Arbeitsbericht

MeteoSchweiz
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Autoren
Christoph Schmutz
Daniela Schmuki
Olivier Duding
Simon Rohling

209 Aeronautical Climatological Information Sion LSGS

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Bestelladresse:
Bundesamt für Meteorologie und Klimatologie (MeteoSchweiz)
Office fédéral de météorologie et de climatologie (MétéoSuisse)
Ufficio federale di meteorologia e climatologia (MeteoSvizzera)
Uffizi federal per meteorologia e climatologia (MeteoSvizra)
Federal Office of Meteorology and Climatology (MeteoSwiss)

MeteoSchweiz
Krähbühlstrasse 58
Postfach 514
CH-8044 Zürich

Telefon +41 1 256 91 11
Telefax +41 1 256 92 78
info@meteoschweiz.ch
www.meteoschweiz.ch

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Introduction

This report „Aeronautical Climatological Information Sion LSGS" may only be used by:

- Civil aviation airlines operating flights to or from Sion aerodrome including their administrative services as well as their crews
- Private pilots and crews operating flights from or to the aerodrome
- Operative and administrative services of the aerodrome
- Aeronautical administration

This report is not intended for any other commercial use than aviation. The above defined users shall receive the right to apply the service solely for their own use and for aeronautical purposes. The users shall ensure that no unauthorised use of the services takes place. The "General Terms and Conditions for Standard Range of Services" of MeteoSwiss apply.

The report provides all climatological information required for the long term planning of flight operations in Sion. In part A the reader gets introduced to the geographical setting of the aerodrome, the important meteorological patterns of the region with notes and basic interpretation of the data. Information about the main weather patterns bases on the "Klimaatlas der Schweiz" (MeteoSwiss 1984, 1991, 1995) and the tables of this report. In part B the data is presented mainly in form of tables and graphics, allowing a direct view of the information.

The statistics were established following the ICAO recommendations on aeronautical climatological information (Convention on International Civil Aviation, Annex 3), but is more detailed and enriched with additional information.

The data is based on half-hourly (XX20 and XX50) METAR (Aviation Routine Weather Report) collected on a span of 10 years between

January 1993 and December 2002.

The METAR from 18 to 04 UTC are usually missing due to the regular night break of the observer. This report contains only information about the period from 04 to 18 UTC. Each table or graphic contains the NA (not available) values of missing METAR. Depending on the operational opening hours of the aerodrome, the amount of NA values between 16 and 06 UTC is quite considerable. The amount of NA reflects also the fact that not all half-hourly METAR are issued on a regular basis. The statistics are influenced by the reporting practises at Sion.
All time information is given in UTC.
An index with the used abbreviations can be found on page 73

No climatological conclusions in a scientific sense should be drawn of the tables and graphics contained in this report, since the raw METAR data might not satisfy climatological requirements.

We would like to thank the following persons and institutions for their help and contributions:

Karl Heinz Hack, Sandro Buss, Adrian Scherzinger, Mark Huber, Martin Peter, Marcel Haefliger, Markus Aebischer
(all MeteoSwiss)
and
René Sieber
Institute of Cartography
ETH Hoenggerberg

A Climatology

1. GEOGRAPHICAL SETTING

1.1. Overview Switzerland

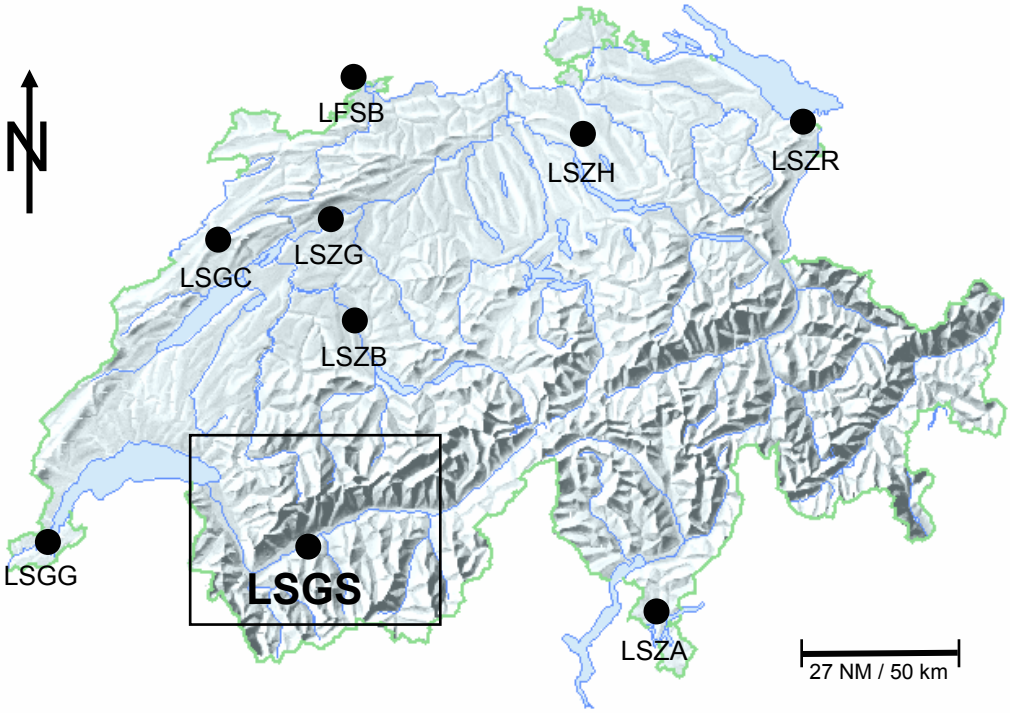
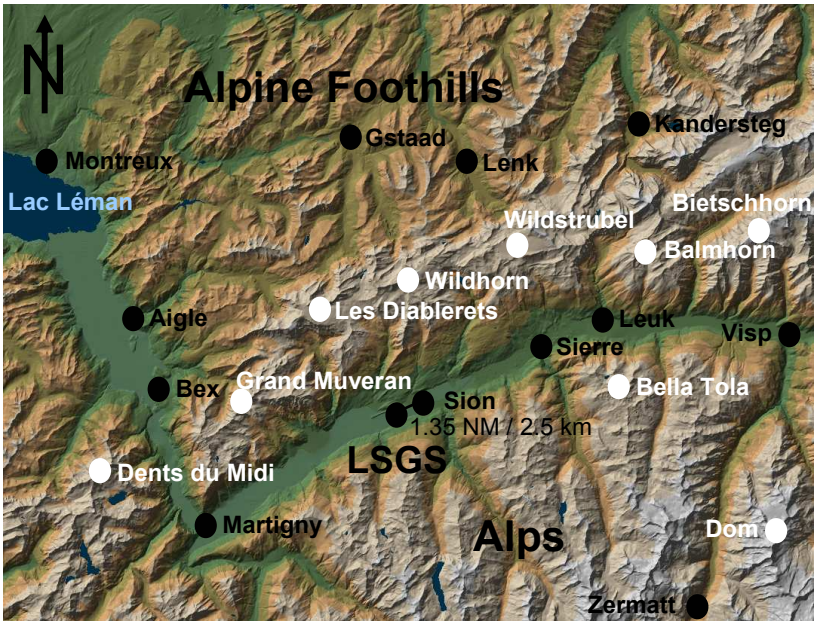


Figure 1: Most important airports of Switzerland

1.2. Overview Region Sion

Sion aerodrome (official elevation 1581 ft / 482 m) is located 1.35 NM / 2.5 km south-west of Sion (see figures 1 and 2).
It is situated in the Valais, the long valley of the river Rhone which starts at the Rhone Glacier and reaches down to Lake of Geneva. South of the main valley there are important side valleys. Sion aerodrome is situated in the main valley. To the north and the south the Alps rise. The wind gets canalised in two preferred directions in the Rhone valley: West and east. Due to the special meteorological condition of a separated valley in the Alps, the Valais has got a continental climatic regime: Very dry during the whole year, hot in summer and cold in winter.



Important Mountains in the Region:

Dom	14911 ft / 4545 m
Bietschhorn	12906 ft / 3934 m
Balmhorn	12136 ft / 3699 m
Dents du Midi	10686 ft / 3257 m
Wildhorn	10656 ft / 3248 m
Wildstrubel	10643 ft / 3244 m
Les Diablerets	10531 ft / 3210 m
Grand Muveran	10010 ft / 3051 m
Bella Tola	9924 ft / 3025 m

Figure 2: 3 D map of the Sion region
© Atlas of Switzerland – interactive 2000

2. METEOROLOGICAL PATTERNS

2.1. Westerly Flow

2.1.1. Synoptic Overview and Associated Weather

Westerly flow is the dominant one among the four flow or advection patterns described here. This is true in respect of frequency and wind speed. The westerly flow pattern is typically associated with the frequent changes from warm to cold air masses and vice versa, which is connected to the passages of frontal zones. The activity depends on the wind speed, the humidity of the air mass and its stability, as well as the altitude and the structure of the mountain range, the air mass is flowing across. The eastern part of the northern alpine ridge is especially exposed to the changeability of this flow pattern. The south side of the Alps enjoys a certain protection during the whole year, the south-western part of Switzerland and the Valais only in the summer.

2.1.2. Season of Encounter

This pattern may appear at any time of the year, but is more frequent during the winter season than in summer. The reason for this is the more frequent development of heavy depressions in the colder seasons due to an increase of the temperature difference between warm and cold air masses at the Polar Front.
The weather is usually unsettled and windy (even sometimes with gales from October to March), due to the succession of warm and cold fronts with dry intervals in between. In March and April westerly flow brings characteristically unstable weather. In western Switzerland, westerly winds are less frequent than in eastern Switzerland because of the flow split of the northerly wind (Alps act as barrier).

2.1.3. Local Weather Phenomena

Front Passes over Cold Air Pool of the Rhone Valley
In winter, after a period of high pressure, a shallow layer of cold air forms on the Rhone Valley. The westerly flow regime starts then with the arrival of a low pressure system and its first front (usually a warm front), preceded by westerly winds. It first passes over the pool of cold air in the Rhone Valley, and starts to entrain the cold air by turbulent mixing from the top downwards. When the frontal precipitation falls into the old humid and cold air mass, the visibility may drop from 2000 - 3000 m to 1000 m or even below. After the passage of the warm front the visibility increases only slightly. After the following cold front the visibility is usually very good.

Freezing Rain
The rather rare occurrence of freezing rain is associated with two situations: 1) The one just described in the paragraph above: Temperatures below the freezing point in the thin cold air layer near the ground and very high freezing level in the warm air above. 2) Warm fronts: Freezing rain can occur when the temperature difference between the lower cold air and the upper warm air masses is high enough.
In Sion freezing rain is very rare, there is only one observation in the 10 years period.

Snow
In situations of a warm front with a low freezing level (2500 – 4000 ft / msl), precipitation frequently starts as snow, passes through the cold air mass below and reaches the ground in this form. With the approaching warm front the freezing level rises and after 2 – 3 hours snow turns into rain.
In Sion snowfall occurs usually from November to April with a maximum in January and February.

Thunderstorm
In summer the Alps reinforce the thunderstorm activity along a cold front coming in from the west. While the thunderstorms are especially active in the mountains, they may also affect the area of the airport in the valley.

2.1.4. Aviation Hazards

- Low ceiling and poor visibility within the frontal zones with onset of precipitation
- Turbulence and icing conditions in clouds
- Wind shear in frontal zones
- Gusts in passing cold fronts
- Snowfall (when temperatures are low enough)
- Rare cases of freezing rain, depending on the vertical temperature structure
- Post frontal weather conditions are very unsteady with gusts and rapid changes between good and bad conditions
- Possibility of embedded CB`s in cold fronts (rarely in warm fronts)
- Alps and Jura obscured by clouds
- Crosswinds behind the cold fronts at airports near the Jura (Joran wind)

2.2. Northerly Flow

2.2.1. Synoptic Overview and Associated Weather

The northerly flow pattern combines air mass advection from the north-west and north. Typical for this situation is the marked difference in the type of weather between the western and eastern parts as well as between the northern and southern parts of Switzerland. On the continental and the regional scale the northern and the eastern areas of Europe are influenced by more cloudy and rainy weather (cyclonic character). The western and southern parts benefit from the influence of the following anticyclone, because these parts are further away from the dominating depression. In addition to that, the southern regions are favourably influenced by the leeward down draught (Foehn) from the mountain range. Below 2000 m a flow split into north-east (Bise) in the west and into north-west in the east of the Swiss Plateau is observed.

2.2.2. Season of Encounter

This pattern is more frequent in winter and spring, often occurs after a westerly flow and usually leads to a north-easterly flow regime (Bise). It normally lasts between 5 and 7 days, especially in summer and autumn periods of only 3 days are possible.

2.2.3. Local Weather Phenomena

Barrier Clouds and Precipitation along the northern mountain range
Due to the barrier effect of the Alps the northerly flow gets blocked over the Swiss Plateau, the pressure increases and the air mass rises over the Alps.
Sion airport is located on the leeward side of the high peaks of the Bernese Alps and is thus in a protected situation. This makes the pattern less intense since a katabatic wind effect tends to evaporate some of the precipitation and decreases the cloudiness in this region. Therefore, the weather in the valley is often fine with a well-developed valley wind.

Northerly Foehn
The Foehn wind is caused by the pressure gradient between the northern (higher due to barrier effect) and southern part of the mountain range. The Alps disappear in clouds. In southern Switzerland severe clear air turbulence occur and the dry leeward down draught (Foehn wind) brings warm weather south of the Alps associated with low-level wind gusts.
In the Valais and in Sion this influence is less marked. However, at higher levels turbulence is observed.

2.2.4. Aviation Hazards

- North of the Alps:
  - Poor visibility, low ceiling (400 – 800 ft / grd) and precipitation
  - Icing conditions in clouds
  - Mountains obscured by clouds
  - Heavy snowfall for several hours between November and April
- South of the Alps:
  - Severe turbulence over and south of the mountains
  - Low-level wind gusts

2.3. Easterly Flow

2.3.1. Synoptic Overview and Associated Weather

The easterly flow pattern develops after a significant pressure gradient from north-east to south-west across the Alps has been built up. In Switzerland the type of weather connected with this situation has usually an anticyclonic influence. However, in cases of a northern position of an active Mediterranean depression, cyclonic influence is dominating. The plains on either side of the Alps may be under a cover of low stratus combined with a persistent inversion and dry, subsiding air above the low clouds (elevated fog or stratus). The continental easterly wind called Bise accelerates over the Swiss Plateau between the Jura and the Alps and achieves its maximum speed at the bottleneck of Geneva. However, Bise is not exclusively associated to an easterly flow.

2.3.2. Season of Encounter

This pattern is very frequent in winter and spring, rarely occurs in summer and can last for several days. It is less frequent than western, northern or southern flow.
Because of the flow split the Bise is more frequent in the western part of Switzerland.

2.3.3. Local Weather Phenomena

Elevated Fog
In late autumn and winter the typical situations with elevated fog or stratus up to 2000 m / msl occur in the cold air pool of the Swiss Plateau. The Bise gets canalized between the Jura and the Alps. The stratus may even enter sometimes the Rhone Valley. Usually it dissipates rather quickly during the day.

Wind shear, turbulence
Above 2000 to 3000 m / msl, the mean wind direction is northeast. Below, the local wind systems are dominating the wind regime during situations with an easterly flow weather pattern. This is due to the special (protected) situation of the Rhone Valley in the Swiss Alps. The gusty valley wind (25 to 30kt) during daytime with a south-westerly direction and the north-easterly wind aloft leads to wind shear and turbulence.

2.3.4. Aviation Hazards

- Strong winds and turbulence near the ground especially in western Switzerland and Geneva area
- Elevated fog: - Poor visibility below the stratus layer
  - Often closed cloud layer over the Swiss Plateau
  - Gaps in the cloud layer may close again quite rapidly

2.4. Southerly Flow

2.4.1. Synoptic Overview and Associated Weather

Southerly flow patterns are considerably rarer than the northerly ones that also belong to the meridional flow types. The activity of the southerly flow pattern is sustained by a surface depression over the eastern Northatlantic and western Europe. The west to east direction of the Alps causes the development of Foehn winds on the leeward side combined with a strong pressure gradient from south to north. Foehn situations are often associated with the southerly flow. The usually dry and rather often sunny “Foehn weather” to the north of the alpine ridge is in striking contrast to the humid weather along the southerly slopes of the Alps. There is also a subtype of the Foehn situation which is restricted to the typical Foehn valleys within the Alps when the pressure gradient is not too accentuated.

2.4.2. Season of Encounter

The southerly flow pattern is very frequent in autumn, less frequent in winter and spring, but sometimes occurs even in summer. Since Foehn winds may also develop in other synoptic situations like south–easterly and westerly flow patterns or in a low pressure system, southerly Foehn winds are more frequent than just the southerly flow patterns.

2.4.3. Local Weather Phenomena

Southerly Foehn
With southerly flow the alpine ridge acts like a barrier. That causes clouds and precipitation on the windward side and a so called Foehn wall forms in the region of the mountain crest. In the Foehn valleys it is mostly warm, windy and dry with high visibility.
When the pressure gradient is big enough, the warm and dry Foehn influences the Rhone Valley. Approaching fronts from the west usually are slowed down and the sky keeps relatively clear.
The region of the airport Sion experiences gusts of up to 50 kt.
Due to a stable layer close to the ground the Foehn sometimes does not reach the runway during the night and morning. But only a few hundred feet above the runway a strong southerly flow is maintained. With degrading stability during the day or with increasing wind speed the Foehn at the airport Sion may “break in” severely.

Turbulence
Turbulence and lee waves occur and can also reach the wider region of the airport. Attention must be paid to severe turbulence and down draft.

High Temperatures
The warm and dry Foehn wind increases the temperatures north. There are higher temperatures measured in Sion than south of the Alps. This might affect the performance of the engines.

2.4.4. Aviation Hazards

- South of the Alps:
  - Very low ceiling, poor visibility, persistent precipitation, icing conditions in clouds
  - Thunderstorms with associated heavy turbulence in summer
  - Mountains obscured by clouds
- North of the Alps:
  - Lee waves, turbulence
  - Wind shear when the dry warm Foehn wind flows over the cold air pool of the Swiss Plateau or when the Foehn gets weak by the approaching front in the west
  - High temperatures reduce engine performance

2.5. Flat Pressure Pattern

2.5.1. Synoptic Overview and Associated Weather

Flat Pressure Pattern with Thermal Thunderstorms
Flat pressure leads to a weak or inexistent synoptic flow. In contrary to the anticyclonic regime there is only little or no subsidence, which leads to a high chance of convection. In the indifferent situation of this pattern the weather shows a distinct diurnal variation: after sunshine during the first half of the day, deep convection clouds are building up, but not exclusively in mountainous terrain. Thermal thunderstorms are induced. Winds aloft carry the upper sections of convective clouds away from the place of formation. Thunderstorms induced by these thermal and orographic conditions show an irregular pattern in the distribution of the total amount of precipitation. Great differences may be observed within a distance of only a few kilometres!

Flat Pressure Pattern with Frontal Thunderstorms
The continuous warming of the land mass in flat pressure situations increases the temperature difference between the continent and the adjacent sea surface. This creates a pressure gradient between the continent and the ocean. In summer this repeatedly leads to outbreaks of cool and moist maritime air masses towards the Alps. With reference to the similar but more pronounced situation in southern Asia, the above development has been named 'European Summer Monsoon'. Thunderstorms which develop in the immediate vicinity of such an outbreak of cold air are called frontal thunderstorms. If the passage of the cold front happens to coincide with the time of greatest diurnal warming or just after, the activity of the frontal thunderstorms is again increased.

2.5.2. Season of Encounter

Synoptic situation with a small horizontal surface pressure gradient over large parts of a continent are most frequent during the summer, since temperature differences between polar and tropical region are smallest in this particular season. This pattern usually lasts for several days.

2.5.3. Local Weather Phenomena

Convection
During hot days a lot of warm air bubbles are lifted and rise up to the condensation base, where they turn into cumulus clouds. Below the convection clouds moderate to severe turbulence with strong vertical winds occur. Cumulus congestus may rise quickly up to the tropopause. Typically cumulonimbus capillatus (CB) with anvil produce thunderstorm. As a rule-of-thumb, the difference between dew-point and temperature multiplied by 400 equals the cloud base height in feet.

Thunderstorm
Thermal thunderstorms occur due to convection at the end of the day while frontal thunderstorms happen at any time of the day. Very heavy thunderstorms are the result of a line of frontal thunderstorms which reach a convecting air mass during the late afternoon in summer. Thunderstorms are accompanied with different aviation hazard, such as heavy rain and fog with reduced visibility. Occasionally precipitation also falls in the form of hail which can damage the structure of an airplane. Wind shear, strong gusts and strong up and down draughts occur near the thunderstorm.
In Sion thunderstorms occur from May to August and are most frequent in July between 15 and 18 UTC.

High Temperatures
This weather pattern is normally accompanied by very high temperatures in summer. The density of hot air decreases and this leads to a dangerous decrease of the engine performance.

2.5.4. Aviation Hazards

- Thunderstorm:
  - Heavy rain with reduced visibility and rapid cooling
  - Severe wind shear and gusts in proximity of thunderstorms
  - Sudden gusts up to 60 kt
  - Lightning
  - Hail in strong thunderstorms
  - Outflow of cold air associated with sudden change of the wind regime at distant places from the active thunderstorm
  - Microbursts (very strong and small scaled outflow of cold air usually associated with CB's)
- Visibility frequently reduced due to haze
- High temperatures reduce engine performance

2.6. High Pressure Pattern

2.6.1. Synoptic Overview and Associated Weather

This pattern normally produces favourable conditions for the aviation because of the influence of an anticyclone with strong subsidence. That sinking process increases the temperatures of the air masses due to compression. The relative humidity decreases and clouds dissolve. Warm anticyclones are accompanied by distinct flow patterns aloft. On continental scale this prevents cyclones and frontal zones to enter regions with anticyclones.

High Pressure Pattern in Summer
The atmospheric pressure is higher than the average values and only few convective clouds are produced. The convective clouds are mostly limited to mountainous regions. Over the Alps of Switzerland a thermal low can be observed. It is caused by the excessive heating of alpine air during the day in comparison with air over the plain at the same height. The daytime heating is clearly stronger on the valley bottom than at higher levels.
In this season the Azores high can also expand up to central Europe and guarantees high temperatures and clear sky for several days or even weeks.

High Pressure Pattern in the Colder Seasons
From November to March maintained anticyclonic conditions repeatedly occur over the continent. After several days of subsidence a very strong temperature inversion is formed, which is a few hundred meters thick. The negative radiation balance of the surface during the winter half year prevents the subsidence from reaching the lowest atmospheric layer.

2.6.2. Season of Encounter

High Pressure Pattern is observed at any time of the year and can last between one day and several weeks. They usually last longer in summer and winter, because approaching deep Atlantic cyclones in spring and autumn degrade the ridge of the high pressure. In summer this pattern often degenerates to a flat pressure pattern with air mass thunderstorms.

2.6.3. Local Weather Phenomena

Radiation Fog
In the colder seasons during clear and calm nights a radiation deficit occurs over the ground due to the negative long wave radiation budget. Temperature over the ground decreases as a consequence.
In the lower level of the Rhone Valley, fog is observed rarely. It is restricted to the cold season and usually dissipates quickly after sunrise.

High Temperatures
This weather pattern is normally accompanied by very high temperatures in summer. The density of hot air decreases and this leads to a dangerous decrease of the engine performance, too.

2.6.4. Aviation Hazards

- High temperatures reduce engine performance
- Haze reduces visibility in summer
- Isolated thunderstorms in summer when the anticyclone weakens by surface heating
- Radiation fog, fog patches and mist decrease visibility in autumn and winter
- Radiation fog can occur quite quickly and decrease visibility to 100 – 1000 m

B Tables and Graphics

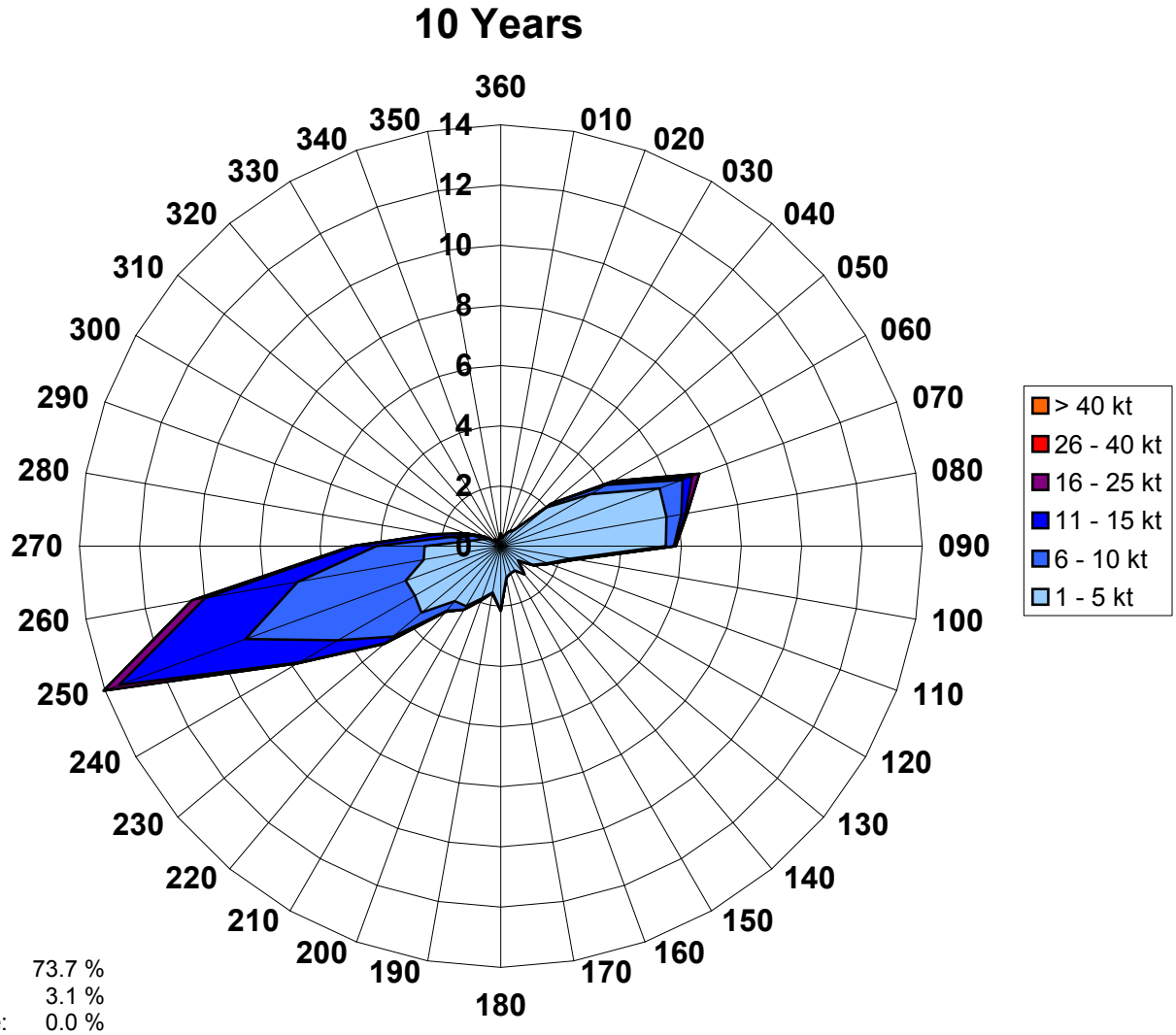
1. WIND

1.1. Wind Polygon

1.1.1. Wind Polygon 10 Years

Frequencies in percent of occurrence of concurrent wind direction every 10° and wind speed within specified ranges (legend). Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Calm is for the wind speed with 0 kt. Variable is for the wind speed between 1 and 3 kt and no wind direction.

Example: In the 10 years period 14.2% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 250 degrees.

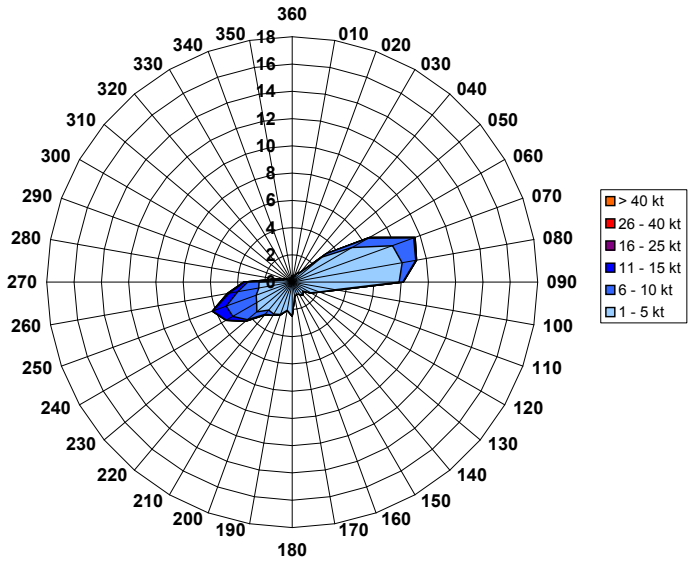


NA: 73.7 %
Calm: 3.1 %
Variable: 0.0 %

1.1.2. Wind Polygon per Season

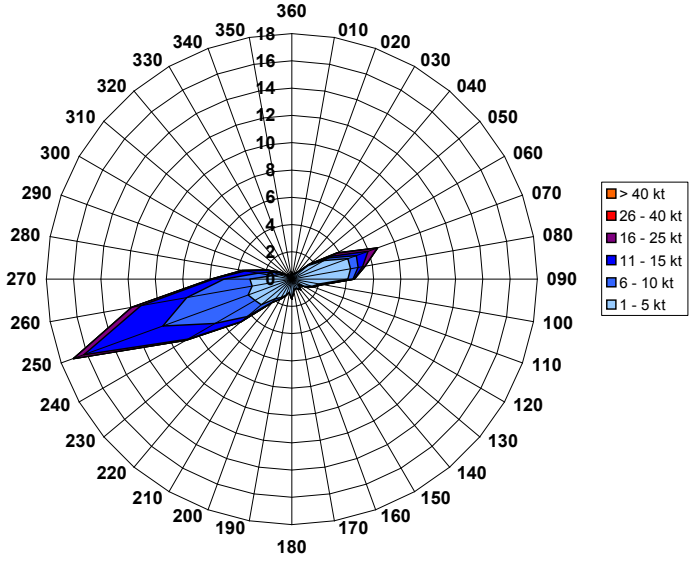
Example: In the 10 years period in winter 9.6% of all observations showed a wind speed between 1 and 10 knots with a concurrent wind direction of 070 degrees.

Winter (Dec/Jan/Feb)



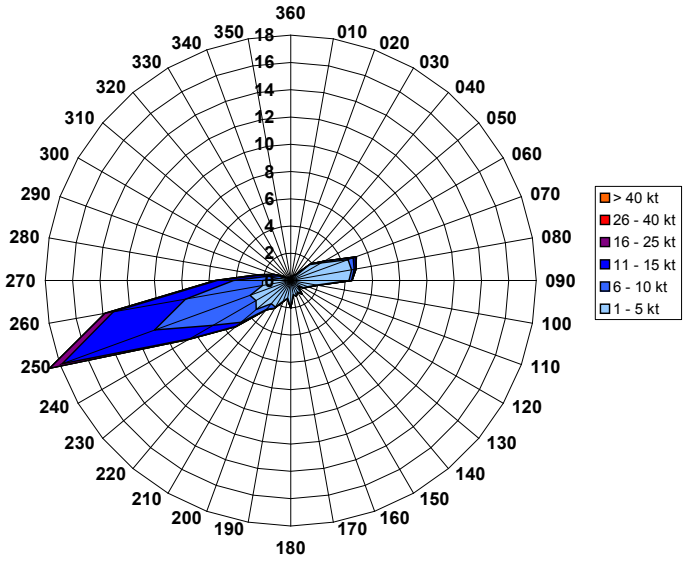
NA: 78.3 %
Calm: 6.4 %
Variable: 0.0 %

Spring (Mar/Apr/May)



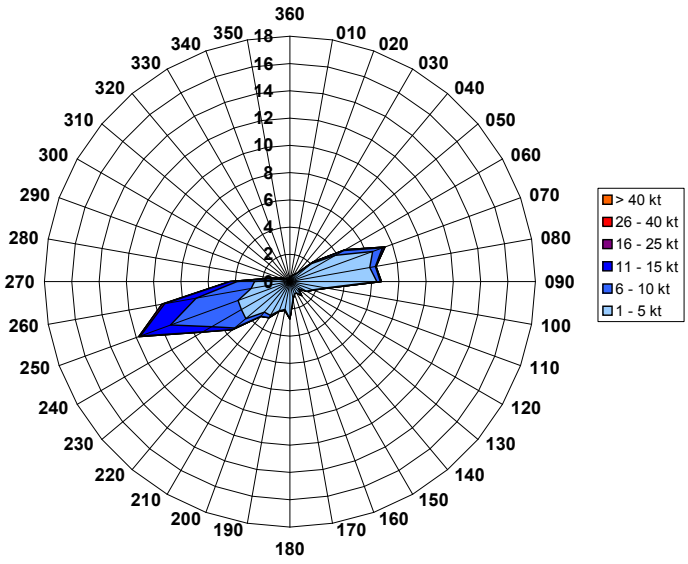
NA: 72.1 %
Calm: 1.9 %
Variable: 0.0 %

Summer (Jun/Jul/Aug)



NA: 70.5 %
Calm: 1.8 %
Variable: 0.0 %

Autumn (Sep/Oct/Nov)



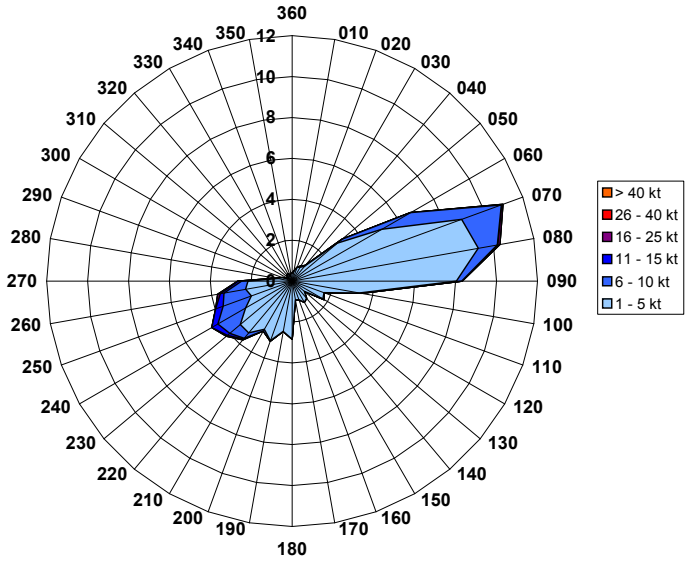
NA: 73.9 %
Calm: 3.1 %
Variable: 0.0 %

1.1.3. Wind Polygon per Month

Example: In the 10 years period in January 10.9% of all observations showed a wind speed between 1 and 10 knots with a concurrent wind direction of 070 degrees.

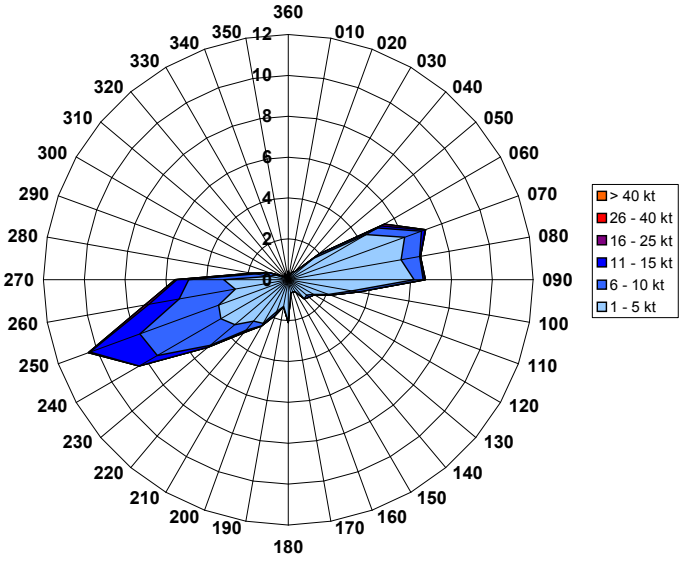
Attention must be paid to the different scales! From October to February the scale is between 0 and 12%, and from March to September it is between 0 and 20%.

January



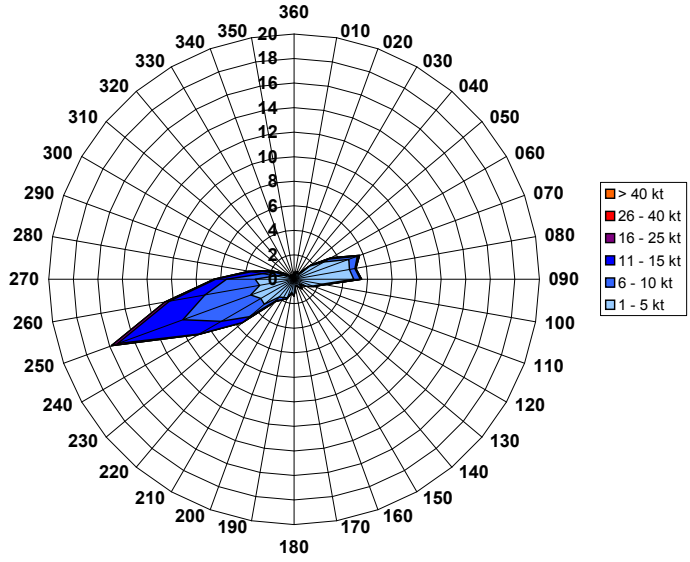
NA: 78.5 %
Calm: 7.9 %
Variable: 0.0 %

February



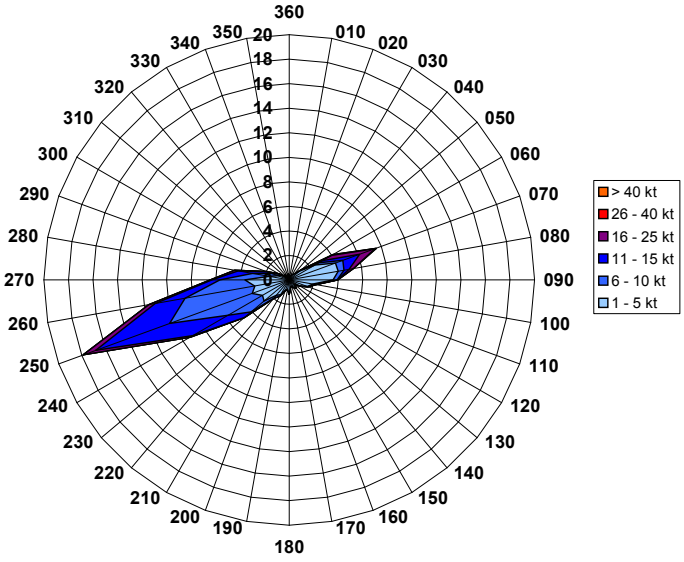
NA: 79.9 %
Calm: 6.5 %
Variable: 0.0 %

March



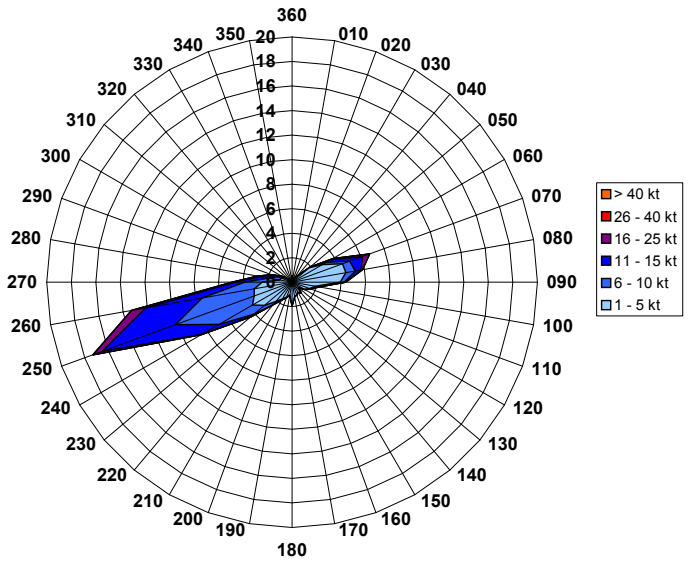
NA: 74.3 %
Calm: 2.4 %
Variable: 0.0 %

April



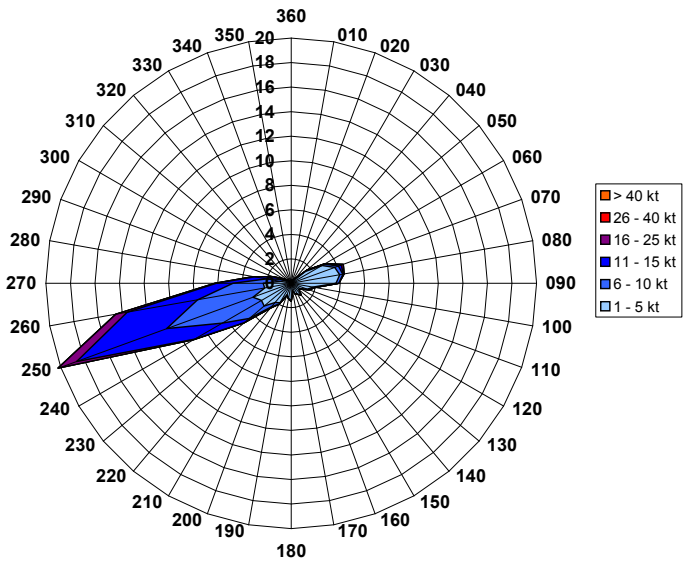
NA: 71.0 %
Calm: 1.8 %
Variable: 0.0 %

May



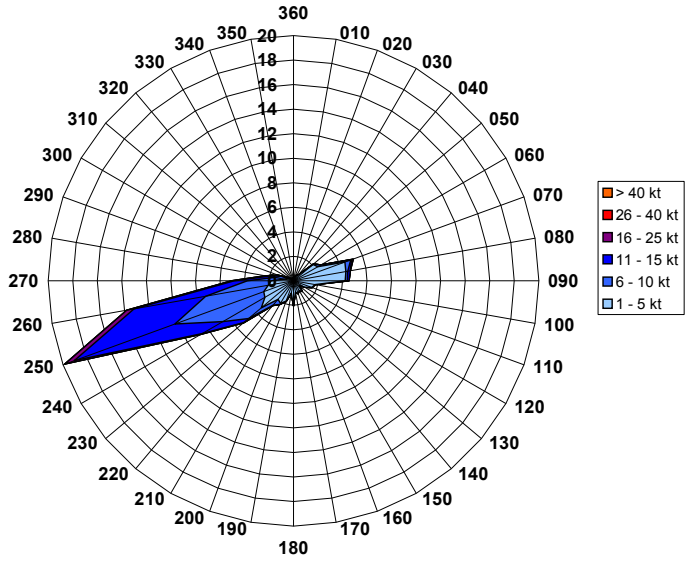
NA: 70.9 %
Calm: 1.5 %
Variable: 0.0 %

June



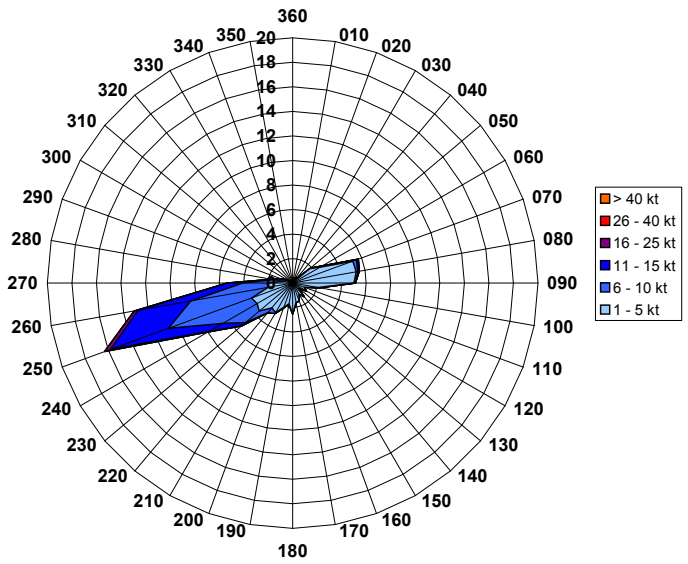
NA: 69.9 %
Calm: 1.8 %
Variable: 0.0 %

July



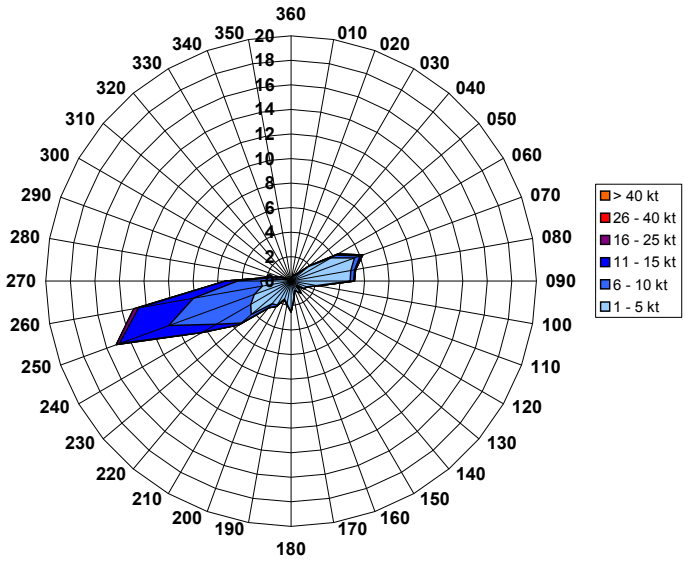
NA: 70.5 %
Calm: 2.0 %
Variable: 0.0 %

August



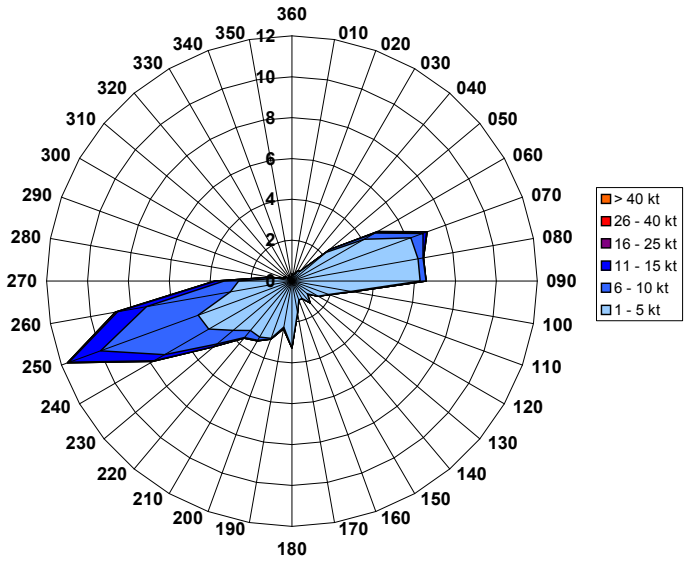
NA: 71.2 %
Calm: 1.8 %
Variable: 0.0 %

September



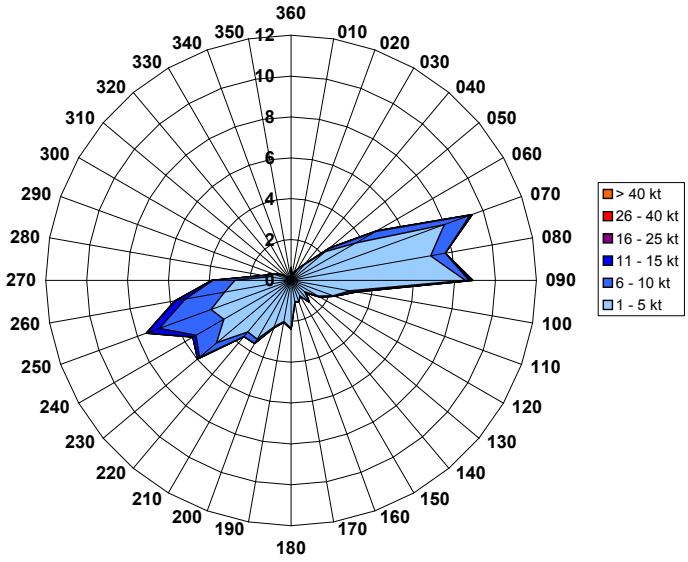
NA: 70.0 %
Calm: 2.3 %
Variable: 0.0 %

October



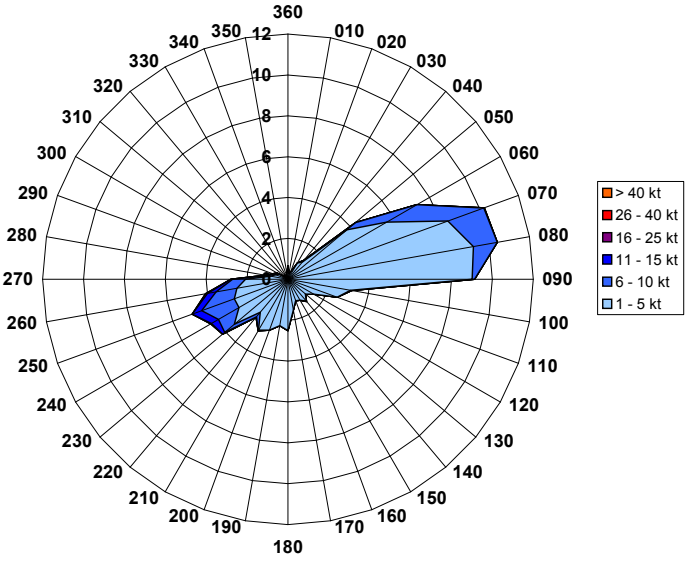
NA: 74.7%
Calm: 2.6 %
Variable: 0.0 %

November



NA: 77.0 %
Calm: 4.5 %
Variable: 0.0 %

December



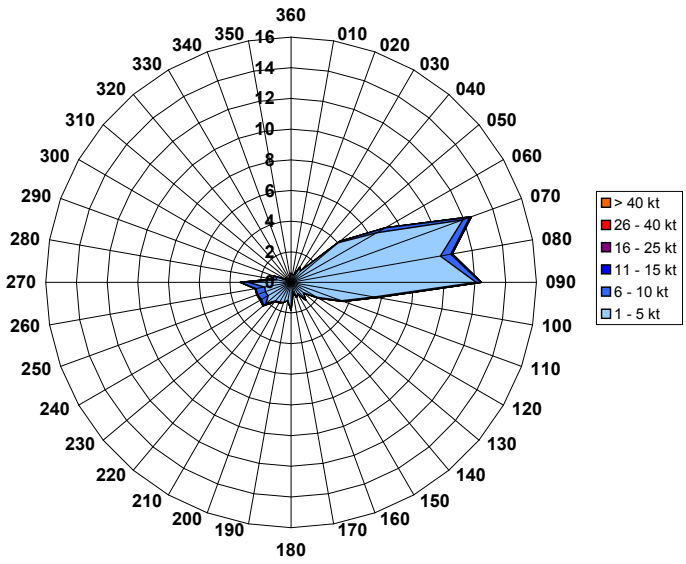
NA: 76.7 %
Calm: 5.0 %
Variable: 0.0 %

1.1.4. Wind Polygon per Hour

Example: In the 10 years period between 04 and 05 UTC 12.6% of all observations showed a wind speed between 1 and 10 knots with a concurrent wind direction of 070 degrees.

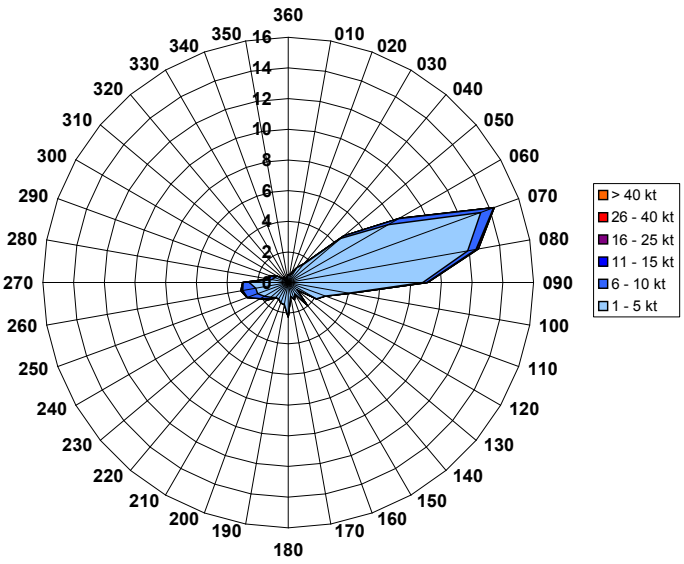
Attention must be paid to the different scales! From 04 to 11 UTC the scale is between 0 and 16%, and from 11 to 18 UTC it is between 0 and 24%.

04 - 05 UTC



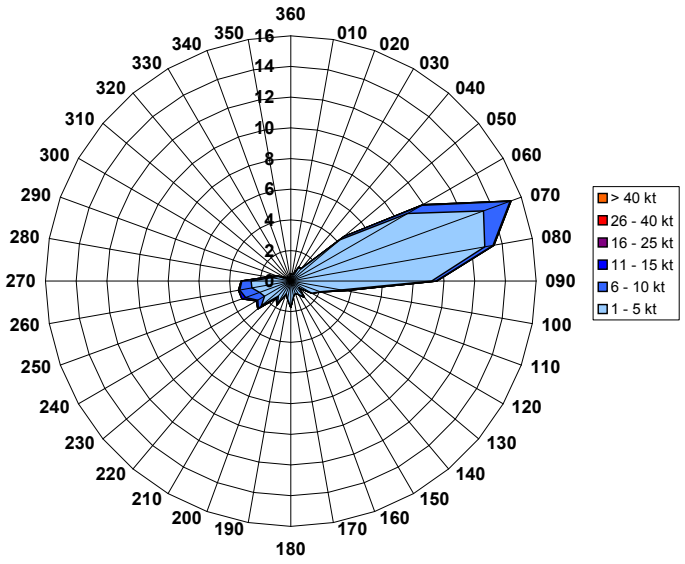
NA: 72.3 %
Calm: 8.5 %
Variable: 0.0 %

05 - 06 UTC



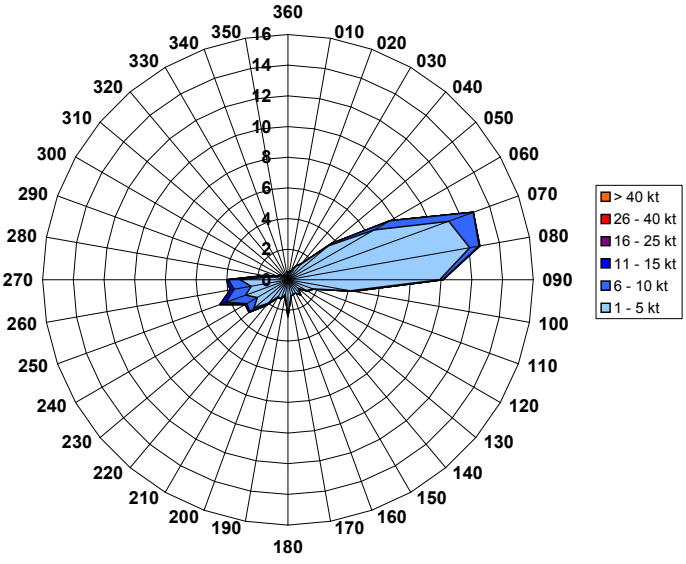
NA: 63.2 %
Calm: 6.7 %
Variable: 0.0 %

06 - 07 UTC



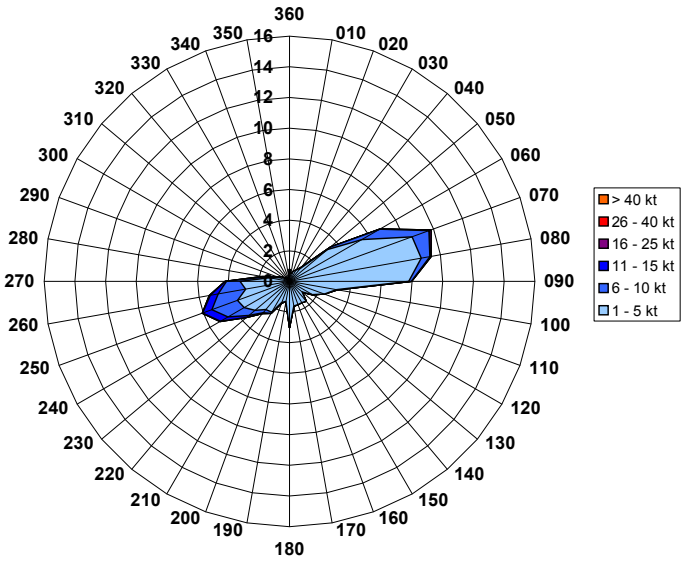
NA: 51.4 %
Calm: 5.1 %
Variable: 0.0 %

07 - 08 UTC



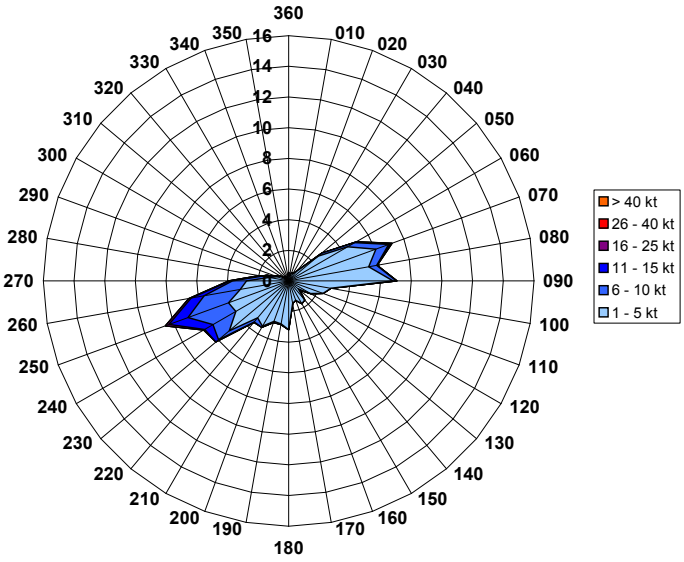
NA: 48.7 %
Calm: 4.5 %
Variable: 0.0 %

08 - 09 UTC



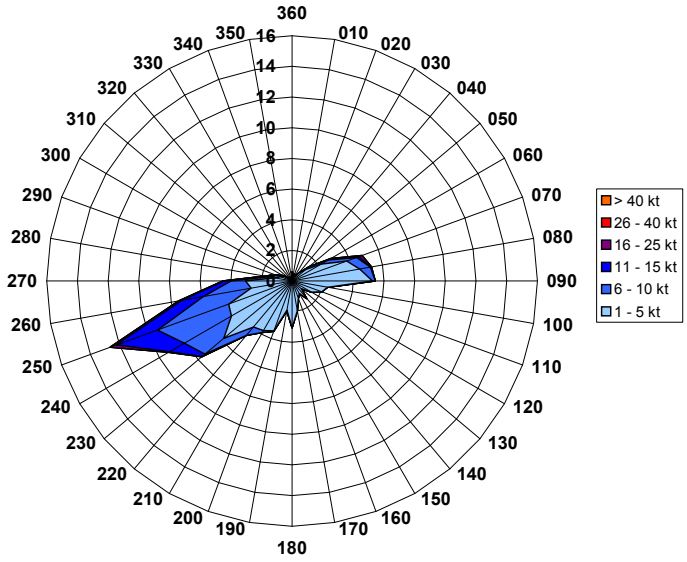
NA: 48.7 %
Calm: 3.5 %
Variable: 0.0 %

09 - 10 UTC



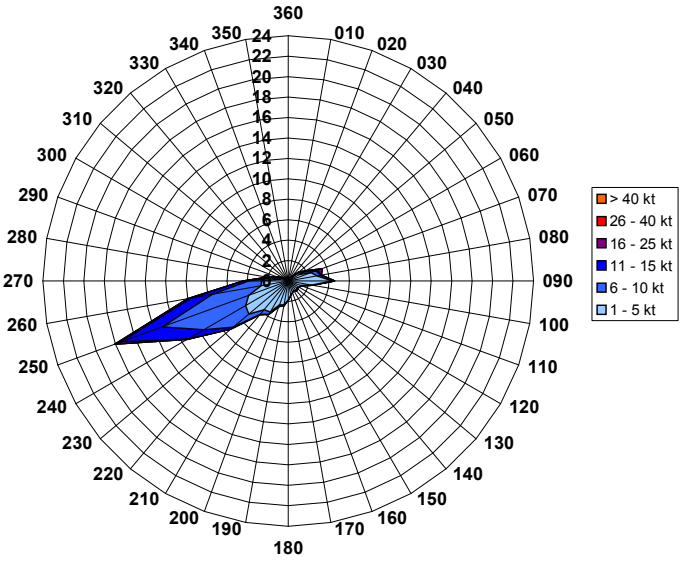
NA: 49.1 %
Calm: 2.7 %
Variable: 0.0 %

10 - 11 UTC



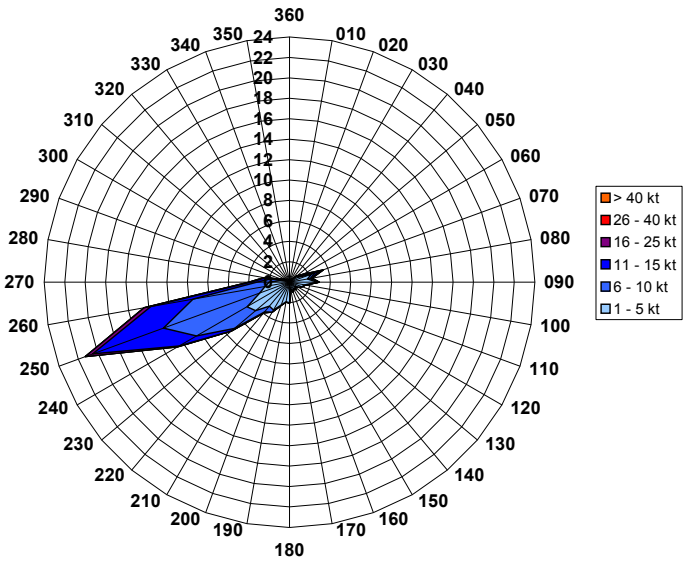
NA: 49.1 %
Calm: 2.0 %
Variable: 0.0 %

11 - 12 UTC



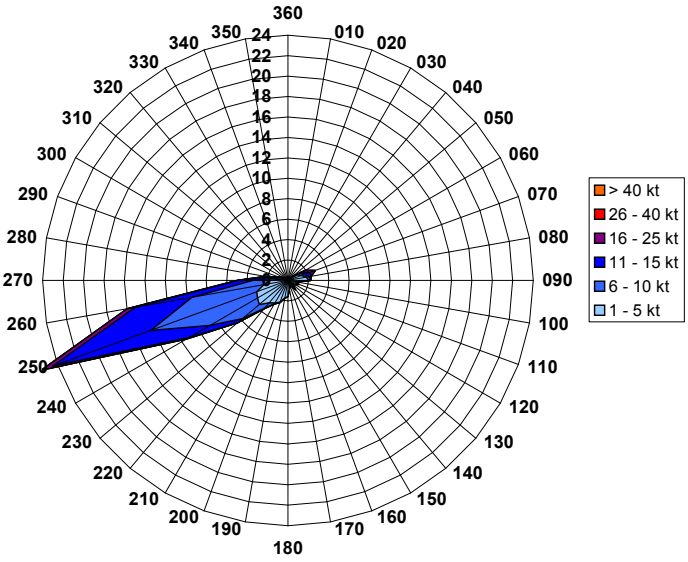
NA: 49.7 %
Calm: 1.7 %
Variable: 0.0 %

12 - 13 UTC



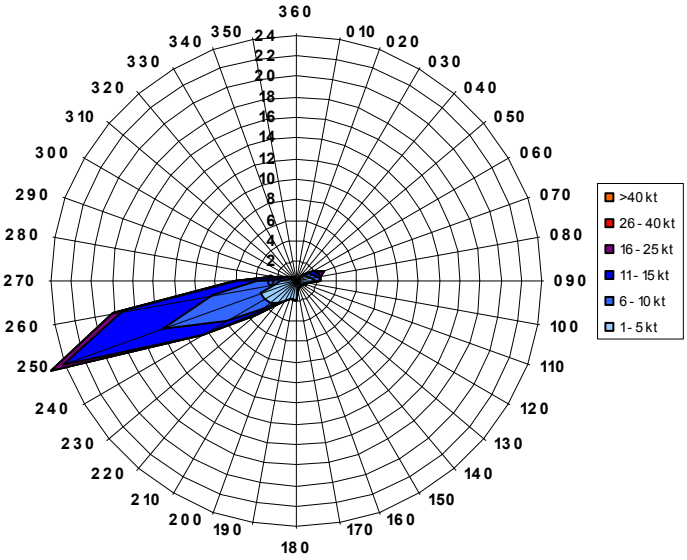
NA: 50.0 %
Calm: 1.7 %
Variable: 0.0 %

13 - 14 UTC



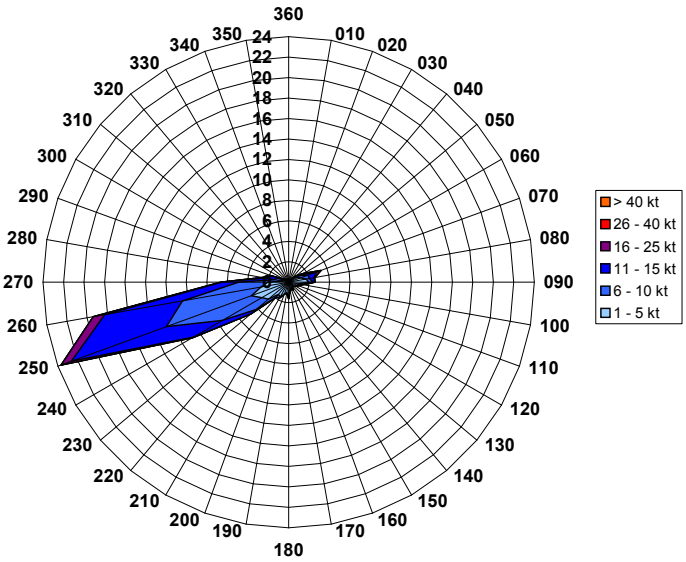
NA: 50.4 %
Calm: 1.5 %
Variable: 0.0 %

14 - 15 UTC



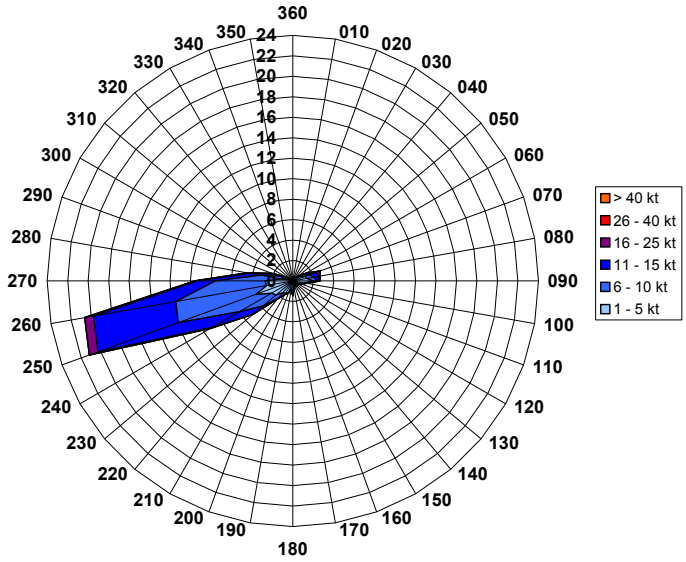
NA: 51.3 %
Calm: 1.7 %
Variable: 0.0 %

15 - 16 UTC



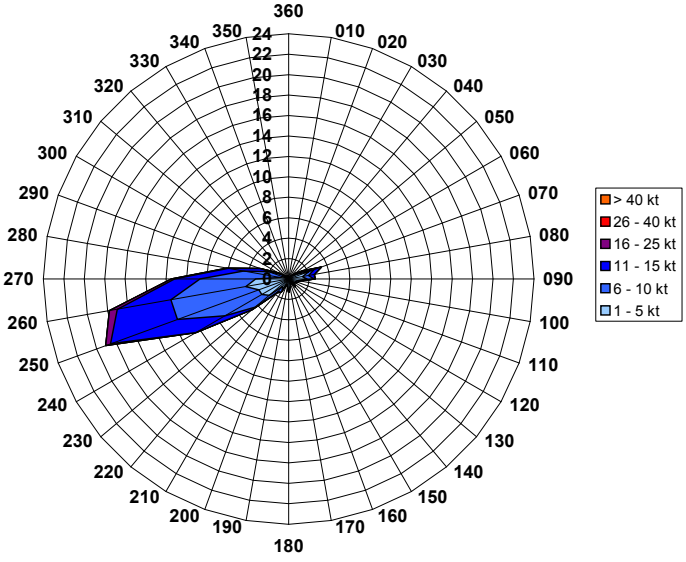
NA: 52.0 %
Calm: 2.2 %
Variable: 0.0 %

16 - 17 UTC



NA: 61.5 %
Calm: 1.5 %
Variable: 0.0 %

17 - 18 UTC



NA: 77.9 %
Calm: 1.5 %
Variable: 0.0 %

1.2. Wind Speed and Direction

1.2.1. Wind Speed and Direction 10 Years

Frequencies in percent of concurrent wind direction (in 30° sectors) and wind speed within specified ranges. Calm is for the wind speed with 0 kt. Variable is for the wind speed between 1 and 3 kt. Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 0.9% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

		Wind Speed (kt) 10 Years												
		0	**1 - 5**	**6 - 10**	**11 - 15**	**16 - 20**	**21 - 25**	**26 - 30**	**31 - 35**	**36 - 40**	**41- 45**	**46 - 50**	**> 50**	**NA**
Wind Direction	**Calm**	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	11.1	1.6	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	13.4	0.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	10.1	9.8	6.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.1	6.6	4.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.2.2. Wind Speed and Direction per Season

Example (dark shading): In the 10 years period in winter 1.1% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

	Wind Speed (kt) Winter (Dec/Jan/Feb)													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	15.8	3.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	19.2	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	7.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.2	5.2	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.7	2.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Spring (Mar/Apr/May)													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	8.6	1.1	1.2	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	10.5	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.4	11.4	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	7.4	7.9	5.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.8	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Summer (Jun/Jul/Aug)													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	8.9	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	10.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.4	12.5	9.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.0	8.8	7.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.2	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Autumn (Sep/Oct/Nov)													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	12.4	1.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	15.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	6.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	8.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	12.4	8.8	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.4	5.9	2.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.2.3. Wind Speed and Direction per Month

Example (dark shading): In the 10 years period in January 1.2% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

	Wind Speed (kt) January													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	16.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	20.6	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.1	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	8.1	3.7	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.2	1.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) February													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	12.1	1.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	14.9	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.8	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	10.9	9.3	3.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.8	5.2	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) March													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	9.2	1.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	11.8	1.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	5.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	10.0	11.2	8.5	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	7.6	7.9	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.6	1.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) April													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	7.6	1.0	1.8	1.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	9.6	1.0	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	8.4	11.8	10.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	8.1	9.2	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) May												
Wind Direction	0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	9.1	1.1	1.5	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	10.3	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
140-150-160	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	4.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	9.9	11.2	8.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	6.6	6.6	6.2	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	1.9	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) June												
Wind Direction	0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	8.2	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	9.5	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	3.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
140-150-160	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	3.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	4.9	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	9.0	12.8	10.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	5.4	9.2	8.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	1.3	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) July												
Wind Direction	0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	8.8	0.8	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	10.3	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
140-150-160	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	5.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	8.7	13.0	11.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	4.7	7.9	7.6	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) August												
Wind Direction	0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	9.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	12.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
140-150-160	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	7.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	10.5	11.9	6.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	4.9	9.2	5.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) September													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	11.1	1.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	11.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	11.2	11.7	5.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.7	8.4	5.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) October													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	12.5	1.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	15.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	7.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	13.3	8.6	2.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.4	5.2	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) November													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	13.9	2.7	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	18.4	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	5.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	12.7	5.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	7.1	3.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) December													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	17.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	21.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	7.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.5	1.8	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.2.4. Wind Speed and Direction per Hour

Example (dark shading): In the 10 years period between 04 and 05 UTC 1.4% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

		Wind Speed (kt) 04 - 05 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	22.4	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	27.4	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	6.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.6	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.4	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 05 - 06 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	25.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	24.6	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.4	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.8	1.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	2.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 06 - 07 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.4
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	26.4	3.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	25.4	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	6.7	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.4	1.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 07 - 08 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7
	Variable	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	21.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	26.1	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	8.1	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.6	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 08 - 09 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	17.2	2.7	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	19.6	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	5.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.9	3.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	7.5	3.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 09 - 10 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	13.0	1.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	14.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	13.2	5.5	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	7.3	3.8	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 10 - 11 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	7.1	1.5	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	12.1	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	11.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	14.8	10.1	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.9	4.5	2.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.6	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 11 - 12 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.8	1.1	0.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	9.5	0.6	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	5.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	14.0	15.7	6.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.3	6.8	3.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 12 - 13 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.1	0.5	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	6.0	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	2.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	8.6	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	12.3	18.4	9.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.3	9.3	5.3	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 13 - 14 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.1	0.6	0.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	4.6	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	7.7	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	10.3	18.6	13.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	4.8	9.5	7.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 14 - 15 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.8	0.8	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	4.2	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	1.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	4.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	10.4	15.3	13.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	4.2	9.6	11.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.8	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 15 - 16 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.0	1.3	1.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	4.6	1.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	9.5	14.8	13.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	5.4	11.5	10.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	0.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 16 - 17 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.8	0.8	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	4.4	1.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	1.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	8.4	13.3	12.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	6.4	15.9	11.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 17 - 18 UTC													
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Wind Direction	Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.5	1.1	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	4.1	1.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.7	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	8.6	14.4	10.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	8.3	16.6	9.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	1.1	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.3. Cumulative Wind Speed and Direction

1.3.1. Cumulative Wind Speed and Direction 10 Years

Cumulative frequencies in percent of concurrent wind direction (in 30° sectors) and wind speed within specified ranges. Calm is for the wind speed with 0 kt. Variable is for the wind speed between 1 and 3 kt. Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where cumulative frequencies differ from each other.

Example (dark shading): In the 10 years period 0.9% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

		Wind Speed (kt) 10 Years												
		0	**1 - 5**	**1 - 10**	**1 - 15**	**1 - 20**	**1 - 25**	**1 - 30**	**1 - 35**	**1 - 40**	**1- 45**	**1 - 50**	**1-99**	**NA**
Wind Direction	**Calm**	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
	020-030-040	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
	050-060-070	0.0	11.1	12.7	13.1	13.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
	080-090-100	0.0	13.4	14.3	14.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	
	110-120-130	0.0	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
	140-150-160	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
	170-180-190	0.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
	200-210-220	0.0	6.6	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
	230-240-250	0.0	10.1	19.9	26.2	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
	260-270-280	0.0	6.1	12.7	17.0	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	
	290-300-310	0.0	1.3	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
	320-330-340	0.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	

1.3.2. Cumulative Wind Speed and Direction per Season

Example (dark shading): In the 10 years period in winter 1.1% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

	Wind Speed (kt) Winter (Dec/Jan/Feb)													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	020-030-040	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
	050-060-070	0.0	15.8	19.2	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	
	080-090-100	0.0	19.2	20.7	20.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	
	110-120-130	0.0	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
	140-150-160	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
	170-180-190	0.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	
	200-210-220	0.0	7.9	8.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
	230-240-250	0.0	9.2	14.4	16.2	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	
	260-270-280	0.0	5.7	8.4	9.4	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	
	290-300-310	0.0	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
	320-330-340	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

	Wind Speed (kt) Spring (Mar/Apr/May)													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	020-030-040	0.0	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	050-060-070	0.0	8.6	9.7	10.9	11.9	12.1	12.2	12.2	12.2	12.2	12.2	12.2	
	080-090-100	0.0	10.5	11.6	12.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
	110-120-130	0.0	3.2	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
	140-150-160	0.0	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
	170-180-190	0.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	200-210-220	0.0	4.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
	230-240-250	0.0	9.4	20.8	29.9	30.8	30.9	30.9	30.9	30.9	30.9	30.9	30.9	
	260-270-280	0.0	7.4	15.3	20.4	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	
	290-300-310	0.0	1.8	2.7	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	320-330-340	0.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	

	Wind Speed (kt) Summer (Jun/Jul/Aug)													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	020-030-040	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	050-060-070	0.0	8.9	9.6	9.8	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
	080-090-100	0.0	10.7	11.2	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	
	110-120-130	0.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
	140-150-160	0.0	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
	170-180-190	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
	200-210-220	0.0	6.1	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
	230-240-250	0.0	9.4	21.9	31.6	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	
	260-270-280	0.0	5.0	13.8	20.9	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8	
	290-300-310	0.0	1.2	1.7	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
	320-330-340	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

	Wind Speed (kt) Autumn (Sep/Oct/Nov)													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
	020-030-040	0.0	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
	050-060-070	0.0	12.4	14.0	14.2	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	
	080-090-100	0.0	15.0	15.7	15.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
	110-120-130	0.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
	140-150-160	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
	170-180-190	0.0	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	
	200-210-220	0.0	8.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	
	230-240-250	0.0	12.4	21.2	24.5	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	
	260-270-280	0.0	6.4	12.2	15.1	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	
	290-300-310	0.0	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
	320-330-340	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

1.3.3. Cumulative Wind Speed and Direction per Month

Example (dark shading): In the 10 years period in January 1.2% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

	Wind Speed (kt) January													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
	020-030-040	0.0	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
	050-060-070	0.0	16.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	
	080-090-100	0.0	20.6	21.9	22.0	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	
	110-120-130	0.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
	140-150-160	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	170-180-190	0.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
	200-210-220	0.0	9.1	9.6	9.6	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	
	230-240-250	0.0	8.1	11.8	12.6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
	260-270-280	0.0	5.2	6.6	7.0	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
	290-300-310	0.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	320-330-340	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	

	Wind Speed (kt) February													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	020-030-040	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	050-060-070	0.0	12.1	14.0	14.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	
	080-090-100	0.0	14.9	16.6	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	
	110-120-130	0.0	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	140-150-160	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	170-180-190	0.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
	200-210-220	0.0	6.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
	230-240-250	0.0	10.9	20.2	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	
	260-270-280	0.0	6.8	12.0	14.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	
	290-300-310	0.0	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
	320-330-340	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

	Wind Speed (kt) March													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	020-030-040	0.0	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
	050-060-070	0.0	9.2	10.5	10.7	10.9	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
	080-090-100	0.0	11.8	12.9	13.0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	
	110-120-130	0.0	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
	140-150-160	0.0	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
	170-180-190	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	200-210-220	0.0	5.2	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
	230-240-250	0.0	10.0	21.2	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	
	260-270-280	0.0	7.6	15.5	20.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	
	290-300-310	0.0	1.6	2.7	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
	320-330-340	0.0	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

	Wind Speed (kt) April													
		0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Wind Direction	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
	020-030-040	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
	050-060-070	0.0	7.6	8.6	10.4	12.3	12.8	13.0	13.0	13.0	13.0	13.0	13.0	
	080-090-100	0.0	9.6	10.6	11.1	11.4	11.5	11.5	11.5	11.5	11.5	11.5	11.5	
	110-120-130	0.0	3.0	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
	140-150-160	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
	170-180-190	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
	200-210-220	0.0	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
	230-240-250	0.0	8.4	20.2	30.6	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	
	260-270-280	0.0	8.1	17.3	21.6	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	
	290-300-310	0.0	1.9	2.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
	320-330-340	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

	Wind Speed (kt) May												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
020-030-040	0.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
050-060-070	0.0	9.1	10.1	11.6	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
080-090-100	0.0	10.3	11.5	12.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	
110-120-130	0.0	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
140-150-160	0.0	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
170-180-190	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
200-210-220	0.0	4.9	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
230-240-250	0.0	9.9	21.1	29.3	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	
260-270-280	0.0	6.6	13.2	19.4	20.9	21.0	21.0	21.0	21.0	21.0	21.0	21.0	
290-300-310	0.0	1.9	2.5	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
320-330-340	0.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	

	Wind Speed (kt) June												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
020-030-040	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
050-060-070	0.0	8.2	8.9	9.2	9.3	9.4	9.4	9.4	9.4	9.4	9.4	9.4	
080-090-100	0.0	9.5	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	
110-120-130	0.0	3.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
140-150-160	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
170-180-190	0.0	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
200-210-220	0.0	4.9	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	
230-240-250	0.0	9.0	21.8	32.7	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	
260-270-280	0.0	5.4	14.6	22.8	23.8	23.9	23.9	23.9	23.9	23.9	23.9	23.9	
290-300-310	0.0	1.3	1.8	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	
320-330-340	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	Wind Speed (kt) July												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
020-030-040	0.0	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
050-060-070	0.0	8.8	9.6	9.7	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	
080-090-100	0.0	10.3	10.7	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
110-120-130	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
140-150-160	0.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
170-180-190	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
200-210-220	0.0	5.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
230-240-250	0.0	8.7	21.7	32.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	
260-270-280	0.0	4.7	12.6	20.2	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2	
290-300-310	0.0	1.1	1.8	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
320-330-340	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	

	Wind Speed (kt) August												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
020-030-040	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
050-060-070	0.0	9.6	10.2	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	
080-090-100	0.0	12.4	12.7	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	
110-120-130	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
140-150-160	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
170-180-190	0.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
200-210-220	0.0	7.5	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
230-240-250	0.0	10.5	22.3	29.1	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	
260-270-280	0.0	4.9	14.1	19.8	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	
290-300-310	0.0	1.1	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
320-330-340	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	

	Wind Speed (kt) September												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
020-030-040	0.0	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
050-060-070	0.0	11.1	12.1	12.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	
080-090-100	0.0	11.9	12.5	12.6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
110-120-130	0.0	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
140-150-160	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
170-180-190	0.0	5.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
200-210-220	0.0	6.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
230-240-250	0.0	11.2	23.0	28.8	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	
260-270-280	0.0	5.7	14.1	19.7	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	
290-300-310	0.0	0.9	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
320-330-340	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	

	Wind Speed (kt) October												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
020-030-040	0.0	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
050-060-070	0.0	12.5	13.9	14.2	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	
080-090-100	0.0	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	
110-120-130	0.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
140-150-160	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
170-180-190	0.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
200-210-220	0.0	9.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
230-240-250	0.0	13.3	21.9	24.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	
260-270-280	0.0	6.4	11.6	13.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	
290-300-310	0.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
320-330-340	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	Wind Speed (kt) November												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
020-030-040	0.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
050-060-070	0.0	13.9	16.5	16.6	16.7	16.8	16.8	16.8	16.8	16.8	16.8	16.8	
080-090-100	0.0	18.4	19.6	19.7	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	
110-120-130	0.0	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
140-150-160	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
170-180-190	0.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
200-210-220	0.0	9.0	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	
230-240-250	0.0	12.7	18.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	
260-270-280	0.0	7.1	10.4	11.0	11.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
290-300-310	0.0	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
320-330-340	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

	Wind Speed (kt) December												
Wind Direction	0	1 - 5	1 - 10	1 - 15	1 - 20	1 - 25	1 - 30	1 - 35	1 - 40	1- 45	1 - 50	1-99	NA
Calm	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
350-360-010	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
020-030-040	0.0	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
050-060-070	0.0	17.7	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	
080-090-100	0.0	21.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	
110-120-130	0.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
140-150-160	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	
170-180-190	0.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
200-210-220	0.0	7.6	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
230-240-250	0.0	9.0	12.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
260-270-280	0.0	5.5	7.3	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
290-300-310	0.0	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
320-330-340	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

1.4. Wind RWY 25 (07)

1.4.1. Wind RWY 25 (07) 10 Years

Frequencies in percent of the concurrent wind speed and wind direction relative to runway 25 (headwind, tailwind, left and right crosswind). Calm is for the wind speed with 0 kt. Variable is for the wind speed between 1 and 3 kt. Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 30.8% of all observations showed a headwind relative to runway 25 (tailwind relative to runway 07) with a wind speed between 0 and 5 knots (0 < X ≤ 5).

	Wind Speed (kt) 10 Years													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.7
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	30.8	17.6	10.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	32.9	2.6	0.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	28.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	53.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.4.2. Wind RWY 25 (07) per Season

Example (dark shading): In the 10 years period in winter 31.5% of all observations showed a headwind relative to runway 25 (tailwind relative to runway 07) with a wind speed between 0 and 5 knots (0 < X ≤ 5).

	Wind Speed (kt) Winter (Dec/Jan/Feb)													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	31.5	8.6	2.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	45.2	4.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	24.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	62.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Spring (Mar/Apr/May)													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.1
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	28.7	21.0	14.2	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	26.8	2.4	1.7	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	31.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	46.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Summer (Jun/Jul/Aug)													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	27.9	22.9	16.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	26.9	1.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	29.4	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	47.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) Autumn (Sep/Oct/Nov)													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	35.7	15.4	6.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	36.2	2.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	26.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	58.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.4.3. Wind RWY 25 (07) per Month

Example (dark shading): In the 10 years period in January 31.8% of all observations showed a headwind relative to runway 25 (tailwind relative to runway 07) with a wind speed between 0 and 5 knots (0 < X ≤ 5).

	Wind Speed (kt) January													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	31.8	5.5	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	47.6	5.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	22.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	65.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) February													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	31.2	15.6	6.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	35.9	3.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	25.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	56.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) March													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.3
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	29.4	21.2	13.5	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	29.1	2.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	30.6	2.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	47.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) April													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	26.9	22.8	14.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	24.3	2.2	2.3	2.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	31.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	45.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) May													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	29.7	19.2	14.4	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	27.1	2.5	2.2	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	30.4	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	47.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) June													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	25.6	23.9	19.3	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	24.6	1.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	30.9	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	43.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) July													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
	Calm	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
	Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	26.2	22.5	18.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	26.6	1.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	28.9	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	47.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) August												
Wind Direction	0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
Calm	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	32.0	22.3	12.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	29.4	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	28.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	52.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) September												
Wind Direction	0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
Calm	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	31.2	21.2	11.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	30.9	1.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	30.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	51.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) October												
Wind Direction	0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
Calm	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	39.0	14.3	4.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	36.9	2.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	24.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	60.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) November												
Wind Direction	0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
Calm	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	37.9	9.1	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	42.4	4.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	23.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	63.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) December												
Wind Direction	0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA
Calm	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
Variable	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	31.5	5.8	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	50.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	25.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	64.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

2.1. Wind Gusts

2.1.1. Wind Gusts 10 Years

Frequencies in per mil of concurrent wind direction (in 10° sectors) and wind gust speed within specified ranges. Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA (also in per mil). Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 7.57‰ of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 250 degrees.

	Wind Speed (kt) 10 Years								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.04	0.00	0.04	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
	020	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.04	0.02	0.00	0.00	0.00	0.00	
	040	0.02	0.02	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.04	0.02	0.02	0.02	0.02	0.00	
	060	0.02	0.17	0.46	0.93	0.61	0.04	0.00	
	070	0.02	0.26	1.41	1.30	0.91	0.00	0.00	
	080	0.04	0.46	0.48	0.46	0.17	0.00	0.00	
	090	0.09	0.24	0.20	0.28	0.02	0.00	0.00	
	100	0.04	0.04	0.09	0.13	0.07	0.00	0.00	
	110	0.00	0.04	0.04	0.00	0.00	0.00	0.00	
	120	0.00	0.02	0.02	0.00	0.00	0.00	0.00	
	130	0.02	0.04	0.00	0.00	0.00	0.00	0.00	
	140	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.02	0.00	0.00	0.00	0.00	0.00	0.00	737
	180	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.09	0.02	0.00	0.00	0.00	0.00	
	210	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.04	0.11	0.02	0.02	0.00	0.00	0.00	
	230	0.11	0.24	0.35	0.15	0.04	0.00	0.00	
	240	0.07	0.56	2.75	0.98	0.04	0.00	0.00	
	250	0.09	0.78	7.57	3.55	0.43	0.02	0.00	
	260	0.13	0.82	2.99	1.76	0.28	0.00	0.00	
	270	0.07	0.35	0.82	0.41	0.09	0.00	0.00	
	280	0.00	0.07	0.43	0.59	0.09	0.00	0.00	
	290	0.04	0.09	0.28	0.09	0.00	0.00	0.00	
	300	0.02	0.09	0.13	0.04	0.00	0.00	0.00	
	310	0.00	0.04	0.07	0.00	0.00	0.00	0.00	
	320	0.04	0.04	0.02	0.00	0.04	0.00	0.00	
	330	0.04	0.02	0.00	0.00	0.00	0.00	0.00	
	340	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.02	0.04	0.00	0.00	0.00	0.00	0.00	

2.1.2. Maximum Wind Gust in 10 Years

On the 6th of February 1999 at 1520 UTC a wind gust of 47 kt was measured.

2.1.3. Wind Gusts per Season

Example (dark shading): In the 10 years period in winter 1.81‰ of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 250 degrees.

	Wind Speed (kt) Winter (Dec/Jan/Feb)								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.11	0.00	0.53	0.21	0.00	0.00	
	070	0.00	0.11	0.11	0.43	0.11	0.00	0.00	
	080	0.11	0.43	0.11	0.21	0.11	0.00	0.00	
	090	0.21	0.11	0.11	0.11	0.00	0.00	0.00	
	100	0.00	0.11	0.11	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	783
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.21	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.11	0.11	0.21	0.00	0.00	0.00	
	240	0.11	0.96	1.49	0.32	0.00	0.00	0.00	
	250	0.00	0.43	1.81	0.21	0.00	0.00	0.00	
	260	0.32	0.64	0.85	0.53	0.21	0.00	0.00	
	270	0.11	0.53	0.43	0.11	0.00	0.00	0.00	
	280	0.00	0.00	0.11	0.11	0.11	0.00	0.00	
	290	0.11	0.00	0.00	0.11	0.00	0.00	0.00	
	300	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.11	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) Spring (Mar/Apr/May)								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.08	0.00	0.16	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.08	0.00	0.00	0.00	0.00	
	020	0.00	0.08	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.08	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.08	0.00	0.00	0.00	
	060	0.08	0.16	0.81	2.52	2.03	0.08	0.00	
	070	0.00	0.24	3.65	3.17	2.68	0.00	0.00	
	080	0.00	0.73	1.06	0.97	0.57	0.00	0.00	
	090	0.08	0.16	0.32	0.16	0.00	0.00	0.00	
	100	0.08	0.00	0.16	0.32	0.16	0.00	0.00	
	110	0.00	0.08	0.08	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.08	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	721
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.16	0.08	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.16	0.08	0.00	0.08	0.00	0.00	0.00	
	230	0.08	0.57	0.57	0.08	0.00	0.00	0.00	
	240	0.08	0.41	3.98	1.30	0.08	0.00	0.00	
	250	0.00	0.97	8.44	3.98	0.89	0.00	0.00	
	260	0.08	0.89	2.68	3.08	0.41	0.00	0.00	
	270	0.00	0.49	0.97	0.65	0.00	0.00	0.00	
	280	0.00	0.16	0.73	1.14	0.00	0.00	0.00	
	290	0.08	0.24	0.65	0.16	0.00	0.00	0.00	
	300	0.08	0.16	0.49	0.16	0.00	0.00	0.00	
	310	0.00	0.08	0.16	0.00	0.00	0.00	0.00	
	320	0.08	0.00	0.08	0.00	0.00	0.00	0.00	
	330	0.00	0.08	0.00	0.00	0.00	0.00	0.00	
	340	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.08	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) Summer (Jun/Jul/Aug)								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.15	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.08	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.08	0.08	0.00	0.00	0.08	0.00	
	060	0.00	0.15	0.31	0.15	0.00	0.00	0.00	
	070	0.00	0.08	0.77	0.77	0.38	0.00	0.00	
	080	0.00	0.31	0.23	0.46	0.00	0.00	0.00	
	090	0.08	0.31	0.15	0.38	0.00	0.00	0.00	
	100	0.08	0.00	0.00	0.00	0.08	0.00	0.00	
	110	0.00	0.08	0.08	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.08	0.00	0.00	0.00	0.00	0.00	0.00	705
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.08	0.00	0.00	0.00	0.00	0.00	
	210	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.08	0.08	0.00	0.00	0.00	0.00	
	230	0.15	0.15	0.46	0.23	0.15	0.00	0.00	
	240	0.08	0.61	3.38	1.31	0.08	0.00	0.00	
	250	0.31	1.15	13.22	7.68	0.46	0.08	0.00	
	260	0.08	0.92	4.69	2.23	0.23	0.00	0.00	
	270	0.15	0.38	1.23	0.77	0.31	0.00	0.00	
	280	0.00	0.08	0.69	0.85	0.23	0.00	0.00	
	290	0.00	0.00	0.31	0.08	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.08	0.08	0.00	0.00	0.00	0.00	
	320	0.00	0.15	0.00	0.00	0.15	0.00	0.00	
	330	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) Autumn (Sep/Oct/Nov)								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.09	0.00	0.00	0.09	0.00	0.00	
	060	0.00	0.26	0.61	0.44	0.09	0.09	0.00	
	070	0.09	0.61	0.79	0.61	0.26	0.00	0.00	
	080	0.09	0.35	0.44	0.09	0.00	0.00	0.00	
	090	0.00	0.35	0.18	0.44	0.09	0.00	0.00	
	100	0.00	0.09	0.09	0.18	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.09	0.18	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	739
	180	0.09	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.09	0.00	0.00	0.00	0.00	0.00	
	210	0.18	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.09	0.00	0.00	0.00	0.00	0.00	
	230	0.18	0.09	0.18	0.09	0.00	0.00	0.00	
	240	0.00	0.35	1.75	0.79	0.00	0.00	0.00	
	250	0.00	0.44	4.91	1.14	0.26	0.00	0.00	
	260	0.09	0.79	3.16	0.79	0.26	0.00	0.00	
	270	0.00	0.00	0.53	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.09	0.09	0.00	0.00	0.00	
	290	0.00	0.09	0.09	0.00	0.00	0.00	0.00	
	300	0.00	0.09	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.09	0.00	0.00	0.00	0.00	0.00	

2.1.4. Wind Gusts per Month

Example (dark shading): In the 10 years period in January 1.25‰ of all observations showed a wind gust speed between 21 and 25 knots with a concurrent wind direction of 240 degrees.

	Wind Speed (kt) January								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.31	0.00	0.00	0.31	0.00	0.00	
	080	0.00	0.31	0.31	0.63	0.31	0.00	0.00	
	090	0.00	0.31	0.31	0.31	0.00	0.00	0.00	
	100	0.00	0.00	0.31	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.31	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	785
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.31	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.00	0.31	0.00	0.00	0.00	
	240	0.31	0.94	1.25	0.63	0.00	0.00	0.00	
	250	0.00	0.00	0.31	0.00	0.00	0.00	0.00	
	260	0.00	1.25	0.31	0.63	0.31	0.00	0.00	
	270	0.31	0.31	0.94	0.31	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.31	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.31	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.31	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) February								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.37	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.37	0.00	1.84	0.73	0.00	0.00	
	070	0.00	0.00	0.00	1.47	0.00	0.00	0.00	
	080	0.37	0.73	0.00	0.00	0.00	0.00	0.00	
	090	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.37	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	799
	190	0.00	0.37	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.37	0.00	0.00	0.00	0.00	
	240	0.00	0.37	2.57	0.00	0.00	0.00	0.00	
	250	0.00	0.37	3.30	0.00	0.00	0.00	0.00	
	260	0.00	0.73	1.47	1.10	0.00	0.00	0.00	
	270	0.00	1.47	0.00	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.37	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) March								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.26	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.26	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.79	0.52	0.26	0.00	
	070	0.00	0.00	0.79	0.00	0.26	0.00	0.00	
	080	0.00	0.26	0.26	0.00	0.00	0.00	0.00	
	090	0.00	0.00	0.26	0.00	0.00	0.00	0.00	
	100	0.00	0.00	0.00	0.26	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.26	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	743
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.26	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.26	0.26	0.00	0.26	0.00	0.00	0.00	
	230	0.00	0.26	0.52	0.00	0.00	0.00	0.00	
	240	0.00	0.79	2.36	0.52	0.00	0.00	0.00	
	250	0.00	1.05	6.81	2.62	1.05	0.00	0.00	
	260	0.26	0.26	2.10	0.79	0.26	0.00	0.00	
	270	0.00	0.26	0.79	0.79	0.00	0.00	0.00	
	280	0.00	0.26	0.79	0.26	0.00	0.00	0.00	
	290	0.00	0.00	0.79	0.00	0.00	0.00	0.00	
	300	0.00	0.26	0.26	0.26	0.00	0.00	0.00	
	310	0.00	0.00	0.26	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) April								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.24	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.48	0.72	4.79	4.07	0.00	0.00	
	070	0.00	0.24	5.27	6.71	4.79	0.00	0.00	
	080	0.00	0.96	0.96	2.16	1.44	0.00	0.00	
	090	0.00	0.00	0.24	0.24	0.00	0.00	0.00	
	100	0.24	0.00	0.00	0.24	0.00	0.00	0.00	
	110	0.00	0.00	0.24	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	710
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.24	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.24	0.72	0.96	0.00	0.00	0.00	0.00	
	240	0.24	0.24	5.51	2.87	0.00	0.00	0.00	
	250	0.00	0.96	9.34	5.75	0.96	0.00	0.00	
	260	0.00	1.20	1.44	2.16	0.00	0.00	0.00	
	270	0.00	0.96	0.72	0.48	0.00	0.00	0.00	
	280	0.00	0.24	1.20	1.92	0.00	0.00	0.00	
	290	0.00	0.48	0.72	0.00	0.00	0.00	0.00	
	300	0.24	0.00	0.72	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.24	0.00	0.00	0.00	0.00	
	320	0.24	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.24	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) May								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.46	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	020	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.23	0.00	1.62	1.85	1.39	0.00	0.00	
	070	0.00	0.46	4.62	2.54	2.77	0.00	0.00	
	080	0.00	0.92	1.85	0.69	0.23	0.00	0.00	
	090	0.23	0.46	0.46	0.23	0.00	0.00	0.00	
	100	0.00	0.00	0.46	0.46	0.46	0.00	0.00	
	110	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	709
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.46	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.69	0.23	0.23	0.00	0.00	0.00	
	240	0.00	0.23	3.93	0.46	0.23	0.00	0.00	
	250	0.00	0.92	9.01	3.47	0.69	0.00	0.00	
	260	0.00	1.16	4.39	6.01	0.92	0.00	0.00	
	270	0.00	0.23	1.39	0.69	0.00	0.00	0.00	
	280	0.00	0.00	0.23	1.16	0.00	0.00	0.00	
	290	0.23	0.23	0.46	0.46	0.00	0.00	0.00	
	300	0.00	0.23	0.46	0.23	0.00	0.00	0.00	
	310	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	330	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	340	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) June								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.46	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.23	0.23	0.00	0.00	0.23	0.00	
	060	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.92	0.92	0.46	0.00	0.00	
	080	0.00	0.23	0.23	0.92	0.00	0.00	0.00	
	090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	100	0.00	0.00	0.00	0.00	0.23	0.00	0.00	
	110	0.00	0.23	0.23	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	699
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	230	0.23	0.00	0.23	0.00	0.23	0.00	0.00	
	240	0.23	0.23	3.69	1.38	0.23	0.00	0.00	
	250	0.46	0.46	12.69	10.84	0.46	0.23	0.00	
	260	0.23	0.69	4.15	2.54	0.46	0.00	0.00	
	270	0.00	0.46	1.38	1.15	0.00	0.00	0.00	
	280	0.00	0.00	1.38	1.15	0.23	0.00	0.00	
	290	0.00	0.00	0.23	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.23	0.23	0.00	0.00	0.00	0.00	
	320	0.00	0.23	0.00	0.00	0.46	0.00	0.00	
	330	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) July								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.23	0.45	0.23	0.00	0.00	0.00	
	070	0.00	0.00	0.45	1.36	0.68	0.00	0.00	
	080	0.00	0.23	0.23	0.45	0.00	0.00	0.00	
	090	0.23	0.45	0.45	1.14	0.00	0.00	0.00	
	100	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	705
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	230	0.23	0.23	0.91	0.23	0.00	0.00	0.00	
	240	0.00	1.14	3.87	1.59	0.00	0.00	0.00	
	250	0.23	1.59	17.28	8.19	0.23	0.00	0.00	
	260	0.00	0.45	5.69	2.50	0.23	0.00	0.00	
	270	0.23	0.23	2.05	0.91	0.91	0.00	0.00	
	280	0.00	0.23	0.68	1.36	0.45	0.00	0.00	
	290	0.00	0.00	0.68	0.23	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) August								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.23	0.23	0.23	0.00	0.00	0.00	
	070	0.00	0.23	0.93	0.00	0.00	0.00	0.00	
	080	0.00	0.47	0.23	0.00	0.00	0.00	0.00	
	090	0.00	0.47	0.00	0.00	0.00	0.00	0.00	
	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	712
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.23	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.23	0.23	0.47	0.23	0.00	0.00	
	240	0.00	0.47	2.57	0.93	0.00	0.00	0.00	
	250	0.23	1.40	9.57	3.97	0.70	0.00	0.00	
	260	0.00	1.63	4.20	1.63	0.00	0.00	0.00	
	270	0.23	0.47	0.23	0.23	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) September								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.23	0.69	0.93	0.00	0.00	0.00	
	070	0.23	0.46	1.39	0.93	0.00	0.00	0.00	
	080	0.00	0.69	0.23	0.23	0.00	0.00	0.00	
	090	0.00	0.69	0.46	0.23	0.00	0.00	0.00	
	100	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	700
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	210	0.46	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.23	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.23	0.23	0.00	0.00	0.00	
	240	0.00	0.69	3.47	0.69	0.00	0.00	0.00	
	250	0.00	0.69	9.02	2.08	0.46	0.00	0.00	
	260	0.00	1.85	5.78	1.39	0.23	0.00	0.00	
	270	0.00	0.00	1.16	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.23	0.23	0.00	0.00	0.00	
	290	0.00	0.23	0.23	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) October								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.27	0.53	0.27	0.27	0.00	0.00	
	070	0.00	0.80	0.53	0.80	0.27	0.00	0.00	
	080	0.00	0.27	0.53	0.00	0.00	0.00	0.00	
	090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.27	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	747
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.27	0.00	0.27	0.00	0.00	0.00	0.00	
	240	0.00	0.27	1.33	1.33	0.00	0.00	0.00	
	250	0.00	0.27	3.19	1.06	0.00	0.00	0.00	
	260	0.27	0.27	1.86	0.80	0.00	0.00	0.00	
	270	0.00	0.00	0.27	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) November								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.30	0.00	0.00	
	060	0.00	0.30	0.60	0.00	0.00	0.30	0.00	
	070	0.00	0.60	0.30	0.00	0.60	0.00	0.00	
	080	0.30	0.00	0.60	0.00	0.00	0.00	0.00	
	090	0.00	0.30	0.00	1.21	0.30	0.00	0.00	
	100	0.00	0.00	0.30	0.60	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.60	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	770
	180	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.30	0.30	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.30	0.00	0.00	0.00	
	250	0.00	0.30	1.51	0.00	0.30	0.00	0.00	
	260	0.00	0.00	1.21	0.00	0.60	0.00	0.00	
	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.30	0.00	0.00	0.00	0.00	0.00	

	Wind Speed (kt) December								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.29	0.00	0.00	0.00	0.00	
	080	0.00	0.29	0.00	0.00	0.00	0.00	0.00	
	090	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	100	0.00	0.29	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	767
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.29	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.29	0.00	0.29	0.00	0.00	0.00	
	240	0.00	1.44	0.86	0.29	0.00	0.00	0.00	
	250	0.00	0.86	2.02	0.58	0.00	0.00	0.00	
	260	0.86	0.00	0.86	0.00	0.29	0.00	0.00	
	270	0.00	0.00	0.29	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.29	0.00	0.00	0.00	0.00	
	290	0.29	0.00	0.00	0.29	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	330	0.29	0.00	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.29	0.00	0.00	0.00	0.00	0.00	0.00	

3. VISIBILITY AND CEILING

3.1. Visibility

3.1.1. Hourly Visibility 10 Years

Cumulative frequencies in percent of visibility below specified values at specified times (months in 3.1.2.). Frequencies are calculated relative to all potentially possible observations each hour (month) minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 1.2% of all observations between 04 and 05 UTC showed a visibility below 5000 m.

	Visibility (m) 10 Years											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.6	1.2	4.6	95.4	71.2
	05 - 06	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.8	2.7	6.4	93.6	61.9
	06 - 07	0.0	0.0	0.1	0.2	0.3	0.4	0.8	1.9	4.1	9.2	90.8	49.7
	07 - 08	0.0	0.0	0.1	0.2	0.3	0.4	0.8	2.1	4.2	9.4	90.6	47.2
	08 - 09	0.0	0.0	0.0	0.2	0.3	0.4	0.6	1.6	3.5	8.5	91.5	47.5
	09 - 10	0.0	0.0	0.0	0.1	0.3	0.3	0.4	1.3	2.6	6.9	93.1	48.1
	10 - 11	0.0	0.0	0.0	0.1	0.2	0.2	0.4	1.0	2.2	6.1	93.9	48.2
	11 - 12	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.6	1.8	4.9	95.1	49.2
	12 - 13	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	1.2	4.2	95.8	49.6
	13 - 14	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	1.0	4.4	95.6	49.9
	14 - 15	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.5	1.3	4.3	95.7	50.6
	15 - 16	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.4	1.5	5.2	94.8	51.4
	16 - 17	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.7	3.7	96.3	61.0
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	3.2	96.8	77.7

3.1.2. Monthly Visibility 10 Years

Example (dark shading): In the 10 years period in March 1.8% of all observations showed a visibility below 5000 m.

	Visibility (m) 10 Years											
Time (Months)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	January	0.0	0.0	0.1	0.3	0.6	0.6	1.3	3.0	8.1	17.0	83.0	78.1
	February	0.0	0.0	0.2	0.8	1.1	1.3	1.7	3.5	5.7	13.9	86.1	79.4
	March	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	1.8	5.2	94.8	73.8
	April	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.7	1.3	4.0	96.0	70.5
	May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.7	98.3	70.4
	June	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	1.4	98.6	69.5
	July	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	98.9	69.9
	August	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.6	98.4	70.6
	September	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	98.2	69.6
	October	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.2	5.8	94.2	74.0
	November	0.0	0.0	0.0	0.0	0.1	0.1	0.5	2.0	4.9	12.1	87.9	76.4
	December	0.0	0.0	0.0	0.4	0.6	0.6	1.0	2.4	6.0	15.2	84.8	76.0

3.1.3. Hourly Visibility per Season

Example (dark shading): In the 10 years period in winter 13.2% of all observations between 05 and 06 UTC showed a visibility below 5000 m.

	Visibility (m) Winter (Dec/Jan/Feb)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	6.1	16.3	83.7	94.6
	05 - 06	0.0	0.0	0.3	1.0	1.7	1.7	2.4	3.4	13.2	21.6	78.4	83.6
	06 - 07	0.0	0.0	0.2	1.0	1.2	1.4	2.5	5.6	11.0	21.1	78.9	55.3
	07 - 08	0.0	0.0	0.2	0.7	1.2	1.3	2.4	5.8	11.0	21.2	78.8	49.1
	08 - 09	0.0	0.0	0.0	0.8	1.3	1.3	2.0	4.9	10.1	20.4	79.6	50.1
	09 - 10	0.0	0.0	0.0	0.5	1.0	1.2	1.5	4.1	7.6	18.4	81.6	50.9
	10 - 11	0.0	0.0	0.1	0.3	0.6	0.7	1.3	3.2	6.4	15.2	84.8	51.5
	11 - 12	0.0	0.0	0.1	0.6	0.6	0.6	0.7	2.1	5.5	13.1	86.9	52.1
	12 - 13	0.0	0.0	0.0	0.1	0.3	0.5	0.6	1.2	3.8	10.7	89.3	52.4
	13 - 14	0.0	0.0	0.0	0.2	0.2	0.3	0.5	0.7	2.6	10.2	89.8	52.3
	14 - 15	0.0	0.0	0.0	0.2	0.4	0.4	1.1	1.5	4.2	11.0	89.0	54.7
	15 - 16	0.0	0.0	0.0	0.1	0.3	0.3	0.8	1.3	4.6	13.3	86.8	55.7
	16 - 17	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.6	2.6	10.5	89.5	76.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	88.1	93.5

	Visibility (m) Spring (Mar/Apr/May)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	5.3	94.7	63.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.2	5.3	94.7	55.9
	06 - 07	0.0	0.0	0.0	0.0	0.2	0.2	0.5	1.0	2.6	6.2	93.8	48.6
	07 - 08	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.8	2.5	5.6	94.4	47.1
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	1.7	4.5	95.5	46.6
	09 - 10	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.5	1.1	3.3	96.7	47.9
	10 - 11	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	1.1	3.3	96.7	47.1
	11 - 12	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	2.0	98.0	49.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0	98.0	49.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	2.3	97.7	49.6
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	2.5	97.5	50.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	2.6	97.4	50.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	2.4	97.6	52.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	3.2	96.8	67.7

	Visibility (m) Summer (Jun/Jul/Aug)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.5	97.5	47.1
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	2.3	97.7	46.1
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	1.8	98.2	47.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	1.4	98.6	47.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	1.5	98.5	46.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	98.9	47.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	99.0	47.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	99.5	48.9
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	99.2	48.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	98.8	49.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	99.5	48.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	99.2	49.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	98.7	51.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	98.8	65.0

	Visibility (m) Autumn (Sep/Oct/Nov)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.6	0.6	1.1	1.4	1.7	5.7	94.3	80.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.9	7.0	93.0	62.5
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	3.6	9.6	90.4	48.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.6	3.5	10.1	89.9	45.5
	08 - 09	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.9	2.7	8.6	91.4	46.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.8	5.7	94.3	45.9
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.6	5.6	94.4	46.6
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.7	4.7	95.3	46.4
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	3.8	96.2	47.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	4.2	95.8	48.1
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.2	4.2	95.8	48.6
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	1.3	5.3	94.7	49.6
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.2	95.8	64.6
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.0	96.0	84.8

3.1.4. Hourly Visibility per Month

Example (dark shading): In the 10 years period in January 10.8% of all observations between 05 and 06 UTC showed a visibility below 5000 m.

	Visibility (m) January											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	13.2	86.8	93.9
	05 - 06	0.0	0.0	0.0	0.9	1.8	1.8	2.7	3.6	10.8	20.7	79.3	82.1
	06 - 07	0.0	0.0	0.4	0.7	1.1	1.1	3.3	6.2	12.8	21.2	78.8	56.0
	07 - 08	0.0	0.0	0.3	0.7	1.3	1.3	2.6	5.2	12.4	20.2	79.8	50.5
	08 - 09	0.0	0.0	0.0	1.0	1.6	1.6	3.0	6.2	13.1	21.0	79.0	50.8
	09 - 10	0.0	0.0	0.0	0.0	1.0	1.0	1.3	5.0	10.6	20.2	79.8	51.3
	10 - 11	0.0	0.0	0.3	0.3	0.3	0.7	1.7	4.4	9.2	17.3	82.7	52.6
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	7.0	15.1	84.9	54.0
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.4	14.0	86.0	51.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.7	14.4	85.6	51.9
	14 - 15	0.0	0.0	0.0	0.0	0.3	0.3	1.0	1.0	4.9	14.3	85.7	53.9
	15 - 16	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7	5.1	15.3	84.7	55.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	10.8	89.2	79.0
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	91.9	94.0

	Visibility (m) February											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	6.7	6.7	6.7	6.7	6.7	6.7	10.0	16.7	83.3	94.7
	05 - 06	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8	11.9	22.0	78.0	80.7
	06 - 07	0.0	0.0	0.4	1.3	1.3	1.3	2.1	5.6	9.0	21.0	79.0	58.7
	07 - 08	0.0	0.0	0.4	0.8	1.2	1.6	3.1	6.3	9.1	21.7	78.3	55.0
	08 - 09	0.0	0.0	0.0	0.8	1.7	1.7	2.5	6.3	9.2	20.8	79.2	57.4
	09 - 10	0.0	0.0	0.0	1.2	2.1	2.5	2.9	5.4	7.9	17.4	82.6	57.1
	10 - 11	0.0	0.0	0.0	0.8	1.7	1.7	2.1	4.2	6.4	11.9	88.1	58.2
	11 - 12	0.0	0.0	0.4	1.2	1.2	1.2	1.2	3.3	4.5	11.8	88.2	56.6
	12 - 13	0.0	0.0	0.0	0.4	1.3	1.3	1.3	2.2	2.6	7.4	92.6	59.4
	13 - 14	0.0	0.0	0.0	0.4	0.4	0.8	0.8	1.2	1.7	6.6	93.4	57.1
	14 - 15	0.0	0.0	0.0	0.4	0.4	0.4	0.9	1.8	2.7	7.6	92.4	60.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	4.2	12.1	87.9	57.4
	16 - 17	0.0	0.0	0.0	0.0	0.5	0.5	0.5	2.0	2.5	7.9	92.1	64.0
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	85.4	92.7

	Visibility (m) March											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8	5.7	94.3	91.5
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.5	8.0	92.0	73.7
	06 - 07	0.0	0.0	0.0	0.0	0.7	0.7	1.3	2.0	5.9	10.2	89.8	50.8
	07 - 08	0.0	0.0	0.0	0.0	0.3	0.6	0.6	1.5	4.3	8.0	92.0	47.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.9	3.3	6.0	94.0	46.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9	4.4	95.6	48.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	94.6	46.5
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	96.6	48.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.2	95.8	49.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	96.1	50.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	96.7	51.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.8	96.2	52.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	4.1	95.9	52.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.0	95.0	70.8

	Visibility (m) April											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	6.9	93.1	49.5
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	2.2	6.0	94.0	47.0
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.6	5.3	94.7	47.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	2.5	7.0	93.0	47.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.9	1.6	6.0	94.0	46.8
	09 - 10	0.0	0.0	0.0	0.0	0.3	0.6	0.6	1.2	1.2	4.3	95.7	46.3
	10 - 11	0.0	0.0	0.0	0.0	0.3	0.3	0.6	1.0	1.3	3.2	96.8	47.5
	11 - 12	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.7	1.7	98.3	50.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	49.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	2.0	98.0	49.3
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	2.6	97.4	49.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7	3.0	97.0	49.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.4	97.6	51.8
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.6	4.2	95.8	68.0

	Visibility (m) May											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	3.7	96.3	47.6
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	3.3	96.7	46.8
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	3.4	96.6	47.9
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	2.1	97.9	46.6
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	98.5	46.6
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	98.7	48.7
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	98.8	47.3
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	49.5
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	99.1	48.5
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	49.2
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	98.4	50.0
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	49.5
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	99.3	52.1
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	99.1	64.4

	Visibility (m) June											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.2	96.8	48.5
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	2.4	97.6	45.2
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	1.9	98.1	46.0
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.9	99.1	45.3
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	1.2	98.8	46.2
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	45.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	98.8	44.8
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	99.7	46.5
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	49.0
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	98.3	49.5
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	48.0
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	99.1	47.3
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	49.8
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	99.5	66.8

	Visibility (m) July											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8	98.2	45.5
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	2.4	97.6	46.8
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8	98.2	46.9
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	49.4
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	98.8	46.5
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	98.8	47.4
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	49.4
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	49.4
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	47.9
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	49.4
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	47.9
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	99.3	51.0
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	51.8
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	98.7	62.1

	Visibility (m) August											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.5	97.5	47.4
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	2.1	97.9	46.3
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.9	98.1	47.9
07 - 08	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6	0.6	2.1	97.9	47.1
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.2	97.8	47.6
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.6	98.4	50.2
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	48.9
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	99.3	50.8
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	49.4
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	50.2
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	50.5
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	50.2
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	98.3	52.9
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.9	98.1	66.1

	Visibility (m) September											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.6	96.4	53.2
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.6	96.4	43.7
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.4	95.6	43.0
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	96.7	44.0
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	97.6	45.2
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	98.5	44.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	99.4	46.8
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	99.7	45.5
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	47.2
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	99.4	47.5
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	99.7	48.3
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	99.1	47.3
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	50.3
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	98.4	69.2

	Visibility (m) October											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	2.2	2.2	4.4	4.4	4.4	11.1	88.9	92.7
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.5	8.1	91.9	58.2
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	3.4	9.4	90.6	48.4
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	2.1	8.5	91.5	46.6
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.6	92.4	47.1
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	95.2	46.6
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.0	96.0	47.1
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.0	96.0	47.7
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.1	96.9	47.6
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.4	95.6	48.4
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	96.2	48.5
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.5	95.5	50.2
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.7	94.3	60.3
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	93.8	92.3

	Visibility (m) November											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	3.8	3.8	7.7	11.5	11.5	19.2	80.8	95.7
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.1	17.4	82.6	85.7
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.5	7.4	16.2	83.8	52.7
07 - 08	0.0	0.0	0.0	0.0	0.0	0.3	1.2	4.6	8.6	18.8	81.2	46.0
08 - 09	0.0	0.0	0.0	0.0	0.3	0.3	0.9	2.8	6.6	16.1	83.9	47.2
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9	5.0	10.9	89.1	46.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8	4.3	12.0	88.0	45.8
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.0	9.8	90.2	45.8
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9	8.4	91.6	48.7
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.2	7.8	92.2	48.5
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	3.3	8.5	91.5	49.0
15 - 16	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.4	3.8	11.0	89.0	51.3
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.9	90.1	83.2
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.6	88.4	92.8

	Visibility (m) December											
Time (UTC)	< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	20.0	80.0	95.2
05 - 06	0.0	0.0	0.0	1.3	1.3	1.3	2.6	5.3	18.4	22.4	77.6	87.7
06 - 07	0.0	0.0	0.0	1.0	1.3	1.7	2.0	5.0	11.0	21.0	79.0	51.6
07 - 08	0.0	0.0	0.0	0.6	1.1	1.1	1.7	5.9	11.2	21.8	78.2	42.4
08 - 09	0.0	0.0	0.0	0.6	0.8	0.8	0.8	2.8	8.1	19.7	80.3	42.6
09 - 10	0.0	0.0	0.0	0.3	0.3	0.6	0.6	2.3	4.7	17.6	82.4	45.0
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	4.1	15.7	84.3	44.4
11 - 12	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.5	5.1	12.2	87.8	46.0
12 - 13	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9	3.3	10.0	90.0	46.8
13 - 14	0.0	0.0	0.0	0.3	0.3	0.3	0.6	0.6	2.2	9.0	91.0	48.2
14 - 15	0.0	0.0	0.0	0.3	0.3	0.3	1.3	1.6	4.5	10.4	89.6	50.3
15 - 16	0.0	0.0	0.0	0.3	0.3	0.3	1.0	1.4	4.5	12.2	87.8	53.9
16 - 17	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	3.1	15.5	84.5	84.4
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	87.5	93.5

3.2. Ceiling

3.2.1. Hourly Ceiling 10 Years

Frequencies in percent of the base height of the lowest cloud layer of BKN or OVC extent below specified values at specified times (months in 3.2.2). Frequencies are calculated relative to all potentially possible observations each hour (month) minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 0.1% of all observations between 04 and 05 UTC showed a base height of the lowest cloud layer of BKN or OVC below 1000 ft.

	Ceiling (ft) 10 Years									
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.1	0.4	0.5	45.4	71.3
	05 - 06	0.1	0.1	0.1	0.2	0.4	0.7	0.8	46.5	62.1
	06 - 07	0.2	0.3	0.4	0.7	0.8	1.4	1.5	44.5	50.0
	07 - 08	0.2	0.3	0.6	0.9	1.1	1.6	1.8	42.5	47.5
	08 - 09	0.3	0.3	0.6	0.8	0.8	1.3	1.4	41.8	47.6
	09 - 10	0.3	0.3	0.6	0.8	0.8	1.3	1.3	40.4	48.2
	10 - 11	0.3	0.3	0.5	0.6	0.7	1.0	1.1	40.1	48.3
	11 - 12	0.1	0.1	0.3	0.4	0.5	0.7	0.8	40.8	49.3
	12 - 13	0.1	0.1	0.2	0.3	0.3	0.6	0.6	41.2	49.7
	13 - 14	0.1	0.1	0.1	0.2	0.3	0.4	0.4	43.3	50.0
	14 - 15	0.1	0.1	0.2	0.3	0.3	0.4	0.4	45.3	50.8
	15 - 16	0.2	0.2	0.3	0.3	0.3	0.4	0.5	46.5	51.6
	16 - 17	0.0	0.0	0.0	0.1	0.1	0.3	0.3	47.0	61.1
	17 - 18	0.0	0.0	0.1	0.1	0.1	0.1	0.1	45.5	77.7

3.2.2. Monthly Ceiling 10 Years

Example (dark shading): In the 10 years period 0.1% of all observations in October showed a base height of the lowest cloud layer of BKN or OVC below 1200 ft.

	Ceiling (ft) 10 Years									
Time (Month)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	January	0.5	0.8	1.3	2.1	2.4	3.7	3.8	38.4	78.3
	February	1.0	1.1	1.3	1.5	1.8	2.9	3.0	49.2	79.8
	March	0.0	0.0	0.1	0.1	0.1	0.3	0.3	41.9	73.9
	April	0.3	0.3	0.4	0.5	0.6	0.7	0.8	49.8	70.6
	May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	70.4
	June	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.7	69.6
	July	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	70.0
	August	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	70.6
	September	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	69.6
	October	0.0	0.0	0.1	0.1	0.1	0.1	0.2	42.9	74.0
	November	0.2	0.2	0.7	1.0	1.4	1.8	2.0	49.1	76.4
	December	0.2	0.3	0.4	0.8	1.0	2.0	2.2	47.9	76.2

3.2.3. Hourly Ceiling per Season

Example (dark shading): In the 10 years period in winter 2.4% of all observations between 05 and 06 UTC showed a base height of the lowest cloud layer of BKN or OVC below 1000 ft.

	Ceiling (ft) Winter (Dec/Jan/Feb)								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	1.1	3.2	4.3	48.9	94.8
05 - 06	0.3	0.3	0.3	1.4	2.4	3.8	3.8	53.5	84.1
06 - 07	0.6	1.0	1.1	2.3	2.8	4.7	4.7	47.1	56.4
07 - 08	0.7	1.2	1.8	2.9	3.2	5.0	5.3	46.2	50.0
08 - 09	1.0	1.3	1.8	2.4	2.6	4.5	4.7	47.7	50.6
09 - 10	1.0	1.1	1.7	2.3	2.4	4.0	4.0	44.5	51.3
10 - 11	0.8	1.1	1.5	1.8	2.1	3.2	3.3	42.3	51.7
11 - 12	0.2	0.2	0.7	1.0	1.3	2.0	2.3	42.4	52.3
12 - 13	0.4	0.4	0.6	0.8	1.1	2.0	2.0	42.2	52.8
13 - 14	0.2	0.2	0.4	0.7	0.8	1.2	1.3	43.5	52.7
14 - 15	0.2	0.2	0.4	0.7	0.9	1.1	1.2	45.3	55.3
15 - 16	0.5	0.5	0.6	0.8	0.9	1.3	1.4	46.7	56.4
16 - 17	0.2	0.2	0.2	0.2	0.5	1.4	1.4	46.6	76.4
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1	93.5

	Ceiling (ft) Spring (Mar/Apr/May)								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.1	0.6	0.9	48.2	63.0
05 - 06	0.1	0.1	0.1	0.1	0.1	0.4	0.5	48.2	55.9
06 - 07	0.2	0.2	0.2	0.2	0.2	0.4	0.5	45.7	48.6
07 - 08	0.1	0.1	0.1	0.2	0.3	0.4	0.4	45.2	47.1
08 - 09	0.1	0.1	0.2	0.4	0.4	0.5	0.5	42.0	46.7
09 - 10	0.2	0.2	0.4	0.5	0.5	0.5	0.5	41.4	48.0
10 - 11	0.2	0.2	0.2	0.3	0.3	0.4	0.4	43.0	47.2
11 - 12	0.1	0.1	0.1	0.1	0.2	0.4	0.4	44.3	49.5
12 - 13	0.0	0.0	0.0	0.0	0.0	0.1	0.1	44.9	49.2
13 - 14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	46.6	49.6
14 - 15	0.1	0.1	0.1	0.1	0.1	0.1	0.1	49.0	50.4
15 - 16	0.1	0.1	0.1	0.1	0.1	0.1	0.1	50.6	50.9
16 - 17	0.0	0.0	0.0	0.1	0.2	0.2	0.2	51.1	52.3
17 - 18	0.0	0.0	0.2	0.2	0.2	0.3	0.3	50.4	68.0

	Ceiling (ft) Summer (Jun/Jul/Aug)								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	47.1
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.1	40.0	46.2
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	47.0
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	47.3
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	46.8
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	47.7
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	47.7
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	49.0
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	48.8
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	49.7
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.7	48.8
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	49.6
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5	51.5
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	65.1

	Ceiling (ft) Autumn (Sep/Oct/Nov)								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	0.3	0.3	52.4	80.8
05 - 06	0.0	0.0	0.0	0.0	0.3	0.7	0.7	51.1	62.5
06 - 07	0.0	0.1	0.3	0.4	0.7	1.0	1.2	47.7	48.1
07 - 08	0.1	0.1	0.6	0.7	1.0	1.2	1.6	45.5	45.5
08 - 09	0.0	0.0	0.4	0.5	0.5	0.6	0.7	46.1	46.4
09 - 10	0.0	0.0	0.2	0.5	0.6	0.8	0.9	44.1	45.8
10 - 11	0.1	0.1	0.2	0.3	0.4	0.6	0.8	41.3	46.6
11 - 12	0.1	0.1	0.3	0.4	0.5	0.5	0.6	42.0	46.3
12 - 13	0.0	0.0	0.1	0.3	0.3	0.5	0.5	42.0	47.9
13 - 14	0.0	0.0	0.0	0.1	0.2	0.3	0.3	44.9	48.0
14 - 15	0.2	0.2	0.2	0.2	0.3	0.3	0.3	48.3	48.7
15 - 16	0.2	0.2	0.3	0.3	0.3	0.4	0.4	46.4	49.5
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	64.5
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	84.8

3.2.4. Hourly Ceiling per Month

Example (dark shading): In the 10 years period in January 1.9% of all observations between 05 and 06 UTC showed a base height of the lowest cloud layer of BKN or OVC below 1000 ft.

	Ceiling (ft) January								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	2.7	2.7	54.1	94.0
05 - 06	0.0	0.0	0.0	0.9	1.9	2.8	2.8	52.3	82.7
06 - 07	1.5	2.3	2.6	4.2	4.9	7.2	7.2	40.0	57.3
07 - 08	1.0	2.3	3.0	4.7	5.0	7.0	7.3	38.5	51.5
08 - 09	1.3	1.3	2.0	3.0	3.3	5.3	5.6	38.2	51.5
09 - 10	0.7	1.0	2.0	2.7	2.7	4.3	4.3	37.5	51.8
10 - 11	1.0	2.1	2.7	3.1	3.1	4.8	4.8	34.7	53.1
11 - 12	0.0	0.0	1.1	1.8	1.8	2.8	3.2	34.6	54.4
12 - 13	0.0	0.0	0.7	1.4	2.0	2.7	2.7	36.8	52.3
13 - 14	0.0	0.0	0.3	1.0	1.0	1.4	1.7	36.9	52.4
14 - 15	0.0	0.0	0.0	1.1	1.4	1.8	1.8	38.7	54.2
15 - 16	0.4	0.4	0.4	0.7	1.1	1.8	1.8	41.0	56.3
16 - 17	0.0	0.0	0.0	0.0	0.0	0.8	0.8	40.8	79.0
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.8	94.0

	Ceiling (ft) February								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	3.7	7.4	40.7	95.2
05 - 06	0.0	0.0	0.0	1.0	2.9	4.9	4.9	46.6	81.7
06 - 07	0.4	0.9	0.9	1.8	2.2	4.4	4.4	48.9	59.8
07 - 08	1.2	1.6	2.0	2.4	3.2	5.2	5.2	50.4	55.7
08 - 09	1.7	2.1	3.0	3.0	3.4	4.7	5.1	53.2	58.3
09 - 10	2.5	2.5	2.9	3.3	3.3	4.6	4.6	47.3	57.6
10 - 11	1.3	1.3	1.7	2.1	2.6	3.4	3.4	48.9	58.3
11 - 12	0.8	0.8	0.8	0.8	1.2	1.6	2.1	47.3	56.9
12 - 13	0.9	0.9	0.9	0.9	0.9	1.8	1.8	42.7	59.8
13 - 14	0.8	0.8	0.8	0.8	1.3	1.7	1.7	48.1	57.6
14 - 15	0.5	0.5	0.5	0.5	0.5	0.9	0.9	50.2	61.9
15 - 16	0.4	0.4	0.9	0.9	0.9	0.9	0.9	56.5	59.2
16 - 17	0.5	0.5	0.5	0.5	0.5	1.5	1.5	51.0	64.9
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.7	92.7

	Ceiling (ft) March								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.0	1.9	1.9	34.0	91.5
05 - 06	0.0	0.0	0.0	0.0	0.0	1.2	1.8	43.6	73.7
06 - 07	0.3	0.3	0.3	0.3	0.3	1.0	1.3	43.8	51.0
07 - 08	0.0	0.0	0.0	0.0	0.0	0.3	0.3	42.8	47.3
08 - 09	0.0	0.0	0.0	0.0	0.0	0.3	0.3	41.1	46.6
09 - 10	0.0	0.0	0.3	0.3	0.3	0.3	0.3	39.6	48.7
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	46.5
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4	48.4
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.3	49.5
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	50.3
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7	51.3
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	53.2
16 - 17	0.0	0.0	0.0	0.0	0.3	0.3	0.3	47.6	52.6
17 - 18	0.0	0.0	0.6	0.6	0.6	0.6	0.6	41.6	71.3

	Ceiling (ft) April								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
04 - 05	0.0	0.0	0.0	0.0	0.3	1.0	1.3	51.5	49.5
05 - 06	0.3	0.3	0.3	0.3	0.3	0.3	0.3	53.1	47.0
06 - 07	0.3	0.3	0.3	0.3	0.3	0.3	0.3	50.8	46.8
07 - 08	0.3	0.3	0.3	0.6	0.9	0.9	0.9	50.6	47.3
08 - 09	0.3	0.3	0.6	1.3	1.3	1.3	1.3	44.5	46.8
09 - 10	0.6	0.6	0.9	1.2	1.2	1.2	1.2	41.4	46.5
10 - 11	0.6	0.6	0.6	1.0	1.0	1.3	1.3	45.9	47.7
11 - 12	0.3	0.3	0.3	0.3	0.7	1.4	1.4	47.5	50.8
12 - 13	0.0	0.0	0.0	0.0	0.0	0.3	0.3	50.5	49.8
13 - 14	0.7	0.7	0.7	0.7	0.7	0.7	0.7	51.0	49.3
14 - 15	0.3	0.3	0.3	0.3	0.3	0.3	0.3	53.0	49.7
15 - 16	0.3	0.3	0.3	0.3	0.3	0.3	0.3	53.0	49.7
16 - 17	0.0	0.0	0.0	0.3	0.3	0.3	0.3	53.5	52.0
17 - 18	0.0	0.0	0.0	0.0	0.0	0.5	0.5	53.9	68.2

	Ceiling (ft) May								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.3	47.4	47.6
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	46.8
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	47.9
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	46.6
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	46.6
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	48.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0	47.6
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5	49.4
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	48.4
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	49.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.2	50.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.1	49.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.4	52.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	64.5

	Ceiling (ft) June								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3	48.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.3	38.8	45.5
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	46.2
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	45.7
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	46.3
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	45.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	45.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4	46.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	49.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.2	49.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	48.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	47.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	49.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	66.7

	Ceiling (ft) July								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3	45.3
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.0	46.9
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.7	47.1
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	49.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6	46.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	47.4
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	49.5
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	49.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6	48.1
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	49.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	48.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	51.1
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8	51.8
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	62.3

	Ceiling (ft) August								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	47.4
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	46.1
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	47.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1	47.1
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	47.6
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	50.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	48.5
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	50.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.9	49.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	50.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	50.3
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.7	50.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	53.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	66.3

	Ceiling (ft) September								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.4	0.4	52.3	53.2
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.3	0.3	53.8	43.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.1	42.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.6	44.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4	45.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	44.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.1	47.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	45.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.2	47.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5	47.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7	48.3
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.3	47.3
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	50.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	69.3

	Ceiling (ft) October								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	93.1
	05 - 06	0.0	0.0	0.0	0.0	0.4	0.4	0.4	52.5	58.5
	06 - 07	0.0	0.0	0.3	0.3	0.6	0.6	0.9	46.5	48.7
	07 - 08	0.0	0.0	0.3	0.3	0.3	0.6	0.9	42.9	46.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.1	46.9
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.3	41.4	46.6
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.3	47.1
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2	47.9
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	47.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9	48.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	48.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	50.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3	60.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	92.1

	Ceiling (ft) November								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0	95.8
	05 - 06	0.0	0.0	0.0	0.0	1.2	3.5	3.5	36.0	85.7
	06 - 07	0.0	0.4	0.7	1.1	1.8	2.5	2.8	45.9	52.8
	07 - 08	0.3	0.3	1.5	1.9	2.8	3.1	4.0	46.9	46.0
	08 - 09	0.0	0.0	1.3	1.6	1.6	1.9	2.2	55.1	47.3
	09 - 10	0.0	0.0	0.6	1.6	1.9	2.5	2.5	52.6	46.5
	10 - 11	0.3	0.3	0.6	0.9	1.2	1.8	2.5	46.5	45.8
	11 - 12	0.3	0.3	0.9	1.2	1.5	1.5	1.8	48.2	45.7
	12 - 13	0.0	0.0	0.3	1.0	1.0	1.6	1.6	44.8	48.7
	13 - 14	0.0	0.0	0.0	0.3	0.6	1.0	1.0	51.4	48.2
	14 - 15	0.7	0.7	0.7	0.7	1.0	1.0	1.0	55.1	49.2
	15 - 16	0.7	0.7	1.0	1.0	1.0	1.4	1.4	52.2	51.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	83.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	92.7

	Ceiling (ft) December								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	3.3	3.3	3.3	50.0	95.2
	05 - 06	1.3	1.3	1.3	2.6	2.6	3.9	3.9	64.5	87.7
	06 - 07	0.0	0.0	0.0	1.0	1.4	2.7	2.7	52.2	52.4
	07 - 08	0.0	0.0	0.6	1.7	1.7	3.1	3.7	49.9	43.4
	08 - 09	0.3	0.8	0.8	1.4	1.4	3.7	3.7	52.1	42.7
	09 - 10	0.3	0.3	0.6	1.2	1.5	3.2	3.2	48.7	45.0
	10 - 11	0.3	0.3	0.3	0.6	0.9	1.7	2.0	44.2	44.2
	11 - 12	0.0	0.0	0.3	0.6	0.9	1.5	1.8	45.5	46.1
	12 - 13	0.3	0.3	0.3	0.3	0.3	1.5	1.5	46.6	47.1
	13 - 14	0.0	0.0	0.0	0.3	0.3	0.6	0.6	46.1	48.5
	14 - 15	0.3	0.3	0.7	0.7	0.7	0.7	1.0	47.9	50.5
	15 - 16	0.7	0.7	0.7	0.7	0.7	1.1	1.4	44.2	54.0
	16 - 17	0.0	0.0	0.0	0.0	1.0	2.1	2.1	45.4	84.4
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	93.5

3.3. Visibility and Ceiling

3.3.1. Hourly Visibility and Ceiling 10 Years

Cumulative frequencies in percent of visibility **or** base height of the lowest cloud layer of BKN or OVC extent below specified values at specified times (months in 3.3.2.). Frequencies are calculated relative to all potentially possible observations each hour (month) minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 6.1% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

	10 Years							
	Vis. (m)	**<800**	**<1500**	**<3000**	**<5000**	**<8000**	**≥8000**	**NA**
	Ceil. (ft)	**<200**	**<500**	**<1000**	**<1500**	**<2000**	**≥2000**	
Time (UTC)	**04 - 05**	0.2	0.3	0.7	1.7	5.0	98.7	71.2
	05 - 06	0.2	0.4	1.0	2.9	6.7	97.9	61.9
	06 - 07	0.4	0.9	2.1	4.4	9.5	96.3	49.6
	07 - 08	0.5	1.0	2.4	4.5	9.7	96.1	47.2
	08 - 09	0.5	0.9	1.8	3.8	8.7	96.4	47.3
	09 - 10	0.4	0.7	1.5	2.8	7.0	97.2	48.0
	10 - 11	0.3	0.6	1.1	2.5	6.1	97.5	48.2
	11 - 12	0.2	0.4	0.9	2.2	5.0	97.8	49.1
	12 - 13	0.1	0.2	0.5	1.5	4.4	98.3	49.5
	13 - 14	0.1	0.2	0.5	1.1	4.5	98.6	49.8
	14 - 15	0.2	0.3	0.6	1.4	4.4	98.6	50.5
	15 - 16	0.2	0.3	0.5	1.6	5.3	98.1	51.2
	16 - 17	0.1	0.1	0.4	0.8	3.7	98.9	60.9
	17 - 18	0.0	0.1	0.1	0.6	3.2	99.1	77.6

3.3.2. Monthly Visibility and Ceiling 10 Years

Example (dark shading): In the 10 years period 12.4% of all observations in November showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

	10 Years							
	Vis. (m)	**<800**	**<1500**	**<3000**	**<5000**	**<8000**	**≥8000**	**NA**
	Ceil. (ft)	**<200**	**<500**	**<1000**	**<1500**	**<2000**	**≥2000**	
Time (Month)	**January**	0.9	2.0	4.1	9.4	17.6	91.6	78.0
	February	1.5	2.0	3.8	6.1	14.4	93.6	79.3
	March	0.1	0.2	0.5	2.0	5.4	98.2	73.8
	April	0.3	0.4	0.8	1.5	4.2	98.8	70.5
	May	0.0	0.0	0.1	0.2	1.8	99.7	70.3
	June	0.0	0.1	0.1	0.2	1.5	99.8	69.5
	July	0.0	0.0	0.0	0.1	1.1	99.9	69.9
	August	0.0	0.0	0.1	0.2	1.6	99.7	70.6
	September	0.0	0.0	0.0	0.2	1.8	99.7	69.5
	October	0.0	0.2	0.3	1.2	6.0	98.6	73.9
	November	0.3	0.9	2.4	5.2	12.4	94.9	76.3
	December	0.8	1.1	2.8	6.5	15.3	93.5	76.0

3.3.3. Hourly Visibility and Ceiling per Season

Example (dark shading): In the 10 years period in winter 15.4% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

	Winter (Dec/Jan/Feb)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	2.0	2.0	3.0	10.1	19.2	91.9	100.0
	05 - 06	1.7	2.4	4.7	14.2	21.6	90.9	83.6
	06 - 07	1.6	2.7	6.2	12.3	21.7	89.6	55.3
	07 - 08	1.5	2.9	6.5	11.8	21.8	89.7	49.1
	08 - 09	1.9	2.9	5.6	11.2	20.9	89.8	49.8
	09 - 10	1.6	2.1	5.0	8.4	18.6	91.2	50.8
	10 - 11	1.0	1.9	3.8	7.2	15.4	92.6	51.4
	11 - 12	0.6	1.2	2.6	6.6	13.4	93.7	51.9
	12 - 13	0.6	0.8	1.9	4.4	11.3	95.0	52.3
	13 - 14	0.3	0.6	1.2	3.0	10.6	96.3	52.2
	14 - 15	0.5	1.1	2.0	4.5	11.2	95.6	54.7
	15 - 16	0.6	0.9	1.5	5.0	13.3	94.1	55.5
	16 - 17	0.7	0.7	1.9	3.0	10.7	96.3	76.2
	17 - 18	0.0	0.0	0.0	0.0	11.9	95.8	93.5

	Spring (Mar/Apr/May)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	1.0	2.1	5.9	98.7	62.9
	05 - 06	0.1	0.1	0.6	2.3	5.9	98.5	55.9
	06 - 07	0.3	0.5	1.0	2.7	6.3	98.0	48.5
	07 - 08	0.3	0.3	1.0	2.6	5.8	98.4	47.0
	08 - 09	0.2	0.3	0.7	1.7	4.7	98.7	46.6
	09 - 10	0.2	0.4	0.5	1.1	3.3	98.9	47.9
	10 - 11	0.2	0.2	0.3	1.1	3.3	98.8	47.1
	11 - 12	0.1	0.1	0.2	0.5	2.1	98.9	49.4
	12 - 13	0.0	0.0	0.0	0.2	2.1	99.6	49.2
	13 - 14	0.2	0.2	0.2	0.2	2.4	99.1	49.6
	14 - 15	0.1	0.1	0.1	0.1	2.5	99.6	50.2
	15 - 16	0.1	0.1	0.1	0.3	2.6	99.4	50.7
	16 - 17	0.0	0.0	0.3	0.7	2.5	99.4	52.0
	17 - 18	0.0	0.2	0.3	1.2	3.2	99.3	67.7

	Summer (Jun/Jul/Aug)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.4	2.6	99.9	47.1
	05 - 06	0.0	0.1	0.3	0.5	2.4	99.7	46.0
	06 - 07	0.0	0.1	0.2	0.3	1.9	99.9	46.8
	07 - 08	0.1	0.2	0.3	0.3	1.4	99.8	47.2
	08 - 09	0.0	0.1	0.1	0.2	1.5	99.8	46.7
	09 - 10	0.0	0.0	0.1	0.1	1.1	99.8	47.6
	10 - 11	0.0	0.0	0.0	0.1	1.0	99.6	47.6
	11 - 12	0.0	0.0	0.0	0.0	0.5	99.7	48.8
	12 - 13	0.0	0.0	0.0	0.0	0.8	99.8	48.6
	13 - 14	0.0	0.0	0.0	0.0	1.2	99.9	49.6
	14 - 15	0.0	0.0	0.0	0.0	0.5	100.0	48.8
	15 - 16	0.0	0.0	0.0	0.2	0.8	100.0	49.5
	16 - 17	0.0	0.0	0.0	0.1	1.3	99.9	51.4
	17 - 18	0.0	0.0	0.0	0.3	1.2	99.8	64.9

	Autumn (Sep/Oct/Nov)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.6	1.1	1.4	2.0	6.0	97.2	80.7
	05 - 06	0.0	0.1	0.9	2.2	7.4	97.5	62.4
	06 - 07	0.0	0.5	1.7	3.6	9.9	96.7	47.9
	07 - 08	0.2	0.8	1.8	3.6	10.4	96.2	45.4
	08 - 09	0.1	0.5	0.9	2.7	8.8	96.9	46.2
	09 - 10	0.0	0.3	0.7	2.0	5.9	98.3	45.6
	10 - 11	0.1	0.2	0.7	2.1	5.6	98.5	46.6
	11 - 12	0.1	0.3	0.8	1.8	4.7	98.6	46.3
	12 - 13	0.0	0.1	0.4	1.5	3.9	98.7	47.7
	13 - 14	0.0	0.0	0.5	1.5	4.2	98.9	48.0
	14 - 15	0.2	0.2	0.4	1.2	4.3	98.9	48.6
	15 - 16	0.2	0.3	0.5	1.4	5.4	98.3	49.3
	16 - 17	0.0	0.0	0.0	0.3	4.2	98.6	64.5
	17 - 18	0.0	0.0	0.0	0.4	4.0	98.6	84.7

3.3.4. Hourly Visibility and Ceiling per Month

Example (dark shading): In the 10 years period in January 17.7% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

	January							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	5.1	15.4	94.9	93.7
	05 - 06	1.8	2.7	4.5	11.7	20.7	93.7	82.1
	06 - 07	1.8	4.0	7.0	15.0	22.0	87.9	56.0
	07 - 08	1.6	3.6	6.5	13.7	20.8	88.9	50.5
	08 - 09	2.3	3.9	7.5	14.7	21.6	87.9	50.6
	09 - 10	1.3	2.3	5.9	11.8	20.4	89.1	51.0
	10 - 11	1.0	3.1	5.4	10.9	17.7	90.8	52.6
	11 - 12	0.0	1.4	3.1	8.7	16.1	92.3	53.9
	12 - 13	0.0	0.7	2.7	6.4	15.1	93.6	51.8
	13 - 14	0.0	0.3	1.3	4.7	15.1	94.3	51.9
	14 - 15	0.3	1.0	2.4	5.9	14.7	93.7	53.9
	15 - 16	0.4	0.4	1.5	5.8	15.3	92.0	55.8
	16 - 17	0.0	0.0	0.8	3.1	10.8	96.9	79.0
	17 - 18	0.0	0.0	0.0	0.0	8.1	97.3	94.0

	February							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	6.7	6.7	6.7	16.7	23.3	86.7	94.7
	05 - 06	1.8	1.8	4.6	13.8	22.0	86.2	80.7
	06 - 07	1.3	2.1	6.0	9.9	22.3	91.4	58.7
	07 - 08	2.0	3.5	6.7	9.8	22.8	90.9	55.0
	08 - 09	2.5	3.7	6.2	9.5	21.5	90.1	57.1
	09 - 10	3.3	3.7	5.8	8.3	17.8	90.9	57.1
	10 - 11	2.1	3.0	4.2	6.4	12.3	94.1	58.2
	11 - 12	1.2	1.2	3.3	4.9	11.8	94.3	56.4
	12 - 13	1.3	1.3	2.2	2.6	7.4	96.1	59.2
	13 - 14	0.8	0.8	1.6	2.1	7.0	96.7	56.9
	14 - 15	0.4	0.9	1.8	2.7	8.1	96.9	60.5
	15 - 16	0.4	1.3	1.7	4.2	12.5	95.8	57.4
	16 - 17	0.5	0.5	2.0	2.5	8.4	97.5	64.0
	17 - 18	0.0	0.0	0.0	0.0	14.6	95.1	92.7

	March							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	1.9	3.8	5.7	96.2	91.5
	05 - 06	0.0	0.0	0.6	6.1	8.6	96.9	73.7
	06 - 07	0.7	1.3	2.0	6.2	10.5	96.1	50.8
	07 - 08	0.6	0.6	1.5	4.3	8.2	97.0	47.1
	08 - 09	0.3	0.3	0.9	3.3	6.3	98.2	46.5
	09 - 10	0.0	0.3	0.3	1.9	4.4	98.7	48.7
	10 - 11	0.0	0.0	0.0	1.8	5.4	97.9	46.5
	11 - 12	0.0	0.0	0.0	0.3	3.4	98.8	48.2
	12 - 13	0.0	0.0	0.0	0.3	4.2	99.0	49.5
	13 - 14	0.0	0.0	0.0	0.0	3.9	98.1	50.2
	14 - 15	0.0	0.0	0.0	0.0	3.3	99.0	51.1
	15 - 16	0.0	0.0	0.0	0.3	3.8	99.0	52.7
	16 - 17	0.0	0.0	0.7	1.0	4.4	99.0	52.3
	17 - 18	0.0	0.6	0.6	1.1	5.0	98.9	70.8

	April							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	1.6	3.3	7.6	98.0	49.3
	05 - 06	0.3	0.3	0.9	2.2	6.9	98.4	46.8
	06 - 07	0.3	0.3	0.6	1.6	5.3	98.4	46.8
	07 - 08	0.3	0.3	1.3	2.8	7.3	98.7	47.3
	08 - 09	0.3	0.6	1.3	1.6	6.3	97.8	46.8
	09 - 10	0.6	0.9	1.2	1.2	4.3	98.1	46.3
	10 - 11	0.6	0.6	1.0	1.3	3.2	98.7	47.5
	11 - 12	0.3	0.3	0.7	1.4	2.0	99.0	50.8
	12 - 13	0.0	0.0	0.0	0.3	1.3	99.7	49.8
	13 - 14	0.7	0.7	0.7	0.7	2.3	99.3	49.3
	14 - 15	0.3	0.3	0.3	0.3	2.6	99.7	49.5
	15 - 16	0.3	0.3	0.3	0.7	3.0	99.3	49.7
	16 - 17	0.0	0.0	0.3	1.0	2.4	99.3	51.7
	17 - 18	0.0	0.0	0.5	2.6	4.2	99.0	68.0

	May							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.3	0.6	4.3	99.7	47.6
	05 - 06	0.0	0.0	0.3	0.6	3.6	99.4	46.8
	06 - 07	0.0	0.0	0.3	0.6	3.4	99.4	47.9
	07 - 08	0.0	0.0	0.3	0.6	2.1	99.4	46.6
	08 - 09	0.0	0.0	0.0	0.3	1.5	100.0	46.6
	09 - 10	0.0	0.0	0.0	0.3	1.3	99.7	48.7
	10 - 11	0.0	0.0	0.0	0.3	1.2	99.7	47.3
	11 - 12	0.0	0.0	0.0	0.0	1.0	99.0	49.2
	12 - 13	0.0	0.0	0.0	0.0	0.9	100.0	48.4
	13 - 14	0.0	0.0	0.0	0.0	1.0	100.0	49.2
	14 - 15	0.0	0.0	0.0	0.0	1.6	100.0	50.0
	15 - 16	0.0	0.0	0.0	0.0	1.3	100.0	49.5
	16 - 17	0.0	0.0	0.0	0.0	0.7	100.0	52.1
	17 - 18	0.0	0.0	0.0	0.0	0.9	100.0	64.4

	June							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.3	3.6	100.0	48.5
	05 - 06	0.0	0.3	0.3	0.9	2.7	99.7	45.2
	06 - 07	0.0	0.3	0.3	0.3	2.2	99.7	46.0
	07 - 08	0.0	0.3	0.3	0.3	0.9	99.7	45.3
	08 - 09	0.0	0.3	0.3	0.3	1.2	99.7	46.2
	09 - 10	0.0	0.0	0.0	0.0	0.6	99.7	45.3
	10 - 11	0.0	0.0	0.0	0.3	1.2	99.7	44.8
	11 - 12	0.0	0.0	0.0	0.0	0.3	100.0	46.5
	12 - 13	0.0	0.0	0.0	0.0	1.3	100.0	49.0
	13 - 14	0.0	0.0	0.0	0.0	1.7	100.0	49.5
	14 - 15	0.0	0.0	0.0	0.0	0.6	100.0	48.0
	15 - 16	0.0	0.0	0.0	0.3	0.9	100.0	47.3
	16 - 17	0.0	0.0	0.0	0.0	1.3	99.7	49.5
	17 - 18	0.0	0.0	0.0	0.0	0.5	100.0	66.7

	July							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.3	1.8	100.0	45.3
	05 - 06	0.0	0.0	0.3	0.3	2.4	100.0	46.8
	06 - 07	0.0	0.0	0.0	0.3	1.8	100.0	46.8
	07 - 08	0.0	0.0	0.0	0.0	1.3	100.0	49.2
	08 - 09	0.0	0.0	0.0	0.0	1.2	100.0	46.5
	09 - 10	0.0	0.0	0.0	0.0	1.2	100.0	47.4
	10 - 11	0.0	0.0	0.0	0.0	1.3	99.7	49.4
	11 - 12	0.0	0.0	0.0	0.0	0.6	99.7	49.2
	12 - 13	0.0	0.0	0.0	0.0	0.6	100.0	47.9
	13 - 14	0.0	0.0	0.0	0.0	1.0	100.0	49.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	100.0	47.9
	15 - 16	0.0	0.0	0.0	0.3	0.7	100.0	51.0
	16 - 17	0.0	0.0	0.0	0.0	1.0	100.0	51.8
	17 - 18	0.0	0.0	0.0	0.4	1.3	99.6	62.1

	August							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.6	2.5	99.7	47.4
	05 - 06	0.0	0.0	0.3	0.3	2.1	99.4	46.1
	06 - 07	0.0	0.0	0.3	0.3	1.9	100.0	47.7
	07 - 08	0.3	0.3	0.6	0.6	2.1	99.7	47.1
	08 - 09	0.0	0.0	0.0	0.3	2.2	99.7	47.6
	09 - 10	0.0	0.0	0.3	0.3	1.6	99.7	50.0
	10 - 11	0.0	0.0	0.0	0.0	0.6	99.4	48.5
	11 - 12	0.0	0.0	0.0	0.0	0.7	99.3	50.5
	12 - 13	0.0	0.0	0.0	0.0	0.6	99.4	49.0
	13 - 14	0.0	0.0	0.0	0.0	1.0	99.7	50.0
	14 - 15	0.0	0.0	0.0	0.0	1.0	100.0	50.3
	15 - 16	0.0	0.0	0.0	0.0	0.6	100.0	50.2
	16 - 17	0.0	0.0	0.0	0.3	1.7	100.0	52.9
	17 - 18	0.0	0.0	0.0	0.5	1.9	100.0	66.1

	September							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.7	3.6	99.3	53.2
	05 - 06	0.0	0.0	0.0	0.9	3.5	99.4	43.3
	06 - 07	0.0	0.0	0.0	0.6	4.4	99.7	42.8
	07 - 08	0.0	0.0	0.0	0.0	3.3	99.7	44.0
	08 - 09	0.0	0.0	0.0	0.0	2.4	99.4	45.0
	09 - 10	0.0	0.0	0.0	0.0	1.5	100.0	44.3
	10 - 11	0.0	0.0	0.0	0.0	0.6	100.0	46.8
	11 - 12	0.0	0.0	0.0	0.0	0.3	99.7	45.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	100.0	47.2
	13 - 14	0.0	0.0	0.0	0.3	0.6	100.0	47.3
	14 - 15	0.0	0.0	0.0	0.3	0.3	99.7	48.2
	15 - 16	0.0	0.0	0.0	0.0	0.9	100.0	47.0
	16 - 17	0.0	0.0	0.0	0.0	1.0	99.7	50.2
	17 - 18	0.0	0.0	0.0	0.0	1.6	100.0	69.2

	October							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	2.2	4.4	4.4	4.4	13.3	88.9	92.7
	05 - 06	0.0	0.4	1.5	1.9	9.3	98.1	58.2
	06 - 07	0.0	0.6	1.2	3.4	9.7	96.6	48.2
	07 - 08	0.0	0.3	0.3	2.1	8.7	97.6	46.3
	08 - 09	0.0	0.0	0.0	1.5	7.6	98.5	46.9
	09 - 10	0.0	0.0	0.0	0.9	4.8	99.1	46.5
	10 - 11	0.0	0.0	0.0	0.6	4.0	99.4	47.1
	11 - 12	0.0	0.0	0.0	1.2	4.0	99.4	47.7
	12 - 13	0.0	0.0	0.0	0.9	3.1	99.4	47.4
	13 - 14	0.0	0.0	0.0	0.9	4.4	100.0	48.4
	14 - 15	0.0	0.0	0.0	0.0	4.1	100.0	48.5
	15 - 16	0.0	0.0	0.0	0.3	4.5	99.4	50.0
	16 - 17	0.0	0.0	0.0	0.4	5.7	98.8	60.2
	17 - 18	0.0	0.0	0.0	0.0	6.1	98.0	92.1

	November							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	3.8	7.7	11.5	11.5	19.2	88.5	95.7
	05 - 06	0.0	0.0	2.3	8.1	17.4	88.4	85.7
	06 - 07	0.0	1.1	4.2	7.4	16.8	93.3	52.5
	07 - 08	0.6	2.2	5.2	8.9	19.4	91.1	45.8
	08 - 09	0.3	1.6	2.8	6.6	16.6	92.8	46.7
	09 - 10	0.0	0.9	2.2	5.2	11.4	95.7	46.0
	10 - 11	0.3	0.6	2.2	5.5	12.0	96.0	45.8
	11 - 12	0.3	0.9	2.5	4.3	9.8	96.6	45.7
	12 - 13	0.0	0.3	1.3	3.6	8.7	96.8	48.5
	13 - 14	0.0	0.0	1.6	3.2	7.7	96.8	48.2
	14 - 15	0.7	0.7	1.3	3.3	8.5	97.1	49.0
	15 - 16	0.7	1.0	1.7	4.1	11.2	95.2	51.0
	16 - 17	0.0	0.0	0.0	1.0	9.9	95.0	83.2
	17 - 18	0.0	0.0	0.0	2.3	11.4	93.2	92.7

	December							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	3.3	10.0	20.0	93.3	95.2
	05 - 06	1.3	2.6	5.3	18.4	22.4	93.4	87.7
	06 - 07	1.7	2.0	5.7	11.7	21.0	89.7	51.6
	07 - 08	1.1	2.0	6.4	11.5	21.8	89.4	42.4
	08 - 09	1.1	1.4	3.6	9.2	19.9	91.3	42.4
	09 - 10	0.6	0.9	3.5	5.6	17.5	93.3	44.8
	10 - 11	0.3	0.3	2.0	4.6	15.6	93.1	44.2
	11 - 12	0.6	0.9	1.8	6.0	12.2	94.3	45.8
	12 - 13	0.6	0.6	0.9	3.9	10.5	95.5	46.5
	13 - 14	0.3	0.6	0.6	2.2	9.0	97.8	48.2
	14 - 15	0.6	1.3	1.6	4.5	10.4	96.4	50.2
	15 - 16	1.0	1.0	1.4	4.9	12.2	94.8	53.5
	16 - 17	2.1	2.1	3.1	4.1	15.5	92.8	84.4
	17 - 18	0.0	0.0	0.0	0.0	12.5	95.0	93.5

4. TEMPERATURE

4.1. Temperature

4.1.1. Temperature 10 Years

Frequencies in percent of surface temperature in specified ranges of 5 degrees Celsius at specified times. Frequencies are calculated relative to all potentially possible observations each hour minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomena were observed.

Example (dark shading): In the 10 years period 16.4% of all observations between 14 and 15 UTC showed a temperature between 5 and 9° C.

	Temperature (° C) 10 Years														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.5	2.6	9.7	21.3	37.9	27.3	0.7	0.1	0.0	0.0	71.2
	05 - 06	0.0	0.0	0.0	1.2	5.0	14.4	21.2	30.9	25.6	1.7	0.0	0.0	0.0	62.0
	06 - 07	0.0	0.0	0.2	2.6	10.1	20.3	19.1	21.5	21.8	4.4	0.0	0.0	0.0	49.8
	07 - 08	0.0	0.0	0.2	2.7	9.5	19.7	18.5	18.2	21.2	9.6	0.3	0.0	0.0	47.4
	08 - 09	0.0	0.0	0.1	2.3	8.1	17.2	17.1	18.1	20.9	14.6	1.6	0.0	0.0	47.5
	09 - 10	0.0	0.0	0.0	1.8	6.4	14.9	16.0	18.3	20.8	17.3	4.6	0.1	0.0	48.2
	10 - 11	0.0	0.0	0.0	1.0	4.3	13.2	17.2	16.8	20.6	18.2	8.3	0.4	0.0	48.3
	11 - 12	0.0	0.0	0.0	0.2	2.9	10.9	18.5	16.0	20.6	18.6	11.5	0.8	0.0	49.2
	12 - 13	0.0	0.0	0.0	0.1	1.9	9.6	17.0	16.4	20.4	18.9	13.6	2.1	0.0	49.6
	13 - 14	0.0	0.0	0.0	0.1	1.5	9.3	17.2	16.7	19.7	18.3	13.7	3.4	0.0	50.0
	14 - 15	0.0	0.0	0.0	0.0	1.7	9.9	16.4	16.0	20.0	19.2	13.8	2.9	0.0	50.6
	15 - 16	0.0	0.0	0.0	0.1	2.9	10.7	16.7	16.3	19.7	18.8	12.5	2.2	0.0	51.4
	16 - 17	0.0	0.0	0.0	0.0	2.2	7.9	13.1	19.0	23.3	20.2	13.0	1.4	0.0	61.0
	17 - 18	0.0	0.0	0.0	0.0	1.8	5.6	11.0	17.0	27.0	23.6	13.3	0.7	0.0	77.7

4.1.2. Temperature per Month

Example (dark shading): In the 10 years period in January 42.5% of all observations between 14 and 15 UTC showed a temperature between 5 and 9° C.

	Temperature (° C) January													
Time (UTC)	< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
04 - 05	0.0	0.0	0.0	15.4	23.1	56.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	93.7
05 - 06	0.0	0.0	0.0	16.5	22.0	53.2	7.3	0.9	0.0	0.0	0.0	0.0	0.0	82.4
06 - 07	0.0	0.0	0.0	18.4	32.6	43.4	5.2	0.4	0.0	0.0	0.0	0.0	0.0	56.9
07 - 08	0.0	0.0	0.0	18.2	32.3	44.9	4.0	0.7	0.0	0.0	0.0	0.0	0.0	51.1
08 - 09	0.0	0.0	0.0	16.9	30.8	45.7	6.3	0.3	0.0	0.0	0.0	0.0	0.0	51.3
09 - 10	0.0	0.0	0.0	14.0	27.7	46.0	12.0	0.3	0.0	0.0	0.0	0.0	0.0	51.6
10 - 11	0.0	0.0	0.0	5.1	24.0	43.8	26.4	0.7	0.0	0.0	0.0	0.0	0.0	52.9
11 - 12	0.0	0.0	0.0	0.0	14.7	43.4	38.1	3.8	0.0	0.0	0.0	0.0	0.0	53.9
12 - 13	0.0	0.0	0.0	0.0	10.1	41.9	41.6	5.7	0.3	0.3	0.0	0.0	0.0	51.9
13 - 14	0.0	0.0	0.0	0.0	6.1	39.4	46.1	8.4	0.0	0.0	0.0	0.0	0.0	52.1
14 - 15	0.0	0.0	0.0	0.0	7.0	41.8	42.5	8.1	0.7	0.0	0.0	0.0	0.0	54.0
15 - 16	0.0	0.0	0.0	0.0	16.4	43.3	34.9	5.1	0.4	0.0	0.0	0.0	0.0	55.6
16 - 17	0.0	0.0	0.0	0.0	24.6	42.3	30.8	2.3	0.0	0.0	0.0	0.0	0.0	79.0
17 - 18	0.0	0.0	0.0	0.0	37.8	40.5	21.6	0.0	0.0	0.0	0.0	0.0	0.0	94.0

	Temperature (° C) February													
Time (UTC)	< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
04 - 05	0.0	0.0	0.0	3.4	34.5	48.3	13.8	0.0	0.0	0.0	0.0	0.0	0.0	94.9
05 - 06	0.0	0.0	0.0	3.7	41.7	46.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	80.9
06 - 07	0.0	0.0	0.9	5.2	34.3	51.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	58.7
07 - 08	0.0	0.0	0.4	4.3	28.7	56.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	55.0
08 - 09	0.0	0.0	0.8	2.1	22.3	55.0	19.4	0.4	0.0	0.0	0.0	0.0	0.0	57.1
09 - 10	0.0	0.0	0.0	1.7	10.3	51.7	35.1	1.2	0.0	0.0	0.0	0.0	0.0	57.1
10 - 11	0.0	0.0	0.0	0.8	7.6	36.4	47.9	7.2	0.0	0.0	0.0	0.0	0.0	58.2
11 - 12	0.0	0.0	0.0	0.4	5.3	26.8	53.3	14.2	0.0	0.0	0.0	0.0	0.0	56.4
12 - 13	0.0	0.0	0.0	0.4	2.6	18.3	50.7	23.6	4.4	0.0	0.0	0.0	0.0	59.4
13 - 14	0.0	0.0	0.0	0.0	2.9	20.7	46.3	27.7	2.5	0.0	0.0	0.0	0.0	57.1
14 - 15	0.0	0.0	0.0	0.0	3.1	19.3	43.0	29.6	4.9	0.0	0.0	0.0	0.0	60.5
15 - 16	0.0	0.0	0.0	0.0	3.8	21.8	48.1	23.0	3.3	0.0	0.0	0.0	0.0	57.6
16 - 17	0.0	0.0	0.0	0.5	4.0	27.5	52.0	16.0	0.0	0.0	0.0	0.0	0.0	64.5
17 - 18	0.0	0.0	0.0	0.0	0.0	29.3	70.7	0.0	0.0	0.0	0.0	0.0	0.0	92.7

	Temperature (° C) March													
Time (UTC)	< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
04 - 05	0.0	0.0	0.0	0.0	15.1	41.5	35.8	7.5	0.0	0.0	0.0	0.0	0.0	91.5
05 - 06	0.0	0.0	0.0	0.6	12.3	45.7	36.4	4.9	0.0	0.0	0.0	0.0	0.0	73.9
06 - 07	0.0	0.0	0.0	0.0	11.8	47.2	37.4	3.6	0.0	0.0	0.0	0.0	0.0	50.8
07 - 08	0.0	0.0	0.0	0.0	4.3	37.1	47.9	10.4	0.3	0.0	0.0	0.0	0.0	47.4
08 - 09	0.0	0.0	0.0	0.0	1.8	22.6	51.2	23.2	1.2	0.0	0.0	0.0	0.0	46.5
09 - 10	0.0	0.0	0.0	0.0	0.6	13.5	42.5	38.7	4.7	0.0	0.0	0.0	0.0	48.7
10 - 11	0.0	0.0	0.0	0.0	0.0	9.6	33.4	46.7	9.9	0.3	0.0	0.0	0.0	46.5
11 - 12	0.0	0.0	0.0	0.0	0.0	3.8	29.7	44.4	20.3	1.9	0.0	0.0	0.0	48.4
12 - 13	0.0	0.0	0.0	0.0	0.0	2.9	21.4	42.8	28.4	4.5	0.0	0.0	0.0	49.5
13 - 14	0.0	0.0	0.0	0.0	0.0	1.9	19.2	42.5	28.6	7.8	0.0	0.0	0.0	50.3
14 - 15	0.0	0.0	0.0	0.0	0.0	2.3	21.1	40.3	27.1	9.2	0.0	0.0	0.0	51.1
15 - 16	0.0	0.0	0.0	0.0	0.0	4.4	24.2	39.6	25.6	6.1	0.0	0.0	0.0	52.7
16 - 17	0.0	0.0	0.0	0.0	0.0	5.8	25.8	42.7	22.7	3.1	0.0	0.0	0.0	52.4
17 - 18	0.0	0.0	0.0	0.0	0.0	6.6	27.1	49.2	15.5	1.7	0.0	0.0	0.0	70.8

	Temperature (° C) April													
Time (UTC)	< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
04 - 05	0.0	0.0	0.0	0.0	2.3	34.0	51.2	11.9	0.7	0.0	0.0	0.0	0.0	49.5
05 - 06	0.0	0.0	0.0	0.0	0.3	32.4	50.3	16.4	0.6	0.0	0.0	0.0	0.0	47.0
06 - 07	0.0	0.0	0.0	0.0	0.0	20.2	51.4	27.8	0.6	0.0	0.0	0.0	0.0	47.2
07 - 08	0.0	0.0	0.0	0.0	0.0	10.5	48.9	34.0	6.7	0.0	0.0	0.0	0.0	47.5
08 - 09	0.0	0.0	0.0	0.0	0.0	3.5	38.4	42.5	15.7	0.0	0.0	0.0	0.0	47.0
09 - 10	0.0	0.0	0.0	0.0	0.0	2.2	24.4	46.9	24.4	2.2	0.0	0.0	0.0	46.7
10 - 11	0.0	0.0	0.0	0.0	0.0	1.9	19.7	39.0	32.4	7.0	0.0	0.0	0.0	47.5
11 - 12	0.0	0.0	0.0	0.0	0.0	2.0	11.9	32.8	42.7	10.2	0.3	0.0	0.0	51.2
12 - 13	0.0	0.0	0.0	0.0	0.0	1.3	11.3	34.0	35.7	16.7	1.0	0.0	0.0	50.0
13 - 14	0.0	0.0	0.0	0.0	0.0	2.0	10.6	30.0	39.6	16.5	1.3	0.0	0.0	49.5
14 - 15	0.0	0.0	0.0	0.0	0.0	1.3	10.6	29.7	39.3	18.5	0.7	0.0	0.0	49.5
15 - 16	0.0	0.0	0.0	0.0	0.0	2.3	13.2	30.5	38.7	14.9	0.3	0.0	0.0	49.7
16 - 17	0.0	0.0	0.0	0.0	0.0	3.1	14.8	35.5	36.2	10.3	0.0	0.0	0.0	51.7
17 - 18	0.0	0.0	0.0	0.0	0.0	4.7	26.2	34.0	28.8	6.3	0.0	0.0	0.0	68.2

	Temperature (° C) May														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	1.5	29.8	59.7	8.9	0.0	0.0	0.0	0.0	47.6
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.6	14.0	69.3	16.1	0.0	0.0	0.0	0.0	46.9
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.6	6.8	60.6	31.1	0.9	0.0	0.0	0.0	48.1
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	4.9	38.3	50.5	6.4	0.0	0.0	0.0	46.9
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	2.4	26.6	55.9	14.8	0.3	0.0	0.0	46.6
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	2.2	15.4	49.7	30.5	2.2	0.0	0.0	48.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.2	41.7	39.9	7.4	0.0	0.0	47.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	2.5	8.3	32.4	43.8	13.0	0.0	0.0	49.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	2.5	8.1	27.2	42.5	19.1	0.6	0.0	48.4
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.0	26.1	42.0	20.7	1.6	0.0	49.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.1	28.1	41.0	19.0	2.3	0.0	50.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	2.6	10.6	28.6	44.1	12.5	1.6	0.0	49.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	2.4	14.6	30.8	42.0	10.2	0.0	0.0	52.4
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	3.6	15.4	40.7	33.0	7.2	0.0	0.0	64.4

	Temperature (° C) June														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.6	9.7	53.4	34.3	1.9	0.0	0.0	0.0	48.5
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	3.0	44.2	46.6	6.1	0.0	0.0	0.0	45.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	1.2	32.4	50.6	15.7	0.0	0.0	0.0	46.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.6	20.4	47.0	30.8	1.2	0.0	0.0	45.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.3	12.1	40.2	40.9	6.5	0.0	0.0	46.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	36.0	40.2	16.2	0.3	0.0	45.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	30.2	38.4	26.3	1.8	0.0	44.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	25.2	36.8	31.8	3.7	0.0	46.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	21.0	34.4	34.1	8.9	0.0	49.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	17.2	36.0	33.0	11.6	0.0	49.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	17.6	35.3	34.6	9.6	0.0	48.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	19.6	35.1	33.9	7.9	0.0	47.3
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	26.4	32.3	31.4	5.6	0.0	49.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	26.5	35.5	30.5	2.0	0.0	66.7

	Temperature (° C) July														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	3.2	36.9	58.4	1.2	0.3	0.0	0.0	45.3
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.3	24.8	68.8	5.8	0.3	0.0	0.0	46.8
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	63.3	22.7	0.0	0.0	0.0	46.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	50.9	40.5	1.6	0.0	0.0	49.0
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	33.7	55.7	6.6	0.0	0.0	46.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	23.9	54.3	20.6	0.0	0.0	47.4
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	19.4	47.6	29.8	1.9	0.0	49.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	14.9	34.9	46.0	2.9	0.0	49.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	13.0	28.5	50.2	8.0	0.0	47.9
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	13.7	23.2	48.4	14.0	0.0	49.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	12.7	26.3	49.8	10.2	0.0	47.9
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	14.5	28.0	47.4	8.6	0.0	51.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	15.4	35.6	42.3	4.4	0.0	51.9
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	19.3	42.9	34.8	0.9	0.0	62.4

	Temperature (° C) August														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	3.4	35.0	60.4	1.2	0.0	0.0	0.0	47.4
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	2.4	27.8	67.7	2.1	0.0	0.0	0.0	46.1
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.3	13.0	77.2	9.6	0.0	0.0	0.0	47.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.9	58.5	35.4	0.9	0.0	0.0	47.1
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	39.2	52.5	4.9	0.0	0.0	47.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	25.8	57.7	14.5	0.3	0.0	50.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	17.6	47.5	32.4	0.6	0.0	48.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	16.9	39.1	39.1	3.3	0.0	50.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	13.6	34.5	43.0	7.0	0.0	49.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	10.0	29.4	45.3	12.9	0.0	50.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	11.7	32.5	42.5	11.4	0.3	50.3
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	12.0	38.2	40.8	7.4	0.0	50.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1	18.2	39.4	37.0	3.1	0.0	52.9
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.8	43.3	28.1	2.9	0.0	66.1

	Temperature (° C) September														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	1.4	30.9	52.5	14.9	0.0	0.4	0.0	0.0	53.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	2.4	32.1	51.8	13.8	0.0	0.0	0.0	0.0	43.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.3	23.3	55.7	20.4	0.3	0.0	0.0	0.0	42.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	12.5	52.4	33.6	1.5	0.0	0.0	0.0	44.0
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	4.2	40.9	47.3	7.6	0.0	0.0	0.0	45.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	1.5	27.8	53.3	17.1	0.3	0.0	0.0	44.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	53.3	27.3	2.2	0.0	0.0	46.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.6	13.1	41.2	39.3	5.8	0.0	0.0	45.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	37.9	42.3	9.8	0.0	0.0	47.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	35.8	41.5	12.0	0.0	0.0	47.3
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	38.9	39.5	10.6	0.0	0.0	48.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	14.5	40.7	36.3	8.2	0.0	0.0	47.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	1.3	17.7	49.8	27.1	4.0	0.0	0.0	50.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	3.2	25.9	53.0	17.8	0.0	0.0	0.0	69.2

	Temperature (° C) October														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	0.0	2.2	17.8	51.1	26.7	0.0	0.0	2.2	0.0	0.0	92.7
	05 - 06	0.0	0.0	0.0	0.0	0.4	17.4	53.9	27.5	0.8	0.0	0.0	0.0	0.0	58.4
	06 - 07	0.0	0.0	0.0	0.0	0.9	13.1	52.5	32.5	0.9	0.0	0.0	0.0	0.0	48.4
	07 - 08	0.0	0.0	0.0	0.0	0.6	6.6	47.3	42.8	2.7	0.0	0.0	0.0	0.0	46.5
	08 - 09	0.0	0.0	0.0	0.0	0.3	2.1	33.3	53.5	10.7	0.0	0.0	0.0	0.0	47.3
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.6	14.6	59.6	24.0	1.2	0.0	0.0	0.0	46.9
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.6	8.0	51.5	34.6	5.2	0.0	0.0	0.0	47.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	6.2	38.0	43.2	12.7	0.0	0.0	0.0	47.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	5.5	25.8	50.5	17.2	0.9	0.0	0.0	47.6
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	4.4	27.5	48.8	18.4	0.9	0.0	0.0	48.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.3	6.0	28.2	44.5	20.1	0.9	0.0	0.0	48.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	1.0	8.1	38.1	40.0	12.6	0.3	0.0	0.0	50.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	1.2	11.3	55.9	27.1	4.5	0.0	0.0	0.0	60.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	2.0	8.2	44.9	40.8	4.1	0.0	0.0	0.0	92.1

	Temperature (° C) November														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	3.8	19.2	53.8	23.1	0.0	0.0	0.0	0.0	0.0	0.0	95.7
	05 - 06	0.0	0.0	0.0	6.0	31.0	32.1	29.8	1.2	0.0	0.0	0.0	0.0	0.0	86.0
	06 - 07	0.0	0.0	0.0	2.1	22.2	44.7	29.2	1.4	0.4	0.0	0.0	0.0	0.0	52.7
	07 - 08	0.0	0.0	0.0	1.9	19.1	45.4	31.2	2.5	0.0	0.0	0.0	0.0	0.0	46.0
	08 - 09	0.0	0.0	0.0	0.9	18.2	40.3	34.6	5.7	0.3	0.0	0.0	0.0	0.0	47.0
	09 - 10	0.0	0.0	0.0	0.6	11.1	31.2	43.5	13.0	0.6	0.0	0.0	0.0	0.0	46.0
	10 - 11	0.0	0.0	0.0	0.0	6.2	24.5	49.1	17.7	2.5	0.0	0.0	0.0	0.0	46.3
	11 - 12	0.0	0.0	0.0	0.0	3.1	18.8	48.3	24.6	5.2	0.0	0.0	0.0	0.0	45.8
	12 - 13	0.0	0.0	0.0	0.0	1.0	19.2	39.1	34.2	6.5	0.0	0.0	0.0	0.0	48.8
	13 - 14	0.0	0.0	0.0	0.0	1.0	16.9	39.9	34.1	8.1	0.0	0.0	0.0	0.0	48.7
	14 - 15	0.0	0.0	0.0	0.0	0.3	19.6	41.8	30.4	7.8	0.0	0.0	0.0	0.0	49.0
	15 - 16	0.0	0.0	0.0	0.0	3.8	19.5	48.1	24.2	4.4	0.0	0.0	0.0	0.0	51.2
	16 - 17	0.0	0.0	0.0	0.0	5.0	27.0	51.0	13.0	4.0	0.0	0.0	0.0	0.0	83.3
	17 - 18	0.0	0.0	0.0	0.0	6.8	47.7	43.2	0.0	2.3	0.0	0.0	0.0	0.0	92.7

	Temperature (° C) December														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – - 1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
	04 - 05	0.0	0.0	0.0	6.7	46.7	36.7	10.0	0.0	0.0	0.0	0.0	0.0	0.0	95.2
	05 - 06	0.0	0.0	0.0	6.7	30.7	44.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	87.9
	06 - 07	0.0	0.0	1.4	9.5	34.6	43.7	10.5	0.3	0.0	0.0	0.0	0.0	0.0	52.4
	07 - 08	0.0	0.0	1.7	9.0	32.8	44.4	12.1	0.0	0.0	0.0	0.0	0.0	0.0	42.9
	08 - 09	0.0	0.0	0.6	8.5	28.2	47.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	42.7
	09 - 10	0.0	0.0	0.0	6.5	28.3	43.8	20.5	0.9	0.0	0.0	0.0	0.0	0.0	45.8
	10 - 11	0.0	0.0	0.0	5.8	16.3	48.0	28.2	1.7	0.0	0.0	0.0	0.0	0.0	44.5
	11 - 12	0.0	0.0	0.0	2.1	12.3	40.4	38.6	6.6	0.0	0.0	0.0	0.0	0.0	46.1
	12 - 13	0.0	0.0	0.0	1.2	9.5	34.5	42.7	11.3	0.9	0.0	0.0	0.0	0.0	47.1
	13 - 14	0.0	0.0	0.0	0.6	8.8	34.1	45.3	10.3	0.9	0.0	0.0	0.0	0.0	48.4
	14 - 15	0.0	0.0	0.0	0.3	11.5	40.7	40.3	7.2	0.0	0.0	0.0	0.0	0.0	50.8
	15 - 16	0.0	0.0	0.0	1.8	13.4	45.6	34.3	4.9	0.0	0.0	0.0	0.0	0.0	54.4
	16 - 17	0.0	0.0	0.0	0.0	17.5	60.8	18.6	3.1	0.0	0.0	0.0	0.0	0.0	84.4
	17 - 18	0.0	0.0	0.0	0.0	32.5	52.5	15.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5

4.2. Maximum Temperature

4.2.1. Maximum Temperature per Month

Maximum temperatures in degrees Celsius in specified time periods of 3 hours each month. Light grey shading denotes absolute maximum values for the respective period (day or year).

Example (dark shading): In the 10 years period in August the maximum temperature reported between 12 and 15 UTC was 35° C.

	Maximum Temperature (° C) 10 Years							
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**Day**	**NA**
	January	10	11	14	22	15	22	78.2
	February	8	10	14	18	17	18	79.4
	March	13	17	21	24	22	24	73.9
	April	16	19	25	26	25	26	70.6
	May	19	25	29	31	31	31	70.4
	June	27	27	32	33	33	33	69.5
	July	28	28	33	34	32	34	69.9
	August	23	28	32	35	34	35	70.6
	September	28	23	27	28	27	28	69.5
	October	27	18	24	26	25	27	74.0
	November	14	17	18	19	18	19	76.4
	December	9	10	13	16	12	16	76.2
	Year	28	28	33	35	34	35	73.2

4.2.2. Maximum Temperature in 10 Years

On the 11th of August 1998 at 1450 UTC a temperature of 35° C was reported.

4.3. Average Maximum Temperature

Average maximum temperatures in degrees Celsius in specified time periods of 3 hours each month.

Example (dark shading): In the 10 years period in July the average maximum temperature reported between 12 and 15 UTC was 31.1° C.

	Average Maximum Temperature (° C) 10 Years						
Time (Months)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**NA**
	January	2.1	5.1	8.7	10.8	8.6	78.2
	February	3.3	5.7	10.8	13.6	12.5	79.4
	March	7.0	11.6	17.1	19.7	18.4	73.9
	April	10.5	14.7	19.8	21.9	20.9	70.6
	May	15.6	20.9	25.6	27.3	26.2	70.4
	June	19.6	24.4	29.0	30.5	29.7	69.5
	July	19.9	24.7	29.0	31.1	30.1	69.9
	August	18.7	23.9	28.8	30.7	29.5	70.6
	September	16.0	19.8	24.1	25.6	24.2	69.5
	October	11.7	14.5	19.6	21.5	19.7	74.0
	November	3.9	9.0	13.0	14.4	12.4	76.4
	December	3.1	6.5	9.6	10.9	8.7	76.2

4.4. Minimum Temperature

4.4.1. Minimum Temperature per Month

Minimum temperatures in degrees Celsius in specified time periods of 3 hours each month. Light grey shading denotes absolute minimum values for the respective period (day or year).

Example (dark shading): In the 10 years period in February the minimum temperature reported between 06 and 09 UTC was -14° C.

	Minimum Temperature (° C) 10 Years							
Time (Month)	Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	Day	NA
	January	-10	-10	-9	-4	-5	-10	78
	February	-10	-14	-9	-6	-6	-14	79
	March	-6	-5	-1	1	1	-6	74
	April	-2	1	1	1	1	-2	71
	May	2	4	5	5	5	2	70
	June	4	7	10	12	10	4	70
	July	7	10	12	13	11	7	70
	August	5	7	11	12	9	5	71
	September	2	2	7	10	8	2	70
	October	-4	-4	2	4	2	-4	74
	November	-7	-9	-7	-2	-3	-9	76
	December	-10	-11	-10	-7	-7	-11	76
	Year	-10	-14	-10	-7	-7	-14	73

4.4.2. Minimum Temperature in 10 Years

On the 14th of February 1999 at 0650 UTC a temperature of -14° C was reported.

4.5. Average Minimum Temperature

Average minimum temperatures in degrees Celsius in specified time periods of 3 hours each month.

Example (dark shading): In the 10 years period in January the average minimum temperature reported between 06 and 09 UTC was -7.7° C.

	Average Minimum Temperature (° C) 10 Years						
Time (Months)	Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	NA
	January	-4.1	-7.7	-5.9	-1.0	-2.2	78.2
	February	-3.3	-5.6	-2.3	0.4	-0.2	79.4
	March	0.2	-1.3	3.5	6.1	4.6	73.9
	April	1.5	3.5	6.6	7.6	6.4	70.6
	May	6.5	9.1	11.7	12.8	11.8	70.4
	June	8.6	11.3	14.5	15.8	15.2	69.5
	July	10.6	13.3	16.2	16.9	16.5	69.9
	August	11.2	13.8	16.6	17.3	16.4	70.6
	September	5.8	7.6	11.7	13.6	11.8	69.5
	October	3.3	3.2	7.9	9.2	8.2	74.0
	November	-0.8	-3.7	-0.4	3.0	1.9	76.4
	December	-1.8	-6.9	-5.6	-1.8	-2.5	76.2

5. PRESSURE

5.1. Average Pressure (QNH)

Average pressure in hPa in specified time periods of 3 hours each month. Light grey shading denotes average pressure values for the times indicated during the whole day or year, respectively.

Example (dark shading): In the 10 years period in January the average pressure reported between 03 and 06 UTC was 1021.7 hPa.

	Average QNH 10 Years							
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**Day**	**NA**
	January	1021.7	1021.3	1021.4	1019.9	1020.1	1020.8	78.1
	February	1021.3	1019.9	1019.5	1018.1	1017.8	1019.1	79.3
	March	1018.1	1018.4	1017.4	1015.7	1015.7	1017.0	73.9
	April	1014.1	1014.2	1013.1	1011.7	1011.7	1012.9	70.5
	May	1016.1	1016.0	1014.6	1013.7	1013.4	1014.7	70.4
	June	1018.9	1018.4	1017.1	1015.8	1015.8	1017.1	69.8
	July	1018.2	1017.8	1016.5	1015.3	1015.0	1016.5	70.0
	August	1018.5	1018.3	1017.1	1015.8	1015.6	1017.1	70.6
	September	1016.6	1017.0	1015.9	1014.6	1014.6	1015.7	69.5
	October	1018.0	1019.2	1018.4	1016.8	1017.3	1018.0	74.1
	November	1018.7	1017.8	1016.9	1015.7	1016.0	1016.8	76.3
	December	1016.8	1018.2	1018.0	1016.6	1017.6	1017.6	76.0
	Year	1017.5	1018.0	1017.1	1015.7	1015.5	1016.8	73.2

5.2. Minimum Pressure (QNH)

5.2.1. Minimum QNH per Month

Minimum pressure in hPa in specified time periods of 3 hours each month. Light grey shading denotes minimum pressure values for the time indicated during the whole day or year, respectively.

Example (dark shading): In the 10 years period in December the minimum pressure reported between 03 and 06 UTC was 988 hPa.

	Minimum QNH 10 Years							
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**Day**	**NA**
	January	995	995	993	992	992	992	78.1
	February	999	995	993	992	992	992	79.3
	March	993	992	992	993	993	992	73.9
	April	991	993	992	992	992	991	70.5
	May	994	992	994	992	992	992	70.4
	June	999	999	999	998	998	998	69.8
	July	1001	1001	1002	1002	1002	1001	70.0
	August	1003	1003	1004	1003	1003	1003	70.6
	September	996	997	998	998	999	996	69.5
	October	997	996	996	996	997	996	74.1
	November	990	991	991	989	990	989	76.3
	December	988	990	993	991	992	988	76.0
	Year	988	990	991	989	990	988	73.2

5.2.2. Minimum QNH in 10 Years

On the 28th of December 1999 at 0550 UTC a minimum pressure of 988 hPa was reported.

5.3. Maximum Pressure (QNH)

5.3.1. Maximum QNH per Month

Maximum pressure in hPa in specified time periods of 3 hours each month. Light grey shading denotes maximum pressure values for the time indicated during the whole day or year, respectively.

Example (dark shading): In the 10 years period in February the maximum pressure reported between 06 and 09 UTC was 1040 hPa.

	Maximum QNH 10 Years							
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**Day**	**NA**
	January	1038	1039	1039	1037	1037	1039	78.1
	February	1038	1040	1040	1038	1037	1040	79.3
	March	1035	1037	1036	1035	1031	1037	73.9
	April	1033	1034	1033	1031	1031	1034	70.5
	May	1029	1029	1027	1025	1024	1029	70.4
	June	1029	1029	1027	1025	1026	1029	69.8
	July	1029	1029	1028	1026	1026	1029	70.0
	August	1028	1028	1026	1024	1025	1028	70.6
	September	1030	1031	1029	1027	1026	1031	69.5
	October	1033	1034	1033	1030	1030	1034	74.1
	November	1035	1036	1035	1033	1034	1036	76.3
	December	1035	1037	1037	1035	1035	1037	76.0
	Year	1038	1040	1040	1038	1037	1040	73.2

5.3.2. Maximum QNH in 10 Years

On the 11th of February 2001 at 0650 UTC a maximum pressure of 1040 hPa was reported.

6. WEATHER PHENOMENA

6.1. Freezing Rain

Cases of freezing rain in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in December between 03 and 06 UTC 1 observation reported freezing rain.

	Cases of Freezing Rain During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0	0	0	0	0	0	0	0	0	0	0	1	1	76.5
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	48.2
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	48.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	50.0
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	63.3
Day	0	0	0	0	0	0	0	0	0	0	0	1	1	73.2

6.2. Freezing Drizzle

Cases of freezing drizzle in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

In the 10 years period no observation reported freezing drizzle.

	Cases of Freezing Drizzle During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0	0	0	0	0	0	0	0	0	0	0	0	0	76.5
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	48.2
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	48.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	50.0
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	63.3
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	73.2

6.3. Snowfall

Frequencies in percent of snowfall in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in February between 06 and 09 UTC 3.6% of all observations reported snowfall.

	Frequencies of Snowfall During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	2.7	0.7	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	0.3	76.6
06 - 09	3.2	3.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	0.9	48.3
09 - 12	2.6	3.0	0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.7	0.7	48.6
12 - 15	0.8	2.7	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	0.5	50.1
15 - 18	0.9	2.5	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.7	0.4	63.4
Day	2.0	2.9	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	0.6	73.2

6.4. Hail

Cases of hail in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed.

Example (dark shading): In the 10 years period in December between 09 and 12 UTC 1 observation reported hail.

	Cases of Hail During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0	0	0	0	0	0	0	0	0	0	0	0	0	76.5
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	48.2
09 - 12	0	0	0	0	0	0	0	0	0	0	0	1	1	48.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	50.0
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	63.3
Day	0	0	0	0	0	0	0	0	0	0	0	1	1	73.2

6.5. Snow Pellets

Cases of snow pellets in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed.

In the 10 years period no observation reported snow pellets.

	Cases of Snow Pellets During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0	0	0	0	0	0	0	0	0	0	0	0	0	76.5
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	48.2
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	48.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	50.0
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	63.3
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	73.2

6.6. Thunderstorm

Frequencies in percent of thunderstorm in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in July between 15 and 18 UTC 1.3% of all observations reported thunderstorm.

	Frequencies of Thunderstorm During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0.0	0.0	0.0	0.0	0.1	0.7	0.6	0.4	0.0	0.0	0.0	0.0	0.3	76.5
06 - 09	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.1	48.2
09 - 12	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.1	48.5
12 - 15	0.0	0.0	0.0	0.0	0.8	0.5	0.3	0.5	0.0	0.0	0.0	0.0	0.2	50.0
15 - 18	0.0	0.0	0.0	0.0	0.8	0.9	1.3	0.9	0.2	0.0	0.0	0.0	0.4	63.3
Day	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.4	0.0	0.0	0.0	0.0	0.2	73.2

6.7. Fog (Without Shallow and Vicinity Fog)

Frequencies in percent of fog in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed.

Example (dark shading): In the 10 years period in February between 03 and 06 UTC 2.9% of all observations reported fog.

	Frequencies of Fog During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	1.4	2.9	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.9	0.0	0.9	0.3	76.5
06 - 09	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.2	0.3	48.2
09 - 12	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	48.5
12 - 15	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	50.0
15 - 18	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	63.3
Day	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.7	0.1	73.2

6.8. Shallow and Vicinity Fog

Frequencies in percent of shallow **or** vicinity fog in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed.

Example (dark shading): In the 10 years period in November between 06 and 09 UTC 0.8% of all observations reported shallow or vicinity fog.

	Frequencies of Shallow and Vicinity Fog During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	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	76.5
06 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.6	0.1	48.2
09 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5
12 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
15 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3
Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	73.2

6.9. Freezing Fog

Frequencies in percent of freezing fog in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in December between 09 and 12 UTC 0.3% of all observations reported freezing fog.

	Frequencies of Freezing Fog During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
06 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	48.2
09 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	48.6
12 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	50.1
15 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	63.3
Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	73.2

6.10. Rain

Frequencies in percent of rain in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in January between 03 and 06 UTC 16.2 % of all observations reported rain.

	Frequencies of Rain During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	16.2	5.8	8.1	7.8	9.3	8.0	5.9	4.7	10.0	5.3	6.4	11.3	7.7	76.5
06 - 09	7.9	7.3	5.8	7.8	7.5	7.8	6.0	4.4	7.9	8.7	9.0	8.7	7.4	48.2
09 - 12	8.2	3.7	5.7	4.3	5.9	5.6	6.4	5.1	5.8	6.1	9.5	6.9	6.2	48.5
12 - 15	8.2	5.5	4.5	6.2	7.5	6.3	5.1	6.9	5.3	6.7	5.8	8.1	6.3	50.0
15 - 18	10.4	7.9	5.3	8.3	9.1	6.3	6.0	6.4	6.4	6.3	5.7	7.1	7.0	63.3
Day	8.7	5.9	5.5	6.8	7.8	6.8	5.9	5.6	6.9	6.9	7.7	7.8	6.8	73.2

6.11. Drizzle

Frequencies in percent of drizzle in specified time periods of 3 hours per month. The value of NA is calculated relative to the potentially possible observations and is given in percent. It indicates the reduction of the data base due to NA. Light grey shading denotes values where the phenomenon was observed

Example (dark shading): In the 10 years period in November between 06 and 09 UTC 0.1% of all observations reported drizzle.

	Frequencies of Drizzle During 10 Years													
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
06 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	48.2
09 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5
12 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
15 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3
Day	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.2

Abbreviations

Aeronautical Abbreviations

METAR	Aviation Routine Weather Report
ICAO	International Civil Aviation Organisation
RWY	Runway
GRD	Ground
msl	Mean sea level
UTC	Coordinated Universal Time

Meteorological Abbreviations

RVR	Runway Visual Range
QNH	Reduced pressure to sea level according to ISA (International Standard Atmosphere)
CB	Cumulonimbus
Cloud amount: FEW	Few (1–2 Octas)
SCT	Scattered (3-4 Octas)
BKN	Broken (5-7 Octas)
OVC	Overcast (8 Octas)

Airports

LSZH	Zurich Airport
LSGG	Geneva Airport
LSZB	Bern Airport
LSZA	Lugano Airport
LSZR	Altenrhein Airport
LSZG	Grenchen Airport
LSGS	Sion Airport
LSGC	Les Eplatures Airport
LFSB	Basel Airport

Units of Measurement

ft	Feet
m	Metre
km	Kilometre
NM	Nautical mile
kt	Knot (nautical mile / hour)
° C	Degrees Celsius
hPa	Hectopascal
hr	Hour

Months

Jan	January
Feb	February
Mar	March
Apr	April
May	May
Jun	June
Jul	July
Aug	August
Sep	September
Oct	October
Nov	November
Dec	December

Other

NA	Not available

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