Arbeitsbericht

MeteoSchweiz
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205 Aeronautical Climatological Information Lugano LSZA

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6. WEATHER PHENOMENA

Introduction

This report „Aeronautical Climatological Information Lugano LSZA" may only be used by:

- Civil aviation airlines operating flights to or from Lugano airport including their administrative services as well as their crews
- Private pilots and crews operating flights from or to the airport
- Operative and administrative services of the airport
- 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 Lugano. In part A the reader gets introduced to the geographical setting of the airport, 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 22 to 03 UTC are usually missing due to the regular night break of the observer. This report contains only information about the period from 03 to 22 UTC. Each table or graphic contains the NA (not available) values of missing METAR. Depending on the operational opening hours of the airport, the amount of NA values between 22 and 06 local time is quite considerable.
All time information is given in UTC.
An index with the used abbreviations can be found on page 81.

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:

Olivier Duding, Karl Heinz Hack, Adrian Scherzinger, Mark Huber, Martin Peter, Marcel Haefliger, Markus Aebischer, Stefan Vonlanthen, Franziska Hoff, Barbara Kümin
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René Sieber, Patrik Jeller
Institute of Cartography
ETH Hoenggerberg

A Climatology

1. GEOGRAPHICAL SETTING

1.1. Overview Switzerland

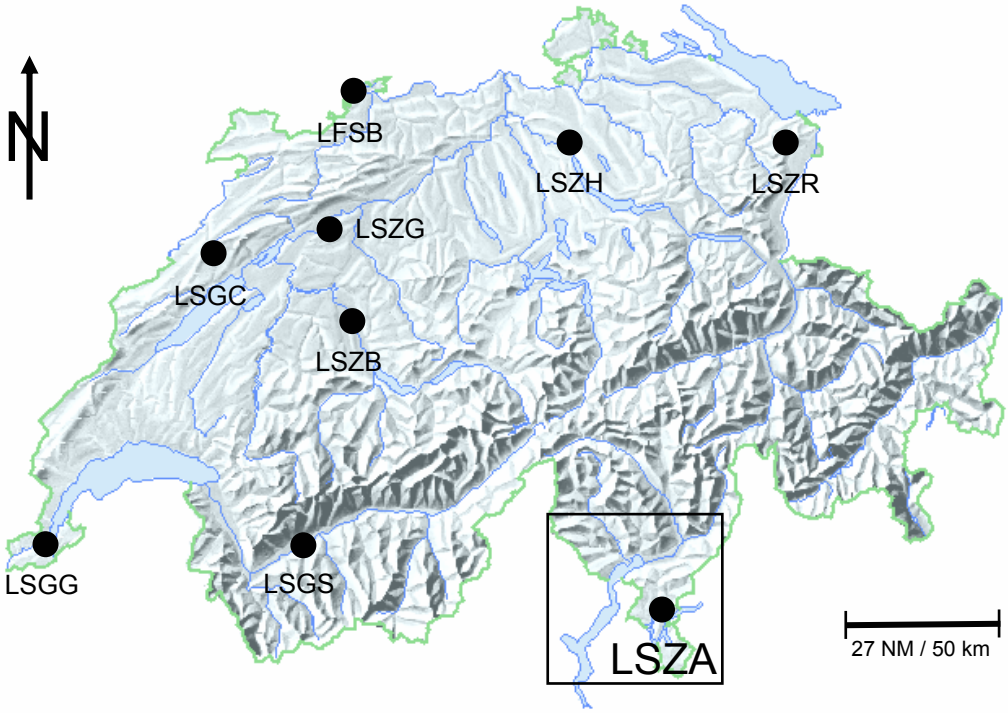


Figure 1: Most important airports of Switzerland

1.2. Overview Region Lugano

Lugano airport (official elevation 915 ft / 279 m) is located 2.5 NM / 4 km west of Lugano City (see also figures 1 and 2).
It is situated in the southern part of the Tessin, a region with low and moderate hills between the Alps and the plane of the Po river. The alpine foothills and behind them the Alps rise in the sector north-west to south-east of the airport. The orography of the hills next to the airport canalises the wind in two preferred directions: north and south.

Figure 2: 3 D map of the Lugano region
© Atlas of Switzerland – Version 2

Important Mountains in the Region:

Pizzo di Vogorno	8012 ft / 2442 m
Gridone	7179 ft / 2188 m
Monte Stabbiello	6942 ft / 2116 m
Monte Tamaro	6437 ft / 1962 m
Monte Generoso	5581 ft / 1701 m
Monte Bre	3035 ft / 925 m
San Salvatore	2992 ft / 912 m

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 summer time.

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 in the southern part of the Alps is significantly less affected by the associated Westerlies than the northern part due to the barrier effect of the Alps. The absence of westerly flow near the ground protects the south from the typical gales that can affect the north.

2.1.3. Local Weather Phenomena

Front Passes Over the Alps
Fronts (particularly warm fronts) which accompany westerly flow are usually not very active in the southern part of the mountain ridge because of the barrier effect of the Alps. The weather near the main alpine ridge is dominated by dense clouds and some precipitation caused by the westerly winds. The rest of the region is only affected by some clouds at middle or high altitude with a small risk of precipitation. Nevertheless, a small change in the main wind direction in the upper troposphere from west to south-west has important consequences for the weather character south of the Alps (see also chapter 2.4 southerly flow).

Freezing Rain
The meteorological conditions for this weather phenomenon rarely occur in the southern part of the Alps. Indeed, freezing rain has never been observed in Lugano in the last 10 years. This extremely rare event happens when a warm front with a high freezing level slides over a rather deep cold air pool in the plane of the Po river.

Snow
Snowfall which reaches the lower part of the atmosphere (or even the ground) occurs in two situations:
1) A layer of cold air with temperatures near the freezing level is trapped near the ground. Even precipitation with light or moderate intensity falls as snow.
2) If the precipitation rate is intense enough and is falling through relative warm air near the ground, the warm layer is cooled down to a temperature near 0° C. Precipitation will then turn into snow after some hours - depending on the intensity. The visibility drops from 3000 – 4000 m down to 800 – 1000 m or even below.
In Lugano snowfall occurs from November to March but is mainly observed from December to February.

Thunderstorm
In summer, especially after a sunny period with high temperatures, the passage of cold air in the upper atmosphere can increase the instability of the air mass and thunderstorms are developed. They are usually active near the main ridge of the Alps. Sometimes the area of the airport is also affected, because thunderstorms can be advected from the Monte Rosa region. There is an increased chance for thunderstorms in the mountains and hills near the airport compared to other parts of the region.

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 (north)
- Possibility of embedded CB`s in cold fronts (rarely in warm fronts)
- Alps and Jura obscured by clouds
- Crosswinds behind the cold fronts at Geneva airport (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 / Favonio) 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 on the Swiss Plateau 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. Northerly flow is less frequent and of a shorter duration in the western than in the eastern part of Switzerland.

2.2.3. Local Weather Phenomena

Barrier Clouds and Precipitation
Due to the barrier effect of the Alps the northerly flow gets mainly blocked over the Swiss Plateau and foothills of the Alps, the pressure increases and the air mass rises over the Alps. A closed cloud layer occurs above the Swiss Plateau with the lowest ceiling close to the Alps, accompanied by precipitation along the northern mountain range and in eastern Switzerland. Nevertheless, clouds and precipitation can pass the Alps. In situations with northerly Foehn there is usually a gradient in the cloud coverage from north to south: Near the alpine ridge clouds can be very frequent and the sky is overcast with a ceiling between 4000-5000 ft. Moving to the south the clouds dissipate and the ceiling rises. Precipitation is normally limited to the proximity of the alpine ridge unless the wind speed over the Alps is very high.

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 associated with terrain induced turbulence and low level wind gusts occur and the dry leeward down draught (Foehn wind) brings warm weather south of the Alps. The gustiness of the Foehn, which is called Favonio in Lugano, is significant. Gusts may reach 2 up to 4 times the mean velocity of the wind. The strongest wind gusts south of the Alps are usually observed in Foehn situations.

Thunderstorm
Situations with light Foehn in summer trigger a convergence line near the borders between Switzerland and Italy. Thunderstorms frequently develop along this convergence line.

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
  - Mountains near the alpine ridge obscured by clouds

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 weather type.

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 westerly, northerly or southerly flow.
Because of the flow split the Bise is more frequent in the western part than in the eastern part of Switzerland.

2.3.3. Local Weather Phenomena

Stratus
In situations with a high pressure system moving from west to east relative cold air can pass over the rather low eastern Alps (Austria), descending in the Pianura Padana and then coming back to the western part of the Alps. The moderately moist air over the Pianura Padana is pushed to the southern slope of the Alps and generates stratus clouds with a ceiling between 2500 – 5000 ft. During winter this stratus may last during the whole day. In summer it usually dissipates during the first hours of the morning. A persistent overcast sky rarely occurs; nevertheless stratus situations (with a diurnal cycle) can last for several days. Above the stratus layer the atmosphere is clear due to anticyclonic influence.

2.3.4. Aviation Hazards

- Strong winds and turbulence near the ground especially in western Switzerland
- 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
- Stratus: - Poor visibility below the stratus layer
  - Mountains obscured by cloud
  - 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 North Atlantic 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 north of the Alps are often associated with southerly flow. The usually dry and rather 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.
South-westerly flow (wind direction at 500 hPa less than 230°) has a similar effect on the region south of the Alps.

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

Barrier Clouds and Precipitation
With southerly flow the alpine ridge acts like a barrier. The humid air mass, which comes from the Mediterranean Sea, flows over the Alps. In this case the presence of an easterly low level jet over the plane of the Po river reinforces the convergence near the Alps . Humidity condenses to clouds and causes precipitation on the windward side. Precipitation can last for several days (sometimes even weeks) and may cause considerable amounts of precipitation during short time. The cloud cover can be very persistent with a low ceiling. Visibility near the ground is also poor (1500 to 300 m or even less, during periods with high precipitation intensity). Since fronts may be stationary and embedded thunderstorms can be developed over the region, large amounts of precipitation can be observed with this weather situation.

Foehn Wind
In the Foehn valleys at the northern side of the Alps it is mostly warm, windy and dry with high visibility.
When the pressure gradient is big enough, the warm and dry Foehn influences the central and eastern part of Switzerland. Approaching fronts from the west usually are slowed down and the sky keeps relatively clear.

2.4.4. Aviation Hazards

- South of the Alps:
  - Very low ceiling, poor visibility, persistent and sometime heavy precipitation, icing conditions in clouds
  - Embedded 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 thunderstorms. 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 from mid afternoon to late evening, 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 Lugano thunderstorms are most frequent from May to September between 12 and 00 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, too.

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 temperature 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 strong 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
The important conditions for radiation fog are clear sky (increased radiation with the development of an inversion layer), low wind speed and high relative humidity. South of the Alps these conditions are usually fulfilled during the first night with clear sky after a period of precipitation. The formation of radiation fog, which is not connected to a precipitation event, is rarely observed in the region of the airport Lugano. It may occur when radiation fog from plane of the Po river, where this phenomenon is frequently observed, moves toward the Alps caused by a small pressure gradient. This fog rises into the valleys on the southern part of the mountains.
The visibility in areas with radiation fog can drop quite rapidly from 800 – 1000 m to 100 – 200 m.
In Lugano radiation fog is observed during the whole year, but mainly occurs from October to April. Fog doesn't usually last for the whole day but concentrates on the morning and evening hours. Even in winter, there is a high chance for fog dissipation during the late morning or afternoon hours.

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

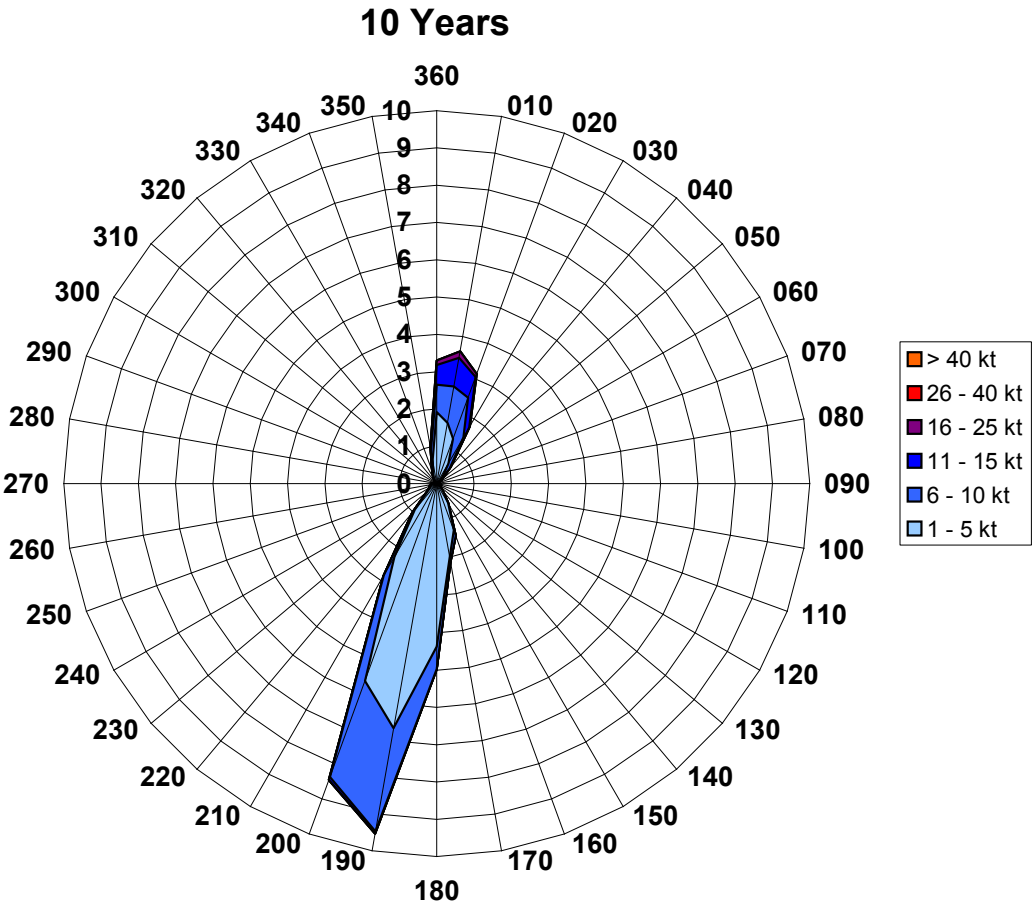
1. WIND

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 9.4 % of all observations showed a wind speed between 1 and 15 knots with a concurrent wind direction of 190 degrees.

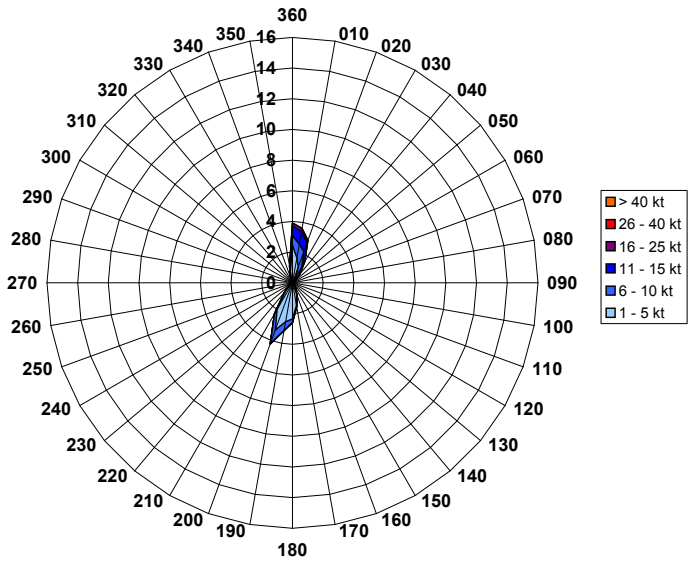


NA: 37.5 %
Calm: 51.1 %
Variable: 1.3 %

1.1.2. Wind Polygon per Season

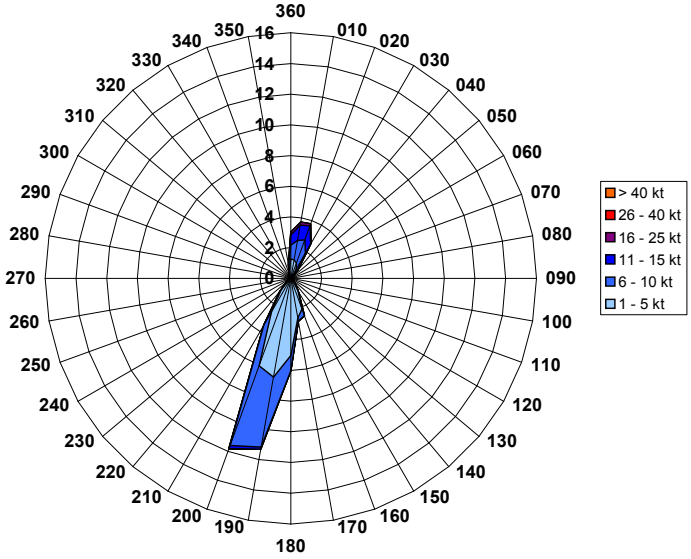
Example: In the 10 years period in winter 4.2% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 200 degrees.

Winter (Dec/Jan/Feb)



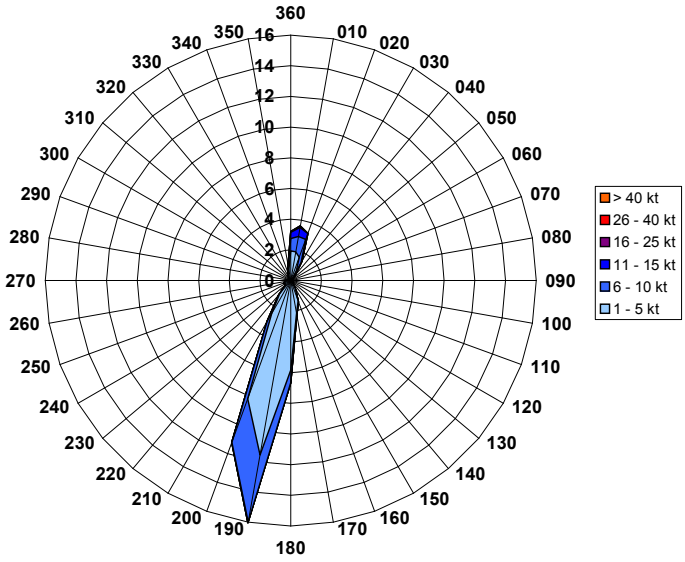
NA: 43.5 %
Calm: 67.6 %
Variable: 0.8 %

Spring (Mar/Apr/May)



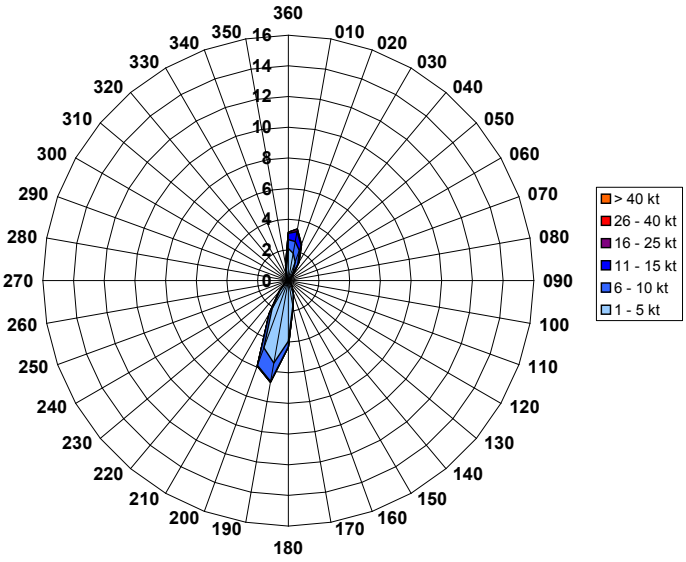
NA: 35.6 %
Calm: 40.0 %
Variable: 1.3 %

Summer (Jun/Jul/Aug)



NA: 35.7 %
Calm: 37.9 %
Variable: 2.1 %

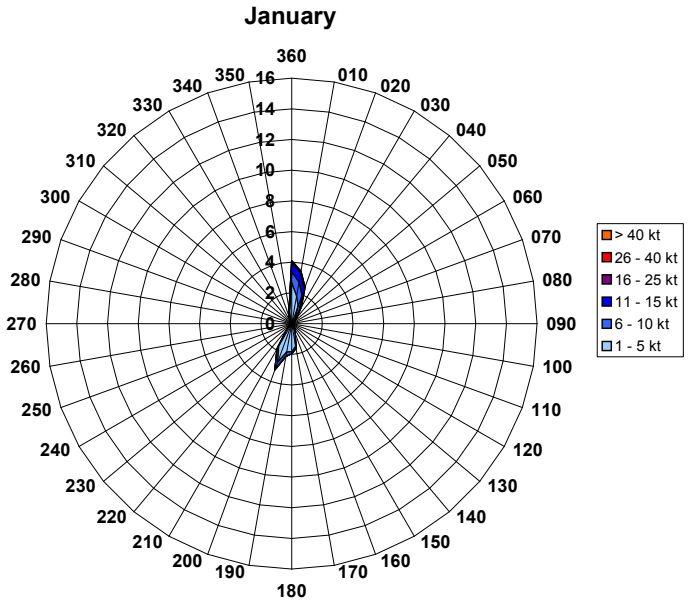
Autumn (Sep/Oct/Nov)



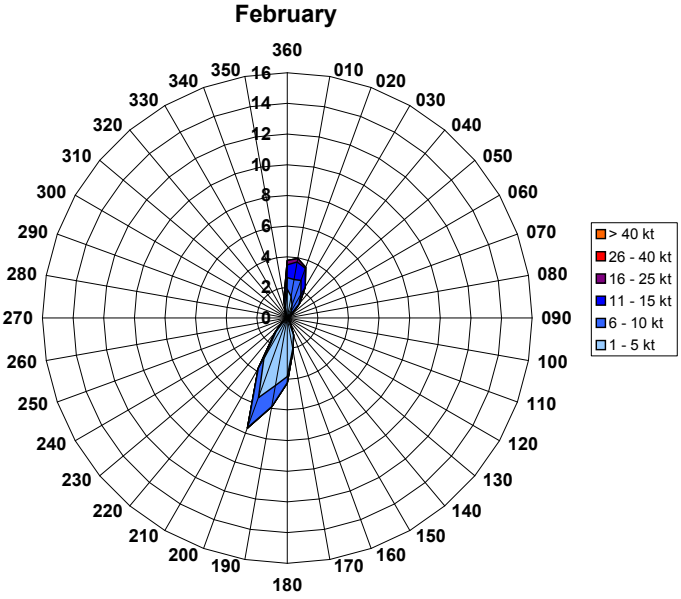
NA: 35.1 %
Calm: 61.1 %
Variable: 1.1 %

1.1.3. Wind Polygon per Month

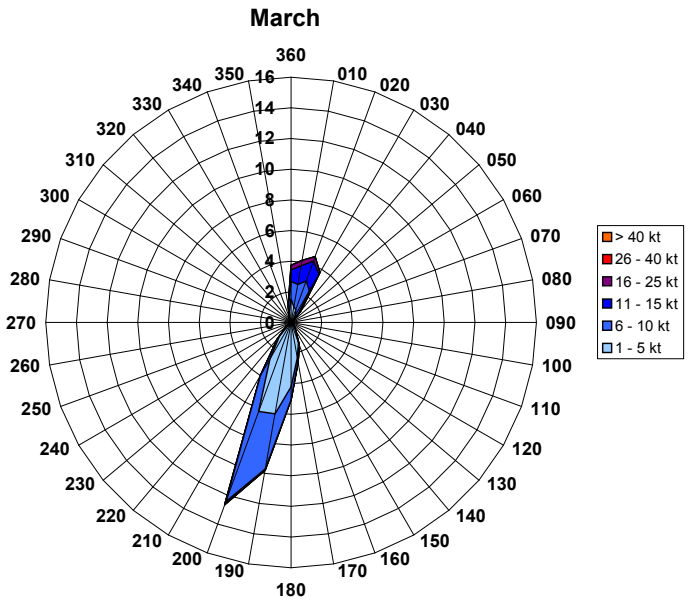
Example: In the 10 years period in January 4.1% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 360 degrees.



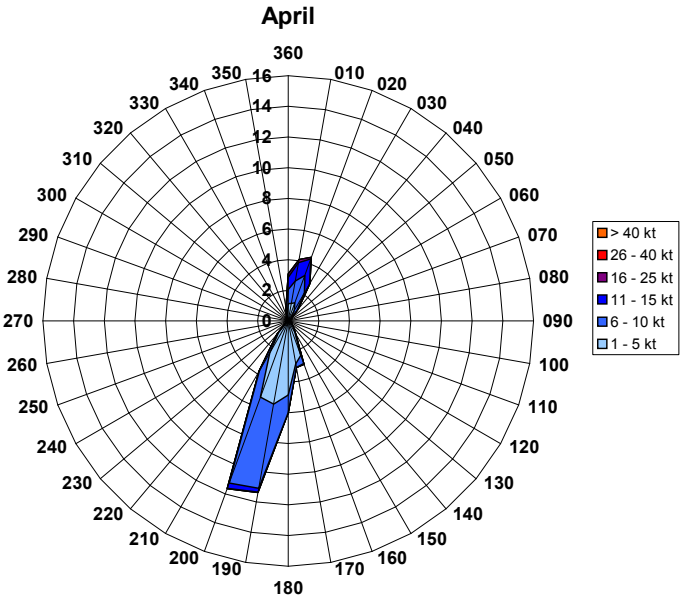
NA: 44.6 %
Calm: 72.3 %
Variable: 0.6 %



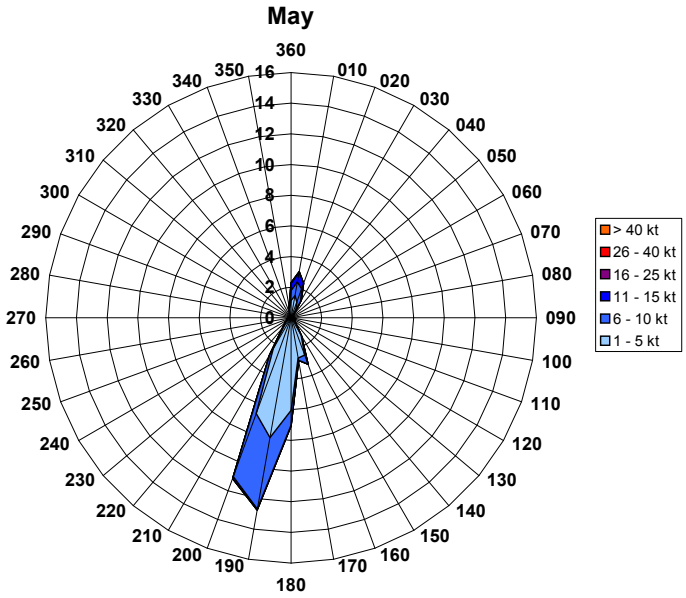
NA: 48.0 %
Calm: 54.1 %
Variable: 1.0 %



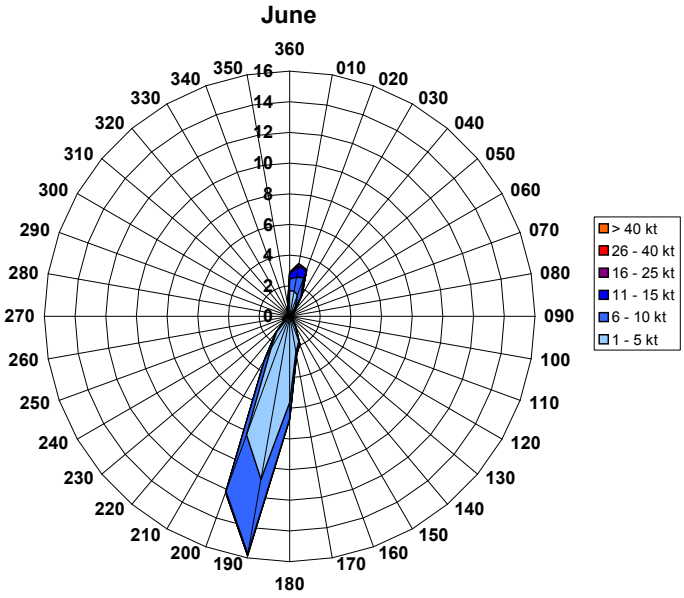
NA: 35.6 %
Calm: 40.2 %
Variable: 0.9 %



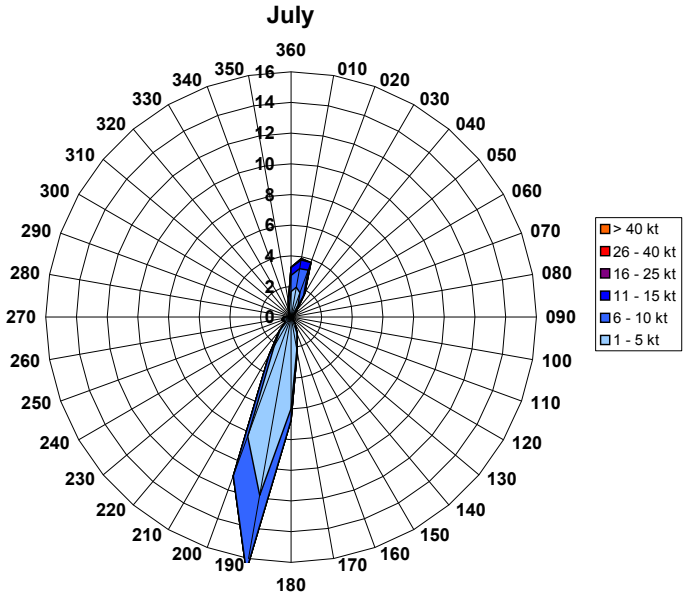
NA: 36.4 %
Calm: 37.3 %
Variable: 1.8 %



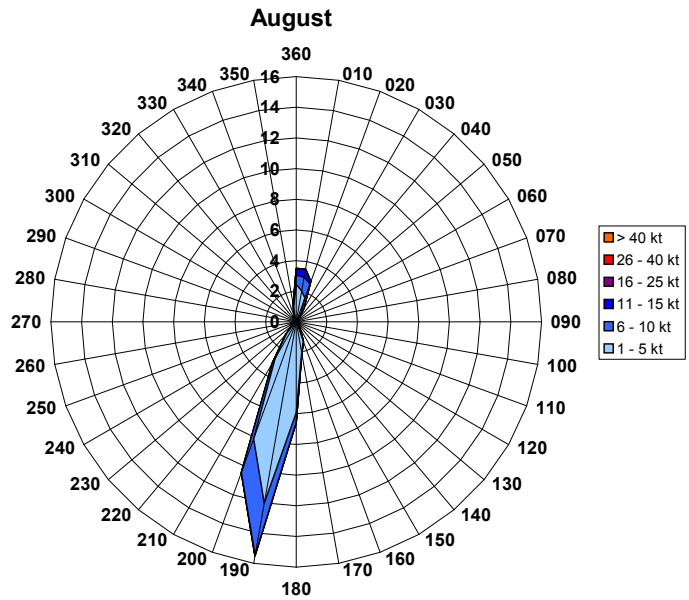
NA: 34.9 %
Calm: 42.5 %
Variable: 1.3 %



NA: 34.8 %
Calm: 35.9 %
Variable: 2.4 %

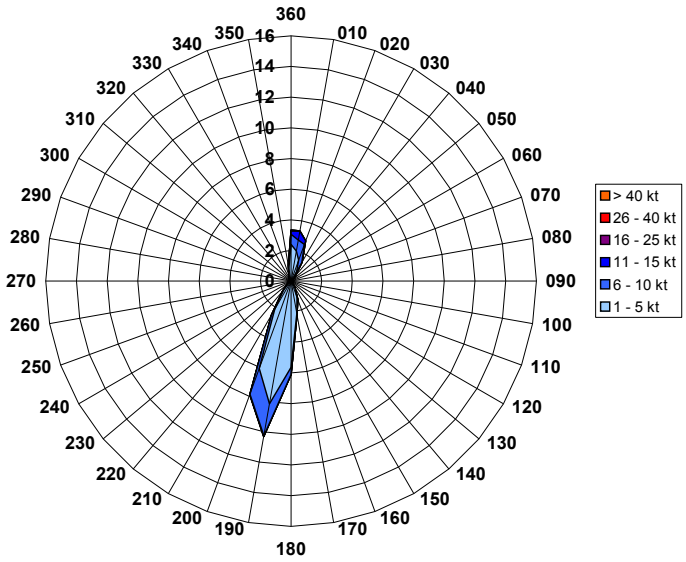


NA: 37.2 %
Calm: 36.1 %
Variable: 2.2 %



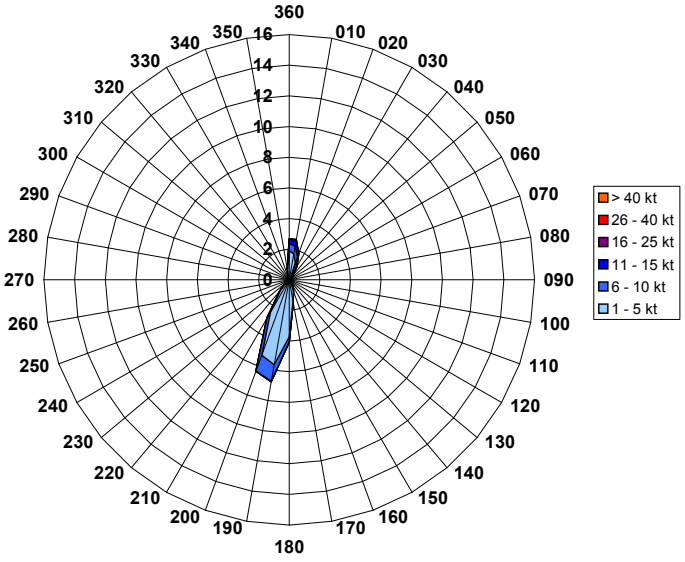
NA: 35.1 %
Calm: 41.6 %
Variable: 1.6 %

September



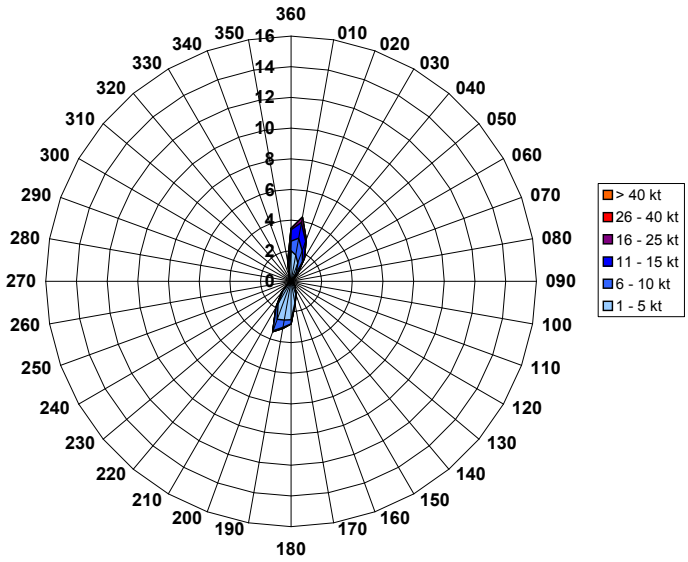
NA: 35.0 %
Calm: 51.5 %
Variable: 1.8 %

October



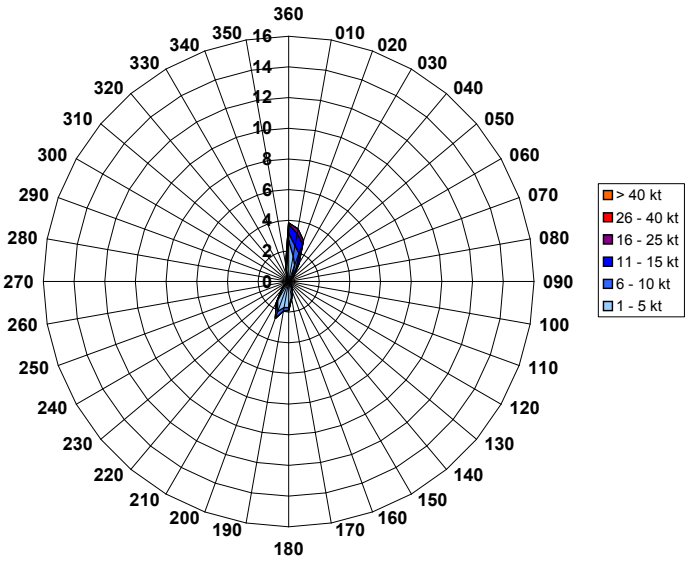
NA: 34.9 %
Calm: 64.7 %
Variable: 0.6 %

November



NA: 35.3 %
Calm: 67.1 %
Variable: 1.0 %

December



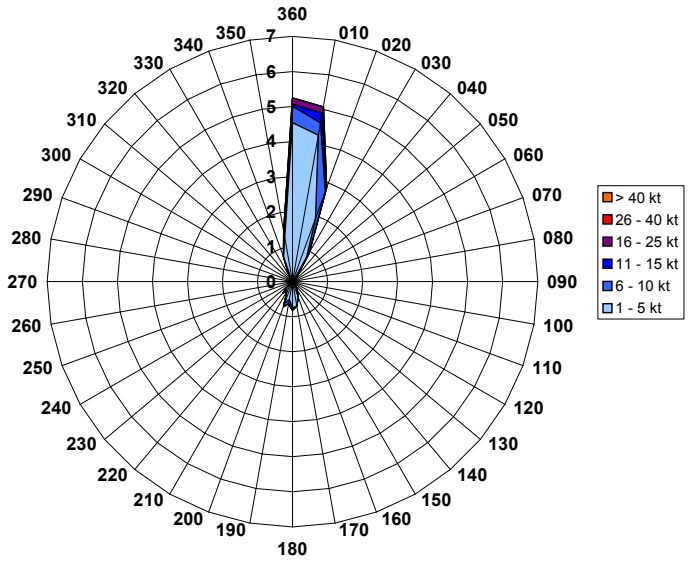
NA: 38.4 %
Calm: 73.8 %
Variable: 0.8 %

1.1.4. Wind Polygon per Hour

Example: In the 10 years period between 03 and 04 UTC 5.3% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 360 degrees.

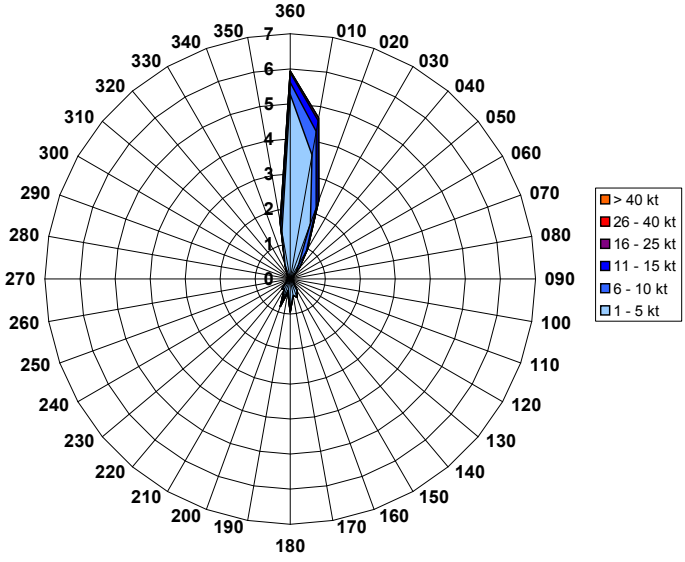
Attention must be paid to the different scales! For the early morning, evening and night the scale is between 0% and 7%, during the day from 09 to 17 UTC it is between 0% and 22%.

03 - 04 UTC



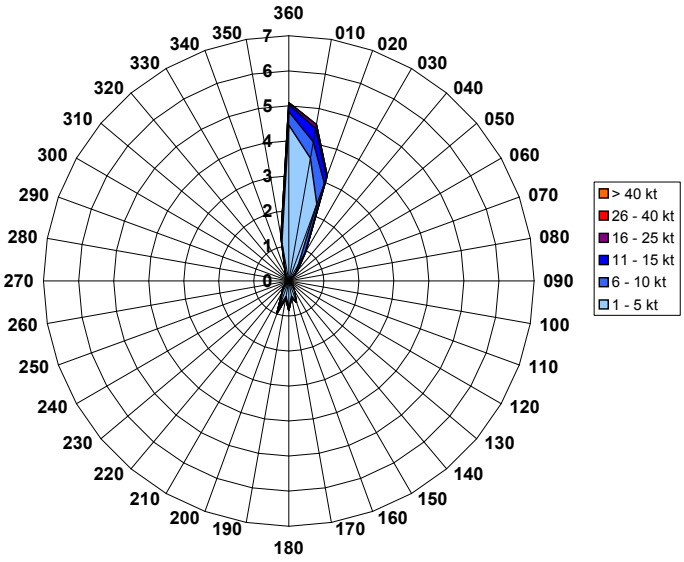
NA: 76.5 %
Calm: 77.2 %
Variable: 0.8 %

04 - 05 UTC



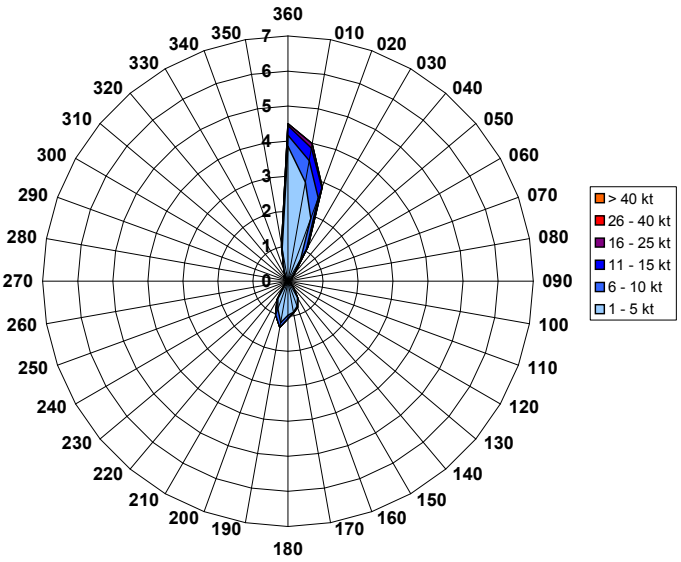
NA: 36.1 %
Calm: 77.1 %
Variable: 0.9 %

05 - 06 UTC



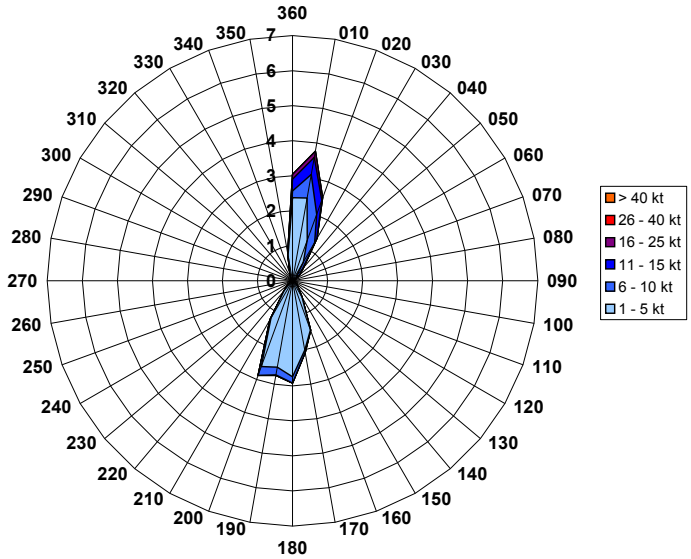
NA: 14.2 %
Calm: 77.7 %
Variable: 1.0 %

06 - 07 UTC



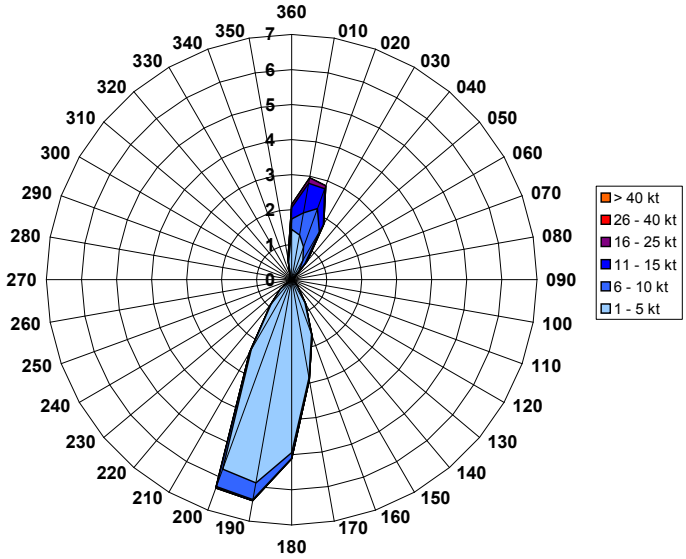
NA: 8.7 %
Calm: 76.7 %
Variable: 1.2 %

07 - 08 UTC



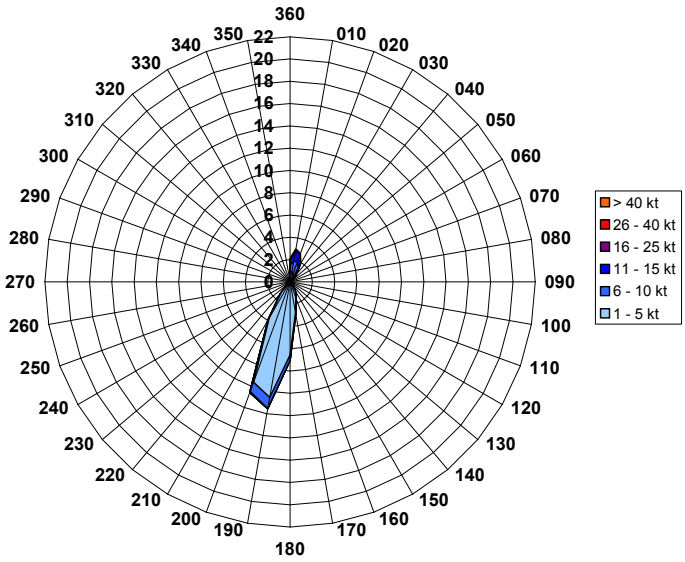
NA: 7.1 %
Calm: 70.8 %
Variable: 1.0 %

08 - 09 UTC



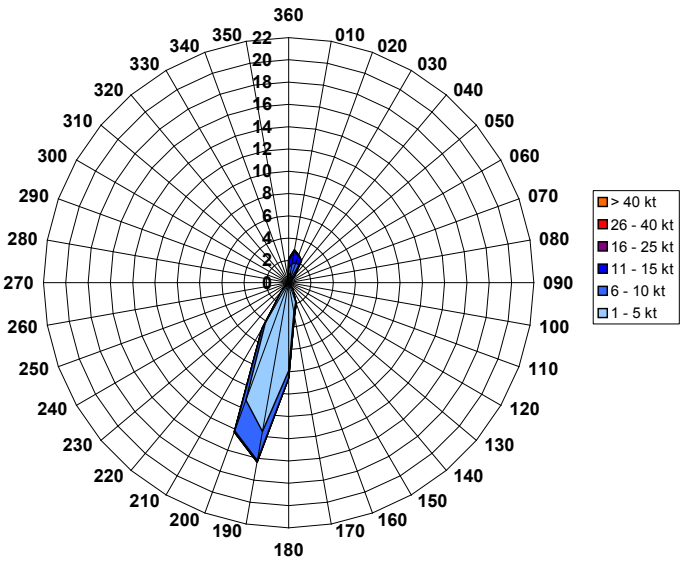
NA: 6.7 %
Calm: 59.8 %
Variable: 0.8 %

09 - 10 UTC



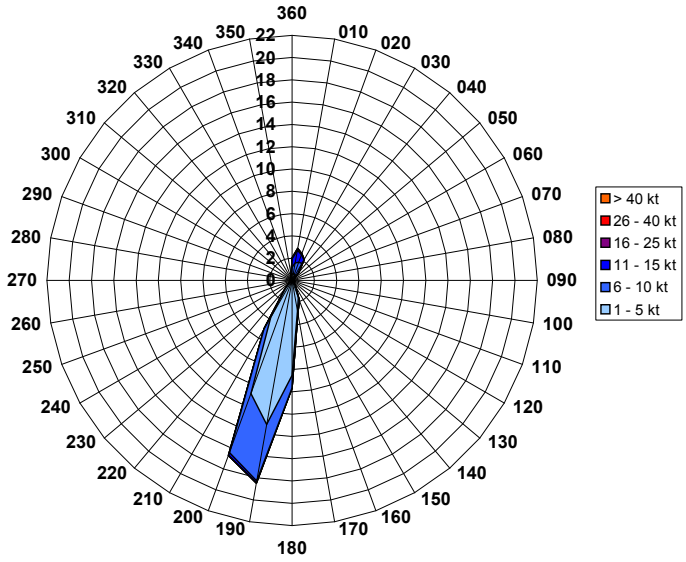
NA: 6.8 %
Calm: 46.7 %
Variable: 0.6 %

10 - 11 UTC



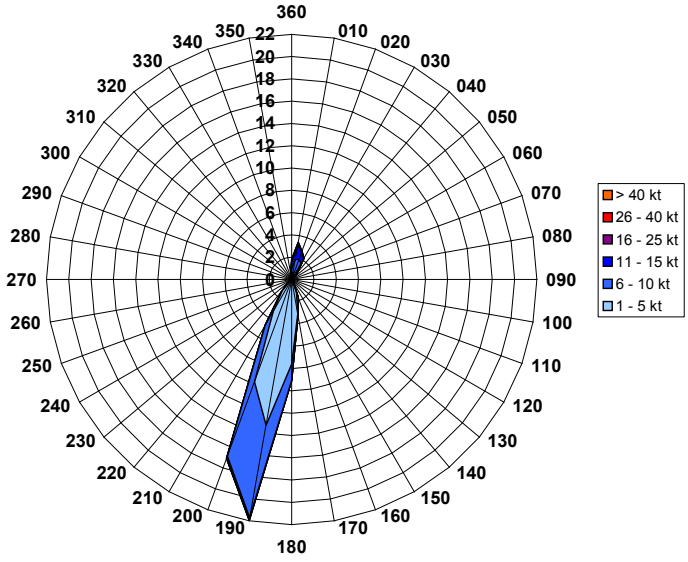
NA: 7.1 %
Calm: 34.9 %
Variable: 0.9 %

11 - 12 UTC



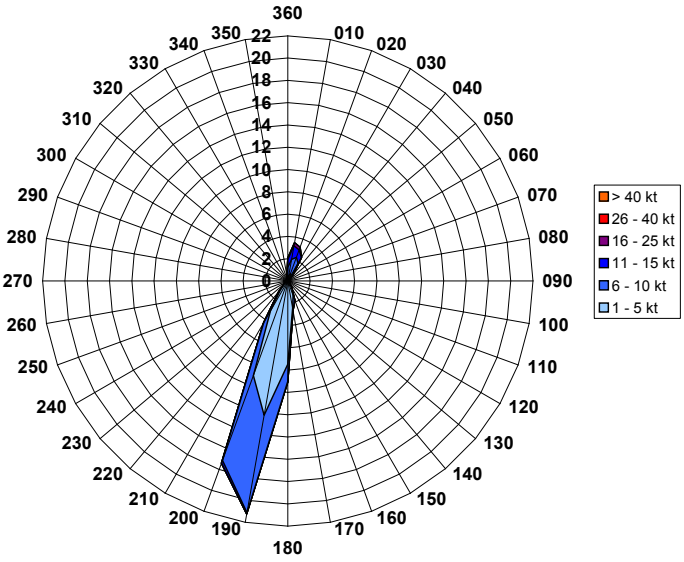
NA: 6.7 %
Calm: 29.2 %
Variable: 0.8 %

12 - 13 UTC



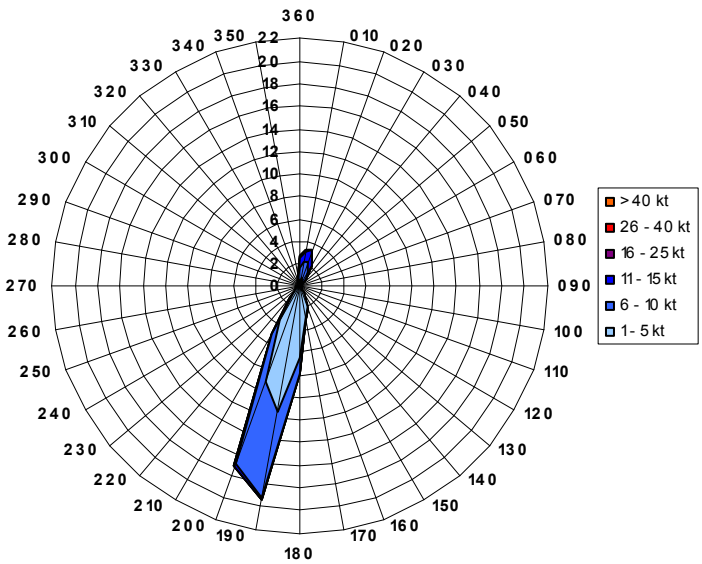
NA: 6.9 %
Calm: 25.3 %
Variable: 0.9 %

13 - 14 UTC



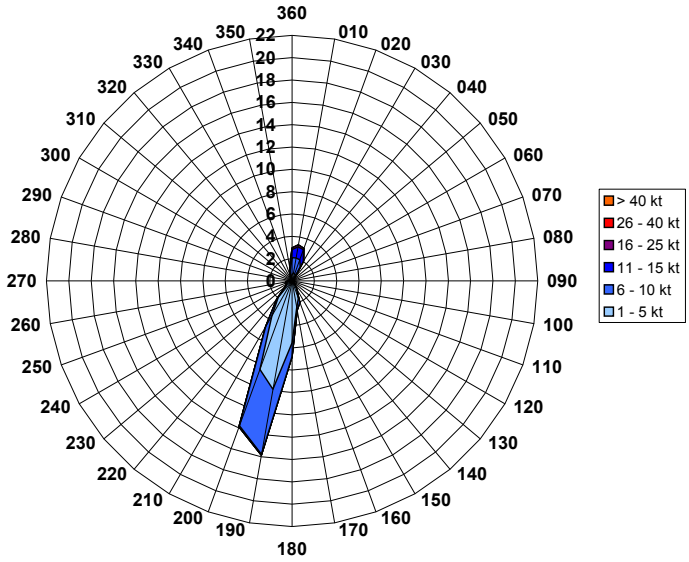
NA: 7.5 %
Calm: 24.5 %
Variable: 1.2 %

14 - 15 UTC



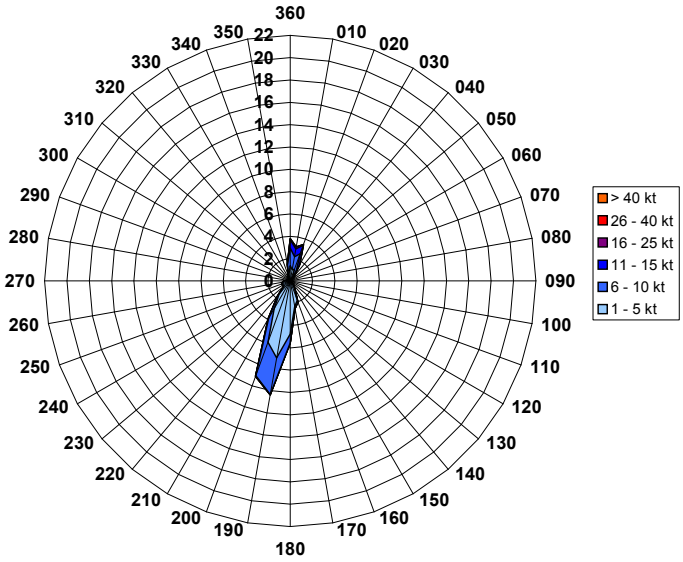
NA: 7.5 %
Calm: 25.3 %
Variable: 1.4 %

15 - 16 UTC



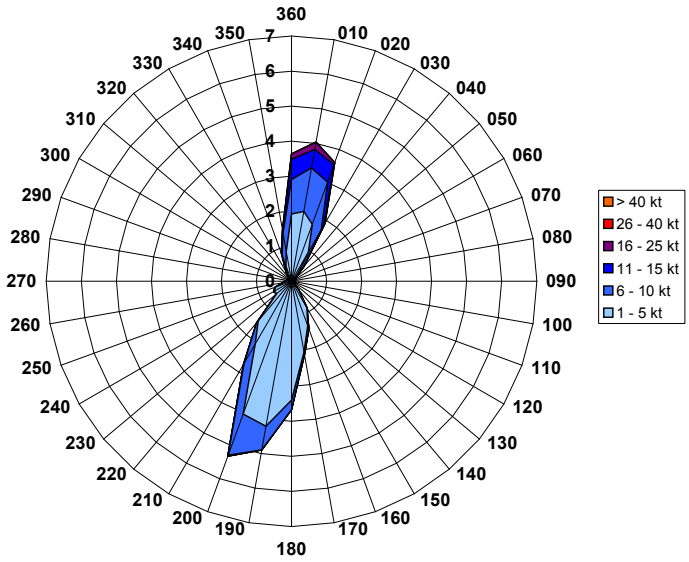
NA: 7.1 %
Calm: 30.6 %
Variable: 1.7 %

16 - 17 UTC



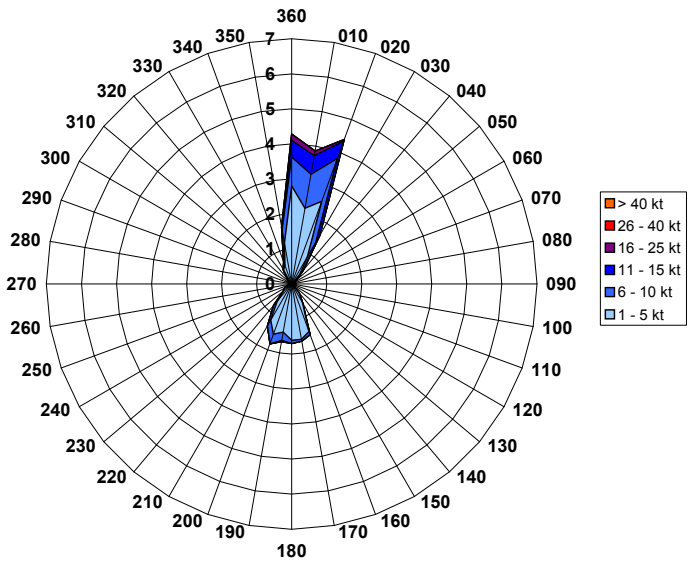
NA: 7.1 %
Calm: 41.3 %
Variable: 1.8 %

17 - 18 UTC



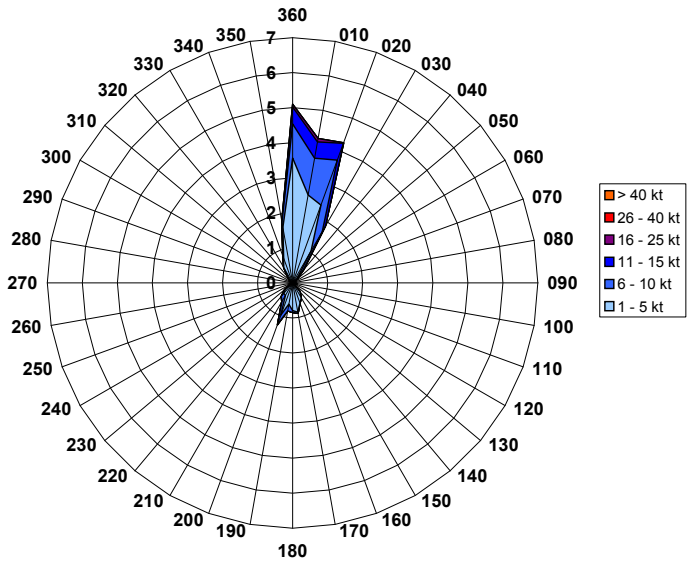
NA: 8.0 %
Calm: 54.8 %
Variable: 2.4 %

18 - 19 UTC



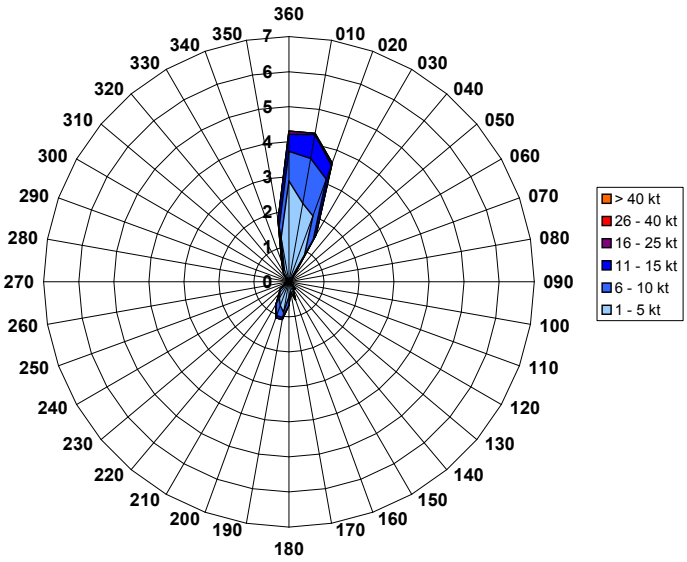
NA: 13.8 %
Calm: 66.3 %
Variable: 2.7 %

19 - 20 UTC



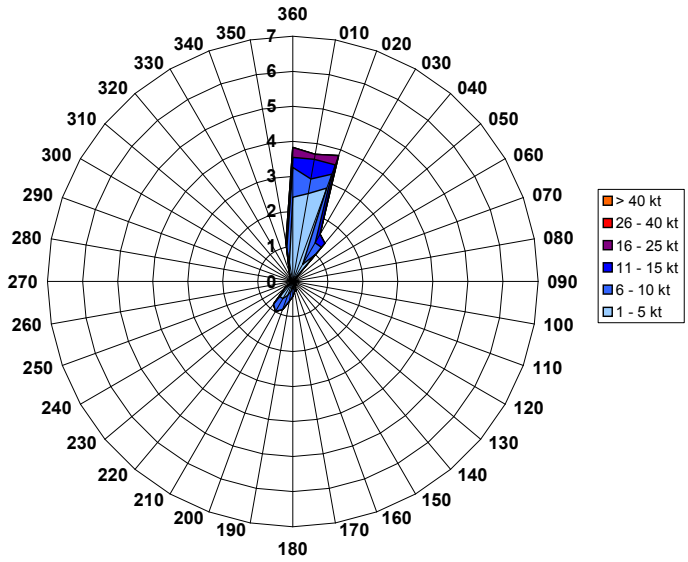
NA: 26.9 %
Calm: 70.9 %
Variable: 2.2 %

20 - 21 UTC



NA: 54.8 %
Calm: 75.0 %
Variable: 1.8 %

21 - 22 UTC



NA: 90.3 %
Calm: 76.5 %
Variable: 2.5 %

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 4.2% 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) 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**	51.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
	Variable	0.0	1.3	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	4.2	2.0	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.1	2.3	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.3	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	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	13.0	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	8.8	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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	0.1	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 4.8% 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	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5
	Variable	0.0	0.8	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	4.8	1.8	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.8	2.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	1.3	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	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	0.0	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) 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	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	1.3	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	3.0	2.4	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.0	3.2	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.6	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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	14.2	5.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	9.5	6.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	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	0.3	0.1	0.1	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	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7
	Variable	0.0	2.1	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	4.5	2.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.6	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.4	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	2.1	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	19.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	11.8	3.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	0.0	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	0.1	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	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
	Variable	0.0	1.1	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	4.6	1.6	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.1	1.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	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	11.1	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	7.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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	0.1	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 5.3% 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	72.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6
	Variable	0.0	0.6	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	5.3	1.8	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.8	1.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	1.2	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	5.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	4.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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	0.1	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	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0
	Variable	0.0	1.0	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	4.0	2.2	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.8	3.7	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	1.7	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	10.3	1.9	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	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0	0.3	0.2	0.1	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	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	0.9	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	3.3	2.9	2.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.8	4.2	2.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	12.6	4.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	10.1	7.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	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	0.4	0.1	0.1	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	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
	Variable	0.0	1.8	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	2.7	2.8	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.3	3.8	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.7	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	3.7	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	13.2	7.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	8.7	7.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	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	0.3	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
Variable	0.0	1.3	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	3.2	1.7	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.9	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.7	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	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	16.6	5.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	9.7	5.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.2	0.0	0.0	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) 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	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.8
Variable	0.0	2.4	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	3.8	1.9	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.6	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.5	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	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
170-180-190	0.0	18.8	6.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	12.0	4.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.2	0.0	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	0.2	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	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2
Variable	0.0	2.2	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	4.3	2.6	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	3.0	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.2	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	1.8	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	19.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	11.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.2	0.0	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	0.2	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
Variable	0.0	1.6	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	5.4	1.8	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.4	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.3	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	1.9	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	20.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	11.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.3	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	0.1	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Variable	0.0	1.8	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	5.2	1.6	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.5	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.2	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	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	15.9	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	9.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	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	0.1	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41- 45	46 - 50	> 50	NA
Calm	64.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
Variable	0.0	0.6	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	4.2	1.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.8	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.1	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	1.5	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	10.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	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) November												
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	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Variable	0.0	1.0	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	4.4	2.1	2.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.1	2.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.2	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	1.8	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	6.5	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	5.1	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	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) December												
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	73.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4
Variable	0.0	0.8	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	5.1	1.5	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.7	1.7	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.1	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	1.1	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	4.5	0.5	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	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	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	

1.2.4. Wind Speed and Direction per Hour

Example (dark shading): In the 10 years period between 03 and 04 UTC 10.1% 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) 03 - 04 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	77.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	0.8	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	10.1	0.9	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.9	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.1	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	0.8	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	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.3	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	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) 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	77.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.1
	Variable	0.0	0.9	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	10.2	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.4	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.1	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	1.0	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	1.6	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	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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) 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	77.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
	Variable	0.0	1.0	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	9.1	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.2	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.1	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	1.1	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	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.3	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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) 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	76.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
	Variable	0.0	1.2	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	7.7	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	1.5	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	3.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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) 07 - 08 UTC												
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	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Variable	0.0	1.0	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	5.5	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.0	1.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.3	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	2.3	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	7.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	4.2	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.3	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												
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	59.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
Variable	0.0	0.8	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	3.2	1.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	2.0	2.4	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.2	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	2.7	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	13.7	0.7	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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.2	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												
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	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
Variable	0.0	0.6	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	2.1	1.6	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.5	2.6	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.4	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	2.7	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	19.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	14.5	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.2	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												
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	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
Variable	0.0	0.9	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	1.8	1.6	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
020-030-040	0.0	1.4	3.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
050-060-070	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
110-120-130	0.0	0.5	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	2.8	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	24.2	3.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
200-210-220	0.0	16.5	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
230-240-250	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	0.2	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	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
	Variable	0.0	0.8	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	1.7	2.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.4	3.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	2.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	24.4	6.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	15.5	6.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	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	0.0	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	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
	Variable	0.0	0.9	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	1.9	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.0	3.2	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	24.0	10.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	14.3	8.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	0.1	0.1	0.1	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	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
	Variable	0.0	1.2	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	2.4	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.4	3.2	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	22.2	10.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	13.2	9.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	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	0.0	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	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
	Variable	0.0	1.4	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	1.3	3.0	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.4	2.9	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	20.5	9.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	13.8	9.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	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	0.2	0.3	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	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
	Variable	0.0	1.7	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	1.7	3.5	2.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.5	2.3	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.4	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	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	17.8	7.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	13.9	6.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	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	0.5	0.2	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	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
	Variable	0.0	1.8	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	3.0	3.5	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.8	2.4	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.5	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	2.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	14.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	10.3	4.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.4	0.0	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	0.3	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	54.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
	Variable	0.0	2.4	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	4.8	2.8	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.0	2.2	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.3	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	2.6	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	9.6	1.0	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	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.3	0.0	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	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 18 - 19 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	66.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8
	Variable	0.0	2.7	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	6.2	2.2	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.8	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	2.4	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	4.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.4	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	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 19 - 20 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	70.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9
	Variable	0.0	2.2	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	7.7	2.2	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	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	1.4	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	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.8	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	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 20 - 21 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	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.8
	Variable	0.0	1.8	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	6.4	2.5	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.0	1.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.1	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	1.0	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	1.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.7	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	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	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	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Wind Speed (kt) 21 - 22 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	76.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.3
	Variable	0.0	2.5	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	5.5	1.7	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.4	1.4	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.0	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	0.4	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	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.0	0.0	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	

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 6.2% of all observations showed a wind speed between 1 and 10 knots with a concurrent wind direction between 350 and 010 degrees.

	Wind Speed (kt) 10 Years													
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	51.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
	Variable	0.0	1.3	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	4.2	6.2	7.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	
	020-030-040	0.0	2.1	4.4	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	050-060-070	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	080-090-100	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	110-120-130	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	140-150-160	0.0	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
	170-180-190	0.0	13.0	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	
	200-210-220	0.0	8.8	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
	230-240-250	0.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
	260-270-280	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	290-300-310	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	320-330-340	0.0	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

1.3.2. Cumulative Wind Speed and Direction per Season

Example (dark shading): In the 10 years period in winter 6.6% of all observations showed a wind speed between 1 and 10 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	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5
	Variable	0.0	0.8	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	4.8	6.6	8.2	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	
	020-030-040	0.0	1.8	4.0	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
	050-060-070	0.0	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	140-150-160	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
	170-180-190	0.0	6.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
	200-210-220	0.0	6.0	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	
	230-240-250	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	320-330-340	0.0	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	1.3	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	3.0	5.5	7.2	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	
	020-030-040	0.0	2.0	5.2	7.0	7.1	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
	050-060-070	0.0	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	080-090-100	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	110-120-130	0.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	140-150-160	0.0	3.5	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	14.2	20.0	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	
	200-210-220	0.0	9.5	16.2	16.4	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	
	230-240-250	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	260-270-280	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	290-300-310	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	320-330-340	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

	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	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7
	Variable	0.0	2.1	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	4.5	6.6	7.6	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
	020-030-040	0.0	2.6	4.6	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
	050-060-070	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	080-090-100	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	110-120-130	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	140-150-160	0.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
	170-180-190	0.0	19.6	24.9	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
	200-210-220	0.0	11.8	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	
	230-240-250	0.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
	260-270-280	0.0	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
	290-300-310	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	320-330-340	0.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

	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	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
	Variable	0.0	1.1	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	4.6	6.2	7.3	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6	
	020-030-040	0.0	2.1	3.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
	050-060-070	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	080-090-100	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	140-150-160	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	170-180-190	0.0	11.1	12.7	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	
	200-210-220	0.0	7.6	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	
	230-240-250	0.0	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	260-270-280	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	320-330-340	0.0	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

1.3.3. Cumulative Wind Speed and Direction per Month

Example (dark shading): In the 10 years period in January 7% of all observations showed a wind speed between 1 and 10 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	72.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6
	Variable	0.0	0.6	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	5.3	7.0	8.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
	020-030-040	0.0	1.8	3.4	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
	050-060-070	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	140-150-160	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
	170-180-190	0.0	5.2	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	4.8	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	230-240-250	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	320-330-340	0.0	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0
	Variable	0.0	1.0	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	4.0	6.2	8.4	8.9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
	020-030-040	0.0	1.8	5.5	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	
	050-060-070	0.0	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	080-090-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	140-150-160	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	170-180-190	0.0	10.3	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
	200-210-220	0.0	9.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
	230-240-250	0.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	260-270-280	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
	320-330-340	0.0	0.3	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	0.9	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	3.3	6.2	8.2	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	
	020-030-040	0.0	1.8	6.0	8.9	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	
	050-060-070	0.0	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	080-090-100	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	110-120-130	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	140-150-160	0.0	2.3	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	12.6	17.3	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	
	200-210-220	0.0	10.1	17.8	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	
	230-240-250	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	260-270-280	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	290-300-310	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	320-330-340	0.0	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
	Variable	0.0	1.8	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	2.7	5.5	7.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	
	020-030-040	0.0	2.3	6.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
	050-060-070	0.0	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	080-090-100	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
	110-120-130	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
	140-150-160	0.0	3.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
	170-180-190	0.0	13.2	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	
	200-210-220	0.0	8.7	16.2	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	
	230-240-250	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	260-270-280	0.0	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	290-300-310	0.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	320-330-340	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
Variable	0.0	1.3	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	3.2	4.8	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
020-030-040	0.0	1.9	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
050-060-070	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
080-090-100	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
110-120-130	0.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
140-150-160	0.0	4.4	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
170-180-190	0.0	16.6	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	
200-210-220	0.0	9.7	14.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	
230-240-250	0.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
260-270-280	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
290-300-310	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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) 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	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.8
Variable	0.0	2.4	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	3.8	5.7	6.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	
020-030-040	0.0	2.6	4.6	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
050-060-070	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
080-090-100	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
110-120-130	0.0	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
140-150-160	0.0	2.7	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
170-180-190	0.0	18.8	24.9	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
200-210-220	0.0	12.0	16.8	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	
230-240-250	0.0	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
260-270-280	0.0	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
290-300-310	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
320-330-340	0.0	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	

	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	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2
Variable	0.0	2.2	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	4.3	6.9	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
020-030-040	0.0	3.0	5.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
050-060-070	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
080-090-100	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
140-150-160	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
170-180-190	0.0	19.9	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	
200-210-220	0.0	11.6	15.0	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	
230-240-250	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
260-270-280	0.0	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
290-300-310	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
320-330-340	0.0	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	

	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	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
Variable	0.0	1.6	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	5.4	7.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	
020-030-040	0.0	2.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
050-060-070	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
080-090-100	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
110-120-130	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
140-150-160	0.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
170-180-190	0.0	20.0	24.1	24.1	24.1	24.2	24.2	24.2	24.2	24.2	24.2	24.2	
200-210-220	0.0	11.8	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	
230-240-250	0.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
260-270-280	0.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
290-300-310	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
320-330-340	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	

	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	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Variable	0.0	1.8	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	5.2	6.8	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	
020-030-040	0.0	2.5	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
050-060-070	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
080-090-100	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
140-150-160	0.0	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
170-180-190	0.0	15.9	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	
200-210-220	0.0	9.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	
230-240-250	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
260-270-280	0.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
320-330-340	0.0	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	

	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	64.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
Variable	0.0	0.6	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	4.2	5.3	6.0	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
020-030-040	0.0	1.8	2.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
050-060-070	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
080-090-100	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
110-120-130	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
140-150-160	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
170-180-190	0.0	10.8	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	
200-210-220	0.0	8.5	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	
230-240-250	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
260-270-280	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
320-330-340	0.0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	

	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	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Variable	0.0	1.0	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	4.4	6.4	8.5	8.9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
020-030-040	0.0	2.1	4.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	
050-060-070	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
080-090-100	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
110-120-130	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
140-150-160	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
170-180-190	0.0	6.5	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
200-210-220	0.0	5.1	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	
230-240-250	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
260-270-280	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
320-330-340	0.0	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	

	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	73.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4
Variable	0.0	0.8	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	5.1	6.6	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	
020-030-040	0.0	1.7	3.4	4.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	
050-060-070	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
080-090-100	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
110-120-130	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
140-150-160	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
170-180-190	0.0	4.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
200-210-220	0.0	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
230-240-250	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
260-270-280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
290-300-310	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
320-330-340	0.0	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

1.4. Wind RWY 01 (19)

1.4.1. Wind RWY 01 (19) 10 Years

Frequencies in percent of the concurrent wind speed and wind direction relative to runway 01 (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 7.6% of all observations showed a headwind relative to runway 01 (tailwind relative to runway 19) 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	51.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
	Variable	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	7.6	4.5	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	25.9	7.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	25.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	18.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.4.2. Wind RWY 01 (19) per Season

Example (dark shading): In the 10 years period in winter 7.5% of all observations showed a headwind relative to runway 01 (tailwind relative to runway 19) 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	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5
	Variable	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	7.5	4.3	2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	14.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	14.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	13.5	0.1	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	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	6.4	6.0	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	29.3	13.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	32.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	22.2	0.3	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	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7
	Variable	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	8.9	4.3	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	36.9	9.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	33.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	23.3	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	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
	Variable	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	7.8	3.3	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	21.5	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	19.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	15.0	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 01 (19) per Month

Example (dark shading): In the 10 years period in January 8.1% of all observations showed a headwind relative to runway 01 (tailwind relative to runway 19) 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	72.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6
	Variable	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	8.1	3.5	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	12.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	11.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	11.7	0.0	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	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0
	Variable	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	6.6	6.5	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	22.8	4.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	21.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	19.1	0.3	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	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6
	Variable	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	6.1	7.5	5.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	26.6	12.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	29.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	24.3	0.3	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	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.4
	Variable	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	6.5	7.1	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	27.6	15.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	34.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	22.2	0.4	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	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
	Variable	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	6.5	3.3	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	33.5	11.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	33.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	20.1	0.1	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	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.8
	Variable	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	8.2	4.3	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	37.0	11.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	35.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	23.8	0.3	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	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2
	Variable	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	8.9	5.3	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	37.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	35.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	23.6	0.4	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	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
Variable	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	9.5	3.4	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	36.5	7.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	31.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	22.5	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	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Variable	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	9.1	3.5	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	28.3	5.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	17.8	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	64.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
Variable	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	6.7	2.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	21.7	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	14.7	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	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Variable	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	7.5	4.3	3.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	14.4	2.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	15.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	12.4	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	73.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.4
Variable	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Headwind	0.0	7.7	3.3	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Tailwind	0.0	10.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Crosswind	0.0	11.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Left Crosswind	0.0	10.8	0.0	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 2.17‰ of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 020 degrees.

	Wind Speed (kt) 10 Years								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.03	0.43	0.75	0.47	0.18	0.01	0.00	375
	010	0.00	0.84	1.52	1.19	0.25	0.02	0.00	
	020	0.03	1.36	2.17	0.96	0.29	0.00	0.00	
	030	0.06	1.22	1.50	0.57	0.07	0.00	0.00	
	040	0.05	0.38	0.33	0.08	0.01	0.00	0.00	
	050	0.03	0.14	0.02	0.00	0.00	0.00	0.00	
	060	0.01	0.06	0.00	0.01	0.00	0.00	0.00	
	070	0.00	0.01	0.01	0.00	0.00	0.00	0.00	
	080	0.01	0.03	0.00	0.00	0.00	0.00	0.00	
	090	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
	100	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
	120	0.00	0.01	0.00	0.00	0.00	0.00	0.00	
	130	0.01	0.01	0.00	0.00	0.00	0.00	0.00	
	140	0.01	0.03	0.00	0.00	0.01	0.00	0.00	
	150	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
	160	0.01	0.02	0.01	0.02	0.00	0.00	0.00	
	170	0.01	0.03	0.04	0.01	0.00	0.00	0.00	
	180	0.00	0.05	0.05	0.01	0.02	0.00	0.00	
	190	0.02	0.03	0.08	0.03	0.02	0.00	0.00	
	200	0.00	0.04	0.04	0.01	0.00	0.00	0.00	
	210	0.01	0.04	0.03	0.01	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	0.00	0.00	0.00	0.00	0.00	
	240	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.02	0.00	0.01	0.01	0.00	0.00	
	270	0.00	0.00	0.00	0.01	0.00	0.00	0.00	
	280	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
	290	0.00	0.03	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.02	0.01	0.00	0.00	0.00	
	310	0.00	0.00	0.01	0.01	0.00	0.00	0.00	
	320	0.00	0.01	0.02	0.00	0.01	0.00	0.00	
	330	0.00	0.03	0.04	0.02	0.02	0.00	0.00	
	340	0.02	0.03	0.05	0.07	0.00	0.00	0.00	
	350	0.02	0.10	0.18	0.06	0.05	0.00	0.00	

2.1.2. Maximum Wind Gust in 10 Years

On the 28th of March 1997 at 1650 UTC a wind gust of 46 kt was measured.

2.1.3. Wind Gusts per Season

Example (dark shading): In the 10 years period in winter 1.8‰ of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 010 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	0.57	1.39	0.57	0.16	0.00	0.00	
	010	0.00	0.98	1.80	1.55	0.41	0.04	0.00	
	020	0.04	1.27	1.76	1.76	0.53	0.00	0.00	
	030	0.00	1.02	1.60	0.61	0.00	0.00	0.00	
	040	0.00	0.82	0.53	0.16	0.04	0.00	0.00	
	050	0.00	0.37	0.08	0.00	0.00	0.00	0.00	
	060	0.04	0.04	0.00	0.04	0.00	0.00	0.00	
	070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.04	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	435
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.04	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.04	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	0.04	0.00	0.04	0.00	0.00	
	340	0.04	0.04	0.12	0.04	0.00	0.00	0.00	
	350	0.00	0.20	0.37	0.04	0.04	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	0.07	0.74	1.02	0.81	0.35	0.00	0.00	
	010	0.00	1.02	1.86	1.44	0.18	0.04	0.00	
	020	0.04	1.37	3.38	1.30	0.46	0.00	0.00	
	030	0.07	1.58	3.09	1.55	0.28	0.00	0.00	
	040	0.14	0.39	0.42	0.11	0.00	0.00	0.00	
	050	0.11	0.14	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.18	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.04	0.04	0.00	0.00	0.00	0.00	
	080	0.04	0.04	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	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.04	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	0.04	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.04	0.00	0.00	0.00	0.00	0.00	
	160	0.00	0.04	0.00	0.07	0.00	0.00	0.00	
	170	0.00	0.07	0.04	0.00	0.00	0.00	0.00	356
	180	0.00	0.04	0.07	0.04	0.04	0.00	0.00	
	190	0.04	0.04	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
	210	0.00	0.11	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	0.00	0.00	0.00	0.00	0.00	
	240	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.04	0.00	0.04	0.00	0.00	0.00	
	270	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
	280	0.00	0.00	0.07	0.00	0.00	0.00	0.00	
	290	0.00	0.04	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	320	0.00	0.04	0.07	0.00	0.00	0.00	0.00	
	330	0.00	0.07	0.11	0.04	0.04	0.00	0.00	
	340	0.00	0.07	0.07	0.14	0.00	0.00	0.00	
	350	0.07	0.11	0.11	0.14	0.04	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	0.04	0.32	0.35	0.11	0.07	0.00	0.00	
	010	0.00	0.63	1.34	0.81	0.07	0.00	0.00	
	020	0.04	2.01	1.90	0.42	0.11	0.00	0.00	
	030	0.07	0.95	0.74	0.14	0.00	0.00	0.00	
	040	0.04	0.28	0.14	0.07	0.00	0.00	0.00	
	050	0.00	0.07	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.04	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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.04	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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.04	0.00	0.00	0.04	0.00	0.00	
	150	0.00	0.04	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	0.04	0.00	0.00	0.00	0.00	
	180	0.00	0.07	0.00	0.00	0.04	0.00	0.00	357
	190	0.00	0.00	0.07	0.04	0.04	0.00	0.00	
	200	0.00	0.04	0.07	0.00	0.00	0.00	0.00	
	210	0.00	0.04	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.04	0.00	0.00	0.04	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	0.07	0.00	0.00	0.00	0.00	0.00	
	300	0.00	0.00	0.07	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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.07	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	0.11	0.32	0.39	0.14	0.04	0.00	
	010	0.00	0.74	1.13	0.99	0.35	0.00	0.00	
	020	0.00	0.78	1.59	0.46	0.11	0.00	0.00	
	030	0.11	1.30	0.56	0.00	0.00	0.00	0.00	
	040	0.00	0.11	0.25	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	0.04	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.04	0.00	0.00	0.00	0.00	0.00	
	090	0.00	0.04	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	0.04	0.00	0.00	0.00	0.00	0.00	
	140	0.04	0.04	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	0.04	0.04	0.04	0.00	0.00	0.00	0.00	
	170	0.04	0.04	0.07	0.04	0.00	0.00	0.00	
	180	0.00	0.07	0.14	0.00	0.00	0.00	0.00	351
	190	0.04	0.04	0.25	0.07	0.04	0.00	0.00	
	200	0.00	0.11	0.07	0.00	0.00	0.00	0.00	
	210	0.04	0.00	0.11	0.04	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.04	0.00	0.00	0.00	0.00	
	320	0.00	0.00	0.00	0.00	0.04	0.00	0.00	
	330	0.00	0.04	0.00	0.04	0.00	0.00	0.00	
	340	0.00	0.00	0.04	0.11	0.00	0.00	0.00	
	350	0.00	0.11	0.21	0.07	0.11	0.00	0.00	

2.1.4. Wind Gusts per Month

Example (dark shading): In the 10 years period in January 1.82‰ of all observations showed a wind gust speed between 21 and 25 knots with a concurrent wind direction of 020 degrees.

	Wind Speed (kt) January								
Wind Direction		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.61	1.70	0.12	0.00	0.00	0.00	
	010	0.00	0.49	1.21	0.85	0.12	0.00	0.00	
	020	0.00	0.85	1.82	1.82	0.49	0.00	0.00	
	030	0.00	1.46	1.70	1.33	0.00	0.00	0.00	
	040	0.00	0.36	0.85	0.24	0.12	0.00	0.00	
	050	0.00	0.00	0.12	0.00	0.00	0.00	0.00	
	060	0.12	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.12	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	446
	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.00	0.12	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	0.12	0.12	0.00	0.00	0.00	
	350	0.00	0.12	0.36	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	0.85	1.70	0.71	0.57	0.00	0.00	
	010	0.00	1.42	2.56	1.28	0.14	0.00	0.00	
	020	0.00	2.56	1.56	1.14	0.43	0.00	0.00	
	030	0.00	1.42	2.84	0.43	0.00	0.00	0.00	
	040	0.00	2.13	0.57	0.14	0.00	0.00	0.00	
	050	0.00	1.28	0.14	0.00	0.00	0.00	0.00	
	060	0.00	0.14	0.00	0.14	0.00	0.00	0.00	
	070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	480
	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.14	0.00	0.14	0.00	0.00	
	340	0.00	0.14	0.28	0.00	0.00	0.00	0.00	
	350	0.00	0.28	0.57	0.14	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) March								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.21	1.36	1.98	1.67	0.94	0.00	0.00	
	010	0.00	0.52	2.09	2.29	0.52	0.10	0.00	
	020	0.00	0.94	3.55	2.61	0.83	0.00	0.00	
	030	0.00	1.46	4.90	2.92	0.31	0.00	0.00	
	040	0.10	0.42	0.73	0.21	0.00	0.00	0.00	
	050	0.31	0.21	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.42	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.10	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	0.10	0.10	0.10	0.00	0.00	0.00	356
	190	0.00	0.10	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	0.10	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
	270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.21	0.00	0.00	0.00	0.00	
	290	0.00	0.10	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	0.10	0.21	0.00	0.00	0.00	0.00	
	330	0.00	0.00	0.31	0.10	0.10	0.00	0.00	
	340	0.00	0.10	0.21	0.42	0.00	0.00	0.00	
	350	0.21	0.10	0.10	0.42	0.10	0.00	0.00	

Wind Direction	Wind Speed (kt) April								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.44	0.44	0.76	0.00	0.00	0.00	
	010	0.00	1.97	2.51	1.64	0.00	0.00	0.00	
	020	0.00	2.73	4.37	1.09	0.44	0.00	0.00	
	030	0.11	3.06	4.04	1.64	0.55	0.00	0.00	
	040	0.33	0.55	0.44	0.11	0.00	0.00	0.00	
	050	0.00	0.22	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.11	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.11	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	0.11	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	364
	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.22	0.00	0.00	0.00	0.00	0.00	
	340	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.22	0.22	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	0.41	0.62	0.00	0.10	0.00	0.00	
	010	0.00	0.62	1.03	0.41	0.00	0.00	0.00	
	020	0.10	0.52	2.27	0.21	0.10	0.00	0.00	
	030	0.10	0.31	0.41	0.10	0.00	0.00	0.00	
	040	0.00	0.21	0.10	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	0.00	0.00	0.00	0.00	0.00	
	080	0.10	0.10	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	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.10	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	0.10	0.00	0.21	0.00	0.00	0.00	
	170	0.00	0.10	0.10	0.00	0.00	0.00	0.00	
	180	0.00	0.00	0.10	0.00	0.10	0.00	0.00	349
	190	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
	210	0.00	0.21	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	0.00	0.00	0.00	0.00	0.00	
	240	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
	270	0.00	0.00	0.00	0.10	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	0.10	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) June								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.21	0.64	0.32	0.11	0.00	0.00	
	010	0.00	0.32	1.39	0.85	0.00	0.00	0.00	
	020	0.11	0.75	2.02	0.32	0.32	0.00	0.00	
	030	0.21	0.32	1.17	0.21	0.00	0.00	0.00	
	040	0.11	0.53	0.21	0.21	0.00	0.00	0.00	
	050	0.00	0.11	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	
	110	0.00	0.11	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	0.11	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	0.11	0.00	0.00	0.00	0.00	0.00	348
	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.11	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	0.21	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	0.11	0.43	0.00	0.00	0.11	0.00	0.00	
	010	0.00	0.75	1.82	0.75	0.21	0.00	0.00	
	020	0.00	3.42	2.78	0.75	0.00	0.00	0.00	
	030	0.00	1.61	0.86	0.21	0.00	0.00	0.00	
	040	0.00	0.11	0.11	0.00	0.00	0.00	0.00	
	050	0.00	0.11	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	372
	190	0.00	0.00	0.11	0.00	0.11	0.00	0.00	
	200	0.00	0.11	0.11	0.00	0.00	0.00	0.00	
	210	0.00	0.11	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.11	0.00	0.00	0.00	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	0.11	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 Direction	Wind Speed (kt) August								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.31	0.41	0.00	0.00	0.00	0.00	
	010	0.00	0.83	0.83	0.83	0.00	0.00	0.00	
	020	0.00	1.86	0.93	0.21	0.00	0.00	0.00	
	030	0.00	0.93	0.21	0.00	0.00	0.00	0.00	
	040	0.00	0.21	0.10	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.10	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	0.10	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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
	140	0.00	0.10	0.00	0.00	0.10	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	0.10	0.00	0.00	0.00	0.00	
	180	0.00	0.10	0.00	0.00	0.10	0.00	0.00	351
	190	0.00	0.00	0.10	0.10	0.00	0.00	0.00	
	200	0.00	0.00	0.10	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.10	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	0.00	0.21	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	0.10	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	0.53	0.00	0.00	0.00	
	010	0.00	1.18	0.32	0.32	0.00	0.00	0.00	
	020	0.00	1.28	0.75	0.00	0.00	0.00	0.00	
	030	0.00	1.92	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.21	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.11	0.00	0.00	0.00	0.00	0.00	
	140	0.11	0.11	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	0.11	0.11	0.00	0.00	0.00	0.00	0.00	
	170	0.00	0.11	0.11	0.00	0.00	0.00	0.00	
	180	0.00	0.11	0.00	0.00	0.00	0.00	0.00	350
	190	0.00	0.11	0.00	0.00	0.11	0.00	0.00	
	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	210	0.11	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	
	310	0.00	0.00	0.11	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	0.11	0.00	0.00	0.00	
	340	0.00	0.00	0.11	0.00	0.00	0.00	0.00	
	350	0.00	0.00	0.11	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	0.10	0.41	0.10	0.10	0.10	0.00	
	010	0.00	0.10	0.41	0.62	0.21	0.00	0.00	
	020	0.00	0.21	1.24	0.31	0.00	0.00	0.00	
	030	0.31	1.13	0.52	0.00	0.00	0.00	0.00	
	040	0.00	0.10	0.10	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	0.10	0.31	0.00	0.00	0.00	0.00	349
	190	0.10	0.00	0.10	0.00	0.00	0.00	0.00	
	200	0.00	0.21	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.10	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	0.21	0.10	0.00	0.00	0.00	0.00	

Wind Direction	Wind Speed (kt) November								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.21	0.54	0.54	0.32	0.00	0.00	
	010	0.00	0.97	2.68	2.04	0.86	0.00	0.00	
	020	0.00	0.86	2.79	1.07	0.32	0.00	0.00	
	030	0.00	0.86	1.18	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.64	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	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.11	0.00	0.00	0.00	0.00	0.00	
	090	0.00	0.11	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	0.00	0.00	0.11	0.00	0.00	0.00	0.00	
	170	0.11	0.00	0.11	0.11	0.00	0.00	0.00	
	180	0.00	0.00	0.11	0.00	0.00	0.00	0.00	353
	190	0.00	0.00	0.64	0.21	0.00	0.00	0.00	
	200	0.00	0.11	0.21	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.32	0.11	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	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.11	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	0.32	0.00	0.00	0.00	
	350	0.00	0.11	0.43	0.21	0.32	0.00	0.00	

Wind Direction	Wind Speed (kt) December								
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
	360	0.00	0.33	0.87	0.87	0.00	0.00	0.00	
	010	0.00	1.09	1.75	2.40	0.87	0.11	0.00	
	020	0.11	0.66	1.86	2.18	0.66	0.00	0.00	
	030	0.00	0.33	0.55	0.11	0.00	0.00	0.00	
	040	0.00	0.22	0.22	0.11	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	0.00	0.00	0.00	0.00	0.00	
	080	0.00	0.00	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	0.00	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	384
	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	0.00	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	260	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.11	0.00	0.00	0.00	0.00	0.00	0.00	
	350	0.00	0.22	0.22	0.00	0.11	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 13% 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
	03 - 04	0.0	0.0	0.1	0.5	0.7	0.8	1.5	4.0	10.8	29.5	70.5	76.5
	04 - 05	0.0	0.0	0.1	0.7	1.0	1.2	2.1	5.1	13.0	31.1	68.9	36.0
	05 - 06	0.0	0.0	0.0	0.9	1.2	1.4	2.5	6.5	15.2	31.8	68.2	14.3
	06 - 07	0.0	0.0	0.1	1.0	1.4	1.6	2.7	6.7	15.4	31.5	68.5	8.7
	07 - 08	0.0	0.0	0.1	0.8	1.1	1.3	2.3	6.0	14.4	29.8	70.2	7.1
	08 - 09	0.0	0.0	0.1	0.5	0.7	0.9	1.9	5.2	13.0	28.2	71.8	6.7
	09 - 10	0.0	0.0	0.1	0.2	0.3	0.4	1.2	4.2	11.3	25.9	74.1	6.6
	10 - 11	0.0	0.0	0.0	0.1	0.1	0.2	1.0	3.6	9.6	24.1	75.9	7.0
	11 - 12	0.0	0.0	0.0	0.1	0.1	0.1	0.6	2.9	8.1	22.9	77.1	6.7
	12 - 13	0.0	0.0	0.0	0.0	0.1	0.1	0.5	2.6	7.7	22.1	77.9	6.8
	13 - 14	0.0	0.0	0.0	0.0	0.1	0.2	0.5	2.5	7.3	21.2	78.8	7.5
	14 - 15	0.0	0.0	0.0	0.0	0.1	0.2	0.6	2.5	7.2	21.5	78.5	7.5
	15 - 16	0.0	0.0	0.0	0.0	0.1	0.3	0.6	2.9	7.8	22.6	77.4	7.0
	16 - 17	0.0	0.0	0.0	0.1	0.2	0.3	0.8	2.9	8.4	24.2	75.8	7.1
	17 - 18	0.0	0.0	0.0	0.1	0.2	0.2	0.8	3.0	8.5	24.6	75.4	7.9
	18 - 19	0.0	0.0	0.0	0.1	0.2	0.2	0.8	2.9	8.9	24.9	75.1	13.8
	19 - 20	0.0	0.0	0.0	0.1	0.2	0.2	0.8	3.2	9.1	25.6	74.4	26.9
	20 - 21	0.0	0.0	0.0	0.2	0.3	0.4	1.3	4.4	12.0	30.6	69.4	54.7
	21 - 22	0.0	0.0	0.0	0.4	0.7	0.7	2.8	5.9	14.5	33.6	66.4	90.3

3.1.2. Monthly Visibility 10 Years

Example (dark shading): In the 10 years period in March 10% 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	0.3	1.4	2.1	2.6	4.8	10.0	17.4	31.0	69.0	44.4
	February	0.0	0.0	0.0	0.2	0.4	0.6	2.3	6.8	14.9	33.8	66.2	48.0
	March	0.0	0.0	0.0	0.1	0.3	0.4	1.5	3.8	10.0	26.6	73.4	35.6
	April	0.0	0.0	0.0	0.1	0.2	0.2	0.4	2.4	9.4	22.9	77.1	36.4
	May	0.0	0.0	0.0	0.2	0.2	0.3	0.6	2.3	8.9	22.4	77.6	34.9
	June	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.8	21.6	78.4	34.8
	July	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9	17.8	82.2	36.9
	August	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.3	11.4	88.6	35.1
	September	0.0	0.0	0.0	0.1	0.1	0.1	0.3	2.1	8.9	26.0	74.0	35.1
	October	0.0	0.0	0.0	0.3	0.5	0.6	1.5	5.9	18.1	40.3	59.7	34.9
	November	0.0	0.0	0.1	0.5	0.6	0.7	0.9	6.0	14.8	31.4	68.6	35.3
	December	0.0	0.0	0.0	0.6	1.0	1.2	2.9	7.3	13.7	28.1	71.9	38.4

3.1.3. Hourly Visibility per Season

Example (dark shading): In the 10 years period in winter 16.7% of all observations between 04 and 05 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
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	99.9
	04 - 05	0.0	0.0	0.2	1.8	2.0	2.1	3.8	9.8	16.7	29.5	70.5	63.4
	05 - 06	0.0	0.0	0.1	1.9	2.4	2.5	4.6	11.1	18.4	30.1	69.9	25.9
	06 - 07	0.0	0.0	0.1	2.3	3.2	3.4	5.8	11.8	19.4	32.1	67.9	19.3
	07 - 08	0.0	0.0	0.4	2.6	3.1	3.6	6.1	11.9	20.2	32.9	67.1	15.4
	08 - 09	0.0	0.0	0.3	1.8	2.6	3.1	5.8	11.5	19.9	33.0	67.0	15.3
	09 - 10	0.0	0.0	0.2	0.8	1.2	1.7	4.2	9.5	18.4	32.6	67.4	14.9
	10 - 11	0.0	0.0	0.0	0.3	0.5	0.9	3.5	7.6	14.9	30.8	69.2	15.7
	11 - 12	0.0	0.0	0.0	0.3	0.5	0.6	2.0	6.3	13.4	28.4	71.6	15.3
	12 - 13	0.0	0.0	0.0	0.1	0.3	0.7	1.6	6.3	13.1	27.9	72.1	15.5
	13 - 14	0.0	0.0	0.0	0.1	0.4	0.8	1.9	5.8	11.8	26.9	73.1	16.7
	14 - 15	0.0	0.0	0.0	0.1	0.4	0.9	2.1	5.7	11.6	26.9	73.1	16.1
	15 - 16	0.0	0.0	0.1	0.2	0.5	1.0	2.2	6.2	12.8	29.0	71.0	15.3
	16 - 17	0.0	0.0	0.1	0.4	0.8	1.0	2.5	6.6	13.2	31.3	68.7	15.7
	17 - 18	0.0	0.0	0.1	0.4	0.9	0.9	2.6	6.8	13.5	33.0	67.0	15.4
	18 - 19	0.0	0.0	0.1	0.4	0.7	0.7	2.9	6.7	13.7	31.9	68.1	18.6
	19 - 20	0.0	0.0	0.1	0.2	0.6	0.7	2.8	7.1	14.4	32.0	68.0	32.1
	20 - 21	0.0	0.0	0.0	0.4	0.8	1.0	2.9	7.4	14.7	32.2	67.8	33.9
	21 - 22	0.0	0.0	0.0	0.8	1.4	1.4	4.7	7.8	17.0	35.8	64.2	80.2

	Visibility (m) Spring (Mar/Apr/May)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.2	0.9	1.3	1.5	2.2	5.8	14.3	31.2	68.8	70.8
	04 - 05	0.0	0.0	0.1	1.1	1.4	1.5	2.6	5.8	15.1	33.3	66.7	28.7
	05 - 06	0.0	0.0	0.0	0.8	1.2	1.3	2.4	6.2	15.4	33.1	66.9	10.3
	06 - 07	0.0	0.0	0.0	0.6	0.9	1.1	2.4	5.4	15.4	32.3	67.7	6.6
	07 - 08	0.0	0.0	0.0	0.1	0.4	0.6	1.4	3.9	13.8	29.2	70.8	4.5
	08 - 09	0.0	0.0	0.0	0.0	0.1	0.2	1.1	3.5	11.7	27.3	72.7	4.1
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.8	9.7	23.8	76.2	3.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3	8.6	22.3	77.7	4.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	6.9	20.2	79.8	4.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	6.5	18.8	81.2	4.1
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	6.5	18.5	81.5	4.3
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.5	6.9	19.1	80.9	5.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.8	7.0	18.7	81.3	4.3
	16 - 17	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.5	7.3	20.4	79.6	4.7
	17 - 18	0.0	0.0	0.0	0.0	0.1	0.1	0.4	2.0	6.9	21.1	78.9	5.7
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.5	7.1	22.2	77.8	12.3
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.2	6.8	22.6	77.4	24.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.7	8.6	26.7	73.3	60.3
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	6.7	23.5	76.5	93.5

	Visibility (m) Summer (Jun/Jul/Aug)											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.4	0.4	0.5	0.6	2.5	6.6	26.5	73.5	57.9
	04 - 05	0.0	0.0	0.0	0.0	0.1	0.1	0.5	1.8	6.9	26.8	73.2	16.4
	05 - 06	0.0	0.0	0.0	0.1	0.1	0.1	0.5	1.6	6.8	25.3	74.7	9.4
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	5.4	22.5	77.5	3.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.3	20.1	79.9	5.1
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	3.6	18.6	81.4	4.3
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.1	16.7	83.3	4.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	15.0	85.0	4.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	14.5	85.5	3.6
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.2	13.9	86.1	4.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.5	12.3	87.7	5.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	12.3	87.7	4.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	13.2	86.8	4.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.3	13.5	86.5	4.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.2	12.4	87.6	6.3
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	13.0	87.0	14.0
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.7	16.3	83.8	26.1
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.0	19.6	80.4	75.7
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	23.1	76.9	99.3

	Visibility (m) Autumn (Sep/Oct/Nov)												
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.2	0.5	0.5	2.2	4.5	14.2	32.9	67.1	78.0
	04 - 05	0.0	0.1	0.2	0.7	1.4	1.6	2.8	5.9	16.6	35.3	64.7	36.3
	05 - 06	0.0	0.1	0.1	1.1	1.6	1.8	2.9	8.0	21.1	38.6	61.4	11.8
	06 - 07	0.0	0.0	0.1	1.3	1.7	2.1	3.1	9.4	22.3	39.3	60.7	5.2
	07 - 08	0.0	0.0	0.0	0.8	1.4	1.4	2.2	8.1	19.9	37.5	62.5	3.4
	08 - 09	0.0	0.0	0.1	0.2	0.4	0.5	1.1	6.0	17.7	34.5	65.5	3.1
	09 - 10	0.0	0.0	0.1	0.1	0.1	0.1	0.5	4.9	14.9	31.4	68.6	3.6
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.7	13.0	29.2	70.8	3.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.4	10.6	29.3	70.7	3.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.8	9.9	28.6	71.4	3.1
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0	10.0	27.8	72.2	3.6
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.9	9.0	28.6	71.4	4.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	9.9	30.5	69.5	3.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.1	0.3	3.4	11.3	32.5	67.5	3.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.1	0.2	3.3	12.0	32.8	67.2	4.5
	18 - 19	0.0	0.0	0.0	0.1	0.1	0.1	0.3	3.2	13.3	32.9	67.1	10.4
	19 - 20	0.0	0.0	0.0	0.1	0.1	0.1	0.3	3.4	12.9	32.2	67.8	24.9
	20 - 21	0.0	0.0	0.0	0.1	0.1	0.1	0.4	3.6	15.0	36.8	63.2	48.6
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.6	15.1	36.2	63.8	88.0

3.1.4. Hourly Visibility per Month

Example (dark shading): In the 10 years period in January 16.7% of all observations between 04 and 05 UTC showed a visibility below 5000 m.

	Visibility (m) January											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.8
	04 - 05	0.0	0.0	0.5	2.7	3.2	3.2	4.5	11.8	16.7	29.0	71.0	64.4
	05 - 06	0.0	0.0	0.2	3.1	3.5	3.8	6.0	13.5	19.4	30.0	70.0	26.9
	06 - 07	0.0	0.0	0.2	3.9	4.7	4.9	7.2	13.1	20.1	32.0	68.0	21.3
	07 - 08	0.0	0.0	0.8	3.9	4.6	5.0	7.7	12.9	21.4	32.8	67.2	16.5
	08 - 09	0.0	0.0	0.6	2.9	4.3	4.9	7.8	13.5	21.6	32.4	67.6	17.3
	09 - 10	0.0	0.0	0.6	1.4	1.7	1.9	5.4	11.6	21.7	33.1	66.9	16.6
	10 - 11	0.0	0.0	0.0	0.4	0.6	1.5	4.6	8.7	17.4	30.9	69.1	16.6
	11 - 12	0.0	0.0	0.0	0.4	1.0	1.2	2.9	7.6	15.0	27.8	72.2	17.1
	12 - 13	0.0	0.0	0.0	0.2	0.8	1.2	3.0	8.5	15.8	27.7	72.3	18.4
	13 - 14	0.0	0.0	0.0	0.4	1.0	2.0	3.6	8.3	13.4	27.1	72.9	18.4
	14 - 15	0.0	0.0	0.0	0.4	1.0	2.1	4.1	8.0	13.1	28.3	71.7	17.4
	15 - 16	0.0	0.0	0.4	0.6	1.3	2.1	3.9	7.9	15.6	28.9	71.1	16.3
	16 - 17	0.0	0.0	0.4	1.2	1.9	2.5	4.2	9.2	16.5	31.7	68.3	16.0
	17 - 18	0.0	0.0	0.4	1.1	2.1	2.1	4.2	9.2	16.9	33.1	66.9	15.8
	18 - 19	0.0	0.0	0.4	1.2	2.0	2.0	5.0	9.2	16.8	33.6	66.4	19.4
	19 - 20	0.0	0.0	0.2	0.7	1.2	1.7	4.1	9.6	17.3	34.5	65.5	32.7
	20 - 21	0.0	0.0	0.0	0.8	1.5	1.8	3.5	8.8	17.3	33.7	66.3	35.8
	21 - 22	0.0	0.0	0.0	2.4	3.2	3.2	5.6	8.9	18.5	34.7	65.3	80.0

	Visibility (m) February											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	99.8
	04 - 05	0.0	0.0	0.0	1.0	1.0	1.0	2.6	8.9	16.2	35.6	64.4	66.1
	05 - 06	0.0	0.0	0.0	0.8	0.8	0.8	2.9	9.9	17.4	34.1	65.9	31.9
	06 - 07	0.0	0.0	0.0	0.5	0.5	0.7	3.6	10.2	18.3	35.2	64.8	25.5
	07 - 08	0.0	0.0	0.0	1.2	1.2	1.8	4.8	9.9	18.9	34.6	65.4	23.0
	08 - 09	0.0	0.0	0.5	0.7	1.1	1.8	4.1	9.8	18.7	35.8	64.2	22.3
	09 - 10	0.0	0.0	0.0	0.2	0.2	0.9	3.6	7.9	16.9	35.3	64.7	21.1
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.3	14.0	34.7	65.3	23.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.8	13.2	32.7	67.3	21.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.3	12.6	30.6	69.4	22.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.2	11.4	30.0	70.0	23.8
	14 - 15	0.0	0.0	0.0	0.0	0.2	0.5	1.4	4.6	11.8	29.9	70.1	23.4
	15 - 16	0.0	0.0	0.0	0.0	0.2	0.5	1.1	5.7	12.6	31.5	68.5	22.9
	16 - 17	0.0	0.0	0.0	0.0	0.5	0.5	1.4	5.9	12.5	33.7	66.3	22.2
	17 - 18	0.0	0.0	0.0	0.0	0.5	0.5	1.4	5.7	13.5	37.3	62.7	22.5
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.7	14.0	34.7	65.3	25.4
	19 - 20	0.0	0.0	0.0	0.0	0.3	0.3	2.2	6.7	14.8	33.7	66.3	36.3
	20 - 21	0.0	0.0	0.0	0.0	0.6	0.6	3.0	7.2	15.2	33.7	66.3	35.8
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	4.0	6.1	18.2	39.4	60.6	82.4

	Visibility (m) March											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	10.7	89.3	95.5
	04 - 05	0.0	0.0	0.0	1.0	1.4	1.4	2.7	4.8	9.2	26.7	73.3	52.9
	05 - 06	0.0	0.0	0.0	0.4	1.1	1.1	2.8	6.9	12.8	30.6	69.4	13.1
	06 - 07	0.0	0.0	0.0	1.1	1.4	1.6	4.2	7.8	17.0	34.8	65.2	8.7
	07 - 08	0.0	0.0	0.0	0.3	1.0	1.5	3.4	6.2	15.3	33.8	66.2	4.0
	08 - 09	0.0	0.0	0.0	0.0	0.2	0.5	2.5	5.7	13.9	30.8	69.2	3.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.0	10.4	26.4	73.6	3.4
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.2	9.5	24.5	75.5	3.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.4	8.2	23.7	76.3	4.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	7.8	22.1	77.9	2.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	7.7	22.1	77.9	3.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.2	0.3	2.0	7.7	23.7	76.3	5.3
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.3	0.8	2.8	8.7	24.3	75.7	3.2
	16 - 17	0.0	0.0	0.0	0.0	0.2	0.3	1.0	2.6	8.7	24.7	75.3	5.5
	17 - 18	0.0	0.0	0.0	0.0	0.3	0.3	1.0	3.5	9.1	26.9	73.1	4.0
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.2	0.9	2.6	8.8	26.2	73.8	6.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.4	1.0	3.3	7.6	25.6	74.4	21.3
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	8.7	27.2	72.8	31.1
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	7.3	25.5	74.5	82.3

	Visibility (m) April											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.4	0.8	0.8	3.7	10.6	26.9	73.1	59.2
	04 - 05	0.0	0.0	0.0	0.6	1.0	1.0	1.4	4.7	14.0	31.3	68.7	18.0
	05 - 06	0.0	0.0	0.0	0.9	1.1	1.3	1.7	5.7	14.5	32.2	67.8	9.5
	06 - 07	0.0	0.0	0.0	0.5	0.7	1.1	1.8	4.8	14.9	30.5	69.5	7.0
	07 - 08	0.0	0.0	0.0	0.0	0.2	0.2	0.4	3.2	14.1	27.5	72.5	5.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	10.6	25.7	74.3	4.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.3	9.4	24.1	75.9	4.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	7.8	20.4	79.6	4.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	7.4	18.5	81.5	5.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	6.8	18.5	81.5	6.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	6.2	17.6	82.4	5.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.0	17.8	82.2	5.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.2	17.7	82.3	5.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.6	19.8	80.2	5.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.8	19.1	80.9	6.7
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.7	20.8	79.2	16.0
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.6	22.7	77.3	29.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	11.2	30.1	69.9	76.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.8

	Visibility (m) May											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.4	1.5	1.9	1.9	3.4	7.9	18.9	37.4	62.6	57.3
	04 - 05	0.0	0.0	0.2	1.5	1.7	2.1	3.6	7.4	19.3	38.8	61.2	14.8
	05 - 06	0.0	0.0	0.0	1.1	1.2	1.4	2.8	6.2	18.8	36.4	63.6	8.2
	06 - 07	0.0	0.0	0.0	0.2	0.5	0.7	1.3	3.7	14.3	31.6	68.4	4.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.2	12.1	26.3	73.7	4.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	10.7	25.2	74.8	4.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	9.2	21.1	78.9	3.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.3	22.0	78.0	4.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	18.2	81.8	3.4
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.8	15.7	84.3	3.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.5	15.7	84.3	3.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	5.1	15.7	84.3	4.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.1	14.0	86.0	4.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.7	16.8	83.2	3.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	4.8	17.2	82.8	6.3
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.7	19.1	80.9	14.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	19.4	80.6	22.7
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.3	22.5	77.5	74.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	98.7

	Visibility (m) June											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.8	0.8	0.8	0.8	3.1	8.2	30.5	69.5	57.3
	04 - 05	0.0	0.0	0.0	0.0	0.2	0.2	0.4	2.0	7.9	29.8	70.2	16.0
	05 - 06	0.0	0.0	0.0	0.2	0.2	0.2	0.5	1.6	8.5	29.2	70.8	8.2
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.0	25.9	74.1	2.3
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.3	23.3	76.7	2.8
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.0	22.1	77.9	3.3
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.7	21.6	78.4	3.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.1	20.2	79.8	4.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.8	19.6	80.4	3.0
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	19.8	80.2	3.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	17.9	82.1	5.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.9	17.6	82.4	3.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.9	19.5	80.5	3.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	3.1	20.0	80.0	4.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	3.5	17.6	82.4	5.3
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.2	17.5	82.5	12.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.5	21.0	79.0	26.2
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.5	20.7	79.3	72.7
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	88.9	98.5

	Visibility (m) July											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.4	0.4	0.4	0.4	3.5	9.0	29.8	70.2	58.9
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	7.6	28.6	71.4	17.6
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.6	25.7	74.3	11.5
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.3	22.8	77.2	6.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.5	20.1	79.9	8.4
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.6	18.8	81.2	6.6
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.3	17.6	82.4	6.6
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	15.5	84.5	7.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	16.0	84.0	5.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	15.2	84.8	6.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	1.9	13.3	86.7	6.9
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	13.5	86.5	6.6
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	14.3	85.7	6.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.9	13.3	86.7	6.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	12.8	87.2	9.4
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	13.3	86.7	14.8
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.4	18.5	81.5	25.8
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.2	24.5	75.5	75.0
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	99.7

	Visibility (m) August											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	2.7	19.3	80.7	57.4
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.1	5.2	22.1	77.9	15.5
	05 - 06	0.0	0.0	0.0	0.2	0.2	0.2	0.9	1.8	6.3	21.2	78.8	8.5
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	3.8	18.8	81.2	2.9
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0	16.9	83.1	3.9
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	2.3	15.0	85.0	2.9
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	11.0	89.0	3.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	9.5	90.5	2.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	8.3	91.7	2.4
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	7.0	93.0	3.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.7	94.3	4.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	6.1	93.9	4.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	5.9	94.1	4.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	7.3	92.7	3.4
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.9	6.9	93.1	4.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	8.3	91.7	14.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	9.4	90.6	26.3
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	12.4	87.6	79.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	99.7

	Visibility (m) September											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	9.2	27.6	72.4	60.2
	04 - 05	0.0	0.0	0.0	0.2	0.2	0.2	0.8	2.9	9.5	31.1	68.9	19.2
	05 - 06	0.0	0.0	0.2	0.4	0.4	0.4	0.9	3.5	15.9	36.5	63.5	8.7
	06 - 07	0.0	0.0	0.0	0.3	0.3	0.3	0.9	3.6	16.4	34.6	65.4	2.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.9	13.1	31.6	68.4	2.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	11.6	28.4	71.6	3.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	9.3	25.2	74.8	3.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.1	8.6	22.1	77.9	3.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	5.8	24.1	75.9	2.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	6.4	25.9	74.1	3.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.7	23.9	76.1	3.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	5.0	22.7	77.3	3.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.9	21.4	78.6	5.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.6	21.1	78.9	3.8
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.2	21.7	78.3	4.7
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.4	24.1	75.9	14.8
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	20.8	79.2	28.8
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.5	25.0	75.0	72.0
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	66.7	98.0

	Visibility (m) October											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.6	1.2	1.2	4.3	8.0	21.6	40.7	59.3	73.9
	04 - 05	0.0	0.0	0.0	0.5	2.1	2.3	4.5	8.2	22.8	40.1	59.9	31.3
	05 - 06	0.0	0.0	0.0	0.7	1.8	2.0	4.4	11.3	26.8	43.6	56.4	12.7
	06 - 07	0.0	0.0	0.0	1.9	2.7	3.4	5.1	13.5	29.3	46.5	53.5	5.3
	07 - 08	0.0	0.0	0.0	1.2	2.4	2.5	4.2	11.6	28.3	46.3	53.7	4.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.2	1.5	6.9	23.6	41.9	58.1	3.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.4	18.9	37.5	62.5	3.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.8	16.0	35.2	64.8	3.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	13.5	34.4	65.6	3.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.7	11.9	33.2	66.8	3.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.7	13.0	34.2	65.8	2.9
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.2	11.8	37.0	63.0	4.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.5	12.8	39.8	60.2	3.9
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.2	0.8	4.8	15.5	42.4	57.6	3.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.2	0.7	4.4	15.8	43.7	56.3	5.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.6	15.7	42.3	57.7	9.4
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.2	16.2	43.7	56.3	25.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.1	15.7	46.7	53.3	48.5
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.8	21.1	45.6	54.4	90.8

	Visibility (m) November											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	04 - 05	0.0	0.4	0.8	2.0	2.4	2.8	3.6	8.0	20.1	35.3	64.7	58.5
	05 - 06	0.0	0.2	0.2	2.3	2.5	3.1	3.5	9.3	20.5	35.7	64.3	14.0
	06 - 07	0.0	0.0	0.4	1.6	2.2	2.5	3.2	11.4	20.9	36.6	63.4	7.7
	07 - 08	0.0	0.0	0.0	1.2	1.7	1.7	1.9	9.7	18.2	34.4	65.6	3.7
	08 - 09	0.0	0.0	0.3	0.7	1.2	1.4	1.7	8.5	17.7	33.0	67.0	2.0
	09 - 10	0.0	0.0	0.2	0.3	0.3	0.3	0.7	7.8	16.5	31.4	68.6	3.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.1	14.2	30.1	69.9	3.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.5	12.4	29.3	70.7	5.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	11.5	26.7	73.3	2.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	11.4	25.1	74.9	5.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.2	10.2	25.9	74.1	4.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	12.0	29.9	70.1	2.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.6	33.6	66.4	3.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	13.0	32.7	67.3	3.7
	18 - 19	0.0	0.0	0.0	0.2	0.2	0.2	0.5	4.3	14.5	31.5	68.5	7.0
	19 - 20	0.0	0.0	0.0	0.4	0.4	0.4	0.4	5.4	15.1	31.2	68.8	20.3
	20 - 21	0.0	0.0	0.0	0.2	0.2	0.2	0.4	4.9	16.5	34.2	65.8	25.3
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	14.1	32.9	67.1	75.2

	Visibility (m) December											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	04 - 05	0.0	0.0	0.0	1.6	1.6	2.0	4.0	8.9	16.9	25.4	74.6	60.0
	05 - 06	0.0	0.0	0.0	1.6	2.6	2.6	4.8	9.8	18.2	27.2	72.8	19.4
	06 - 07	0.0	0.0	0.2	2.2	4.0	4.0	6.4	11.7	19.6	29.8	70.2	11.8
	07 - 08	0.0	0.0	0.3	2.4	3.1	3.7	5.6	12.3	20.2	31.7	68.3	7.3
	08 - 09	0.0	0.0	0.0	1.7	2.3	2.4	5.2	10.9	19.2	31.4	68.6	6.9
	09 - 10	0.0	0.0	0.0	0.9	1.6	2.1	3.7	8.9	16.6	30.0	70.0	7.4
	10 - 11	0.0	0.0	0.0	0.3	0.7	0.9	3.1	7.7	13.2	27.7	72.3	7.4
	11 - 12	0.0	0.0	0.0	0.3	0.5	0.5	2.1	6.3	12.2	25.7	74.3	7.6
	12 - 13	0.0	0.0	0.0	0.0	0.2	0.7	1.2	5.9	11.2	26.0	74.0	6.5
	13 - 14	0.0	0.0	0.0	0.0	0.2	0.4	1.1	4.8	10.8	24.5	75.5	8.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.2	0.9	4.4	10.0	23.5	76.5	8.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.3	1.4	5.1	10.3	27.2	72.8	7.4
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6	10.7	29.1	70.9	9.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.5	10.4	29.5	70.5	8.5
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	10.6	28.2	71.8	11.8
	19 - 20	0.0	0.0	0.0	0.0	0.2	0.2	2.0	5.1	11.4	28.3	71.7	27.6
	20 - 21	0.0	0.0	0.0	0.5	0.5	0.7	2.3	6.2	11.8	29.6	70.4	30.2
	21 - 22	0.0	0.0	0.0	0.0	0.7	0.7	4.4	8.1	14.8	34.1	65.9	78.2

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 1.2% 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
	03 - 04	0.2	0.2	0.8	0.9	1.1	1.2	1.2	37.1	76.7
	04 - 05	0.1	0.3	0.7	0.9	1.2	1.4	1.7	36.8	37.2
	05 - 06	0.1	0.1	0.7	1.0	1.3	1.7	2.1	36.6	16.0
	06 - 07	0.1	0.1	0.4	0.7	1.1	1.5	1.8	37.7	10.6
	07 - 08	0.1	0.1	0.4	0.6	0.9	1.4	1.8	37.0	8.7
	08 - 09	0.1	0.1	0.4	0.5	0.7	1.1	1.5	36.1	7.9
	09 - 10	0.1	0.1	0.2	0.3	0.5	0.6	0.9	35.4	7.7
	10 - 11	0.0	0.1	0.2	0.3	0.4	0.5	0.7	33.8	7.8
	11 - 12	0.0	0.0	0.1	0.1	0.2	0.4	0.6	33.7	7.3
	12 - 13	0.0	0.0	0.0	0.1	0.1	0.3	0.4	33.5	7.4
	13 - 14	0.0	0.0	0.0	0.1	0.1	0.3	0.4	33.8	8.2
	14 - 15	0.0	0.0	0.0	0.1	0.2	0.3	0.3	33.9	8.1
	15 - 16	0.0	0.0	0.0	0.1	0.2	0.4	0.5	33.9	7.7
	16 - 17	0.0	0.0	0.1	0.1	0.3	0.4	0.5	33.7	7.9
	17 - 18	0.0	0.0	0.1	0.1	0.2	0.4	0.5	34.0	8.9
	18 - 19	0.0	0.0	0.1	0.1	0.2	0.3	0.5	34.2	14.9
	19 - 20	0.0	0.0	0.1	0.2	0.3	0.5	0.7	34.9	28.0
	20 - 21	0.0	0.0	0.2	0.3	0.5	0.7	0.9	35.1	55.6
	21 - 22	0.1	0.1	0.1	0.4	0.9	1.1	1.1	35.0	90.5

3.2.2. Monthly Ceiling 10 Years

Example (dark shading): In the 10 years period 0.6% 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	0.1	0.2	0.5	0.9	1.1	1.8	2.5	34.9	46.4
	February	0.0	0.0	0.1	0.4	0.7	1.3	1.4	28.0	50.3
	March	0.0	0.0	0.1	0.2	0.6	1.0	1.4	26.4	37.6
	April	0.1	0.1	0.2	0.3	0.3	0.3	0.5	42.9	37.0
	May	0.0	0.0	0.1	0.1	0.2	0.2	0.2	42.8	35.1
	June	0.0	0.1	0.1	0.1	0.1	0.1	0.1	29.8	34.9
	July	0.0	0.0	0.0	0.0	0.0	0.0	0.1	25.5	36.9
	August	0.0	0.0	0.0	0.0	0.0	0.1	0.1	25.9	35.2
	September	0.0	0.0	0.1	0.2	0.2	0.2	0.4	38.8	35.3
	October	0.0	0.0	0.2	0.2	0.4	0.6	0.8	41.3	35.4
	November	0.1	0.1	0.4	0.6	1.0	1.3	1.5	43.2	35.8
	December	0.1	0.2	0.6	1.0	1.3	1.9	2.4	38.0	39.0

3.2.3. Hourly Ceiling per Season

Example (dark shading): In the 10 years period in winter 2.5% 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) Winter (Dec/Jan/Feb)								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	99.9
	04 - 05	0.2	0.2	0.9	1.6	2.5	3.1	3.8	31.1	64.7
	05 - 06	0.2	0.3	1.5	2.2	2.6	3.7	4.1	31.0	28.8
	06 - 07	0.1	0.1	0.7	1.4	2.1	3.1	3.9	32.6	23.0
	07 - 08	0.2	0.3	0.9	1.4	1.9	3.2	4.1	33.9	18.7
	08 - 09	0.3	0.5	1.4	1.6	1.8	2.7	3.5	35.0	18.5
	09 - 10	0.3	0.3	0.5	0.9	1.1	1.2	2.0	36.2	17.7
	10 - 11	0.1	0.3	0.6	0.9	0.9	1.1	1.6	35.5	18.0
	11 - 12	0.1	0.2	0.3	0.5	0.5	0.9	1.3	34.4	17.1
	12 - 13	0.0	0.0	0.1	0.3	0.3	0.8	0.9	34.3	17.2
	13 - 14	0.0	0.0	0.1	0.3	0.3	1.0	1.2	33.6	18.5
	14 - 15	0.0	0.0	0.1	0.3	0.5	1.1	1.2	33.9	17.8
	15 - 16	0.0	0.0	0.2	0.5	0.7	1.5	1.9	34.8	17.2
	16 - 17	0.0	0.0	0.3	0.4	0.7	1.1	1.5	35.3	17.7
	17 - 18	0.0	0.0	0.1	0.3	0.5	1.1	1.5	34.7	17.5
	18 - 19	0.0	0.0	0.2	0.5	0.6	1.1	1.7	33.7	20.8
	19 - 20	0.0	0.0	0.2	0.6	0.8	1.7	2.2	34.7	34.1
	20 - 21	0.1	0.1	0.2	0.5	1.0	1.3	1.6	33.2	36.0
	21 - 22	0.3	0.3	0.3	0.9	1.7	2.0	2.0	29.9	80.5

	Ceiling (ft) Spring (Mar/Apr/May)								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.4	0.6	1.7	1.9	2.1	2.5	2.6	43.1	71.3
	04 - 05	0.2	0.2	0.8	1.3	1.5	1.8	2.0	41.1	30.8
	05 - 06	0.1	0.1	0.4	0.6	0.9	1.2	1.4	38.1	12.6
	06 - 07	0.1	0.2	0.4	0.5	1.0	1.2	1.3	38.9	8.9
	07 - 08	0.0	0.1	0.1	0.3	0.5	0.8	1.0	37.0	6.3
	08 - 09	0.0	0.1	0.1	0.1	0.4	0.7	1.2	36.5	5.5
	09 - 10	0.0	0.0	0.0	0.0	0.2	0.5	0.7	36.1	4.9
	10 - 11	0.0	0.0	0.0	0.0	0.2	0.3	0.5	35.0	5.1
	11 - 12	0.0	0.0	0.0	0.0	0.2	0.5	0.6	36.8	5.1
	12 - 13	0.0	0.0	0.0	0.0	0.1	0.3	0.4	37.3	4.9
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.1	0.3	38.0	5.3
	14 - 15	0.0	0.0	0.0	0.0	0.1	0.1	0.2	38.9	5.7
	15 - 16	0.0	0.0	0.0	0.0	0.1	0.2	0.3	37.5	5.1
	16 - 17	0.0	0.0	0.0	0.0	0.1	0.2	0.3	37.0	5.8
	17 - 18	0.0	0.0	0.1	0.1	0.1	0.2	0.3	37.4	6.9
	18 - 19	0.0	0.0	0.1	0.1	0.1	0.1	0.3	37.1	13.8
	19 - 20	0.0	0.0	0.1	0.1	0.1	0.1	0.4	37.3	25.8
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.1	0.4	33.1	61.5
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	93.6

	Ceiling (ft) Summer (Jun/Jul/Aug)								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.0	0.0	0.3	0.4	0.4	0.4	0.4	32.0	57.9
	04 - 05	0.1	0.3	0.5	0.5	0.5	0.5	0.7	32.8	16.5
	05 - 06	0.0	0.1	0.2	0.2	0.3	0.3	0.7	32.7	9.7
	06 - 07	0.0	0.0	0.1	0.1	0.1	0.1	0.2	33.6	3.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	5.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4	4.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	4.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	4.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	3.4
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	4.6
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	5.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	4.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	4.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	4.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.1	0.1	24.6	6.6
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	14.3
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	26.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	75.7
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2	99.3

	Ceiling (ft) Autumn (Sep/Oct/Nov)									
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.3	0.3	0.5	0.8	1.0	1.0	1.0	39.1	78.2
	04 - 05	0.2	0.4	0.7	0.7	1.0	1.3	1.5	40.8	37.3
	05 - 06	0.1	0.1	1.1	1.4	1.6	1.9	2.5	43.5	13.1
	06 - 07	0.1	0.2	0.5	0.9	1.3	1.9	2.4	45.0	6.9
	07 - 08	0.2	0.2	0.5	0.8	1.2	1.8	2.4	45.3	4.7
	08 - 09	0.1	0.1	0.5	0.7	0.9	1.3	1.7	44.3	3.5
	09 - 10	0.0	0.1	0.3	0.5	0.6	0.8	1.0	42.9	3.8
	10 - 11	0.0	0.0	0.2	0.3	0.4	0.5	0.7	40.2	3.4
	11 - 12	0.0	0.0	0.0	0.0	0.1	0.2	0.6	39.8	3.7
	12 - 13	0.0	0.0	0.0	0.0	0.1	0.3	0.5	39.6	3.1
	13 - 14	0.0	0.0	0.0	0.0	0.1	0.1	0.2	39.7	3.6
	14 - 15	0.0	0.0	0.0	0.0	0.1	0.1	0.1	38.9	4.2
	15 - 16	0.0	0.0	0.0	0.0	0.1	0.2	0.2	39.3	4.1
	16 - 17	0.0	0.0	0.0	0.0	0.3	0.3	0.3	39.3	3.6
	17 - 18	0.0	0.0	0.0	0.0	0.2	0.2	0.2	39.5	4.8
	18 - 19	0.0	0.0	0.0	0.0	0.2	0.2	0.2	39.6	10.9
	19 - 20	0.0	0.0	0.1	0.1	0.4	0.4	0.5	39.8	25.6
	20 - 21	0.0	0.0	0.4	0.4	0.5	0.6	1.0	41.4	48.9
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.5	0.5	43.1	88.1

3.2.4. Hourly Ceiling per Month

Example (dark shading): In the 10 years period in January 2.3% 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) January								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8
	04 - 05	0.5	0.5	0.5	0.9	2.3	3.3	4.2	31.5	65.6
	05 - 06	0.5	0.7	1.4	2.1	2.6	3.7	4.6	31.6	30.5
	06 - 07	0.4	0.4	0.4	0.9	1.5	2.0	3.3	33.8	26.1
	07 - 08	0.4	0.4	0.4	0.8	1.0	2.2	3.9	36.5	21.0
	08 - 09	0.0	0.4	1.2	1.4	1.7	2.7	3.5	37.0	21.9
	09 - 10	0.2	0.2	0.2	1.0	1.4	1.6	2.8	37.7	20.5
	10 - 11	0.0	0.4	0.8	1.2	1.4	1.8	2.4	35.5	19.2
	11 - 12	0.2	0.2	0.4	0.8	0.8	1.2	1.6	36.7	19.2
	12 - 13	0.0	0.0	0.4	0.6	0.6	1.4	1.6	36.0	20.3
	13 - 14	0.0	0.0	0.4	0.8	1.0	1.4	1.8	35.2	20.3
	14 - 15	0.0	0.0	0.2	0.8	1.2	1.6	1.8	34.7	19.5
	15 - 16	0.0	0.0	0.4	0.8	1.2	2.0	2.6	35.3	18.7
	16 - 17	0.0	0.0	0.6	0.6	1.0	1.6	2.0	34.6	18.9
	17 - 18	0.0	0.0	0.4	0.4	0.4	1.2	1.8	34.0	18.9
	18 - 19	0.0	0.0	0.4	0.4	0.4	1.0	2.1	33.8	22.7
	19 - 20	0.0	0.0	0.5	0.5	0.5	1.5	2.0	35.8	35.2
	20 - 21	0.3	0.3	0.5	0.5	0.8	1.3	1.5	32.7	37.4
	21 - 22	0.8	0.8	0.8	0.8	1.7	2.5	2.5	26.4	80.5

	Ceiling (ft) February								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.8
	04 - 05	0.0	0.0	0.5	1.1	2.2	2.7	2.7	24.7	67.7
	05 - 06	0.0	0.0	0.5	1.1	1.6	3.3	3.3	25.8	34.8
	06 - 07	0.0	0.0	0.2	0.7	1.5	2.5	2.5	29.0	28.4
	07 - 08	0.0	0.0	0.0	0.7	1.2	2.2	2.4	29.8	26.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.5	1.0	32.1	26.1
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.2	0.5	30.7	24.8
	10 - 11	0.0	0.0	0.2	0.2	0.2	0.5	0.7	31.5	27.3
	11 - 12	0.0	0.0	0.2	0.5	0.5	0.5	0.9	28.6	25.0
	12 - 13	0.0	0.0	0.0	0.2	0.5	0.7	1.0	27.7	25.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	1.0	1.2	25.9	27.3
	14 - 15	0.0	0.0	0.2	0.2	0.2	1.0	1.0	27.1	26.6
	15 - 16	0.0	0.0	0.2	0.5	0.5	1.0	1.0	28.0	25.9
	16 - 17	0.0	0.0	0.2	0.2	0.2	0.7	0.7	27.9	25.5
	17 - 18	0.0	0.0	0.0	0.2	0.2	0.7	0.7	26.8	25.9
	18 - 19	0.0	0.0	0.2	0.7	0.7	1.5	1.5	25.7	28.2
	19 - 20	0.0	0.0	0.0	0.6	1.2	2.1	2.1	26.0	39.9
	20 - 21	0.0	0.0	0.0	0.6	1.2	1.8	1.8	25.6	39.7
	21 - 22	0.0	0.0	0.0	1.1	2.1	2.1	2.1	23.2	83.2

	Ceiling (ft) March								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.9	95.6
	04 - 05	0.0	0.0	0.0	0.4	0.7	1.8	1.8	28.0	55.0
	05 - 06	0.0	0.0	0.2	0.4	1.0	1.9	2.1	27.9	16.3
	06 - 07	0.0	0.0	0.5	0.9	1.6	2.4	2.6	26.8	11.6
	07 - 08	0.0	0.3	0.3	0.7	1.4	2.1	2.4	25.5	7.1
	08 - 09	0.0	0.2	0.2	0.3	1.2	2.1	2.9	26.2	6.5
	09 - 10	0.0	0.0	0.0	0.0	0.7	1.5	2.2	26.7	5.8
	10 - 11	0.0	0.0	0.0	0.0	0.5	1.0	1.5	25.5	6.3
	11 - 12	0.0	0.0	0.0	0.0	0.5	1.4	1.6	25.6	6.8
	12 - 13	0.0	0.0	0.0	0.0	0.3	0.9	1.0	26.2	5.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.3	0.7	25.7	6.6
	14 - 15	0.0	0.0	0.0	0.0	0.2	0.3	0.5	27.5	7.4
	15 - 16	0.0	0.0	0.0	0.0	0.3	0.5	0.7	27.3	5.5
	16 - 17	0.0	0.0	0.0	0.0	0.4	0.5	0.9	26.8	8.4
	17 - 18	0.0	0.0	0.3	0.3	0.3	0.5	0.9	27.0	7.4
	18 - 19	0.0	0.0	0.2	0.2	0.2	0.2	0.7	25.6	9.8
	19 - 20	0.0	0.0	0.2	0.2	0.2	0.2	0.6	25.2	24.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.2	0.5	25.6	34.5
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	82.6

	Ceiling (ft) April								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.4	0.4	2.1	2.1	2.1	2.9	3.3	39.2	60.0
04 - 05	0.4	0.4	1.5	1.7	1.7	1.9	2.5	41.8	20.7
05 - 06	0.4	0.4	1.0	1.3	1.3	1.3	1.7	41.3	12.3
06 - 07	0.4	0.4	0.6	0.6	0.6	0.6	0.6	43.0	9.7
07 - 08	0.0	0.0	0.0	0.2	0.2	0.2	0.4	41.0	7.0
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.5	41.7	5.3
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.2	5.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.9	4.2
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.4	42.4	5.2
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.2	42.3	6.3
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.2	42.9	5.5
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.1	5.3
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.4	45.8	5.7
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	5.8
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	7.2
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.2	45.2	17.0
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.5	44.4	30.2
20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.7	42.7	76.2
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8

	Ceiling (ft) May								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.4	0.8	1.5	1.9	2.3	2.3	2.3	48.5	57.7
04 - 05	0.0	0.0	0.6	1.3	1.7	1.7	1.7	47.4	16.3
05 - 06	0.0	0.0	0.0	0.2	0.5	0.5	0.5	44.6	9.2
06 - 07	0.0	0.2	0.2	0.2	0.7	0.7	0.7	46.3	5.3
07 - 08	0.0	0.0	0.0	0.0	0.0	0.2	0.2	44.5	4.7
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	4.7
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6	3.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	4.7
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.2	3.4
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3	3.2
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	3.7
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	4.2
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7	4.2
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.9	3.1
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6	6.1
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.5	14.5
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	22.7
20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8	74.2
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5	98.7

	Ceiling (ft) June								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.8	0.8	0.8	0.8	0.8	31.1	57.2
04 - 05	0.0	0.8	1.2	1.2	1.2	1.2	1.2	32.5	16.0
05 - 06	0.0	0.2	0.5	0.5	0.5	0.5	0.9	34.9	8.7
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	2.7
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	3.2
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	3.7
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	3.7
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	4.3
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	2.7
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	3.8
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	5.0
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	3.5
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3	3.5
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.8	4.2
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.2	5.7
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	12.8
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	26.7
20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.3	72.7
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	98.5

	Ceiling (ft) July								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.0	0.4	0.4	0.4	0.4	31.4	58.9
04 - 05	0.2	0.2	0.2	0.4	0.4	0.4	0.8	32.3	17.6
05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.4	31.0	11.5
06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	5.6
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	8.4
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	6.1
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6	6.5
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	7.3
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	5.2
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	6.3
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	6.9
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	6.6
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	6.5
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	6.6
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	9.8
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	15.8
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	26.6
20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	75.0
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	99.7

	Ceiling (ft) August								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	57.6
04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.6	16.0
05 - 06	0.0	0.0	0.0	0.2	0.4	0.4	0.7	32.4	8.9
06 - 07	0.0	0.0	0.3	0.3	0.3	0.3	0.5	33.9	2.9
07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	3.9
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	2.9
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	3.2
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	2.7
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	2.4
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	3.7
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	4.5
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	4.0
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	4.0
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	3.2
17 - 18	0.0	0.0	0.0	0.0	0.0	0.2	0.2	24.6	4.4
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	14.4
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	26.1
20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	79.4
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	99.7

	Ceiling (ft) September								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.4	0.4	0.8	0.8	0.8	0.8	0.8	37.2	60.2
04 - 05	0.0	0.2	0.6	0.6	0.6	0.6	0.6	41.1	19.7
05 - 06	0.0	0.0	0.9	0.9	1.1	1.1	1.5	44.8	9.2
06 - 07	0.0	0.0	0.2	0.7	0.9	0.9	1.2	45.9	3.0
07 - 08	0.0	0.0	0.0	0.0	0.2	0.2	0.9	46.8	2.5
08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.7	43.3	3.8
09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.2	41.2	3.7
10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	37.1	3.3
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.7	37.6	2.5
12 - 13	0.0	0.0	0.0	0.0	0.0	0.2	0.3	35.7	3.0
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	2.8
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1	3.7
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.8	5.2
16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	3.7
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2	5.2
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.3	15.5
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2	29.5
20 - 21	0.0	0.0	0.6	0.6	0.6	0.6	0.6	41.7	72.0
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	98.0

	Ceiling (ft) October								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.0	0.6	1.3	1.3	1.3	42.0	74.7
04 - 05	0.0	0.2	0.7	0.7	1.0	1.7	1.9	40.0	32.6
05 - 06	0.0	0.0	1.5	2.1	2.2	3.0	3.6	43.2	13.7
06 - 07	0.0	0.0	0.4	0.4	1.1	1.8	2.1	44.7	7.9
07 - 08	0.2	0.3	0.3	0.3	0.9	1.7	2.1	44.2	6.9
08 - 09	0.0	0.0	0.3	0.3	0.5	0.8	1.4	42.9	4.5
09 - 10	0.0	0.0	0.0	0.0	0.3	0.3	0.8	41.6	3.5
10 - 11	0.0	0.0	0.0	0.3	0.3	0.3	0.7	39.8	3.2
11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.3	39.3	3.1
12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	41.0	3.7
13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2	2.9
14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.2	4.2
15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6	3.9
16 - 17	0.0	0.0	0.0	0.0	0.3	0.3	0.3	41.4	3.1
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	5.3
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.2	9.7
19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.8	26.1
20 - 21	0.0	0.0	0.3	0.3	0.3	0.3	0.3	40.7	48.9
21 - 22	0.0	0.0	0.0	0.0	0.0	1.8	1.8	35.7	91.0

	Ceiling (ft) November								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
04 - 05	0.8	0.8	0.8	0.8	1.7	2.1	2.5	41.5	59.8
05 - 06	0.4	0.4	0.8	1.2	1.4	1.6	2.6	42.5	16.5
06 - 07	0.4	0.6	1.1	1.8	2.0	3.1	3.9	44.5	9.7
07 - 08	0.3	0.3	1.2	2.1	2.4	3.7	4.2	44.9	4.7
08 - 09	0.3	0.3	1.2	1.7	2.2	3.1	3.1	46.7	2.2
09 - 10	0.0	0.2	0.9	1.6	1.6	2.1	2.1	46.1	4.2
10 - 11	0.0	0.0	0.5	0.5	0.9	1.0	1.0	43.6	3.7
11 - 12	0.0	0.0	0.0	0.0	0.4	0.5	0.7	42.6	5.7
12 - 13	0.0	0.0	0.0	0.0	0.3	0.7	0.9	42.1	2.7
13 - 14	0.0	0.0	0.0	0.0	0.4	0.4	0.5	42.5	5.0
14 - 15	0.0	0.0	0.0	0.0	0.4	0.4	0.4	41.3	4.8
15 - 16	0.0	0.0	0.0	0.0	0.3	0.5	0.5	42.5	3.2
16 - 17	0.0	0.0	0.0	0.0	0.7	0.7	0.7	43.2	4.0
17 - 18	0.0	0.0	0.0	0.0	0.7	0.7	0.7	41.7	4.0
18 - 19	0.0	0.0	0.0	0.0	0.7	0.7	0.7	42.0	7.5
19 - 20	0.0	0.0	0.2	0.4	1.3	1.3	1.5	42.1	21.2
20 - 21	0.0	0.0	0.4	0.4	0.7	0.9	1.6	41.8	25.8
21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	75.3

	Ceiling (ft) December								
Time (UTC)	< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
04 - 05	0.0	0.0	1.7	2.5	2.9	3.3	4.1	35.7	61.1
05 - 06	0.0	0.2	2.3	3.1	3.5	3.9	4.3	34.4	21.6
06 - 07	0.0	0.0	1.3	2.5	3.0	4.6	5.5	34.3	15.0
07 - 08	0.2	0.4	2.0	2.3	3.2	4.8	5.5	34.6	9.5
08 - 09	0.7	0.9	2.5	2.8	3.2	4.4	5.4	35.4	8.1
09 - 10	0.5	0.5	1.1	1.4	1.6	1.6	2.3	39.1	8.4
10 - 11	0.2	0.5	0.7	1.1	1.1	1.1	1.6	38.3	8.2
11 - 12	0.0	0.4	0.4	0.4	0.4	1.1	1.2	36.6	7.9
12 - 13	0.0	0.0	0.0	0.0	0.0	0.3	0.3	37.6	6.5
13 - 14	0.0	0.0	0.0	0.0	0.0	0.5	0.5	37.7	8.5
14 - 15	0.0	0.0	0.0	0.0	0.2	0.9	0.9	38.1	8.1
15 - 16	0.0	0.0	0.0	0.2	0.5	1.4	1.9	39.3	7.7
16 - 17	0.0	0.0	0.0	0.4	0.7	1.1	1.6	41.5	9.5
17 - 18	0.0	0.0	0.0	0.4	0.7	1.2	1.8	41.3	8.5
18 - 19	0.0	0.0	0.0	0.4	0.6	0.9	1.5	39.4	12.1
19 - 20	0.0	0.0	0.0	0.7	0.7	1.6	2.5	40.2	27.7
20 - 21	0.0	0.0	0.0	0.5	0.9	0.9	1.4	39.6	31.1
21 - 22	0.0	0.0	0.0	0.7	1.5	1.5	1.5	37.8	78.2

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 24.1% 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)	03 - 04	1.0	2.0	4.3	11.0	29.7	88.4	76.5
	04 - 05	1.3	2.5	5.4	13.4	31.4	87.9	36.0
	05 - 06	1.4	3.0	6.9	15.7	32.0	87.1	14.1
	06 - 07	1.6	2.9	6.9	15.6	31.6	87.7	8.6
	07 - 08	1.3	2.5	6.0	14.6	29.9	88.5	7.0
	08 - 09	0.9	2.1	5.3	13.1	28.2	89.9	6.6
	09 - 10	0.4	1.3	4.3	11.4	26.0	91.5	6.6
	10 - 11	0.2	1.0	3.6	9.6	24.1	91.9	7.0
	11 - 12	0.1	0.7	2.9	8.1	22.9	92.3	6.6
	12 - 13	0.1	0.6	2.6	7.7	22.2	92.8	6.8
	13 - 14	0.2	0.5	2.5	7.3	21.3	93.2	7.5
	14 - 15	0.2	0.6	2.5	7.2	21.5	93.2	7.4
	15 - 16	0.3	0.6	2.9	7.8	22.7	92.8	7.0
	16 - 17	0.3	0.8	2.9	8.4	24.2	92.2	7.1
	17 - 18	0.2	0.8	3.1	8.6	24.7	91.8	7.9
	18 - 19	0.2	0.8	2.9	9.0	24.9	91.2	13.8
	19 - 20	0.2	0.8	3.3	9.2	25.6	91.7	26.8
	20 - 21	0.4	1.5	4.5	12.2	30.6	89.7	54.7
	21 - 22	0.7	2.8	6.1	14.5	33.6	87.7	90.3

3.3.2. Monthly Visibility and Ceiling 10 Years

Example (dark shading): In the 10 years period 31.6% 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	2.6	5.1	10.1	17.8	31.1	88.5	44.4
	February	0.6	2.3	6.8	14.9	33.8	82.9	47.9
	March	0.4	1.6	3.8	10.0	26.6	87.3	35.6
	April	0.3	0.6	2.4	9.4	22.9	95.5	36.4
	May	0.3	0.6	2.5	9.0	22.4	96.2	34.9
	June	0.0	0.2	1.0	4.8	21.6	89.5	34.8
	July	0.0	0.0	0.6	3.0	17.8	92.7	36.8
	August	0.0	0.2	0.4	2.3	11.4	96.4	35.1
	September	0.1	0.4	2.1	9.0	26.0	90.4	35.0
	October	0.6	1.7	6.1	18.1	40.3	85.8	34.9
	November	0.7	1.1	6.3	15.2	31.6	92.4	35.3
	December	1.2	3.3	7.5	14.0	28.2	91.4	38.4

3.3.3. Hourly Visibility and Ceiling per Season

Example (dark shading): In the 10 years period in winter 30.8% 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)	03 - 04	0.0	0.0	50.0	50.0	50.0	50.0	99.9
	04 - 05	2.3	4.4	10.5	17.4	29.8	85.6	63.4
	05 - 06	2.5	5.8	11.6	19.1	30.4	85.1	25.8
	06 - 07	3.4	6.4	12.0	19.8	32.3	84.1	19.2
	07 - 08	3.6	6.7	11.9	20.5	33.0	84.8	15.3
	08 - 09	3.2	6.4	11.8	20.2	33.1	85.3	15.3
	09 - 10	1.8	4.2	9.6	18.8	32.7	88.0	14.9
	10 - 11	0.9	3.6	7.8	15.2	30.8	89.0	15.7
	11 - 12	0.6	2.2	6.4	13.5	28.4	90.1	15.3
	12 - 13	0.7	1.7	6.3	13.1	27.9	90.9	15.5
	13 - 14	0.8	2.0	5.8	11.9	27.0	90.5	16.7
	14 - 15	0.9	2.2	5.7	11.6	26.9	90.7	16.1
	15 - 16	1.0	2.2	6.3	13.0	29.1	90.1	15.3
	16 - 17	1.0	2.6	6.7	13.3	31.4	89.2	15.7
	17 - 18	0.9	2.6	6.9	13.6	33.2	87.6	15.4
	18 - 19	0.7	2.9	6.8	13.8	31.9	88.1	18.6
	19 - 20	0.7	2.9	7.2	14.7	32.0	88.7	32.0
	20 - 21	1.0	3.0	7.6	14.9	32.2	87.2	33.8
	21 - 22	1.4	4.7	8.1	17.0	35.8	84.1	80.2

	Spring (Mar/Apr/May)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	1.9	3.3	6.3	14.9	31.8	90.0	70.8
	04 - 05	1.7	3.1	6.2	15.5	33.6	89.3	28.6
	05 - 06	1.3	2.7	6.4	15.6	33.2	87.7	10.1
	06 - 07	1.1	2.4	5.7	15.5	32.3	88.7	6.6
	07 - 08	0.6	1.4	3.9	13.9	29.1	89.6	4.3
	08 - 09	0.2	1.1	3.5	11.7	27.3	91.8	4.1
	09 - 10	0.0	0.7	2.8	9.7	23.8	93.3	3.8
	10 - 11	0.0	0.5	2.3	8.6	22.3	93.9	4.2
	11 - 12	0.0	0.5	2.0	6.9	20.1	94.6	4.2
	12 - 13	0.0	0.3	1.5	6.5	18.8	95.5	4.1
	13 - 14	0.0	0.2	1.5	6.5	18.6	95.6	4.3
	14 - 15	0.1	0.2	1.5	6.9	19.0	95.1	4.8
	15 - 16	0.1	0.3	1.8	7.0	18.7	95.5	4.2
	16 - 17	0.1	0.3	1.5	7.3	20.4	95.3	4.6
	17 - 18	0.1	0.4	2.0	6.9	21.1	94.6	5.6
	18 - 19	0.1	0.3	1.5	7.1	22.2	93.6	12.3
	19 - 20	0.1	0.4	2.2	6.8	22.6	94.0	24.5
	20 - 21	0.0	0.7	2.7	8.6	26.7	91.6	60.3
	21 - 22	0.0	1.7	3.4	6.7	23.5	92.4	93.5

	Summer (Jun/Jul/Aug)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.5	0.9	2.7	6.7	26.5	88.2	57.7
	04 - 05	0.2	0.8	1.9	7.1	27.0	88.8	16.2
	05 - 06	0.1	0.7	1.9	7.4	25.6	89.0	9.3
	06 - 07	0.0	0.1	1.1	5.4	22.5	91.5	3.6
	07 - 08	0.0	0.0	0.8	4.3	20.1	91.6	5.1
	08 - 09	0.0	0.1	0.6	3.6	18.5	92.2	4.1
	09 - 10	0.0	0.0	0.3	3.1	16.6	93.1	4.3
	10 - 11	0.0	0.0	0.3	2.5	14.9	93.1	4.7
	11 - 12	0.0	0.0	0.4	2.1	14.5	93.1	3.4
	12 - 13	0.0	0.0	0.3	2.2	13.9	93.3	4.6
	13 - 14	0.0	0.1	0.2	1.5	12.2	93.8	5.5
	14 - 15	0.0	0.0	0.2	2.0	12.3	94.9	4.7
	15 - 16	0.0	0.0	0.5	2.0	13.2	94.7	4.7
	16 - 17	0.0	0.1	0.4	2.3	13.4	94.5	4.6
	17 - 18	0.0	0.1	0.4	2.3	12.4	95.6	6.3
	18 - 19	0.0	0.0	0.4	1.8	13.0	94.9	13.9
	19 - 20	0.0	0.0	0.5	2.7	16.2	94.1	26.0
	20 - 21	0.0	0.0	0.7	4.0	19.6	94.4	75.7
	21 - 22	0.0	0.0	0.0	7.7	23.1	84.6	99.3

	Autumn (Sep/Oct/Nov)							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.7	2.2	4.5	14.2	32.8	87.1	77.9
	04 - 05	1.7	3.1	6.1	17.0	35.5	86.6	36.2
	05 - 06	1.9	3.6	8.6	21.7	38.7	86.1	11.3
	06 - 07	2.1	3.4	9.9	22.6	39.5	85.9	5.0
	07 - 08	1.4	2.4	8.4	20.4	37.6	87.4	3.4
	08 - 09	0.5	1.4	6.3	18.0	34.6	89.6	3.0
	09 - 10	0.1	0.6	5.1	15.0	31.5	91.2	3.6
	10 - 11	0.0	0.4	4.8	13.0	29.2	91.2	3.4
	11 - 12	0.0	0.2	3.4	10.6	29.3	91.1	3.7
	12 - 13	0.0	0.3	2.9	9.9	28.9	91.4	3.1
	13 - 14	0.0	0.1	3.1	10.0	27.9	92.4	3.6
	14 - 15	0.0	0.2	3.0	9.0	28.6	91.6	4.2
	15 - 16	0.0	0.2	3.6	9.9	30.6	90.6	3.8
	16 - 17	0.1	0.3	3.5	11.3	32.6	89.4	3.5
	17 - 18	0.1	0.2	3.3	12.0	32.9	89.0	4.5
	18 - 19	0.1	0.3	3.3	13.4	32.9	88.2	10.4
	19 - 20	0.1	0.4	3.7	13.1	32.1	89.4	24.8
	20 - 21	0.1	0.9	3.9	15.3	36.9	89.1	48.6
	21 - 22	0.0	0.5	4.6	15.1	36.2	91.3	88.0

3.3.4. Hourly Visibility and Ceiling per Month

Example (dark shading): In the 10 years period in January 30.9% 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)	03 - 04	0.0	0.0	0.0	0.0	0.0	100.0	99.8
	04 - 05	3.6	4.5	11.8	17.2	29.0	86.9	64.4
	05 - 06	3.8	6.8	13.7	20.3	30.5	86.1	26.9
	06 - 07	5.1	7.4	13.3	20.7	32.3	84.9	21.1
	07 - 08	5.0	7.7	12.9	22.0	33.2	85.5	16.5
	08 - 09	4.9	8.8	14.2	22.0	32.7	86.4	17.3
	09 - 10	2.1	5.4	12.0	22.6	33.3	89.0	16.6
	10 - 11	1.5	4.6	9.1	18.2	30.9	89.9	16.6
	11 - 12	1.2	3.1	8.0	15.4	27.8	91.4	17.1
	12 - 13	1.2	3.4	8.5	15.8	27.7	91.5	18.4
	13 - 14	2.0	4.0	8.3	13.4	27.3	91.5	18.4
	14 - 15	2.1	4.3	8.0	13.1	28.3	90.0	17.4
	15 - 16	2.1	3.9	7.9	15.8	28.9	89.6	16.3
	16 - 17	2.5	4.4	9.2	16.5	31.7	88.9	16.0
	17 - 18	2.1	4.2	9.2	16.9	33.5	88.5	15.8
	18 - 19	2.0	5.0	9.2	16.8	33.6	88.2	19.4
	19 - 20	1.7	4.3	9.6	17.5	34.5	88.5	32.7
	20 - 21	1.8	3.8	9.0	17.8	33.7	86.7	35.8
	21 - 22	3.2	5.6	9.7	18.5	34.7	83.9	80.0

	February							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	100
	04 - 05	1.0	2.6	9.4	16.8	35.6	80.1	66.1
	05 - 06	0.8	3.1	9.9	17.7	34.0	80.5	31.7
	06 - 07	0.7	3.8	10.2	18.3	35.2	81.5	25.4
	07 - 08	1.8	4.8	9.9	18.9	34.5	82.1	22.9
	08 - 09	1.8	4.1	9.8	18.7	35.8	80.8	22.3
	09 - 10	0.9	3.6	7.9	16.9	35.3	83.1	21.1
	10 - 11	0.0	2.6	6.3	14.0	34.7	83.5	23.8
	11 - 12	0.0	0.9	4.8	13.2	32.7	83.2	21.8
	12 - 13	0.0	0.5	4.3	12.6	30.6	85.2	22.3
	13 - 14	0.0	0.9	4.2	11.6	30.0	84.4	23.8
	14 - 15	0.5	1.4	4.6	11.8	29.9	85.9	23.4
	15 - 16	0.5	1.1	5.7	12.6	32.0	85.3	22.9
	16 - 17	0.5	1.4	5.9	12.5	33.9	83.6	22.2
	17 - 18	0.5	1.4	5.7	13.5	37.3	80.3	22.5
	18 - 19	0.0	1.7	5.7	14.0	34.7	83.1	25.4
	19 - 20	0.3	2.2	6.7	14.8	33.7	84.7	36.3
	20 - 21	0.6	3.0	7.2	15.2	33.7	83.7	35.8
	21 - 22	0.0	4.0	6.1	18.2	39.4	77.8	82.4

	March							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	3.6	3.6	3.6	3.6	10.7	92.9	95.5
	04 - 05	1.4	2.7	4.8	9.2	27.4	84.9	52.9
	05 - 06	1.1	3.0	6.9	12.8	30.8	83.5	13.1
	06 - 07	1.6	4.2	8.1	17.0	34.8	81.3	8.7
	07 - 08	1.5	3.4	6.2	15.2	33.7	82.1	3.7
	08 - 09	0.5	2.5	5.7	13.9	30.8	85.8	3.5
	09 - 10	0.0	1.7	4.0	10.3	26.3	87.8	3.2
	10 - 11	0.0	1.0	3.2	9.5	24.6	88.4	3.7
	11 - 12	0.0	1.0	2.4	8.2	23.7	88.4	4.2
	12 - 13	0.0	0.7	1.7	7.8	22.1	89.9	2.7
	13 - 14	0.0	0.5	1.8	7.7	22.1	89.9	3.7
	14 - 15	0.2	0.3	2.0	7.6	23.6	89.3	5.0
	15 - 16	0.3	0.8	2.8	8.7	24.3	89.5	3.2
	16 - 17	0.3	1.0	2.6	8.7	24.7	89.2	5.5
	17 - 18	0.3	1.0	3.5	9.1	26.9	88.2	4.0
	18 - 19	0.2	0.9	2.6	8.8	26.2	87.2	6.5
	19 - 20	0.4	1.0	3.3	7.6	25.6	88.5	21.3
	20 - 21	0.0	1.2	3.5	8.7	27.2	87.8	31.1
	21 - 22	0.0	1.8	3.6	7.3	25.5	91.8	82.3

	April							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	1.2	2.9	4.1	11.4	27.3	91.4	59.2
	04 - 05	1.4	2.4	4.7	14.2	31.3	92.5	18.0
	05 - 06	1.5	2.2	5.7	14.5	32.2	89.7	9.5
	06 - 07	1.1	1.8	4.8	14.9	30.5	91.9	7.0
	07 - 08	0.2	0.4	3.2	14.1	27.4	92.6	5.2
	08 - 09	0.0	0.3	2.4	10.6	25.7	94.6	4.0
	09 - 10	0.0	0.2	3.3	9.4	24.1	95.3	4.5
	10 - 11	0.0	0.3	2.4	7.8	20.3	96.0	4.2
	11 - 12	0.0	0.4	1.9	7.4	18.5	97.2	5.2
	12 - 13	0.0	0.4	0.9	6.8	18.5	97.7	6.3
	13 - 14	0.0	0.2	1.2	6.2	18.0	97.9	5.5
	14 - 15	0.0	0.0	0.9	7.9	17.8	97.0	5.3
	15 - 16	0.0	0.0	1.1	7.2	17.6	98.1	5.3
	16 - 17	0.0	0.0	1.1	7.6	19.7	97.5	5.3
	17 - 18	0.0	0.0	2.0	6.8	19.1	97.5	6.7
	18 - 19	0.0	0.0	1.6	6.7	20.8	97.6	16.0
	19 - 20	0.0	0.0	1.4	7.6	22.7	96.5	29.5
	20 - 21	0.0	0.0	2.1	11.2	30.1	96.5	76.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	100.0	99.8

	May							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	2.3	3.8	8.7	19.2	38.1	88.3	57.3
	04 - 05	2.1	4.0	8.3	20.2	39.2	88.7	14.5
	05 - 06	1.4	2.8	6.6	19.2	36.3	89.9	7.6
	06 - 07	0.7	1.3	4.2	14.8	31.8	92.6	4.0
	07 - 08	0.0	0.3	2.2	12.3	26.3	94.3	4.2
	08 - 09	0.0	0.3	2.4	10.7	25.2	95.3	4.7
	09 - 10	0.0	0.2	1.2	9.2	21.1	97.0	3.5
	10 - 11	0.0	0.0	1.2	8.3	22.0	97.5	4.7
	11 - 12	0.0	0.0	1.7	5.2	18.2	98.2	3.4
	12 - 13	0.0	0.0	1.8	4.8	15.7	99.0	3.2
	13 - 14	0.0	0.0	1.5	5.5	15.7	99.2	3.7
	14 - 15	0.0	0.2	1.7	5.1	15.7	99.2	4.2
	15 - 16	0.0	0.0	1.3	5.1	14.0	99.0	4.2
	16 - 17	0.0	0.0	1.0	5.7	16.8	99.0	3.1
	17 - 18	0.0	0.2	0.5	4.8	17.2	98.3	6.1
	18 - 19	0.0	0.0	0.4	5.7	19.1	96.8	14.5
	19 - 20	0.0	0.0	1.7	5.2	19.4	97.5	22.7
	20 - 21	0.0	0.0	1.3	6.3	22.5	97.5	74.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	100.0	98.7

	June							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.8	1.6	3.9	8.6	30.7	83.3	57.2
	04 - 05	0.2	1.6	2.4	8.3	29.8	85.4	15.7
	05 - 06	0.2	1.1	2.0	9.1	29.4	86.4	8.2
	06 - 07	0.0	0.0	1.9	8.0	25.9	88.2	2.3
	07 - 08	0.0	0.0	1.7	6.3	23.3	88.9	2.8
	08 - 09	0.0	0.0	0.5	5.0	22.1	89.7	3.3
	09 - 10	0.0	0.0	0.2	4.7	21.6	89.3	3.3
	10 - 11	0.0	0.0	0.5	5.0	20.2	89.6	4.2
	11 - 12	0.0	0.0	0.7	3.8	19.5	89.6	2.7
	12 - 13	0.0	0.0	0.5	3.1	19.8	88.9	3.8
	13 - 14	0.0	0.0	0.4	2.1	17.9	89.1	5.0
	14 - 15	0.0	0.0	0.2	2.9	17.6	91.9	3.5
	15 - 16	0.0	0.0	0.7	2.9	19.5	91.2	3.5
	16 - 17	0.0	0.2	0.7	3.1	20.0	90.6	4.2
	17 - 18	0.0	0.2	0.5	3.5	17.6	92.3	5.3
	18 - 19	0.0	0.0	1.0	3.2	17.5	92.0	12.5
	19 - 20	0.0	0.0	0.5	4.5	21.0	90.7	26.2
	20 - 21	0.0	0.0	1.2	5.5	20.7	92.7	72.7
	21 - 22	0.0	0.0	0.0	0.0	11.1	88.9	98.5

	July							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.4	0.4	3.5	9.0	29.7	87.5	58.7
	04 - 05	0.2	0.2	2.3	8.0	28.9	88.1	17.4
	05 - 06	0.0	0.0	1.5	6.0	26.0	88.2	11.1
	06 - 07	0.0	0.0	0.7	4.3	22.7	92.0	5.6
	07 - 08	0.0	0.0	0.4	3.5	20.1	92.6	8.4
	08 - 09	0.0	0.0	1.0	3.6	18.7	92.4	6.1
	09 - 10	0.0	0.0	0.7	3.3	17.6	93.8	6.5
	10 - 11	0.0	0.0	0.3	1.7	15.5	92.5	7.3
	11 - 12	0.0	0.0	0.2	1.2	16.0	92.0	5.2
	12 - 13	0.0	0.0	0.3	1.7	15.1	92.4	6.3
	13 - 14	0.0	0.2	0.2	1.9	13.3	94.1	6.9
	14 - 15	0.0	0.0	0.2	1.6	13.5	94.1	6.6
	15 - 16	0.0	0.0	0.3	1.6	14.3	94.5	6.5
	16 - 17	0.0	0.2	0.3	1.9	13.3	94.7	6.5
	17 - 18	0.0	0.0	0.2	1.2	12.8	95.0	9.4
	18 - 19	0.0	0.0	0.0	0.9	13.3	94.5	14.8
	19 - 20	0.0	0.0	0.7	2.4	18.5	94.3	25.8
	20 - 21	0.0	0.0	0.6	3.2	24.5	93.5	75.0
	21 - 22	0.0	0.0	0.0		50.0	50.0	99.7

	August							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.4	0.8	0.8	2.6	19.2	93.6	57.3
	04 - 05	0.2	0.8	1.1	5.2	22.3	92.7	15.5
	05 - 06	0.2	0.9	2.1	7.1	21.5	92.2	8.5
	06 - 07	0.0	0.3	0.7	4.0	18.9	94.2	2.9
	07 - 08	0.0	0.0	0.3	3.0	16.9	93.5	3.9
	08 - 09	0.0	0.2	0.2	2.3	15.0	94.4	2.9
	09 - 10	0.0	0.0	0.0	1.5	11.0	96.0	3.2
	10 - 11	0.0	0.0	0.2	0.8	9.5	97.0	2.7
	11 - 12	0.0	0.0	0.3	1.5	8.3	97.7	2.4
	12 - 13	0.0	0.0	0.2	1.7	7.0	98.3	3.7
	13 - 14	0.0	0.0	0.0	0.5	5.7	98.0	4.5
	14 - 15	0.0	0.0	0.3	1.5	6.1	98.7	4.0
	15 - 16	0.0	0.0	0.5	1.5	5.9	98.3	4.0
	16 - 17	0.0	0.0	0.2	1.8	7.3	98.2	3.2
	17 - 18	0.0	0.2	0.5	2.0	7.1	99.3	4.2
	18 - 19	0.0	0.0	0.2	1.3	8.3	98.1	14.4
	19 - 20	0.0	0.0	0.4	1.3	9.4	97.2	26.1
	20 - 21	0.0	0.0	0.0	3.1	12.4	97.7	79.2
	21 - 22	0.0	0.0	0.0	0.0	50.0	50.0	99.7

	September							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.4	0.8	2.1	9.2	27.5	89.6	60.0
	04 - 05	0.2	1.0	3.1	9.7	31.3	88.5	19.0
	05 - 06	0.4	1.5	4.2	16.5	36.7	87.8	8.3
	06 - 07	0.3	1.0	4.3	16.6	34.9	87.9	2.5
	07 - 08	0.0	0.3	2.9	13.1	31.6	90.1	2.3
	08 - 09	0.0	0.0	2.6	11.7	28.3	90.8	3.5
	09 - 10	0.0	0.2	1.6	9.3	25.2	91.7	3.3
	10 - 11	0.0	0.2	2.1	8.6	22.0	90.7	3.2
	11 - 12	0.0	0.3	1.2	5.8	24.1	89.9	2.5
	12 - 13	0.0	0.7	1.7	6.4	25.9	89.7	3.0
	13 - 14	0.0	0.0	1.5	5.7	23.8	91.1	2.8
	14 - 15	0.0	0.2	1.2	5.0	22.7	91.5	3.7
	15 - 16	0.0	0.0	2.1	4.9	21.4	91.7	5.2
	16 - 17	0.0	0.0	1.6	6.6	21.1	91.9	3.7
	17 - 18	0.0	0.0	1.6	7.2	21.7	91.6	4.7
	18 - 19	0.0	0.0	1.8	9.4	24.1	89.8	14.8
	19 - 20	0.0	0.0	1.4	7.0	20.7	91.1	28.5
	20 - 21	0.0	0.6	1.2	9.5	25.0	94.0	72.0
	21 - 22	0.0	0.0	0.0	0.0	33.3	66.6	98.0

	October							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	1.2	4.3	8.0	21.6	40.7	83.3	73.9
	04 - 05	2.3	5.2	8.2	22.8	40.1	83.3	31.3
	05 - 06	2.0	5.5	12.0	26.8	43.2	81.6	11.6
	06 - 07	3.4	5.4	13.8	29.2	46.3	82.3	5.0
	07 - 08	2.5	4.2	11.6	28.3	46.3	83.2	4.2
	08 - 09	0.2	1.8	7.2	23.6	42.2	86.9	3.7
	09 - 10	0.0	0.5	5.5	18.9	37.8	89.8	3.5
	10 - 11	0.0	0.3	5.2	16.0	35.2	89.2	3.2
	11 - 12	0.0	0.2	3.7	13.5	34.4	88.2	3.1
	12 - 13	0.0	0.3	3.7	11.9	33.2	89.4	3.7
	13 - 14	0.0	0.3	3.7	13.0	34.2	90.0	2.9
	14 - 15	0.0	0.3	3.2	11.8	37.0	87.9	4.2
	15 - 16	0.0	0.7	4.5	12.8	39.8	86.1	3.9
	16 - 17	0.2	0.8	4.8	15.5	42.4	85.4	3.1
	17 - 18	0.2	0.7	4.4	15.8	43.7	83.8	5.2
	18 - 19	0.0	0.4	3.6	15.7	42.3	83.1	9.4
	19 - 20	0.0	0.4	3.2	16.2	43.7	84.2	25.5
	20 - 21	0.0	0.9	3.4	16.0	47.0	81.2	48.5
	21 - 22	0.0	1.8	8.8	21.1	45.6	80.7	90.8

	November							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	100
	04 - 05	3.6	3.6	8.4	21.3	35.7	88.8	58.5
	05 - 06	3.5	3.9	9.5	21.7	36.0	89.0	14.0
	06 - 07	2.5	3.6	11.9	22.0	37.1	87.7	7.5
	07 - 08	1.7	2.8	10.5	19.5	34.9	89.1	3.5
	08 - 09	1.4	2.2	9.0	18.5	32.9	91.0	1.8
	09 - 10	0.3	1.2	8.1	16.6	31.4	92.2	3.8
	10 - 11	0.0	0.7	7.1	14.2	30.1	93.8	3.7
	11 - 12	0.0	0.2	5.5	12.5	29.3	95.4	5.7
	12 - 13	0.0	0.0	3.3	11.5	27.4	95.0	2.7
	13 - 14	0.0	0.0	4.0	11.4	25.4	96.1	5.0
	14 - 15	0.0	0.2	4.6	10.2	25.9	95.4	4.8
	15 - 16	0.0	0.0	4.1	12.0	30.3	94.0	2.5
	16 - 17	0.0	0.0	4.0	11.6	33.7	91.0	3.7
	17 - 18	0.0	0.0	4.0	13.0	33.0	91.5	3.7
	18 - 19	0.2	0.5	4.5	14.7	31.5	91.8	7.0
	19 - 20	0.4	0.6	6.3	15.7	31.2	92.9	20.3
	20 - 21	0.2	0.9	5.1	17.0	34.2	92.9	25.3
	21 - 22	0.0	0.0	3.4	14.1	32.9	94.6	75.2

	December							
	Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
	Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	100
	04 - 05	2.0	5.6	10.1	18.1	26.2	88.7	60.0
	05 - 06	2.6	6.8	11.0	19.0	27.6	87.8	19.4
	06 - 07	4.0	7.5	12.2	20.3	30.0	85.6	11.8
	07 - 08	3.7	7.1	12.5	20.5	31.7	86.1	7.3
	08 - 09	2.8	6.1	11.1	19.6	31.4	87.7	6.9
	09 - 10	2.1	3.7	8.9	16.9	30.3	90.8	7.4
	10 - 11	1.0	3.3	7.7	13.4	27.9	92.3	7.4
	11 - 12	0.5	2.3	6.3	12.2	25.7	94.1	7.6
	12 - 13	0.7	1.2	5.9	11.2	26.0	94.7	6.5
	13 - 14	0.4	1.1	4.8	10.8	24.5	94.2	8.5
	14 - 15	0.2	0.9	4.6	10.2	23.5	94.9	8.1
	15 - 16	0.3	1.4	5.4	10.6	27.2	94.1	7.4
	16 - 17	0.0	1.8	5.0	11.1	29.1	93.8	9.5
	17 - 18	0.0	2.1	5.8	10.8	29.6	92.4	8.5
	18 - 19	0.0	1.8	5.5	11.0	28.3	92.0	11.8
	19 - 20	0.2	2.0	5.3	12.0	28.2	92.2	27.4
	20 - 21	0.7	2.3	6.7	12.0	29.5	90.6	30.0
	21 - 22	0.7	4.4	8.1	14.8	34.1	88.9	78.2

4. TEMPERATURE

4.1. Temperature

4.1.1. Temperature 10 Years

Frequencies in percent of surface temperature in specified ranges of 5° C 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 17.8% of all observations between 14 and 15 UTC showed a temperature between 5 and 9 degrees Celsius.

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.2	6.2	18.4	39.8	32.6	2.8	0.1	0.0	0.0	76.6
	04 - 05	0.0	0.0	0.0	0.8	6.1	17.9	19.2	30.3	23.6	2.1	0.0	0.0	0.0	36.2
	05 - 06	0.0	0.0	0.0	1.1	9.4	23.6	18.7	23.8	20.8	2.6	0.0	0.0	0.0	14.4
	06 - 07	0.0	0.0	0.0	1.1	9.3	21.8	18.1	19.2	22.4	8.0	0.1	0.0	0.0	8.9
	07 - 08	0.0	0.0	0.0	1.0	7.8	20.0	17.3	17.6	19.5	15.8	1.0	0.0	0.0	7.3
	08 - 09	0.0	0.0	0.0	0.3	4.3	19.4	16.1	18.3	18.4	19.3	4.0	0.0	0.0	7.0
	09 - 10	0.0	0.0	0.0	0.0	1.1	16.8	16.9	18.1	18.5	19.5	9.0	0.0	0.0	6.9
	10 - 11	0.0	0.0	0.0	0.0	0.3	11.1	19.5	17.0	18.7	19.3	13.5	0.7	0.0	7.3
	11 - 12	0.0	0.0	0.0	0.0	0.2	7.3	19.7	17.3	18.6	18.7	16.2	2.0	0.0	7.0
	12 - 13	0.0	0.0	0.0	0.0	0.1	5.9	18.3	18.2	18.5	19.0	16.6	3.2	0.0	7.2
	13 - 14	0.0	0.0	0.0	0.0	0.1	5.2	16.7	19.3	19.4	18.6	17.1	3.7	0.0	7.8
	14 - 15	0.0	0.0	0.0	0.0	0.1	5.4	17.8	18.9	19.6	17.4	16.9	3.8	0.0	7.7
	15 - 16	0.0	0.0	0.0	0.0	0.1	8.0	18.7	18.2	19.2	16.3	16.5	3.1	0.0	7.3
	16 - 17	0.0	0.0	0.0	0.0	0.5	12.5	17.7	18.4	18.5	15.3	15.2	1.9	0.0	7.4
	17 - 18	0.0	0.0	0.0	0.0	1.4	16.1	17.9	19.0	19.0	15.8	10.4	0.5	0.0	8.2
	18 - 19	0.0	0.0	0.0	0.0	2.0	18.7	18.8	20.2	18.9	17.5	3.8	0.0	0.0	14.0
	19 - 20	0.0	0.0	0.0	0.0	2.8	19.9	19.7	21.1	20.4	15.2	1.1	0.0	0.0	27.1
	20 - 21	0.0	0.0	0.0	0.2	5.9	32.5	25.3	17.4	11.8	6.6	0.2	0.0	0.0	54.8
	21 - 22	0.0	0.0	0.0	0.4	11.6	44.4	29.6	10.0	3.4	0.6	0.0	0.0	0.0	90.3

4.1.2. Temperature per Month

Example (dark shading): In the 10 years period in January 53.7% of all observations between 14 and 15 UTC showed a temperature between 5 and 9 degrees Celsius.

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8
	04 - 05	0.0	0.0	0.0	10.4	33.9	48.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	64.4
	05 - 06	0.0	0.0	0.0	9.3	33.6	50.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	26.9
	06 - 07	0.0	0.0	0.0	8.8	33.3	51.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0	21.1
	07 - 08	0.0	0.0	0.0	8.3	32.0	54.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	16.5
	08 - 09	0.0	0.0	0.0	3.1	24.2	65.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0	17.3
	09 - 10	0.0	0.0	0.0	0.0	8.3	74.3	15.7	1.7	0.0	0.0	0.0	0.0	0.0	16.6
	10 - 11	0.0	0.0	0.0	0.0	0.4	58.0	38.3	2.7	0.6	0.0	0.0	0.0	0.0	16.6
	11 - 12	0.0	0.0	0.0	0.0	0.0	38.1	56.2	4.9	0.8	0.0	0.0	0.0	0.0	17.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	31.8	58.3	8.3	1.6	0.0	0.0	0.0	0.0	18.4
	13 - 14	0.0	0.0	0.0	0.0	0.0	28.7	49.8	19.2	2.4	0.0	0.0	0.0	0.0	18.4
	14 - 15	0.0	0.0	0.0	0.0	0.2	27.3	53.7	17.4	1.4	0.0	0.0	0.0	0.0	17.4
	15 - 16	0.0	0.0	0.0	0.0	0.4	37.6	54.3	7.3	0.4	0.0	0.0	0.0	0.0	16.3
	16 - 17	0.0	0.0	0.0	0.0	3.1	58.5	36.1	2.3	0.0	0.0	0.0	0.0	0.0	16.0
	17 - 18	0.0	0.0	0.0	0.0	9.2	70.7	18.6	1.5	0.0	0.0	0.0	0.0	0.0	15.8
	18 - 19	0.0	0.0	0.0	0.0	12.8	71.4	15.0	0.8	0.0	0.0	0.0	0.0	0.0	19.4
	19 - 20	0.0	0.0	0.0	0.0	18.0	68.1	12.9	1.0	0.0	0.0	0.0	0.0	0.0	32.7
	20 - 21	0.0	0.0	0.0	0.8	22.9	65.1	10.8	0.5	0.0	0.0	0.0	0.0	0.0	35.8
	21 - 22	0.0	0.0	0.0	1.6	30.6	59.7	6.5	1.6	0.0	0.0	0.0	0.0	0.0	80.0

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8
	04 - 05	0.0	0.0	0.0	1.6	36.6	53.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	66.1
	05 - 06	0.0	0.0	0.0	1.3	37.1	54.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	31.7
	06 - 07	0.0	0.0	0.0	1.4	37.3	54.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	25.4
	07 - 08	0.0	0.0	0.0	0.5	28.5	60.7	10.1	0.0	0.2	0.0	0.0	0.0	0.0	22.9
	08 - 09	0.0	0.0	0.0	0.0	8.7	70.5	19.6	0.5	0.7	0.0	0.0	0.0	0.0	22.3
	09 - 10	0.0	0.0	0.0	0.0	1.8	49.9	43.4	4.0	0.9	0.0	0.0	0.0	0.0	21.1
	10 - 11	0.0	0.0	0.0	0.0	1.2	27.7	59.8	9.5	1.9	0.0	0.0	0.0	0.0	23.8
	11 - 12	0.0	0.0	0.0	0.0	0.7	20.2	48.8	27.4	2.9	0.0	0.0	0.0	0.0	21.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	16.2	39.7	40.2	3.9	0.0	0.0	0.0	0.0	22.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	13.0	33.7	47.7	5.3	0.2	0.0	0.0	0.0	23.8
	14 - 15	0.0	0.0	0.0	0.0	0.0	15.3	34.0	44.0	6.7	0.0	0.0	0.0	0.0	23.4
	15 - 16	0.0	0.0	0.0	0.0	0.0	17.2	37.7	41.8	3.2	0.0	0.0	0.0	0.0	22.9
	16 - 17	0.0	0.0	0.0	0.0	0.0	24.4	52.4	22.8	0.5	0.0	0.0	0.0	0.0	22.2
	17 - 18	0.0	0.0	0.0	0.0	0.7	37.6	56.7	5.0	0.0	0.0	0.0	0.0	0.0	22.7
	18 - 19	0.0	0.0	0.0	0.0	1.7	53.7	42.5	2.1	0.0	0.0	0.0	0.0	0.0	25.4
	19 - 20	0.0	0.0	0.0	0.0	3.3	67.1	28.1	1.4	0.0	0.0	0.0	0.0	0.0	36.3
	20 - 21	0.0	0.0	0.0	0.0	6.6	70.7	22.1	0.6	0.0	0.0	0.0	0.0	0.0	35.8
	21 - 22	0.0	0.0	0.0	0.0	3.0	74.7	22.2	0.0	0.0	0.0	0.0	0.0	0.0	82.4

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	3.6	60.7	28.6	7.1	0.0	0.0	0.0	0.0	0.0	95.5
	04 - 05	0.0	0.0	0.0	0.0	8.9	59.6	28.8	2.7	0.0	0.0	0.0	0.0	0.0	52.9
	05 - 06	0.0	0.0	0.0	0.0	10.6	58.6	28.2	2.6	0.0	0.0	0.0	0.0	0.0	13.1
	06 - 07	0.0	0.0	0.0	0.0	7.6	55.8	33.6	2.7	0.4	0.0	0.0	0.0	0.0	8.7
	07 - 08	0.0	0.0	0.0	0.0	2.0	36.9	49.6	10.6	1.0	0.0	0.0	0.0	0.0	3.7
	08 - 09	0.0	0.0	0.0	0.0	0.0	19.9	49.2	27.3	3.0	0.7	0.0	0.0	0.0	3.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	9.5	39.8	39.3	10.0	1.3	0.0	0.0	0.0	3.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	4.7	30.2	41.2	21.4	2.5	0.0	0.0	0.0	3.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	2.9	23.1	38.4	31.1	4.5	0.0	0.0	0.0	4.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	2.8	20.2	35.8	33.7	6.6	0.8	0.0	0.0	2.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	2.5	18.3	33.8	35.2	9.0	1.2	0.0	0.0	3.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	2.5	19.4	32.9	36.5	7.8	0.8	0.0	0.0	5.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	2.7	20.7	34.8	34.2	7.0	0.7	0.0	0.0	3.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	3.2	23.7	41.5	27.8	3.8	0.0	0.0	0.0	5.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	5.4	31.4	46.6	16.0	0.7	0.0	0.0	0.0	4.0
	18 - 19	0.0	0.0	0.0	0.0	0.0	8.4	43.4	41.6	6.6	0.0	0.0	0.0	0.0	6.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	15.8	50.0	31.1	2.9	0.2	0.0	0.0	0.0	21.3
	20 - 21	0.0	0.0	0.0	0.0	0.0	23.2	52.2	23.4	1.2	0.0	0.0	0.0	0.0	31.1
	21 - 22	0.0	0.0	0.0	0.0	0.0	27.3	55.5	17.3	0.0	0.0	0.0	0.0	0.0	82.3

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.8	28.2	53.1	17.4	0.4	0.0	0.0	0.0	0.0	59.8
	04 - 05	0.0	0.0	0.0	0.0	0.4	31.5	51.6	16.5	0.0	0.0	0.0	0.0	0.0	19.0
	05 - 06	0.0	0.0	0.0	0.0	0.7	28.6	53.6	17.0	0.0	0.0	0.0	0.0	0.0	10.8
	06 - 07	0.0	0.0	0.0	0.0	0.2	14.7	57.1	27.6	0.4	0.0	0.0	0.0	0.0	8.3
	07 - 08	0.0	0.0	0.0	0.0	0.0	1.6	45.2	45.5	7.7	0.0	0.0	0.0	0.0	6.7
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.5	27.5	55.0	15.4	1.6	0.0	0.0	0.0	6.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.4	17.4	48.9	29.2	4.1	0.0	0.0	0.0	6.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.2	12.6	37.8	41.1	8.3	0.0	0.0	0.0	6.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	10.6	32.9	41.0	15.2	0.4	0.0	0.0	6.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	10.0	30.6	40.9	18.3	0.2	0.0	0.0	8.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	11.1	28.6	40.4	19.1	0.7	0.0	0.0	6.8
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	11.3	31.1	39.6	17.5	0.5	0.0	0.0	6.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.4	10.4	33.0	41.6	14.5	0.2	0.0	0.0	6.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.7	12.0	36.7	41.0	9.5	0.0	0.0	0.0	7.0
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.7	18.0	41.7	36.7	2.9	0.0	0.0	0.0	8.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.8	24.1	50.5	23.9	0.6	0.0	0.0	0.0	17.2
	19 - 20	0.0	0.0	0.0	0.0	0.0	1.4	35.4	54.7	8.4	0.0	0.0	0.0	0.0	30.8
	20 - 21	0.0	0.0	0.0	0.0	0.0	1.4	45.1	49.3	4.2	0.0	0.0	0.0	0.0	76.3
	21 - 22	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	1.5	19.5	68.6	10.3	0.0	0.0	0.0	0.0	57.9
	04 - 05	0.0	0.0	0.0	0.0	0.0	1.1	20.3	68.6	9.9	0.0	0.0	0.0	0.0	15.6
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.5	15.1	70.5	13.9	0.0	0.0	0.0	0.0	9.2
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	6.5	55.8	36.7	1.0	0.0	0.0	0.0	5.5
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	2.4	35.8	54.8	6.8	0.2	0.0	0.0	5.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	1.9	24.3	51.8	21.5	0.5	0.0	0.0	6.3
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	1.4	19.0	38.8	38.6	2.2	0.0	0.0	5.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	1.4	17.7	26.1	48.1	6.5	0.2	0.0	6.1
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	1.2	17.0	20.9	46.7	13.6	0.7	0.0	5.0
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	14.0	20.1	47.5	16.6	0.8	0.0	4.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.5	13.0	22.0	44.0	19.6	0.9	0.0	5.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.7	14.7	21.9	40.9	20.5	1.2	0.0	5.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.9	15.2	24.1	41.5	17.7	0.7	0.0	5.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	1.5	14.8	30.0	39.6	13.5	0.5	0.0	4.4
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	1.9	18.4	38.8	35.7	5.0	0.2	0.0	7.3
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	2.1	24.9	49.7	22.9	0.4	0.0	0.0	15.6
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	2.5	35.4	55.3	6.8	0.0	0.0	0.0	23.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	4.4	45.6	45.6	4.4	0.0	0.0	0.0	74.2
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5	25.0	12.5	0.0	0.0	0.0	98.7

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	7.0	49.2	40.2	3.5	0.0	0.0	0.0	57.3
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	5.9	47.2	42.9	4.0	0.0	0.0	0.0	15.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	2.4	37.1	53.6	6.9	0.0	0.0	0.0	8.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	60.1	22.5	0.3	0.0	0.0	2.3
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	47.7	41.9	3.8	0.0	0.0	2.8
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	33.3	50.6	11.4	0.0	0.0	3.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	22.6	50.2	23.8	0.2	0.0	3.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	17.6	42.6	34.8	3.0	0.0	4.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	15.6	35.0	41.7	6.2	0.0	2.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	14.6	33.0	42.6	8.3	0.0	4.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	14.1	29.9	44.5	10.0	0.0	5.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.2	28.8	45.3	8.1	0.0	3.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	16.4	28.7	44.4	7.4	0.0	3.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	17.8	31.2	43.4	4.9	0.0	4.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	22.8	40.4	31.2	2.3	0.0	5.5
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.4	31.8	49.7	13.7	0.2	0.0	12.5
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.5	10.0	45.2	40.7	3.6	0.0	0.0	26.3
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.6	10.5	54.9	32.1	1.9	0.0	0.0	73.0
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.1	66.7	11.1	0.0	0.0	0.0	98.5

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	1.2	24.2	66.8	7.8	0.0	0.0	0.0	58.7
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.8	26.2	64.6	8.4	0.0	0.0	0.0	17.4
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.4	20.4	64.2	14.7	0.4	0.0	0.0	11.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	52.1	41.5	0.3	0.0	0.0	5.6
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.9	68.5	5.6	0.0	0.0	8.4
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	12.9	66.3	19.9	0.0	0.0	6.1
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.1	48.4	41.9	0.0	0.0	6.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6.4	33.7	57.4	2.3	0.0	7.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.4	26.2	59.5	8.7	0.0	5.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	22.5	58.2	13.6	0.0	6.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6.8	21.0	56.3	15.8	0.0	6.9
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.1	20.2	56.1	16.4	0.0	6.6
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	7.2	21.4	57.6	13.3	0.0	6.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.8	25.9	56.3	9.3	0.0	6.6
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	11.6	36.5	49.6	2.0	0.0	9.4
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	16.9	61.6	21.0	0.0	0.0	14.8
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	29.2	62.1	7.0	0.0	0.0	26.0
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	43.9	51.0	2.6	0.0	0.0	75.0
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	99.7

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.0	0.8	17.6	74.4	6.9	0.4	0.0	0.0	57.7
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	1.2	20.8	71.4	6.6	0.0	0.0	0.0	16.5
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	1.1	15.7	75.8	7.5	0.0	0.0	0.0	9.4
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.2	9.2	66.0	24.3	0.3	0.0	0.0	3.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	34.6	61.9	2.4	0.0	0.0	4.8
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	17.9	67.2	14.4	0.0	0.0	3.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	12.1	51.7	35.6	0.3	0.0	3.9
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.3	37.6	53.4	2.3	0.0	3.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.8	26.1	60.6	8.0	0.0	3.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	22.3	59.0	14.8	0.0	4.4
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	21.4	58.5	16.0	0.0	5.2
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.9	19.5	56.3	17.9	0.0	4.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.6	21.8	57.4	13.9	0.0	4.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	8.4	27.0	57.2	7.0	0.0	3.9
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	15.3	47.1	36.1	1.2	0.0	4.8
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	25.0	63.9	10.6	0.0	0.0	15.0
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	34.2	62.5	1.8	0.0	0.0	26.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	37.8	57.5	0.8	0.0	0.0	79.5
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	99.8

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	0.8	17.9	59.6	21.7	0.0	0.0	0.0	0.0	60.0
	04 - 05	0.0	0.0	0.0	0.0	0.0	1.0	22.0	54.9	22.0	0.0	0.0	0.0	0.0	19.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	1.3	21.3	55.6	21.6	0.2	0.0	0.0	0.0	8.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.5	16.6	51.8	30.1	1.0	0.0	0.0	0.0	2.5
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	5.3	42.5	47.1	5.1	0.0	0.0	0.0	2.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	1.0	24.4	59.4	15.2	0.0	0.0	0.0	3.5
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	14.1	54.1	30.3	0.9	0.0	0.0	3.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.3	9.6	40.6	45.4	4.0	0.0	0.0	3.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	33.8	49.4	9.2	0.0	0.0	2.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	27.1	52.2	14.1	0.0	0.0	3.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	27.1	49.7	16.1	0.2	0.0	2.8
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	29.1	48.8	14.7	0.3	0.0	3.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	35.9	44.1	12.7	0.2	0.0	5.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	46.2	36.7	5.2	0.0	0.0	3.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	56.6	21.3	0.2	0.0	0.0	4.7
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	1.0	32.5	56.4	10.2	0.0	0.0	0.0	14.8
	19 - 20	0.0	0.0	0.0	0.0	0.0	0.0	2.3	39.2	52.4	6.1	0.0	0.0	0.0	28.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	0.0	6.5	45.2	44.0	4.2	0.0	0.0	0.0	72.0
	21 - 22	0.0	0.0	0.0	0.0	0.0	0.0	16.7	33.3	50.0	0.0	0.0	0.0	0.0	98.0

	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 – 34	≥35	NA
	03 - 04	0.0	0.0	0.0	0.0	0.0	8.6	37.7	48.8	4.9	0.0	0.0	0.0	0.0	73.9
	04 - 05	0.0	0.0	0.0	0.0	0.5	12.7	37.6	43.5	5.6	0.0	0.0	0.0	0.0	31.5
	05 - 06	0.0	0.0	0.0	0.0	0.7	14.6	39.4	40.1	5.1	0.0	0.0	0.0	0.0	11.6
	06 - 07	0.0	0.0	0.0	0.0	0.7	12.6	41.1	38.9	6.8	0.0	0.0	0.0	0.0	5.0
	07 - 08	0.0	0.0	0.0	0.0	0.3	6.9	34.5	48.8	9.3	0.2	0.0	0.0	0.0	4.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	1.0	19.3	59.5	19.8	0.5	0.0	0.0	0.0	3.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.7	6.7	53.2	37.1	2.3	0.0	0.0	0.0	3.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	4.8	38.2	50.5	6.0	0.5	0.0	0.0	3.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	4.0	29.3	52.4	13.1	1.2	0.0	0.0	3.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	3.9	24.0	52.6	18.4	1.2	0.0	0.0	3.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.6	53.8	20.4	1.3	0.0	0.0	2.9
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	3.7	23.4	53.7	17.8	1.3	0.0	0.0	4.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	4.5	33.9	49.5	11.2	0.8	0.0	0.0	3.9
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.7	6.5	54.1	34.9	3.8	0.0	0.0	0.0	3.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.9	15.3	59.0	24.7	0.2	0.0	0.0	0.0	5.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.7	23.8	58.5	16.9	0.0	0.0	0.0	0.0	9.4
	19 - 20	0.0	0.0	0.0	0.0	0.0	1.3	29.2	56.9	12.6	0.0	0.0	0.0	0.0	25.5
	20 - 21	0.0	0.0	0.0	0.0	0.0	2.5	39.8	49.5	8.2	0.0	0.0	0.0	0.0	48.5
	21 - 22	0.0	0.0	0.0	0.0	0.0	7.0	45.6	31.6	15.8	0.0	0.0	0.0	0.0	90.8

	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 – 34	≥35	NA
	03 - 04	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	100.0
	04 - 05	0.0	0.0	0.0	0.4	12.0	42.2	33.3	12.0	0.0	0.0	0.0	0.0	0.0	58.5
	05 - 06	0.0	0.0	0.0	0.4	12.6	42.1	34.1	10.9	0.0	0.0	0.0	0.0	0.0	14.0
	06 - 07	0.0	0.0	0.0	0.5	14.3	40.1	34.2	10.5	0.4	0.0	0.0	0.0	0.0	7.8
	07 - 08	0.0	0.0	0.0	0.3	11.6	38.4	38.3	11.0	0.3	0.0	0.0	0.0	0.0	3.3
	08 - 09	0.0	0.0	0.0	0.0	3.6	32.1	48.1	15.6	0.5	0.0	0.0	0.0	0.0	2.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	20.1	52.0	26.7	1.2	0.0	0.0	0.0	0.0	3.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	10.6	46.7	37.9	4.8	0.0	0.0	0.0	0.0	3.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	5.7	43.1	43.6	7.4	0.2	0.0	0.0	0.0	5.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	5.0	34.0	49.9	10.8	0.3	0.0	0.0	0.0	2.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	4.4	32.6	49.8	12.8	0.4	0.0	0.0	0.0	5.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	4.6	36.1	48.0	11.2	0.2	0.0	0.0	0.0	4.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	8.4	44.6	42.6	4.4	0.0	0.0	0.0	0.0	2.5
	16 - 17	0.0	0.0	0.0	0.0	0.2	18.4	49.7	30.8	0.9	0.0	0.0	0.0	0.0	3.8
	17 - 18	0.0	0.0	0.0	0.0	1.0	27.2	49.5	22.3	0.0	0.0	0.0	0.0	0.0	3.7
	18 - 19	0.0	0.0	0.0	0.0	1.1	32.7	47.4	18.9	0.0	0.0	0.0	0.0	0.0	7.2
	19 - 20	0.0	0.0	0.0	0.0	2.3	32.8	49.0	15.5	0.4	0.0	0.0	0.0	0.0	20.3
	20 - 21	0.0	0.0	0.0	0.0	3.6	37.5	43.8	15.0	0.2	0.0	0.0	0.0	0.0	25.3
	21 - 22	0.0	0.0	0.0	0.0	6.7	34.9	43.6	14.8	0.0	0.0	0.0	0.0	0.0	75.2

	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 – 34	≥35	NA
	03 - 04	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	100.0
	04 - 05	0.0	0.0	0.0	4.0	31.9	51.6	12.1	0.4	0.0	0.0	0.0	0.0	0.0	60.0
	05 - 06	0.0	0.0	0.0	3.6	32.3	51.5	12.4	0.2	0.0	0.0	0.0	0.0	0.0	19.2
	06 - 07	0.0	0.0	0.0	4.4	31.6	50.3	13.3	0.4	0.0	0.0	0.0	0.0	0.0	11.8
	07 - 08	0.0	0.0	0.0	3.5	27.8	55.0	13.4	0.3	0.0	0.0	0.0	0.0	0.0	7.3
	08 - 09	0.0	0.0	0.0	0.9	19.1	61.5	18.2	0.3	0.0	0.0	0.0	0.0	0.0	6.9
	09 - 10	0.0	0.0	0.0	0.0	4.7	62.5	32.2	0.5	0.0	0.0	0.0	0.0	0.0	7.4
	10 - 11	0.0	0.0	0.0	0.0	2.4	42.0	53.0	2.3	0.3	0.0	0.0	0.0	0.0	7.4
	11 - 12	0.0	0.0	0.0	0.0	1.7	28.1	63.1	6.3	0.7	0.0	0.0	0.0	0.0	7.7
	12 - 13	0.0	0.0	0.0	0.0	1.0	21.7	64.1	12.0	1.2	0.0	0.0	0.0	0.0	6.9
	13 - 14	0.0	0.0	0.0	0.0	0.7	19.3	60.5	18.1	1.4	0.0	0.0	0.0	0.0	8.9
	14 - 15	0.0	0.0	0.0	0.0	1.4	20.4	64.6	12.5	1.2	0.0	0.0	0.0	0.0	8.1
	15 - 16	0.0	0.0	0.0	0.0	1.4	35.4	60.5	2.1	0.7	0.0	0.0	0.0	0.0	7.4
	16 - 17	0.0	0.0	0.0	0.0	3.4	53.3	42.4	0.9	0.0	0.0	0.0	0.0	0.0	9.5
	17 - 18	0.0	0.0	0.0	0.0	6.0	61.2	32.1	0.7	0.0	0.0	0.0	0.0	0.0	8.5
	18 - 19	0.0	0.0	0.0	0.2	9.3	64.2	25.6	0.7	0.0	0.0	0.0	0.0	0.0	11.8
	19 - 20	0.0	0.0	0.0	0.4	10.9	63.9	24.1	0.7	0.0	0.0	0.0	0.0	0.0	27.6
	20 - 21	0.0	0.0	0.0	0.5	14.7	64.7	19.6	0.5	0.0	0.0	0.0	0.0	0.0	30.0
	21 - 22	0.0	0.0	0.0	0.7	23.0	58.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0	78.2

4.2. Maximum Temperature

4.2.1. Maximum Temperature per Month

Maximum temperatures in ° C 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 34 degrees Celsius.

	Maximum Temperature (° C) 10 Years								
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**18 - 21**	**Day**	**NA**
	January	9	9	18	17	15	14	18	44.4
	February	7	16	19	20	19	13	20	47.9
	March	14	21	24	26	25	23	26	35.6
	April	17	22	25	26	25	21	26	37.4
	May	18	26	32	33	32	26	33	35.8
	June	23	29	32	33	33	30	33	34.9
	July	26	29	32	33	33	28	33	36.8
	August	25	29	34	34	34	28	34	35.6
	September	21	23	28	30	30	22	30	35.0
	October	19	24	27	29	27	19	29	34.9
	November	14	17	20	22	17	15	22	35.4
	December	10	11	18	19	16	14	19	38.4
	Year	26	29	34	34	34	30	34	37.6

4.2.2. Maximum Temperature in 10 Years

On the 4th of August 1994 at 1220 UTC a temperature of 34° C was reported.

4.3. Average Maximum Temperature

Average maximum temperatures in ° C in specified time periods of 3 hours each month.

Example (dark shading): In the 10 years period in August the average maximum temperature reported between 12 and 15 UTC was 31.5 degrees Celsius.

	Average Maximum Temperature (° C) 10 Years							
Time (Months)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**18 - 21**	**NA**
	January	3.9	5.2	9.8	11.9	10.1	6.4	44.4
	February	4.0	7.0	12.8	14.8	13.8	8.1	47.9
	March	8.3	13.7	19.1	21.2	20.5	14.9	35.6
	April	10.9	16.9	21.2	22.1	21.3	16.9	37.4
	May	15.3	21.6	25.8	26.9	26.3	21.6	35.8
	June	20.1	25.7	29.7	30.9	30.3	26.3	34.9
	July	21.1	26.1	29.9	31.3	30.8	26.4	36.8
	August	20.2	25.8	30.3	31.5	31.1	25.2	35.6
	September	16.9	20.7	24.6	25.8	25.2	19.5	35.0
	October	13.6	16.2	20.9	22.4	20.7	15.2	34.9
	November	10.1	11.1	14.1	15.2	13.2	10.8	35.4
	December	5.8	6.5	10.6	12.3	9.7	7.0	38.4

4.4. Minimum Temperature

4.4.1. Minimum Temperature per Month

Minimum temperatures in ° C 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 December the minimum temperature reported between 06 and 09 UTC was -9 degrees Celsius.

	Minimum Temperature (° C) 10 Years								
Time (Month)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**18 - 21**	**Day**	**NA**
	January	-9	-9	-4	-1	-4	-7	-9	44.4
	February	-7	-7	-2	0	-1	-3	-7	47.9
	March	-4	-4	0	0	0	0	-4	35.6
	April	-2	-1	4	5	2	1	-2	37.4
	May	2	6	6	7	7	5	2	35.8
	June	7	10	10	10	10	9	7	34.9
	July	8	10	12	14	12	10	8	36.8
	August	6	8	13	13	13	13	6	35.6
	September	2	1	8	11	10	7	1	35.0
	October	-3	-2	4	5	2	0	-3	34.9
	November	-6	-6	0	0	-2	-4	-6	35.4
	December	-7	-9	-4	-4	-5	-7	-9	38.4
	Year	-9	-9	-4	-4	-5	-7	-9	37.6

4.4.2. Minimum Temperature in 10 Years

On the 16th of December 2001 at 0620 UTC a temperature of -9° C was reported.

4.5. Average Minimum Temperature

Average minimum temperatures in ° C 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 03 and 06 UTC was -6.1 degrees Celsius.

	Average Minimum Temperature (° C) 10 Years							
Time (Months)	**Time Period (UTC)**	**03 - 06**	**06 - 09**	**09 - 12**	**12 - 15**	**15 - 18**	**18 - 21**	**NA**
	January	-6.1	-6.1	-1.4	1.5	-1.1	-3.1	44.4
	February	-3.2	-3.6	0.3	2.8	1.2	-0.3	47.9
	March	-1.3	-1.0	4.0	5.8	4.6	2.4	35.6
	April	1.1	2.7	7.8	8.0	7.3	6.2	37.4
	May	7.2	9.6	11.8	12.3	11.8	10.7	35.8
	June	9.6	12.3	15.3	15.6	15.1	13.7	34.9
	July	11.6	13.9	18.2	18.8	18.2	16.0	36.8
	August	12.6	13.8	18.1	19.1	17.9	16.3	35.6
	September	6.6	7.4	13.0	14.2	12.8	10.9	35.0
	October	2.9	3.4	9.0	10.4	8.0	6.2	34.9
	November	-1.3	-1.8	3.5	5.4	2.5	1.1	35.4
	December	-4.7	-5.1	-0.9	1.5	-1.0	-2.5	38.4

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 09 and 12 UTC was 1020.1 hPa.

	Average QNH 10 Years								
Time (Month)	Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	18 - 21	Day	NA
	January	1019.3	1020.0	1020.1	1018.8	1019.1	1019.9	1019.5	44.5
	February	1017.4	1017.8	1017.7	1016.2	1016.1	1017.4	1017.0	48.0
	March	1016.0	1016.6	1016.2	1014.7	1014.4	1015.7	1015.6	35.7
	April	1012.1	1012.3	1011.9	1010.7	1010.5	1011.6	1011.5	36.6
	May	1014.3	1014.5	1014.1	1013.2	1012.8	1013.6	1013.7	35.1
	June	1015.9	1015.9	1015.5	1014.5	1014.0	1014.7	1015.1	34.9
	July	1014.8	1015.0	1014.5	1013.6	1013.1	1013.6	1014.1	37.1
	August	1015.3	1015.7	1015.2	1014.2	1013.6	1014.4	1014.7	35.3
	September	1014.4	1014.8	1014.4	1013.5	1013.1	1014.1	1014.0	35.2
	October	1016.9	1017.8	1017.5	1016.3	1016.4	1017.7	1017.1	35.1
	November	1015.2	1016.0	1015.8	1014.7	1015.0	1015.6	1015.4	35.7
	December	1016.6	1016.8	1017.0	1015.7	1016.1	1017.0	1016.5	38.8
	Year	1015.4	1016.0	1015.7	1014.6	1014.5	1015.6	1015.3	37.6

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 980 hPa.

	Minimum QNH 10 Years								
Time (Month)	Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	18 - 21	Day	NA
	January	998	998	998	998	999	1000	995	44.5
	February	995	993	992	990	990	992	990	48.0
	March	991	992	994	992	990	990	990	35.7
	April	993	994	995	994	994	994	993	36.6
	May	989	990	990	988	989	991	988	35.1
	June	999	999	999	1000	1000	999	999	34.9
	July	997	997	997	998	999	999	997	37.1
	August	999	998	998	1000	1000	1003	998	35.3
	September	993	993	992	991	991	994	991	35.2
	October	996	994	992	990	990	992	990	35.1
	November	990	991	992	991	989	990	989	35.7
	December	980	980	982	987	988	987	980	38.8
	Year	980	980	982	987	988	987	980	37.6

5.2.2. Minimum QNH in 10 Years

On the 28th of December 1999 at 0450 UTC a minimum pressure of 980 hPa was reported. This extreme value was caused by the gale Martin.

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**	**18 - 21**	**Day**	**NA**
	January	1037	1039	1039	1038	1038	1038	1039	44.5
	February	1039	1040	1039	1038	1038	1038	1040	48.0
	March	1032	1035	1035	1033	1032	1035	1035	35.7
	April	1031	1031	1031	1030	1027	1028	1031	36.6
	May	1027	1028	1027	1027	1026	1027	1028	35.1
	June	1030	1030	1029	1027	1026	1026	1030	34.9
	July	1025	1026	1025	1024	1023	1023	1026	37.1
	August	1025	1025	1025	1023	1023	1023	1025	35.3
	September	1027	1028	1027	1026	1026	1027	1028	35.2
	October	1032	1033	1033	1031	1030	1032	1033	35.1
	November	1034	1036	1036	1034	1034	1035	1036	35.7
	December	1036	1037	1037	1035	1035	1037	1037	38.8
	Year	1039	1040	1039	1038	1038	1038	1040	37.6

5.3.2. Maximum QNH in 10 Years

On the 1st of February 1993 at 0750 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 no 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	0	0	42.4
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	31.9
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	37.6

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

Example (dark shading): 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	42.4
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	31.9
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	37.6

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 January between 18 and 21 UTC 3.8% 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	2.8	2.9	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	0.6	42.4
06 - 09	2.6	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.3	0.8	7.7
09 - 12	2.8	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.7	7.0
12 - 15	2.6	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.1	0.5	7.6
15 - 18	2.7	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	2.2	0.6	7.6
18 - 21	3.8	2.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.0	0.9	31.9
Day	2.9	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.7	0.7	37.6

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 August between 15 and 18 UTC 2 observations 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	42.4
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7
09 - 12	0	0	0	0	1	0	0	0	0	0	0	0	1	7.0
12 - 15	0	0	0	0	1	0	0	0	1	0	0	0	2	7.6
15 - 18	0	0	0	0	0	1	1	2	0	0	0	0	4	7.6
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	31.9
Day	0	0	0	0	2	1	1	2	1	0	0	0	7	37.6

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.

Example (dark shading): 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	42.4
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	7.6
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	31.9
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	37.6

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 August between 18 and 21 UTC 7.2% 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	0.3	1.0	2.2	1.7	2.8	1.7	0.2	0.0	0.0	1.0	42.4
06 - 09	0.0	0.0	0.0	0.1	1.0	1.2	1.4	1.3	1.9	0.4	0.0	0.0	0.6	7.7
09 - 12	0.0	0.0	0.0	0.1	1.4	1.3	2.0	0.6	1.4	0.1	0.0	0.0	0.6	7.0
12 - 15	0.0	0.0	0.3	1.3	2.8	2.6	2.6	2.7	2.0	1.2	0.1	0.0	1.3	7.6
15 - 18	0.1	0.0	0.1	1.8	3.7	3.7	3.3	3.4	2.9	1.6	0.4	0.0	1.8	7.6
18 - 21	0.0	0.0	0.1	1.5	2.0	4.2	4.1	7.2	4.2	0.8	0.5	0.0	1.9	31.9
Day	0.0	0.0	0.1	0.8	2.0	2.4	2.5	2.7	2.3	0.7	0.2	0.0	1.2	37.6

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 January between 06 and 09 UTC 7.6% 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	5.3	2.8	2.0	2.2	3.6	1.3	0.2	1.0	2.4	7.6	4.4	4.8	2.9	42.4
06 - 09	7.6	2.3	3.0	0.8	1.1	0.0	0.1	0.2	0.6	5.4	4.9	5.7	2.6	7.7
09 - 12	4.2	0.8	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.9	3.3	0.8	7.0
12 - 15	2.4	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.3	7.6
15 - 18	3.6	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	0.4	7.6
18 - 21	3.4	0.1	0.7	0.1	0.2	0.0	0.0	0.0	0.1	0.7	0.3	1.7	0.7	31.9
Day	4.4	0.8	1.2	0.5	0.8	0.2	0.0	0.2	0.4	2.1	1.5	2.7	1.2	37.6

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 October between 03 and 06 UTC 2.5% 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	0.9	0.0	0.5	1.2	0.6	0.5	0.5	0.4	1.1	2.5	1.0	0.8	0.8	42.4
06 - 09	0.9	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	2.1	0.7	0.7	0.4	7.7
09 - 12	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	7.0
12 - 15	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
15 - 18	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	7.6
18 - 21	0.5	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.6	0.9	0.2	31.9
Day	0.5	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.7	0.3	0.4	0.2	37.6

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 no 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	42.4
06 - 09	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	7.7
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	7.1
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	7.6
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	7.6
18 - 21	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	32.0
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	37.6

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 April between 18 and 21 UTC 22.7% 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	9.9	7.6	6.8	13.4	15.5	10.1	4.5	7.1	12.9	13.0	16.9	9.3	10.6	42.4
06 - 09	8.9	6.2	6.5	14.4	15.4	9.2	4.8	6.8	13.8	15.3	17.1	7.2	10.6	7.7
09 - 12	10.5	6.0	4.9	14.2	13.9	5.9	3.6	4.5	11.7	14.3	18.1	8.0	9.7	7.0
12 - 15	9.1	5.8	5.1	15.7	13.5	8.2	5.7	5.4	11.0	13.1	15.4	7.5	9.7	7.6
15 - 18	9.0	6.8	6.5	17.5	16.0	8.8	6.2	6.1	10.5	15.4	16.5	9.1	10.8	7.6
18 - 21	11.0	8.8	7.8	22.7	16.6	8.9	6.3	9.1	13.4	15.2	18.0	9.5	12.2	31.9
Day	9.7	6.9	6.2	16.0	15.1	8.4	5.1	6.3	12.1	14.4	17.1	8.3	10.5	37.6

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 October between 03 and 06 UTC 3.3% 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	2.7	1.4	0.9	1.5	0.9	0.1	0.0	0.0	1.0	3.3	2.7	1.6	1.2	42.4
06 - 09	1.5	0.9	0.9	0.5	0.6	0.0	0.0	0.0	0.9	1.4	2.0	1.4	0.8	7.7
09 - 12	1.6	0.5	0.4	0.1	0.2	0.2	0.1	0.0	0.3	0.4	0.3	0.7	0.4	7.0
12 - 15	1.7	0.9	0.4	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.7	1.0	0.4	7.6
15 - 18	1.2	0.5	0.6	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.8	1.5	0.4	7.6
18 - 21	1.5	0.5	0.1	0.7	0.2	0.2	0.0	0.0	0.5	0.2	1.4	1.7	0.6	31.9
Day	1.6	0.7	0.5	0.5	0.3	0.1	0.0	0.1	0.4	0.8	1.2	1.3	0.6	37.6

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

Arbeitsbericht

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