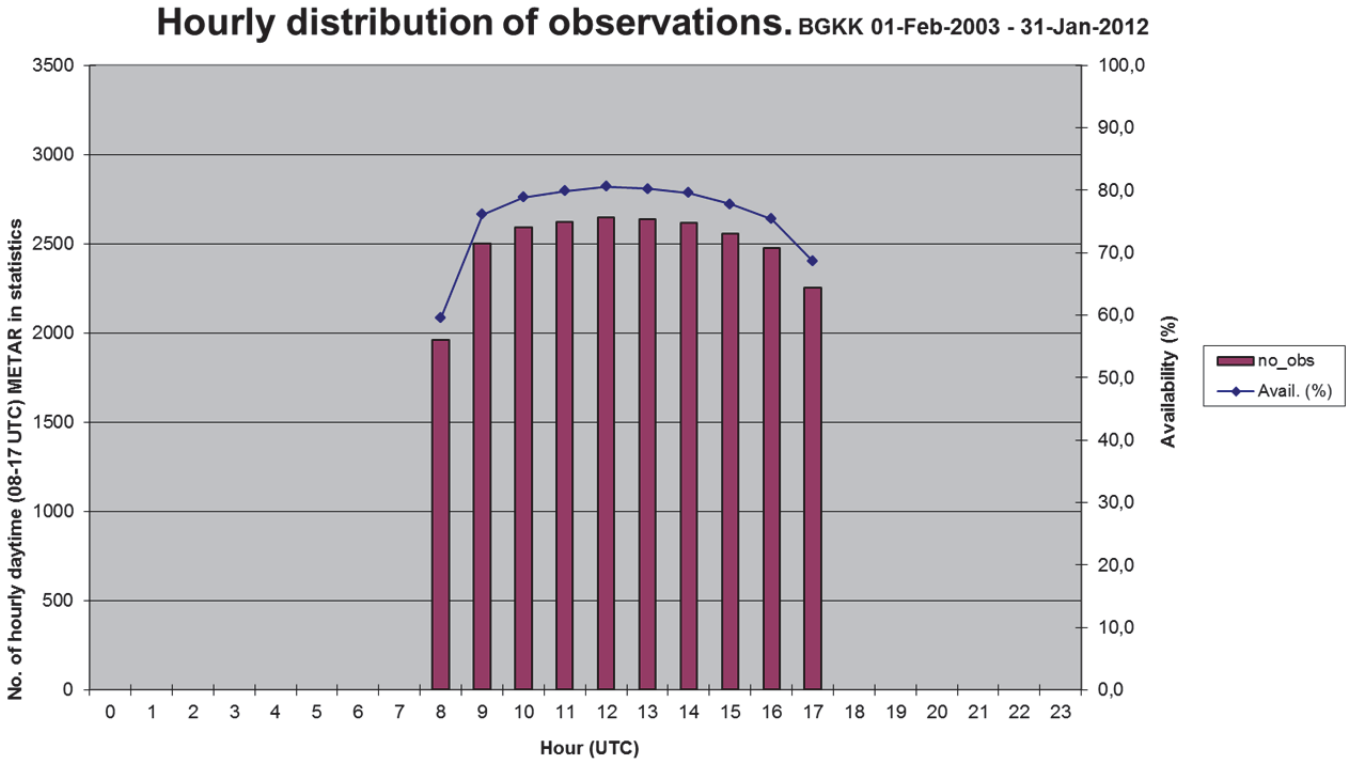


Figure 161

BGKK. Average no. of hourly observations in statistics, 1 February 2003 - 31 January 2012

		year									
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hour (UTC)	0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	2	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	5	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	7	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	8	,7	,7	,8	,7	,5	,5	,5	,5	,5	0,0
	9	,8	,8	,8	,8	,8	,7	,7	,8	,8	,5
	10	,8	,8	,8	,8	,8	,8	,7	,8	,8	,7
	11	,8	,8	,8	,8	,8	,8	,8	,8	,8	,7
	12	,8	,8	,8	,8	,8	,8	,8	,8	,8	,6
	13	,8	,8	,8	,9	,8	,8	,7	,8	,8	,6
	14	,8	,8	,8	,8	,8	,8	,7	,8	,8	,7
	15	,7	,8	,8	,8	,8	,7	,7	,8	,8	,7
	16	,7	,8	,8	,8	,8	,7	,7	,7	,8	,6
	17	,6	,7	,7	,8	,7	,6	,6	,6	,7	,5
	18	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	19	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	20	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	21	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	22	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	23	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

Table 43. Please note: The BGKK Kulusuk statistics are daytime only, 08-17 UTC

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