

Arbeitsbericht



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206 Aeronautical Climatological
Information St.Gallen LSZR

Arbeitsbericht



Nummer: 206

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Aeronautical Climatological Information St.Gallen-Altenrhein LSZR

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Table of Contents

Introduction	4
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A Climatology

1. GEOGRAPHICAL SETTING

1.1. Overview Switzerland.....	5
1.2. Overview Region St.Gallen-Altenrhein	5

2. METEOROLOGICAL PATTERNS

2.1. Westerly Flow	
2.1.1. Synoptic Overview and Associated Weather	6
2.1.2. Season of Encounter.....	6
2.1.3. Local Weather Phenomena.....	6
2.1.4. Aviation Hazards.....	6
2.2. Northerly Flow	
2.2.1. Synoptic Overview and Associated Weather	7
2.2.2. Season of Encounter.....	7
2.2.3. Local Weather Phenomena.....	7
2.2.4. Aviation Hazards.....	7
2.3. Easterly Flow	
2.3.1. Synoptic Overview and Associated Weather	8
2.3.2. Season of Encounter.....	8
2.3.3. Local Weather Phenomena.....	8
2.3.4. Aviation Hazards.....	8
2.4. Southerly Flow	
2.4.1. Synoptic Overview and Associated Weather	9
2.4.2. Season of Encounter.....	9
2.4.3. Local Weather Phenomena.....	9
2.4.4. Aviation Hazards.....	9
2.5. Flat Pressure Pattern	
2.5.1. Synoptic Overview and Associated Weather	10
2.5.2. Season of Encounter.....	10
2.5.3. Local Weather Phenomena.....	10
2.5.4. Aviation Hazards.....	10
2.6. High Pressure Pattern	
2.6.1. Synoptic Overview and Associated Weather	11
2.6.2. Season of Encounter.....	11
2.6.3. Local Weather Phenomena.....	11
2.6.4. Aviation Hazards.....	11

B Tables and Graphics

1. WIND

1.1. Wind Polygon	
1.1.1. Wind Polygon 10 Years.....	12
1.1.2. Wind Polygon per Season.....	13
1.1.3. Wind Polygon per Month.....	14
1.1.4. Wind Polygon per Hour.....	17

1.2. Wind Speed and Direction	
1.2.1. Wind Speed and Direction 10 Years	21
1.2.2. Wind Speed and Direction per Season	22
1.2.3. Wind Speed and Direction per Month	23
1.2.4. Wind Speed and Direction per Hour	26
1.3. Cumulative Wind Speed and Direction	
1.3.1. Cumulative Wind Speed and Direction 10 Years	30
1.3.2. Cumulative Wind Speed and Direction per Season	31
1.3.3. Cumulative Wind Speed and Direction per Month	32
1.4. Wind RWY 10 (28)	
1.4.1. Wind RWY 10 (28) 10 Years	35
1.4.2. Wind RWY 10 (28) per Season	35
1.4.3. Wind RWY 10 (28) per Month	36
2. WIND GUSTS	
2.1. Wind Gusts	
2.1.1. Wind Gusts 10 Years	38
2.1.2. Maximum Wind Gust in 10 Years	38
2.1.3. Wind Gusts per Season	39
2.1.4. Wind Gusts per Month	41
3. VISIBILITY AND CEILING	
3.1. Visibility	
3.1.1. Hourly Visibility 10 Years	47
3.1.2. Monthly Visibility 10 Years	47
3.1.3. Hourly Visibility per Season	48
3.1.4. Hourly Visibility per Month	50
3.2. Ceiling	
3.2.1. Hourly Ceiling 10 Years	54
3.2.2. Monthly Ceiling 10 Years	54
3.2.3. Hourly Ceiling per Season	55
3.2.4. Hourly Ceiling per Month	57
3.3. Visibility and Ceiling	
3.3.1. Hourly Visibility and Ceiling 10 Years	61
3.3.2. Monthly Visibility and Ceiling 10 Years	61
3.3.3. Hourly Visibility and Ceiling per Season	62
3.3.4. Hourly Visibility and Ceiling per Month	63
4. TEMPERATURE	
4.1. Temperature	
4.1.1. Temperature 10 Years	65
4.1.2. Temperature per Month	66
4.2. Maximum Temperature	
4.2.1. Maximum Temperature per Month	70
4.2.2. Maximum Temperature in 10 Years	70
4.3. Average Maximum Temperature	70
4.4. Minimum Temperature	
4.4.1. Minimum Temperature per Month	71
4.4.2. Minimum Temperature in 10 Years	71
4.5. Average Minimum Temperature	71
5. PRESSURE	
5.1. Average Pressure (QNH)	72

5.2. Minimum Pressure (QNH)	
5.2.1. Minimum QNH per Month	72
5.2.2. Minimum QNH in 10 Years	72
5.3. Maximum Pressure (QNH)	
5.3.1. Maximum QNH per Month	73
5.3.2. Maximum QNH in 10 Years	73
6. WEATHER PHENOMENA	
6.1. Freezing Rain	74
6.2. Freezing Drizzle	74
6.3. Snowfall	74
6.4. Hail	75
6.5. Snow Pellets	75
6.6. Thunderstorm	75
6.7. Fog (Without Shallow and Vicinity Fog)	76
6.8. Shallow and Vicinity Fog	76
6.9. Freezing Fog	76
6.10. Rain	77
6.11. Drizzle	77
Abbreviations	78

Introduction

This report „Aeronautical Climatological Information St.Gallen-Altenrhein LSZR“ may only be used by:

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

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

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

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

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

January 1993 and December 2002.

The METAR from 19 to 04 UTC are usually missing due to the regular night break of the observer. This report contains only information about the period from 04 to 19 UTC. Each table or graphic contains the NA (not available) values of missing METAR. Therefore, the amount of NA values between 19 and 04 UTC is quite considerable. That concerns also the amount of NA during the noon break from 10 to 11 UTC (summer) and 11 to 12 UTC (winter). Therefore, the statistics are influenced by the reporting practises at St.Gallen-Altenrhein.

All time information is given in UTC.

An index with the used abbreviations can be found on page 78.

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:

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A Climatology

1. GEOGRAPHICAL SETTING

1.1. Overview Switzerland

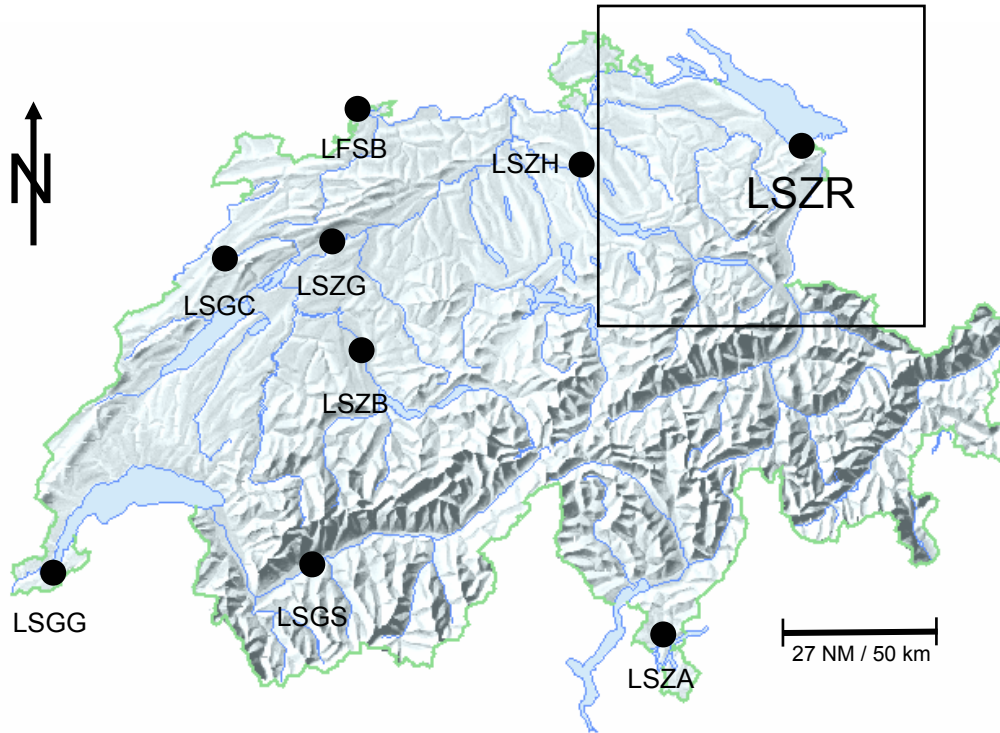
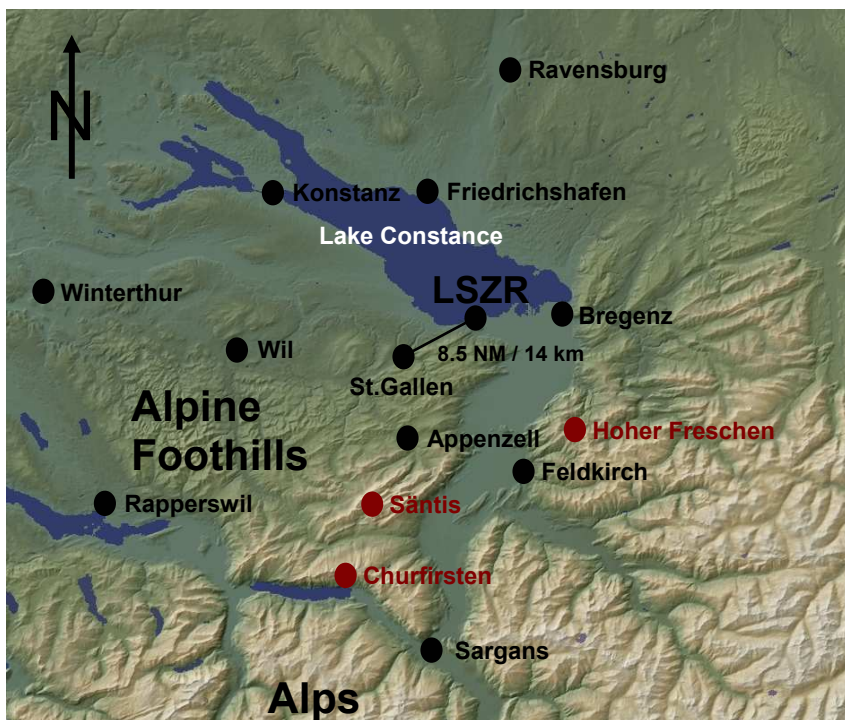


Figure 1: Most important airports of Switzerland

1.2. Overview Region St.Gallen

St.Gallen-Altenrhein aerodrome (official elevation 1306 ft / 398 m) is located 8.5 NM / 14 km north-east of St.Gallen City (see also figures 1 and 2).

It is situated in the eastern end of the Swiss Plateau, a large basin with low hills between the Alps and the Jura. The wind gets canalised in two preferred directions: East and west. In direction north-east to west of the airport the alpine foothills and behind them the Alps rise. The aerodrome is situated on the delta of the river Old Rhine at Lake Constance.



Important Mountains in the Region:

Sântis, Alpstein massif	8212 ft / 2503 m
Churfirsten	7566 ft / 2306 m
Hoher Freschen	6575 ft / 2004 m

Figure 2: 3 D map of the St.Gallen region © Atlas of Switzerland – Version 2

2. METEOROLOGICAL PATTERNS

2.1. Westerly Flow

2.1.1. Synoptic Overview and Associated Weather

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

2.1.2. Season of Encounter

This pattern may appear at any time of the year, but is more frequent during the winter season than in summer. The reason for this is the more frequent development of heavy depressions in the colder seasons due to an increase of the temperature difference between warm and cold air masses at the Polar Front.

The weather is usually unsettled and windy (even sometimes with gales from October to March), due to the succession of warm and cold fronts with dry intervals in between. In March and April westerly flow brings characteristically unstable weather. In eastern Switzerland westerly winds are more frequent than in western Switzerland because of the flow split of the northerly wind (Alps act as barrier).

2.1.3. Local Weather Phenomena

Front Passes over Cold Air Pool of the Swiss Plateau

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

Freezing Rain

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

In St. Gallen-Altenrhein freezing rain was not reported in the ten years under consideration, but cannot be excluded generally.

Snow

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

In St. Gallen-Altenrhein snowfall occurs usually from November to April with two maxima in December and February.

Thunderstorm

In summer the near alpine foothills may reinforce the thunderstorm activity along a cold front coming in from the west. While the thunderstorms are especially active near the Alpstein massif, they could also affect the area of the aerodrome.

2.1.4. Aviation Hazards

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

2.2. Northerly Flow

2.2.1. Synoptic Overview and Associated Weather

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

2.2.2. Season of Encounter

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

2.2.3. Local Weather Phenomena

Barrier Clouds and Precipitation

Due to the barrier effect of the Alps the northerly flow gets blocked over the Swiss Plateau, the pressure increases and the air mass rises over the Alps. A closed cloud layer occurs above the Swiss Plateau and the region of Lake Constance with the lowest ceiling close to the near alpine foothills. This is accompanied by precipitation along the northern mountain range and in eastern Switzerland. Visibility is poor in the region of the aerodrome St. Gallen-Altenrhein especially south towards the Appenzellerland and Alpstein massif due to the stationary clouds and precipitation. With low temperatures the precipitation falls as snow – often in large amounts and for several hours.

Northerly Foehn

The Foehn wind in southern Switzerland 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.

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.

2.3.3. Local Weather Phenomena

Wind

Because of the flow split the Bise is more frequent in the western part of Switzerland than in the region of the aerodrome St. Gallen-Altenrhein.

During situations with Bise in the other parts of northern Switzerland the wind at the aerodrome may first show a north-westerly component. With increasing pressure north of Switzerland the wind direction then veers to northeast and east.

Easterly and south-easterly wind direction is often associated to the drainage flow out of the Rhine valley and to Foehn events (see also chapter 2.4).

Elevated Fog

In late autumn and winter the typical situation with elevated fog or stratus up to 2000 m / msl occurs in the cold air pool of the Swiss Plateau. The elevated fog situation can last for several days and mainly occurs in autumn and winter with the highest probability in December and January. Above the fog or stratus layer the atmosphere is clear due to anticyclonic influence.

In spring and summer the easterly flow usually is associated with fair weather due to the dry and frequently warm continental air mass.

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

2.4. Southerly Flow

2.4.1. Synoptic Overview and Associated Weather

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

2.4.2. Season of Encounter

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

2.4.3. Local Weather Phenomena

Southerly Foehn

With southerly flow the alpine ridge acts like a barrier. This results in clouds and precipitation on the windward side and a so called Foehn wall forms in the region of the main alpine mountain crest. The near Rhine valley is strongly influenced by Foehn. Weather is then mostly warm, windy and dry with high visibility.

When the pressure gradient is big enough, the warm and dry Foehn influences also the region close to the aerodrome St. Gallen-Altenrhein with a south-eastern wind direction. In case of strong Foehn events the wind direction shows a clear southern component associated with moderate to heavy turbulence along with cross winds.

In the cold season the build-up of a mesoscale low south of the aerodrome towards the Alps together with a cold air pool in the basin of Lake Constance may lead to changing visibility conditions associated with changing temperature and wind conditions at the aerodrome St. Gallen-Altenrhein – depending on which air mass is experienced at the aerodrome (cold and moist air from the north or warm and dry from the south).

Approaching fronts from the west usually are slowed down and the sky keeps relatively clear.

Turbulence

North of the Alps turbulence and lee waves occur and can also reach the region of the aerodrome. Attention must be paid to severe turbulence and down draft.

High Temperatures

The warm and dry Foehn wind increases the temperatures north of the Alps. This might affect the performance of the engines.

2.4.4. Aviation Hazards

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

2.5. Flat Pressure Pattern

2.5.1. Synoptic Overview and Associated Weather

Flat Pressure Pattern with Thermal Thunderstorms

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

Flat Pressure Pattern with Frontal Thunderstorms

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

2.5.2. Season of Encounter

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

2.5.3. Local Weather Phenomena

Convection

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

Thunderstorm

Thermal thunderstorms occur due to convection at the end of the day while frontal thunderstorms happen at any time of the day. Very heavy thunderstorms are the result of a line of frontal thunderstorms which reach a convecting air mass during the late afternoon in summer. The close Alpstein massif and prealpine foothills of Appenzell lead to an increased thunderstorm activity to the south-west, south and south-east of the aerodrome.

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 St. Gallen-Altenrhein thunderstorms are usually observed from May to August.

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

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

2.6.3. Local Weather Phenomena

Radiation Fog

In the colder seasons during clear and calm nights a radiation deficit occurs over the ground due to the negative long wave radiation budget. Temperature over the ground decreases as a consequence. The visibility in areas with radiation fog can drop from 800 – 1000 m to 100 – 200 m quite rapidly. 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. St. Gallen-Altenrhein aerodrome is situated between the large basin of Lake Constance (fog prone) close to the lake and the entrance to the Rhine valley (less fog prone). Radiation fog is therefore observed in the region of the aerodrome and occurs usually between October and March. There is a chance for no dissipation during the whole day from October to March.

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 and fog patches decrease visibility in autumn and winter
- Radiation fog can occur quite quickly and decrease visibility to 100 – 1000 m

B Tables and Graphics

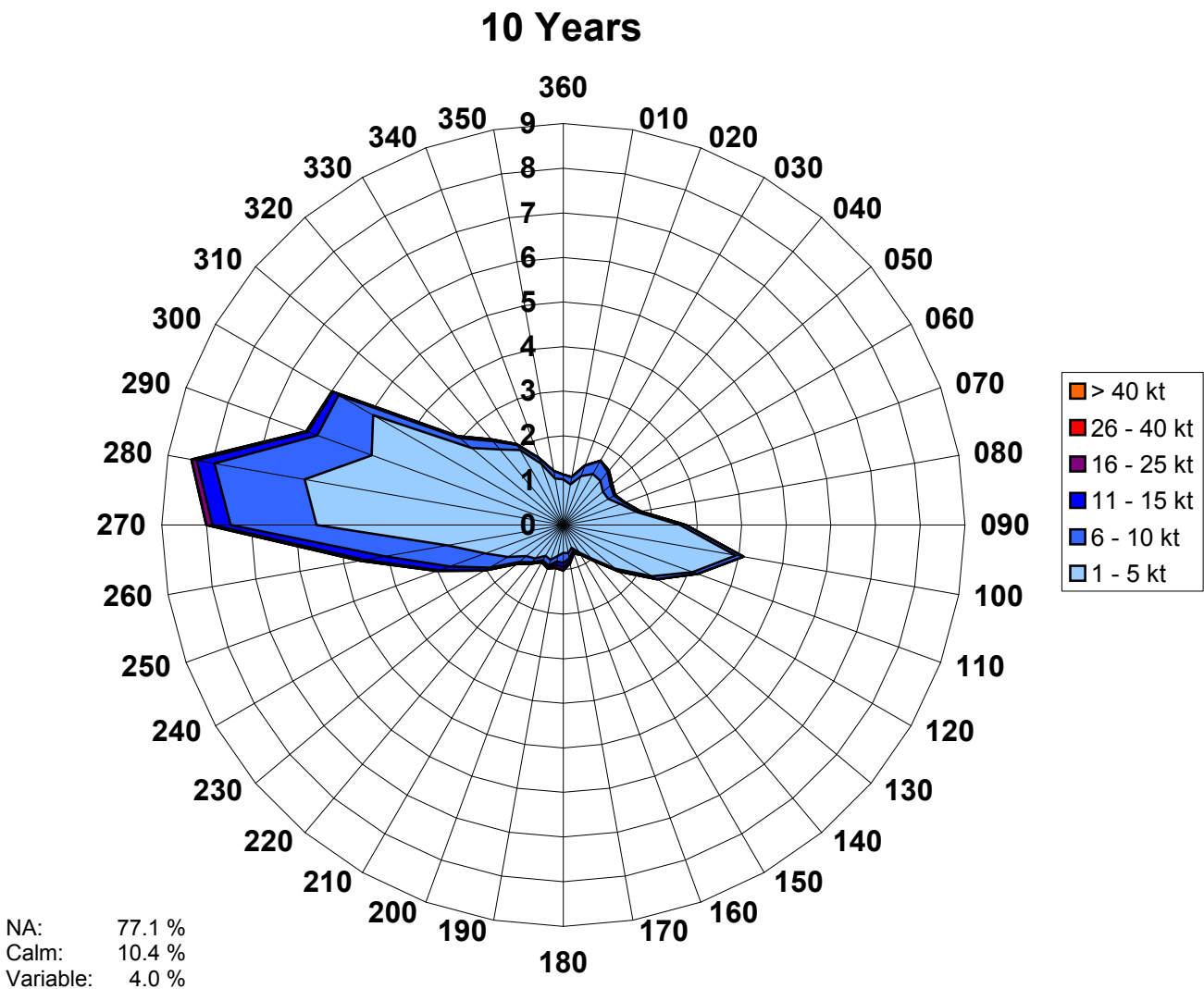
1. WIND

1.1. Wind Polygon

1.1.1. Wind Polygon 10 Years

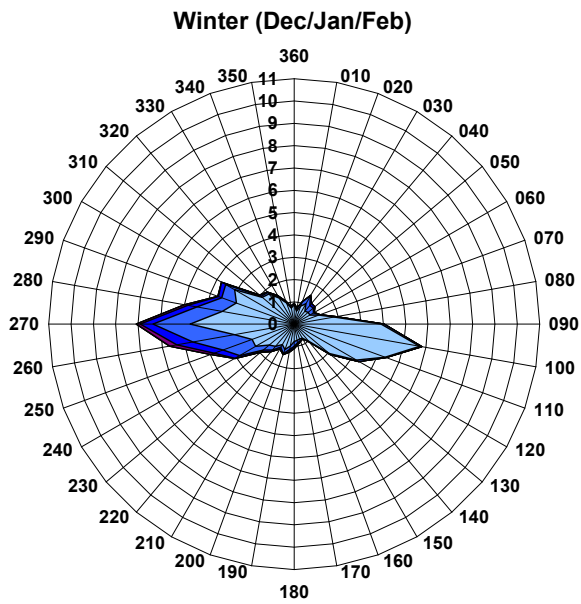
Frequencies in percent of occurrence of concurrent wind direction every 10° and wind speed within specified ranges (legend). Frequencies are calculated relative to all potentially possible minus the not available (NA) observations. The value of NA is calculated relative to the potentially possible observations. 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 8.5% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 280 degrees.

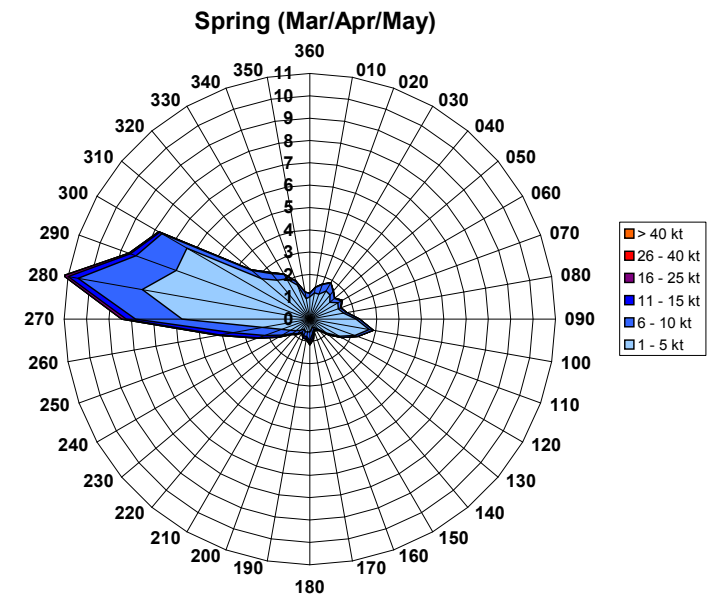


1.1.2. Wind Polygon per Season

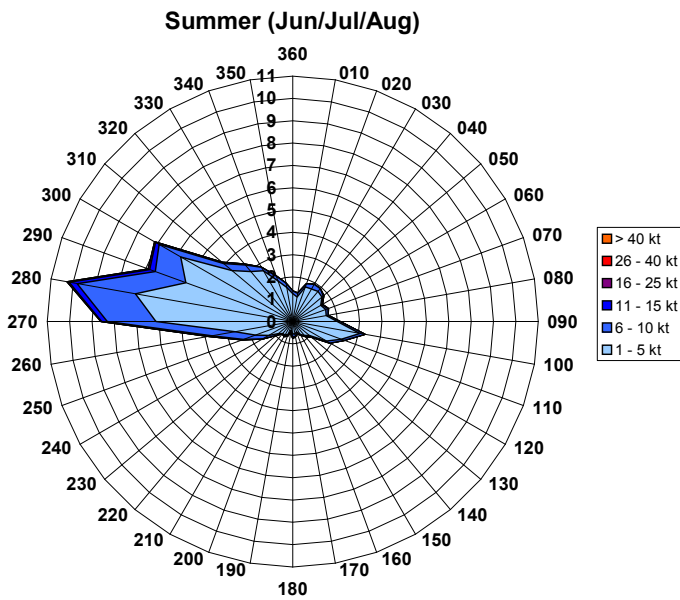
Example: In the 10 years period in winter 7.1% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 270 degrees.



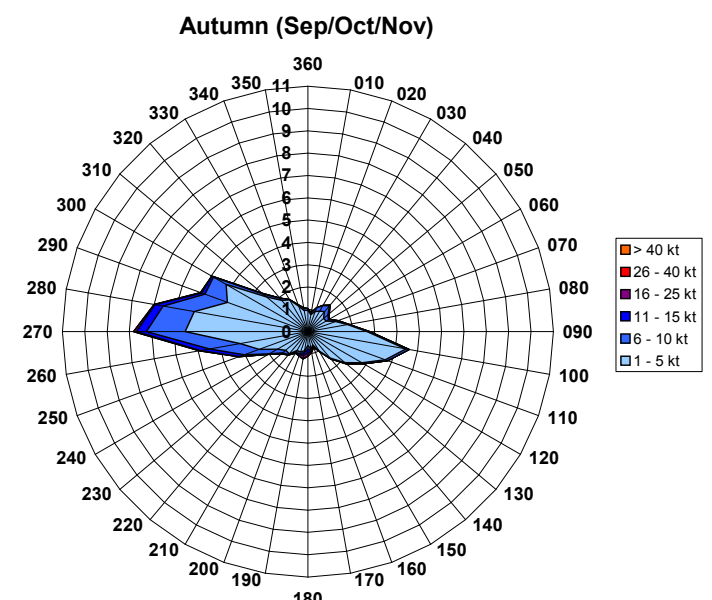
NA: 79.1 %
 Calm: 13.8 %
 Variable: 4.0 %



NA: 76.7 %
 Calm: 7.8 %
 Variable: 3.8 %



NA: 76.5 %
 Calm: 7.9 %
 Variable: 3.9 %

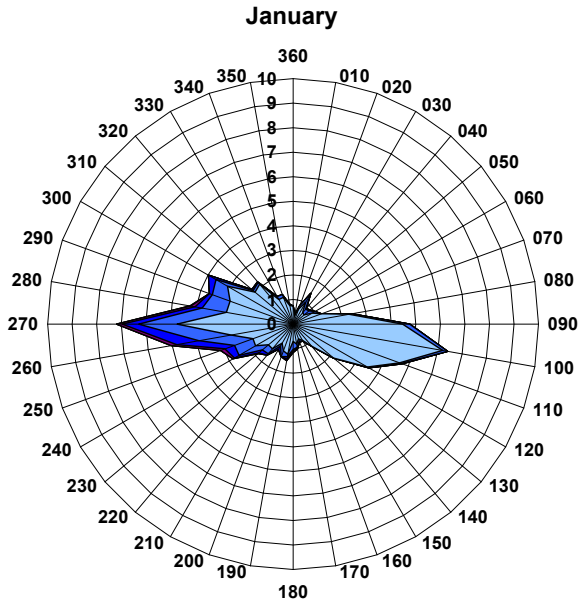


NA: 76.0 %
 Calm: 12.5 %
 Variable: 4.1 %

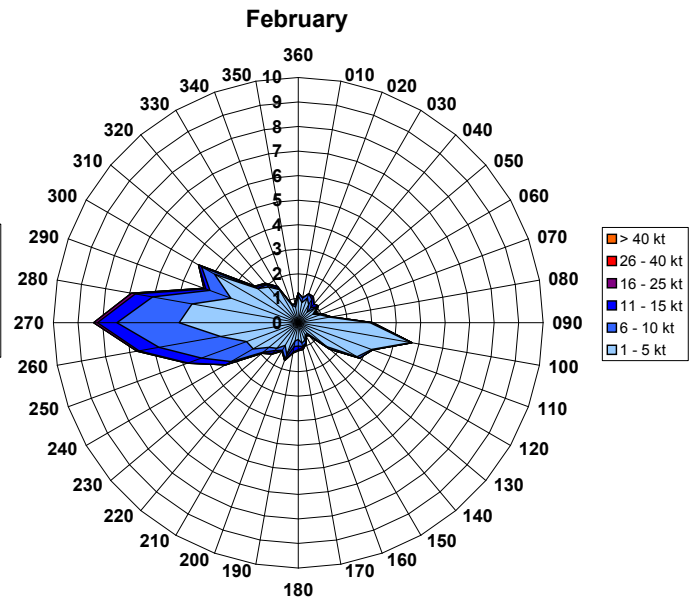
1.1.3. Wind Polygon per Month

Example: In the 10 years period in January 7.2% of all observations showed a wind speed between 1 and 25 knots with a concurrent wind direction of 270 degrees.

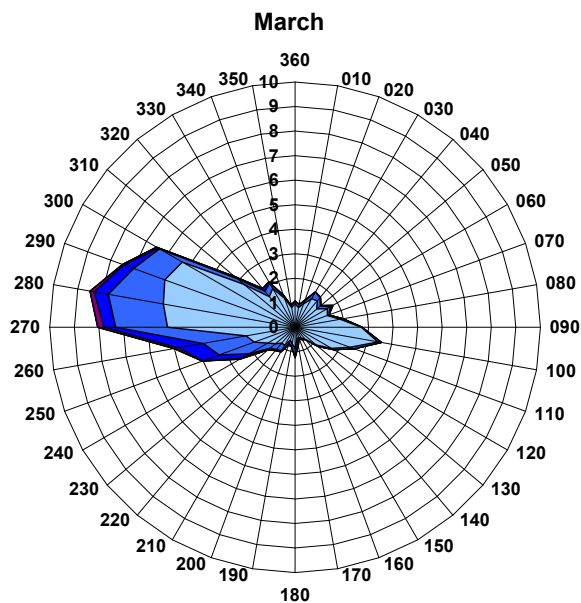
Attention must be paid to the different scales! From July to March the scale is between 0 and 10%, and from April to June it is between 0 and 14%.



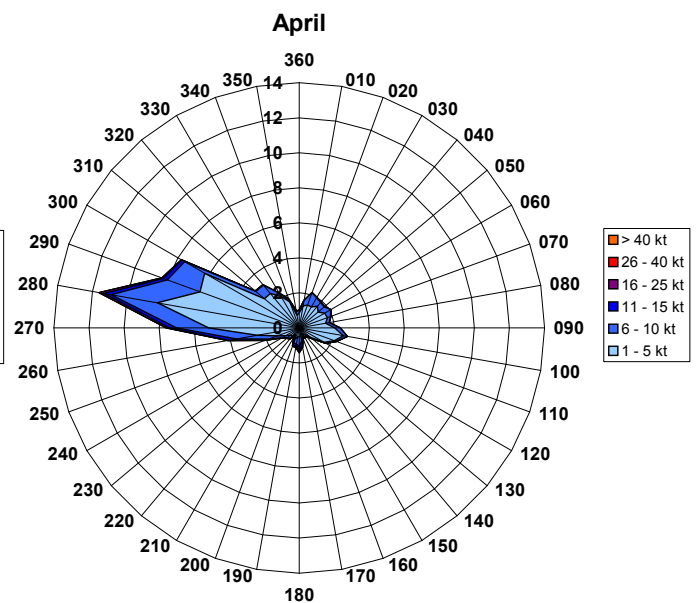
NA: 79.1 %
 Calm: 13.9 %
 Variable: 4.3 %



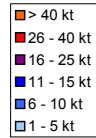
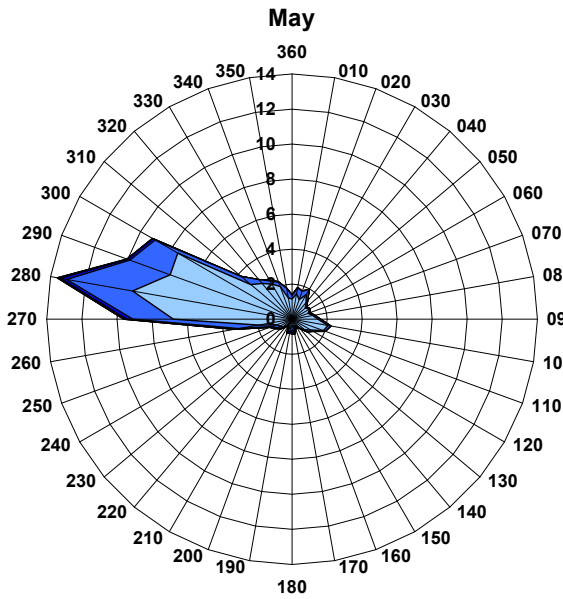
NA: 80.6 %
 Calm: 10.8 %
 Variable: 4.7 %



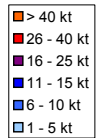
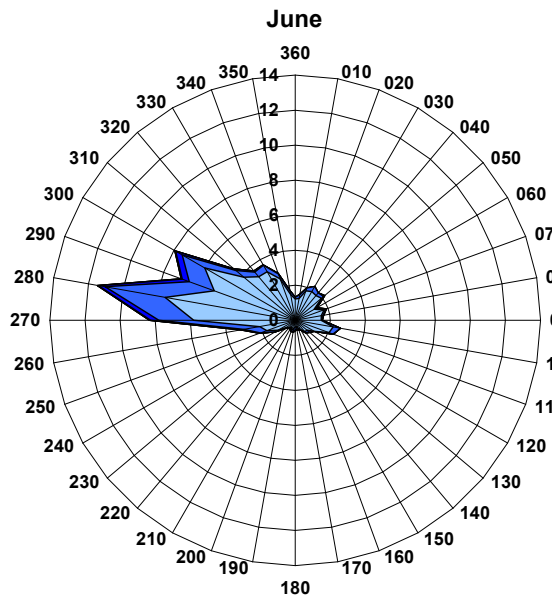
NA: 76.1 %
 Calm: 9.1 %
 Variable: 5.1 %



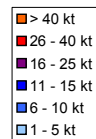
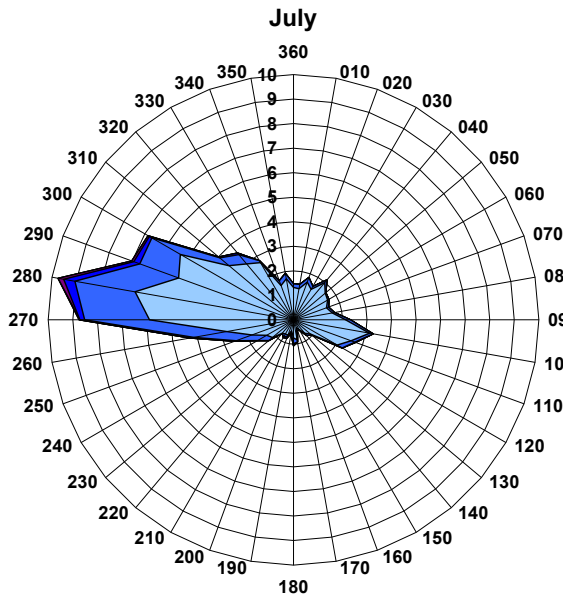
NA: 77.3 %
 Calm: 7.1 %
 Variable: 3.4 %



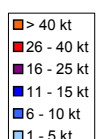
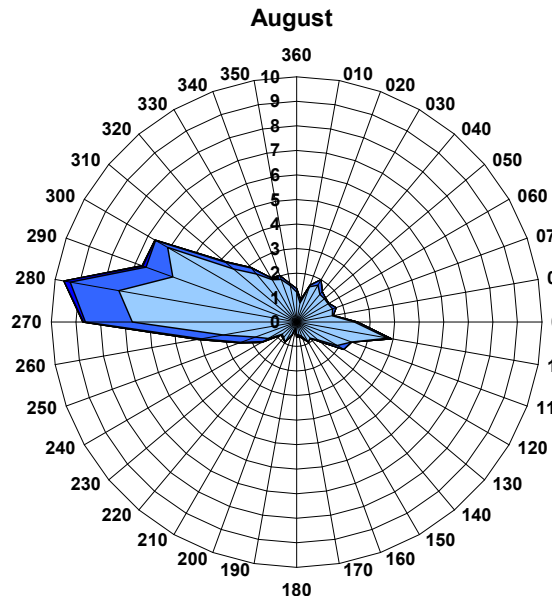
NA: 76.7 %
Calm: 7.1 %
Variable: 2.9 %



NA: 76.6 %
Calm: 7.4 %
Variable: 3.3 %

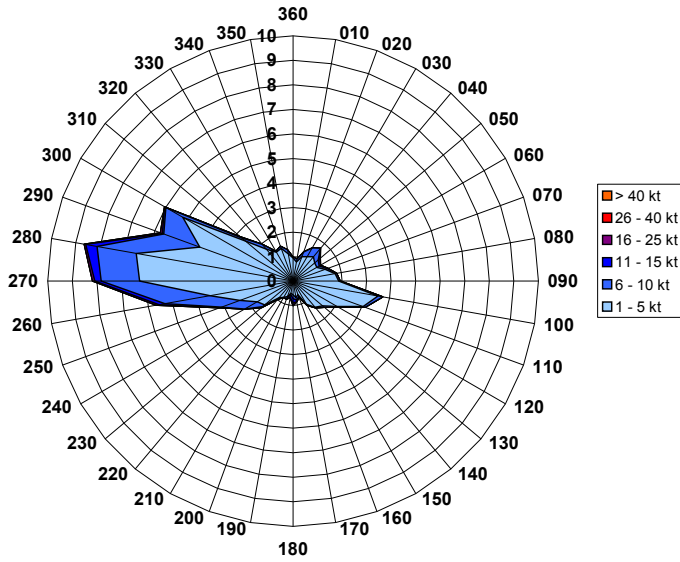


NA: 76.5 %
Calm: 6.8 %
Variable: 3.8 %



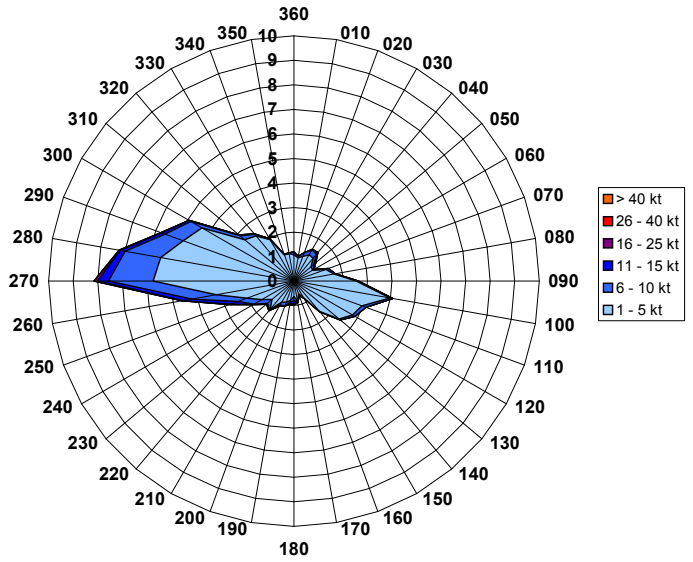
NA: 76.3 %
Calm: 9.5 %
Variable: 4.7 %

September



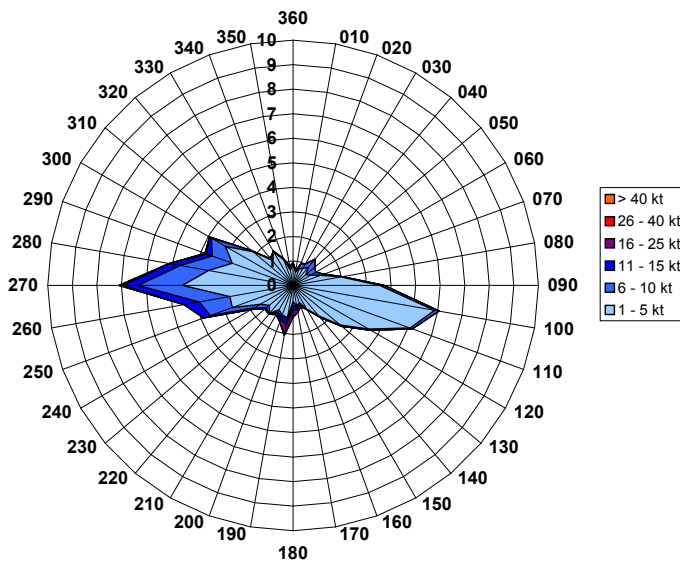
NA: 76.5 %
 Calm: 11.7 %
 Variable: 4.5 %

October



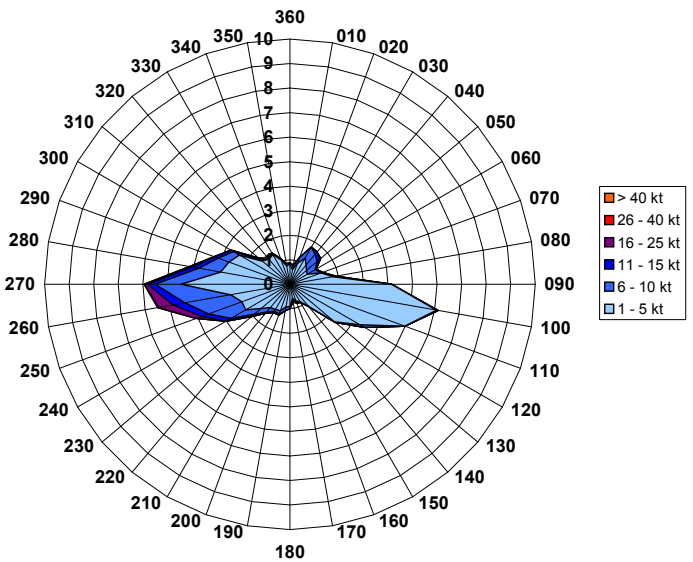
NA: 75.7 %
 Calm: 12.4 %
 Variable: 4.3 %

November



NA: 75.8 %
 Calm: 13.2 %
 Variable: 3.5 %

December

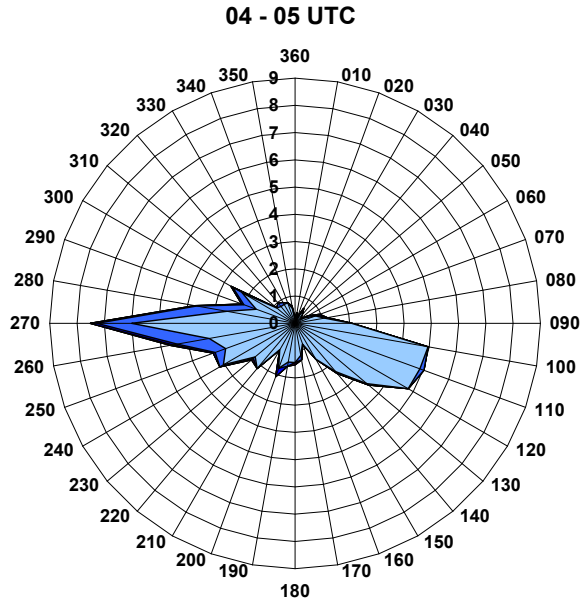


NA: 77.7 %
 Calm: 16.0 %
 Variable: 3.2 %

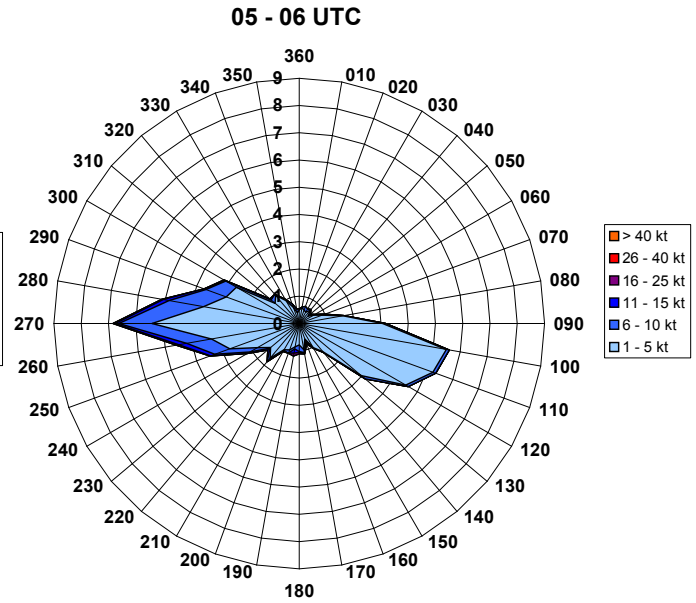
1.1.4. Wind Polygon per Hour

Example: In the 10 years period between 04 and 05 UTC 7.5% of all observations showed a wind speed between 1 and 15 knots with a concurrent wind direction of 270 degrees.

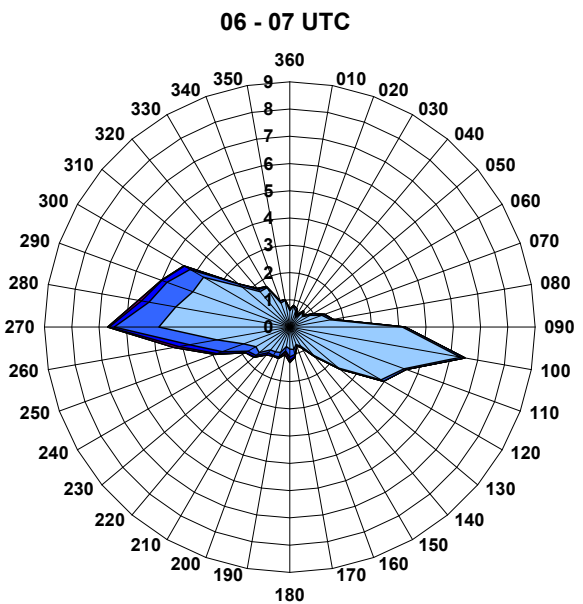
Attention must be paid to the different scales! From 04 to 11 UTC and 16 to 19 UTC the scale is between 0 and 9%, and from 11 to 16 UTC it is between 0 and 14%.



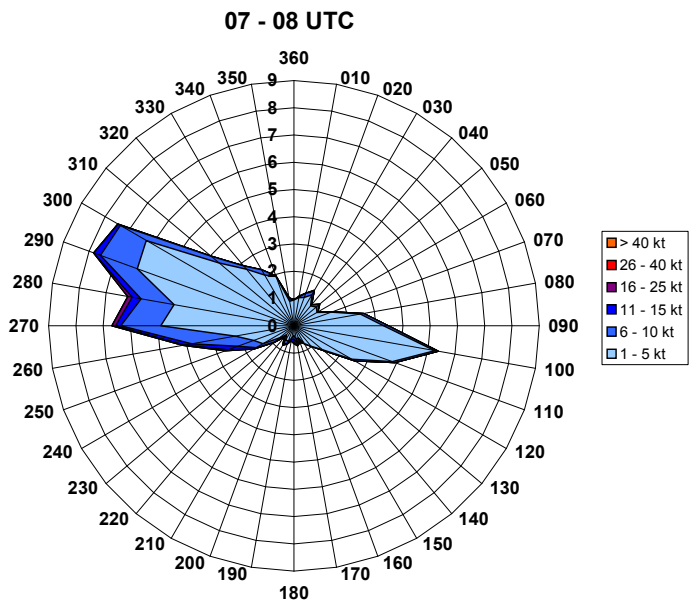
NA: 82.8 %
 Calm: 22.7 %
 Variable: 4.3 %



NA: 48.1 %
 Calm: 20.9 %
 Variable: 3.7 %

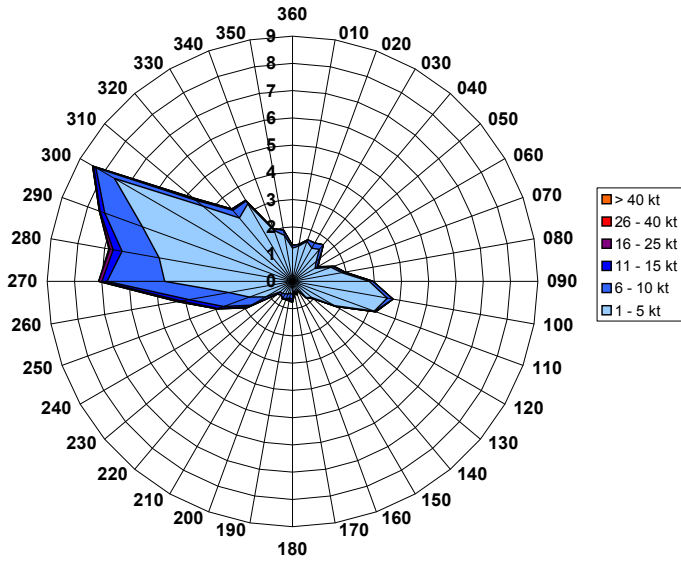


NA: 47.5 %
 Calm: 15.7 %
 Variable: 3.5 %



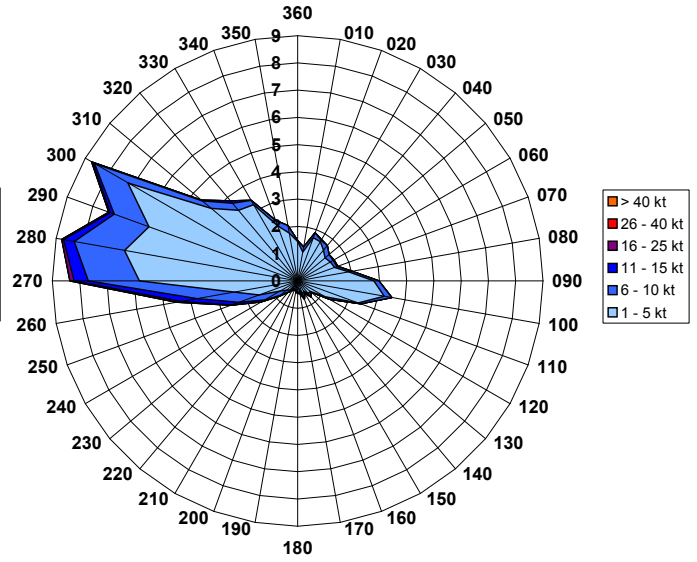
NA: 58.0 %
 Calm: 11.5 %
 Variable: 3.4 %

08 - 09 UTC



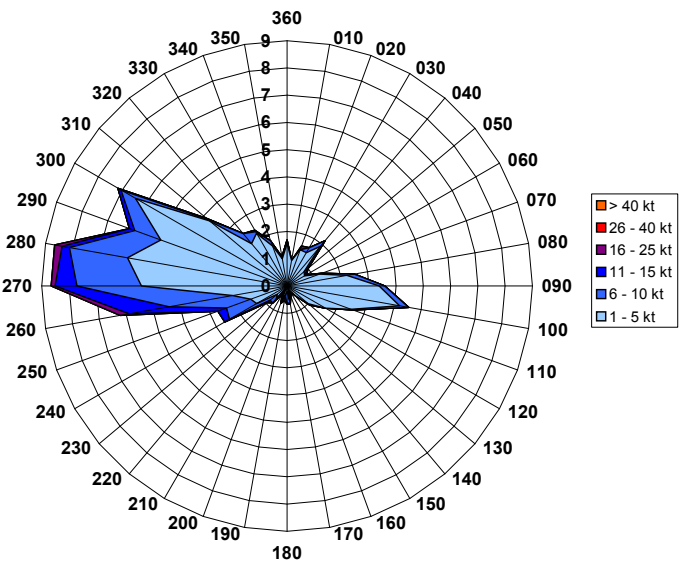
NA: 55.4 %
Calm: 8.7 %
Variable: 3.6 %

09 - 10 UTC



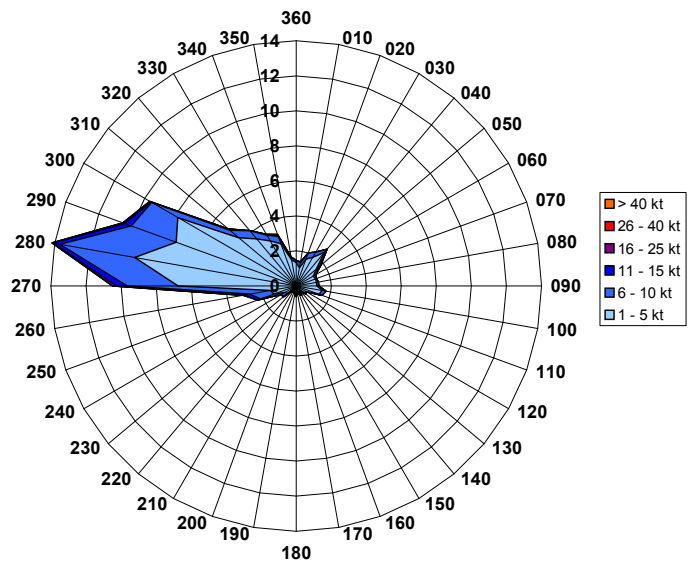
NA: 55.4 %
Calm: 7.1 %
Variable: 3.5 %

10 - 11 UTC



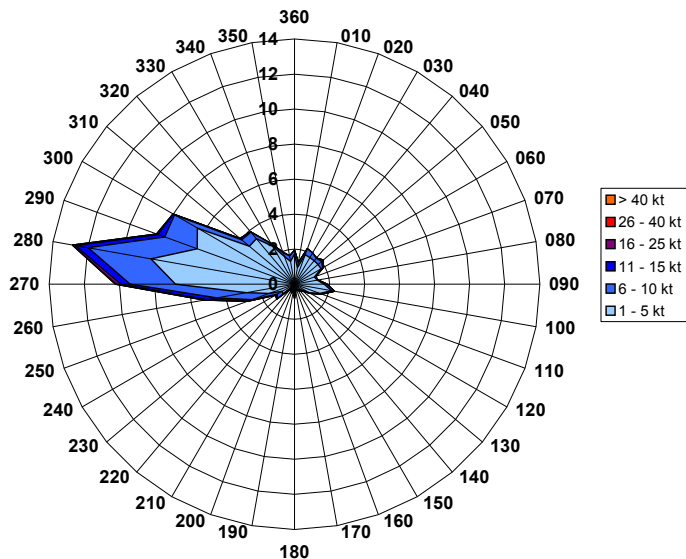
NA: 79.8 %
Calm: 9.4 %
Variable: 4.0 %

11 - 12 UTC



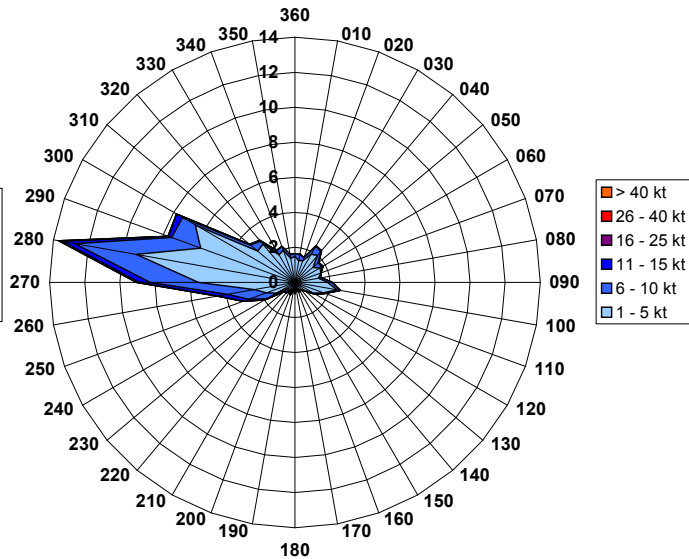
NA: 75.4 %
Calm: 2.6 %
Variable: 2.5 %

12 - 13 UTC



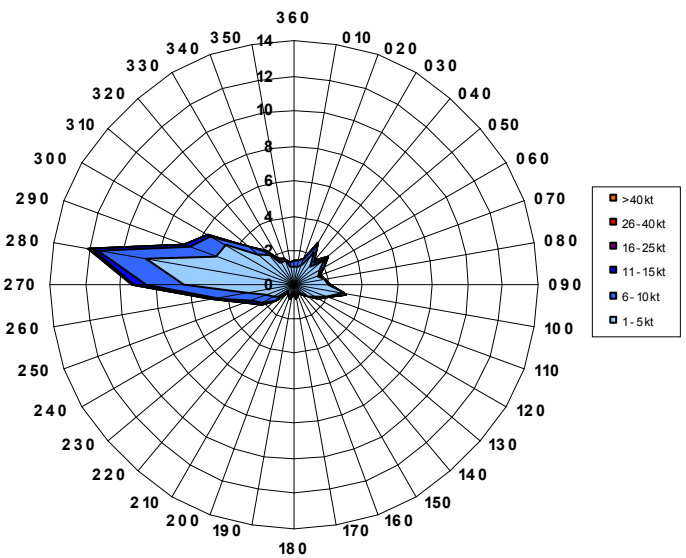
NA: 55.5 %
 Calm: 4.8 %
 Variable: 3.4 %

13 - 14 UTC



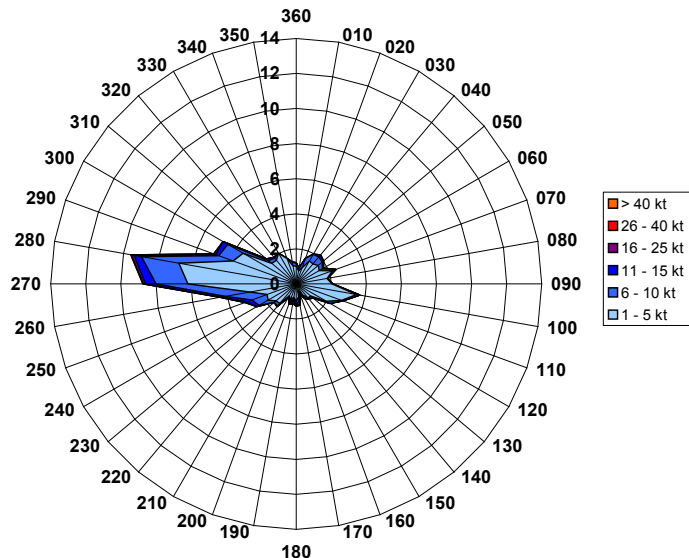
NA: 55.8 %
 Calm: 5.2 %
 Variable: 3.3 %

14 - 15 UTC



NA: 56.5 %
 Calm: 6.7 %
 Variable: 4.6 %

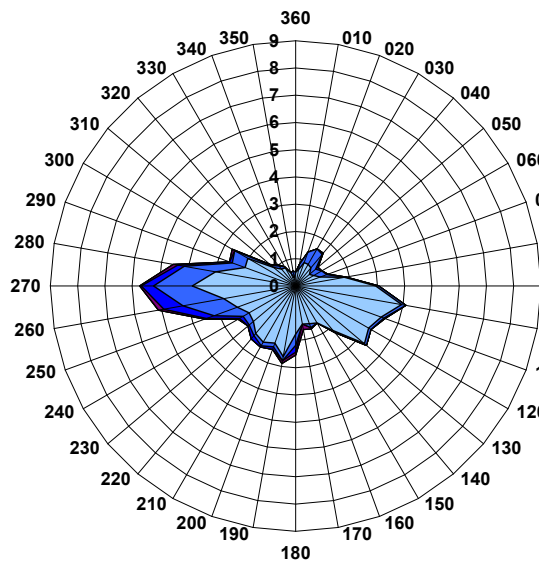
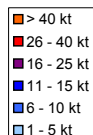
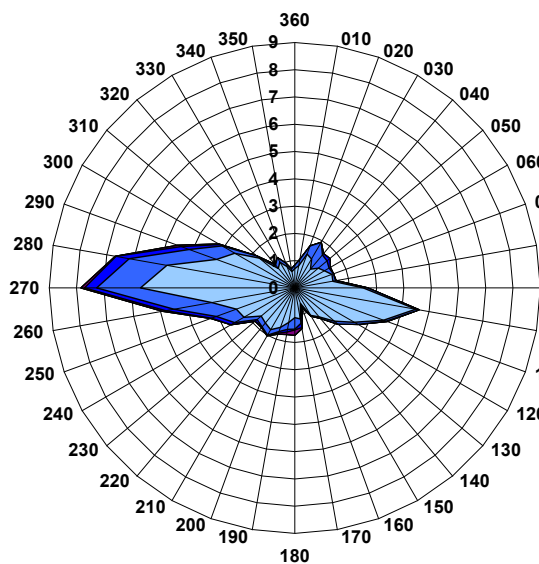
15 - 16 UTC



NA: 55.6 %
 Calm: 8.1 %
 Variable: 5.0 %

16 - 17 UTC

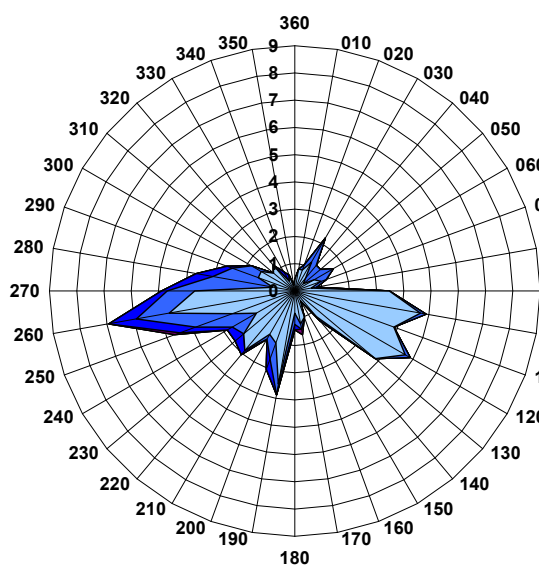
17 - 18 UTC



NA: 57.4 %
 Calm: 10.2 %
 Variable: 5.7 %

NA: 72.9 %
 Calm: 13.4 %
 Variable: 5.3 %

18 - 19 UTC



NA: 93.3 %
 Calm: 12.2 %
 Variable: 4.1 %

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 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) 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	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1
	Variable	0.0	4.0	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	3.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.8	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.7	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	8.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	6.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	2.2	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	2.0	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	4.4	1.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	14.0	5.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	12.2	2.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	5.6	0.5	0.1	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 2.2% 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) Winter (Dec/Jan/Feb)													
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	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.7	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.8	0.5	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	11.4	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	9.6	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	0.2	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	2.5	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.6	0.6	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	5.5	2.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	10.7	4.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	7.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	4.1	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) Spring (Mar/Apr/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	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.0	0.5	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	6.3	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	4.7	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	1.4	0.3	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	1.6	0.8	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.8	0.5	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	3.1	1.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	15.5	6.4	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	15.5	3.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	6.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

		Wind Speed (kt) Summer (Jun/Jul/Aug)													
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	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	5.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.7	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	6.6	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	5.0	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	2.0	0.2	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	1.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.0	0.1	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	3.9	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	15.9	5.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	14.4	3.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	7.5	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

		Wind Speed (kt) Autumn (Sep/Oct/Nov)													
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	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0
	Variable	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.2	0.5	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	8.9	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	8.7	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	3.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.3	0.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.2	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	13.7	4.5	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	10.5	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

1.2.3. Wind Speed and Direction per Month

Example (dark shading): In the 10 years period in January 1.9% of all observations showed a wind speed between 1 and 5 knots with a concurrent wind direction between 350 and 010 degrees.

		Wind Speed (kt) January													
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	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.7	0.4	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	13.0	0.6	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	10.3	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	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.8	0.5	0.2	0.2	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	4.8	1.9	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	10.0	3.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	7.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	4.4	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) February													
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	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.5	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.7	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	8.9	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	7.5	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	0.3	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	2.3	0.6	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.8	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.9	3.3	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	12.5	6.7	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	9.0	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0	4.2	0.2	0.2	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA	
	Calm	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.1
	Variable	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.8	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.1	0.4	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	8.0	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	5.2	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	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.0	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.2	0.7	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	4.1	2.7	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	12.7	6.2	2.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	13.7	2.8	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	4.7	0.6	0.2	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	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA	
	Calm	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.3
	Variable	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.4	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.8	1.0	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	6.1	0.7	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	4.6	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	0.5	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	1.5	1.3	0.5	0.4	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	2.8	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	15.8	5.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	14.9	3.9	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	6.2	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) 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	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
	Variable	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.9	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.1	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	4.8	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	4.1	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	1.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	1.3	0.7	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	1.4	0.3	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	2.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	18.0	7.3	1.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	18.0	4.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	6.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 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	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.6
	Variable	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	5.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	5.0	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	5.2	0.5	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	4.2	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	1.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	1.2	0.4	0.1	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	3.5	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	15.4	6.4	1.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	14.7	3.6	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	9.0	1.1	0.1	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	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	4.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.7	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	6.9	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	5.5	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	1.5	0.3	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	2.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.0	0.2	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	4.2	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	15.2	6.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	13.8	3.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	7.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 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	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.5	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	7.6	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	5.4	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	2.4	0.1	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	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	3.9	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	17.1	4.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	14.8	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	6.4	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) 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	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.7	0.4	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	7.1	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	6.7	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	3.1	0.1	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	1.7	0.3	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	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.5	1.5	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	16.2	5.1	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	11.8	2.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	4.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) October													
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	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.5	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.2	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	8.2	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	8.1	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	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.4	0.3	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	4.7	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	14.5	4.3	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	11.8	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	5.5	0.1	0.0	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	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.8
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.7	0.8	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	11.4	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	11.1	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	3.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.8	0.3	0.5	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.9	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	10.6	4.3	1.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	8.0	1.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	4.0	0.1	0.0	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	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.7
	Variable	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.2	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.0	1.0	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	12.0	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	10.7	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	0.0	
	170-180-190	0.0	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.6	0.5	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	5.7	2.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	9.8	3.9	1.1	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	6.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.2.4. Wind Speed and Direction per Hour

Example (dark shading): In the 10 years period between 04 and 05 UTC 1.1% 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) 04 - 05 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	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.9
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	1.4	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	8.1	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	13.1	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	4.6	0.1	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	4.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	5.0	0.0	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	7.7	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	11.7	3.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	4.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	2.4	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) 05 - 06 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	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.1
	Variable	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	1.9	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	10.2	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	12.7	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	3.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.6	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	12.2	3.4	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	6.7	1.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	3.0	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) 06 - 07 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	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.7	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	12.0	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	10.7	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	2.8	0.1	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	2.4	0.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.1	0.5	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	4.7	1.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	11.8	3.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	9.7	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	4.3	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) 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	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.5	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	11.0	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	7.7	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	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	1.3	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.6	0.3	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	3.5	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	11.5	4.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	16.0	2.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	6.8	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) 08 - 09 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA
Wind Direction	Calm	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Variable	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	4.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	020-030-040	0.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	050-060-070	0.0	3.6	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	8.2	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	5.9	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	1.6	0.1	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	1.3	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	200-210-220	0.0	1.6	0.4	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	3.4	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	260-270-280	0.0	12.0	5.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	290-300-310	0.0	17.7	2.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	320-330-340	0.0	8.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

55.4

		Wind Speed (kt) 09 - 10 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA
Wind Direction	Calm	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	4.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	020-030-040	0.0	4.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	050-060-070	0.0	4.1	0.4	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	7.9	0.6	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	4.1	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	1.6	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	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	200-210-220	0.0	0.8	0.3	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	2.8	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	260-270-280	0.0	14.6	5.1	1.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	290-300-310	0.0	17.1	3.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	320-330-340	0.0	8.8	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

55.4

		Wind Speed (kt) 10 - 11 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA
Wind Direction	Calm	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	020-030-040	0.0	4.7	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	050-060-070	0.0	2.8	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	9.8	0.8	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	5.1	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	0.9	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	170-180-190	0.0	1.1	0.6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	200-210-220	0.0	1.2	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	230-240-250	0.0	3.2	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	260-270-280	0.0	13.3	6.9	2.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	290-300-310	0.0	15.1	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	320-330-340	0.0	5.8	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

79.8

		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	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	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	0.0
	350-360-010	0.0	3.9	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	020-030-040	0.0	6.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	050-060-070	0.0	3.8	0.4	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	3.8	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	2.7	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	1.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	170-180-190	0.0	0.6	0.5	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	200-210-220	0.0	0.6	0.3	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	2.7	1.3	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	17.6	8.4	1.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	290-300-310	0.0	19.4	5.1	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	320-330-340	0.0	9.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

75.4

		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	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5
	Variable	0.0	3.4	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	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	5.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	5.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	1.0	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	0.6	0.5	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	0.8	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	3.2	1.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	17.9	7.9	1.8	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	15.7	4.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	7.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 13 - 14 UTC												
		0	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	> 50	NA
Wind Direction	Calm	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.8
	Variable	0.0	3.3	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	4.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	5.2	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	4.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	5.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	3.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	1.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	0.7	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	3.4	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	17.1	7.9	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	15.1	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	6.6	0.7	0.1	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	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.5
	Variable	0.0	4.6	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	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.8	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	5.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	6.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	4.3	0.6	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	1.2	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	4.2	1.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	17.6	6.7	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	11.9	3.3	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	5.2	0.5	0.1	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	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6
	Variable	0.0	5.0	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	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	020-030-040	0.0	4.0	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	5.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	080-090-100	0.0	7.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	110-120-130	0.0	5.8	0.5	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	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	2.5	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	3.2	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	5.1	1.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	15.6	5.4	1.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	9.1	2.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	320-330-340	0.0	5.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) 16 - 17 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	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4
	020-030-040	0.0	3.4	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	3.8	0.7	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	8.4	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	7.9	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	3.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	3.5	0.8	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	5.0	0.6	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	6.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	13.5	4.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	7.3	1.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	2.9	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) 17 - 18 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	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9
	020-030-040	0.0	2.7	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.4	0.9	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	8.7	0.3	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	9.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	140-150-160	0.0	5.2	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	170-180-190	0.0	5.8	0.6	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.9	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	230-240-250	0.0	6.3	1.4	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	9.5	4.1	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	5.1	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	2.1	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) 18 - 19 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	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.3
	020-030-040	0.0	2.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	050-060-070	0.0	2.2	1.8	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	8.8	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	12.4	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	2.6	0.2	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	5.5	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	200-210-220	0.0	6.7	0.8	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	6.5	2.4	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	260-270-280	0.0	9.2	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	290-300-310	0.0	3.9	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
320-330-340	0.0	2.2	0.0	0.4	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 3.4% 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												
		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	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	020-030-040	0.0	3.8	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	050-060-070	0.0	3.7	4.1	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	080-090-100	0.0	8.2	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
	110-120-130	0.0	6.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	140-150-160	0.0	2.2	2.4	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	2.0	2.4	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	200-210-220	0.0	2.6	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	230-240-250	0.0	4.4	5.9	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	260-270-280	0.0	14.0	19.4	20.7	21.0	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
	290-300-310	0.0	12.2	14.7	15.1	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
	320-330-340	0.0	5.6	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

77.1

1.3.2. Cumulative Wind Speed and Direction per Season

Example (dark shading): In the 10 years period in winter 2.5% 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)													
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	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	020-030-040	0.0	2.7	3.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
	050-060-070	0.0	2.8	3.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
	080-090-100	0.0	11.4	11.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	
	110-120-130	0.0	9.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	
	140-150-160	0.0	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	79.1
	170-180-190	0.0	2.5	3.0	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	200-210-220	0.0	3.6	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	
	230-240-250	0.0	5.5	8.0	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
	260-270-280	0.0	10.7	15.4	17.1	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	
	290-300-310	0.0	7.7	8.9	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	
320-330-340	0.0	4.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4		

		Wind Speed (kt) Spring (Mar/Apr/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	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
	020-030-040	0.0	4.1	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
	050-060-070	0.0	4.0	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
	080-090-100	0.0	6.3	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
	110-120-130	0.0	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	140-150-160	0.0	1.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	76.7
	170-180-190	0.0	1.6	2.4	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	200-210-220	0.0	1.8	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	230-240-250	0.0	3.1	4.6	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	
	260-270-280	0.0	15.5	21.9	23.3	23.7	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	
	290-300-310	0.0	15.5	19.3	19.7	19.8	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	
320-330-340	0.0	6.0	6.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9		

		Wind Speed (kt) Summer (Jun/Jul/Aug)													
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	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
	020-030-040	0.0	5.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	
	050-060-070	0.0	4.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
	080-090-100	0.0	6.6	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
	110-120-130	0.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	140-150-160	0.0	2.0	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	76.5
	170-180-190	0.0	1.5	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
	200-210-220	0.0	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
	230-240-250	0.0	3.9	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
	260-270-280	0.0	15.9	21.8	22.5	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	
	290-300-310	0.0	14.4	17.5	18.0	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	
320-330-340	0.0	7.5	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4		

		Wind Speed (kt) Autumn (Sep/Oct/Nov)													
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	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	020-030-040	0.0	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
	050-060-070	0.0	3.2	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
	080-090-100	0.0	8.9	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	
	110-120-130	0.0	8.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	
	140-150-160	0.0	3.2	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	76.0
	170-180-190	0.0	2.3	2.6	2.9	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
	200-210-220	0.0	3.2	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
	230-240-250	0.0	5.2	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	
	260-270-280	0.0	13.7	18.3	19.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	
	290-300-310	0.0	10.5	12.4	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
320-330-340	0.0	4.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9		

1.3.3. Cumulative Wind Speed and Direction per Month

Example (dark shading): In the 10 years period in January 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) January													
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	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
	020-030-040	0.0	2.3	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
	050-060-070	0.0	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
	080-090-100	0.0	13.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	
	110-120-130	0.0	10.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	79.1
	140-150-160	0.0	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
	170-180-190	0.0	2.8	3.3	3.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	
	200-210-220	0.0	3.4	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	
	230-240-250	0.0	4.8	6.7	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	
	260-270-280	0.0	10.0	14.0	15.8	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	
	290-300-310	0.0	7.8	9.2	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	
320-330-340	0.0	4.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8		

		Wind Speed (kt) February													
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	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
	020-030-040	0.0	2.5	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
	050-060-070	0.0	2.7	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
	080-090-100	0.0	8.9	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
	110-120-130	0.0	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	80.6
	140-150-160	0.0	1.9	2.2	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	2.3	2.9	3.3	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
	200-210-220	0.0	3.8	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
	230-240-250	0.0	5.9	9.2	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	
	260-270-280	0.0	12.5	19.2	21.6	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	
	290-300-310	0.0	9.0	10.6	11.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
320-330-340	0.0	4.2	4.4	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6		

		Wind Speed (kt) March													
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	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
	020-030-040	0.0	3.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
	050-060-070	0.0	4.1	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	
	080-090-100	0.0	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	
	110-120-130	0.0	5.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	76.1
	140-150-160	0.0	1.6	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	2.0	2.6	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
	200-210-220	0.0	2.2	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
	230-240-250	0.0	4.1	6.8	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
	260-270-280	0.0	12.7	18.8	21.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	
	290-300-310	0.0	13.7	16.5	17.0	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	
320-330-340	0.0	4.7	5.4	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6		

		Wind Speed (kt) April													
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	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Variable	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	350-360-010	0.0	2.9	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
	020-030-040	0.0	4.4	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
	050-060-070	0.0	4.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
	080-090-100	0.0	6.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
	110-120-130	0.0	4.6	4.9	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	77.3
	140-150-160	0.0	1.2	1.7	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
	170-180-190	0.0	1.5	2.8	3.3	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	
	200-210-220	0.0	1.7	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	230-240-250	0.0	2.8	3.9	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
	260-270-280	0.0	15.8	21.6	22.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	
	290-300-310	0.0	14.9	18.8	19.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	
320-330-340	0.0	6.2	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3		

		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	7.1	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
	Variable	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	3.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	020-030-040	0.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	050-060-070	0.0	3.1	3.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	080-090-100	0.0	4.8	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	110-120-130	0.0	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	140-150-160	0.0	1.4	1.7	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	1.3	2.0	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	200-210-220	0.0	1.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	230-240-250	0.0	2.4	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	260-270-280	0.0	18.0	25.3	26.2	26.5	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
	290-300-310	0.0	18.0	22.7	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
	320-330-340	0.0	6.9	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8

		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	7.4	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
	Variable	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	020-030-040	0.0	5.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	050-060-070	0.0	5.0	5.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	080-090-100	0.0	5.2	5.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	110-120-130	0.0	4.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	140-150-160	0.0	1.9	2.1	2.2	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	1.2	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	200-210-220	0.0	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	230-240-250	0.0	3.5	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	260-270-280	0.0	15.4	21.8	22.7	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
	290-300-310	0.0	14.7	18.3	19.3	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
	320-330-340	0.0	9.0	10.0	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2

		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	6.8	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
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	4.3	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	020-030-040	0.0	5.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	050-060-070	0.0	4.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	080-090-100	0.0	6.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	110-120-130	0.0	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	140-150-160	0.0	1.5	1.8	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	2.0	2.4	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	200-210-220	0.0	2.0	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	230-240-250	0.0	4.2	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	260-270-280	0.0	15.2	21.7	22.5	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	290-300-310	0.0	13.8	17.3	17.7	17.8	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
	320-330-340	0.0	7.2	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0

		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	9.5	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
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	020-030-040	0.0	4.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
	050-060-070	0.0	4.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	080-090-100	0.0	7.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
	110-120-130	0.0	5.4	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	140-150-160	0.0	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	170-180-190	0.0	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	200-210-220	0.0	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	230-240-250	0.0	3.9	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	260-270-280	0.0	17.1	21.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
	290-300-310	0.0	14.8	17.0	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
	320-330-340	0.0	6.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

		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	11.7	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
	Variable	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	020-030-040	0.0	3.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	050-060-070	0.0	3.7	4.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	080-090-100	0.0	7.1	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
	110-120-130	0.0	6.7	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
	140-150-160	0.0	3.1	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	170-180-190	0.0	1.7	2.1	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	200-210-220	0.0	2.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	230-240-250	0.0	5.5	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
	260-270-280	0.0	16.2	21.3	22.2	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
	290-300-310	0.0	11.8	14.3	14.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	320-330-340	0.0	4.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

76.5

		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	12.4	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
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	020-030-040	0.0	3.5	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	050-060-070	0.0	3.2	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	080-090-100	0.0	8.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	110-120-130	0.0	8.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	140-150-160	0.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	170-180-190	0.0	2.3	2.5	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	200-210-220	0.0	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	230-240-250	0.0	4.7	5.7	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	260-270-280	0.0	14.5	18.8	19.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	290-300-310	0.0	11.8	13.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
	320-330-340	0.0	5.5	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7

75.7

		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	13.2	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
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	020-030-040	0.0	2.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	050-060-070	0.0	2.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	080-090-100	0.0	11.4	11.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
	110-120-130	0.0	11.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
	140-150-160	0.0	3.5	3.6	3.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	170-180-190	0.0	2.8	3.1	3.6	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	200-210-220	0.0	3.9	4.1	4.3	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	230-240-250	0.0	5.4	6.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	260-270-280	0.0	10.6	14.9	16.5	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
	290-300-310	0.0	8.0	9.6	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	320-330-340	0.0	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2

75.8

		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	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Variable	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	350-360-010	0.0	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	020-030-040	0.0	3.2	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	050-060-070	0.0	3.0	4.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	080-090-100	0.0	12.0	12.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
	110-120-130	0.0	10.7	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
	140-150-160	0.0	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	170-180-190	0.0	2.4	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	200-210-220	0.0	3.6	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	230-240-250	0.0	5.7	8.2	8.9	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	260-270-280	0.0	9.8	13.6	14.7	15.4	15.5	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
	290-300-310	0.0	6.5	7.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
	320-330-340	0.0	3.8	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

77.7

1.4. Wind RWY 10 (28)

1.4.1. Wind RWY 10 (28) 10 Years

Frequencies in percent of the concurrent wind speed and wind direction relative to runway 10 (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 31.1% of all observations showed a headwind relative to runway 10 (tailwind relative to runway 28) with a wind speed between 0 and 5 knots ($0 < X \leq 5$).

		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	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.1
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	31.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	44.0	10.2	2.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	42.2	2.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	37.6	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.4.2. Wind RWY 10 (28) per Season

Example (dark shading): In the 10 years period in winter 35.7% of all observations showed a headwind relative to runway 10 (tailwind relative to runway 28) with a wind speed between 0 and 5 knots ($0 < X \leq 5$).

		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	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1
	Variable	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	35.7	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	35.8	9.1	2.8	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	44.8	3.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	28.5	2.1	0.2	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	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	27.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	47.4	12.6	2.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	39.2	2.8	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	43.0	2.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) Summer (Jun/Jul/Aug)													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA	
	Calm	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	28.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	49.7	10.7	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	39.8	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	45.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) Autumn (Sep/Oct/Nov)													
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	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0
	Variable	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	33.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	41.9	8.2	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	45.3	1.5	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	32.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

1.4.3. Wind RWY 10 (28) per Month

Example (dark shading): In the 10 years period in January 37.5% of all observations showed a headwind relative to runway 10 (tailwind relative to runway 28) with a wind speed between 0 and 5 knots ($0 < X \leq 5$).

		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	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	37.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	34.9	8.0	3.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	43.2	3.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	29.6	1.6	0.1	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	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	30.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	40.4	12.5	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	48.3	3.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	28.8	1.8	0.4	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	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.1
	Variable	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	28.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	43.3	12.9	3.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	41.0	3.6	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	39.5	2.0	0.1	0.1	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	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.3
	Variable	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	29.6	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	46.5	11.5	1.9	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	37.3	3.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	44.1	3.7	0.1	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	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7
	Variable	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	23.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	52.5	13.4	1.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	39.3	1.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	45.5	3.0	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	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.6
	Variable	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	26.8	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	49.9	11.5	2.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	37.4	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	48.0	2.6	0.1	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	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Headwind	0.0	29.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Tailwind	0.0	48.6	11.9	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Right Crosswind	0.0	41.1	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Left Crosswind	0.0	45.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

		Wind Speed (kt) August													
Wind Direction		0	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	> 50	NA	
	Calm	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3
	Variable	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Headwind	0.0	29.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Tailwind	0.0	50.6	8.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Right Crosswind	0.0	41.0	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Left Crosswind	0.0	42.8	1.3	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	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.5
	Variable	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Headwind	0.0	30.1	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Tailwind	0.0	45.3	9.6	1.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0		
	Right Crosswind	0.0	45.0	1.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Left Crosswind	0.0	34.7	2.1	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	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7
	Variable	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Headwind	0.0	32.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Tailwind	0.0	44.8	7.2	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Right Crosswind	0.0	44.3	1.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0		
	Left Crosswind	0.0	35.1	1.3	0.1	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	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.8
	Variable	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Headwind	0.0	38.7	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Tailwind	0.0	35.6	7.9	2.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0		
	Right Crosswind	0.0	46.5	1.4	0.8	1.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0		
	Left Crosswind	0.0	28.3	1.8	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	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.7
	Variable	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Headwind	0.0	38.2	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Tailwind	0.0	33.2	7.6	1.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0		
	Right Crosswind	0.0	43.6	3.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Left Crosswind	0.0	27.3	2.7	0.2	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 1.22‰ of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 260 degrees.

		Wind Speed (kt) 10 Years							NA
		10-15	16-20	21-25	26-30	31-40	41-60	>60	
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	771
	010	0.00	0.00	0.00	0.02	0.00	0.00	0.00	
	020	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.05	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.05	0.02	0.00	0.00	0.00	
	060	0.00	0.00	0.02	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	0.02	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	0.02	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.02	0.00	0.05	0.00	0.00	
	140	0.02	0.02	0.02	0.00	0.00	0.00	0.00	
	150	0.00	0.05	0.12	0.02	0.02	0.00	0.00	
	160	0.00	0.05	0.15	0.12	0.15	0.00	0.00	
	170	0.00	0.12	0.32	0.15	0.25	0.07	0.00	
	180	0.00	0.07	0.45	0.37	0.55	0.10	0.00	
	190	0.02	0.07	0.27	0.45	0.50	0.02	0.00	
200	0.00	0.07	0.25	0.15	0.15	0.02	0.00		
210	0.00	0.05	0.10	0.02	0.00	0.00	0.00		
220	0.00	0.15	0.12	0.10	0.00	0.00	0.00		
230	0.02	0.07	0.15	0.15	0.02	0.00	0.00		
240	0.07	0.35	0.45	0.07	0.02	0.00	0.00		
250	0.05	0.65	0.60	0.50	0.25	0.00	0.00		
260	0.02	0.75	1.22	0.75	0.27	0.07	0.00		
270	0.12	0.40	0.60	0.30	0.17	0.00	0.00		
280	0.05	0.15	0.42	0.10	0.07	0.00	0.00		
290	0.00	0.02	0.00	0.05	0.02	0.00	0.00		
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.02	0.02	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.05	0.02	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	0.02	0.00	0.00	0.00	0.00		

2.1.2. Maximum Wind Gust in 10 Years

On the 11th of November 1996 at 1050 UTC a wind gust of 51 kt was measured.

2.1.3. Wind Gusts per Season

Example (dark shading): In the 10 years period in winter 2.32% of all observations showed a wind gust between 21 and 25 knots with a concurrent wind direction of 260 degrees.

Wind Direction	Wind Speed (kt) Winter (Dec/Jan/Feb)							
	10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
030	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
040	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
050	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
060	0.00	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	0.00
080	0.00	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	0.00
100	0.00	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	0.00
120	0.00	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	0.00
140	0.00	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	0.00
160	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00
170	0.00	0.00	0.11	0.11	0.33	0.11	0.00	0.00
180	0.00	0.00	0.44	0.11	0.33	0.00	0.00	0.00
190	0.11	0.00	0.77	0.33	0.33	0.00	0.00	0.00
200	0.00	0.11	0.11	0.11	0.11	0.00	0.00	0.00
210	0.00	0.22	0.22	0.11	0.00	0.00	0.00	0.00
220	0.00	0.33	0.22	0.11	0.00	0.00	0.00	0.00
230	0.11	0.22	0.44	0.22	0.00	0.00	0.00	0.00
240	0.22	0.66	1.10	0.22	0.00	0.00	0.00	0.00
250	0.00	1.43	1.10	1.10	0.88	0.00	0.00	0.00
260	0.11	1.43	2.32	2.10	0.88	0.22	0.00	0.00
270	0.33	0.66	0.88	0.44	0.11	0.00	0.00	0.00
280	0.00	0.33	0.66	0.11	0.00	0.00	0.00	0.00
290	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00
300	0.00	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	0.00
320	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
330	0.00	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	0.00
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

791

Wind Direction	Wind Speed (kt) Spring (Mar/Apr/May)							
	10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
020	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
030	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
050	0.00	0.00	0.10	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	0.00
070	0.00	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	0.00
090	0.00	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	0.00
110	0.00	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	0.00
130	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00
140	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.10	0.39	0.10	0.00	0.00	0.00	0.00
160	0.00	0.10	0.29	0.19	0.19	0.00	0.00	0.00
170	0.00	0.19	0.78	0.39	0.49	0.00	0.00	0.00
180	0.00	0.00	0.19	0.49	0.58	0.29	0.00	0.00
190	0.00	0.10	0.10	0.49	0.29	0.00	0.00	0.00
200	0.00	0.10	0.58	0.19	0.10	0.00	0.00	0.00
210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.00	0.19	0.29	0.10	0.00	0.00	0.00	0.00
230	0.00	0.10	0.10	0.19	0.10	0.00	0.00	0.00
240	0.10	0.29	0.39	0.00	0.10	0.00	0.00	0.00
250	0.10	0.87	0.87	0.58	0.00	0.00	0.00	0.00
260	0.00	0.49	1.46	0.58	0.19	0.00	0.00	0.00
270	0.10	0.49	0.58	0.29	0.29	0.00	0.00	0.00
280	0.10	0.19	0.68	0.19	0.10	0.00	0.00	0.00
290	0.00	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	0.00
310	0.00	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	0.00
330	0.00	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	0.00
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

767

		Wind Speed (kt) Summer (Jun/Jul/Aug)							NA
		10-15	16-20	21-25	26-30	31-40	41-60	>60	
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	765
	010	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.10	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	0.10	0.00	0.00	0.00	0.00	0.00	
	130	0.00	0.00	0.00	0.00	0.10	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	0.10	0.10	0.00	0.00	0.00	
	170	0.00	0.00	0.10	0.10	0.00	0.00	0.00	
	180	0.00	0.10	0.10	0.10	0.10	0.00	0.00	
	190	0.00	0.00	0.00	0.10	0.19	0.00	0.00	
	200	0.00	0.10	0.19	0.10	0.00	0.00	0.00	
	210	0.00	0.00	0.10	0.00	0.00	0.00	0.00	
	220	0.00	0.00	0.00	0.19	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	0.10	0.10	0.00	0.00	0.00	
	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
260	0.00	0.19	0.19	0.10	0.00	0.10	0.00		
270	0.00	0.10	0.19	0.10	0.10	0.00	0.00		
280	0.00	0.10	0.00	0.10	0.10	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	0.19	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

		Wind Speed (kt) Autumn (Sep/Oct/Nov)							NA
		10-15	16-20	21-25	26-30	31-40	41-60	>60	
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	760
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.10	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	0.10	0.10	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.10	0.00	0.10	0.00	0.00	
	160	0.00	0.00	0.10	0.19	0.29	0.00	0.00	
	170	0.00	0.29	0.29	0.00	0.19	0.19	0.00	
	180	0.00	0.19	1.05	0.76	1.14	0.10	0.00	
	190	0.00	0.19	0.29	0.86	1.14	0.10	0.00	
	200	0.00	0.00	0.10	0.19	0.38	0.10	0.00	
	210	0.00	0.00	0.10	0.00	0.00	0.00	0.00	
	220	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.10	0.19	0.00	0.00	0.00	
	240	0.00	0.48	0.29	0.00	0.00	0.00	0.00	
	250	0.10	0.38	0.48	0.38	0.19	0.00	0.00	
260	0.00	0.95	1.05	0.38	0.10	0.00	0.00		
270	0.10	0.38	0.76	0.38	0.19	0.00	0.00		
280	0.10	0.00	0.38	0.00	0.10	0.00	0.00		
290	0.00	0.00	0.00	0.10	0.10	0.00	0.00		
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.10	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	0.10	0.00	0.00	0.00	0.00		

2.1.4. Wind Gusts per Month

Example (dark shading): In the 10 years period in January 2.57% of all observations showed a wind gust speed between 26 and 30 knots with a concurrent wind direction of 260 degrees.

		Wind Speed (kt) January							NA
		10-15	16-20	21-25	26-30	31-40	41-60	>60	
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.32	0.00	0.00	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.64	0.00	0.00	
	180	0.00	0.00	0.00	0.32	0.64	0.00	0.00	
	190	0.00	0.00	0.64	0.00	0.96	0.00	0.00	
200	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
210	0.00	0.32	0.00	0.00	0.00	0.00	0.00		
220	0.00	0.32	0.00	0.00	0.00	0.00	0.00		
230	0.32	0.00	0.32	0.32	0.00	0.00	0.00		
240	0.32	0.96	0.96	0.32	0.00	0.00	0.00		
250	0.00	0.32	0.96	0.96	0.96	0.00	0.00		
260	0.00	0.96	1.60	2.57	0.00	0.00	0.00		
270	0.00	0.64	0.32	0.96	0.00	0.00	0.00		
280	0.00	0.32	0.32	0.00	0.00	0.00	0.00		
290	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

791

		Wind Speed (kt) February							NA
		10-15	16-20	21-25	26-30	31-40	41-60	>60	
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.38	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.38	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	0.38	0.00	0.38	0.38	0.00	
	180	0.00	0.00	1.52	0.00	0.38	0.00	0.00	
	190	0.00	0.00	1.90	1.14	0.00	0.00	0.00	
200	0.00	0.00	0.38	0.38	0.38	0.00	0.00		
210	0.00	0.38	0.00	0.00	0.00	0.00	0.00		
220	0.00	0.76	0.38	0.38	0.00	0.00	0.00		
230	0.00	0.00	0.38	0.00	0.00	0.00	0.00		
240	0.38	0.76	1.14	0.00	0.00	0.00	0.00		
250	0.00	3.04	1.90	0.76	0.00	0.00	0.00		
260	0.00	1.90	4.56	0.76	0.00	0.00	0.00		
270	0.38	1.14	2.28	0.38	0.38	0.00	0.00		
280	0.00	0.76	1.52	0.38	0.00	0.00	0.00		
290	0.00	0.00	0.00	0.38	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	0.38	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.38	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		

806

		Wind Speed (kt) March							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.28	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	0.28	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	0.56	0.56	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.28	0.28	0.00	
	190	0.00	0.00	0.00	0.00	0.28	0.00	0.00	
	200	0.00	0.00	0.28	0.28	0.00	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.28	0.56	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.00	0.00	0.28	0.00	0.00	
	240	0.00	0.84	0.84	0.00	0.00	0.00	0.00	
	250	0.28	1.69	1.41	1.12	0.00	0.00	0.00	
260	0.00	0.84	2.81	1.41	0.56	0.00	0.00		
270	0.00	0.84	0.56	0.56	0.56	0.00	0.00		
280	0.00	0.00	1.41	0.00	0.28	0.00	0.00		
290	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

761

		Wind Speed (kt) April							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.31	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.31	0.00	0.00	
	140	0.31	0.00	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.31	0.92	0.00	0.00	0.00	0.00	
	160	0.00	0.31	0.61	0.00	0.31	0.00	0.00	
	170	0.00	0.31	0.61	0.31	0.31	0.00	0.00	
	180	0.00	0.00	0.31	0.92	0.92	0.61	0.00	
	190	0.00	0.00	0.00	0.92	0.61	0.00	0.00	
	200	0.00	0.31	1.22	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	0.31	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	0.92	0.92	0.61	0.00	0.00	0.00	
260	0.00	0.00	1.22	0.31	0.00	0.00	0.00		
270	0.31	0.00	0.61	0.31	0.00	0.00	0.00		
280	0.31	0.00	0.31	0.61	0.00	0.00	0.00		
290	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

773

		Wind Speed (kt) May							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.29	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.29	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	0.29	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.29	0.58	0.29	0.00	0.00	
	170	0.00	0.29	1.73	0.29	0.58	0.00	0.00	
	180	0.00	0.00	0.29	0.58	0.58	0.00	0.00	
	190	0.00	0.29	0.29	0.58	0.00	0.00	0.00	
	200	0.00	0.00	0.29	0.29	0.29	0.00	0.00	
	210	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	220	0.00	0.29	0.29	0.00	0.00	0.00	0.00	
	230	0.00	0.29	0.29	0.58	0.00	0.00	0.00	
	240	0.29	0.00	0.29	0.00	0.29	0.00	0.00	
	250	0.00	0.00	0.29	0.00	0.00	0.00	0.00	
	260	0.00	0.58	0.29	0.00	0.00	0.00	0.00	
	270	0.00	0.58	0.58	0.00	0.29	0.00	0.00	
	280	0.00	0.58	0.29	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

767

		Wind Speed (kt) June							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.30	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.30	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	0.30	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	0.30	0.30	0.00	0.00	0.00	
	170	0.00	0.00	0.30	0.30	0.00	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.30	0.30	0.00	0.00	
	200	0.00	0.30	0.30	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	0.59	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	0.30	0.30	0.30	0.00	0.30	0.00	
	270	0.00	0.00	0.30	0.30	0.30	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

766

		Wind Speed (kt) July							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.29	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	0.29	0.00	0.29	0.00	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.00	0.29	0.29	0.00	0.00	0.00	
	210	0.00	0.00	0.29	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	0.29	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	0.29	0.00	0.00	0.00	0.00	0.00	
	270	0.00	0.29	0.00	0.00	0.00	0.00	0.00	
	280	0.00	0.29	0.00	0.29	0.29	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	0.57	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		

765

		Wind Speed (kt) August							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.28	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	0.28	0.00	0.28	0.00	0.00	
	190	0.00	0.00	0.00	0.00	0.28	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	0.28	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	0.28	0.00	0.00	0.00	0.00	
	270	0.00	0.00	0.28	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

763

		Wind Speed (kt) September							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.30	0.00	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.30	0.00	0.00	0.00	0.00	
	160	0.00	0.00	0.00	0.30	0.00	0.00	0.00	
	170	0.00	0.89	0.30	0.00	0.00	0.00	0.00	
	180	0.00	0.30	1.48	0.59	0.30	0.00	0.00	765
	190	0.00	0.00	0.00	0.89	0.00	0.00	0.00	
	200	0.00	0.00	0.30	0.00	0.30	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	0.30	0.00	0.00	0.00	
	240	0.00	0.30	0.30	0.00	0.00	0.00	0.00	
	250	0.30	0.30	0.00	0.30	0.00	0.00	0.00	
	260	0.00	1.48	0.59	0.30	0.00	0.00	0.00	
	270	0.00	0.30	0.30	0.59	0.00	0.00	0.00	
	280	0.30	0.00	0.30	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.30	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

		Wind Speed (kt) October							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.28	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	0.28	0.83	0.28	0.83	0.00	0.00	757
	190	0.00	0.28	0.00	0.28	0.28	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	0.28	0.00	0.00	0.00	0.00	0.00	
	230	0.00	0.00	0.28	0.00	0.00	0.00	0.00	
	240	0.00	0.55	0.28	0.00	0.00	0.00	0.00	
	250	0.00	0.28	0.83	0.55	0.55	0.00	0.00	
	260	0.00	1.10	1.38	0.00	0.28	0.00	0.00	
	270	0.00	0.55	1.10	0.55	0.00	0.00	0.00	
	280	0.00	0.00	0.28	0.00	0.00	0.00	0.00	
	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
320	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
330	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
340	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
350	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

		Wind Speed (kt) November							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	060	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	070	0.00	0.00	0.00	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	0.29	0.00	0.00	0.00	0.00	
	150	0.00	0.00	0.00	0.00	0.29	0.00	0.00	
	160	0.00	0.00	0.29	0.29	0.86	0.00	0.00	
	170	0.00	0.00	0.57	0.00	0.57	0.57	0.00	
	180	0.00	0.00	0.86	1.44	2.30	0.29	0.00	
	190	0.00	0.29	0.86	1.44	3.16	0.29	0.00	
	200	0.00	0.00	0.00	0.57	0.86	0.29	0.00	
	210	0.00	0.00	0.29	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	0.29	0.00	0.00	0.00	
	240	0.00	0.57	0.29	0.00	0.00	0.00	0.00	
	250	0.00	0.57	0.57	0.29	0.00	0.00	0.00	
	260	0.00	0.29	1.15	0.86	0.00	0.00	0.00	
	270	0.29	0.29	0.86	0.00	0.57	0.00	0.00	
	280	0.00	0.00	0.57	0.00	0.29	0.00	0.00	
	290	0.00	0.00	0.00	0.29	0.00	0.00	0.00	
300	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
310	0.00	0.29	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	0.29	0.00	0.00	0.00	0.00		

758

		Wind Speed (kt) December							
		10-15	16-20	21-25	26-30	31-40	41-60	>60	NA
Wind Direction	360	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	010	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	040	0.00	0.00	0.30	0.00	0.00	0.00	0.00	
	050	0.00	0.00	0.30	0.30	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	0.30	0.00	0.00	
	170	0.00	0.00	0.00	0.00	0.30	0.00	0.00	
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	190	0.30	0.00	0.00	0.00	0.00	0.00	0.00	
	200	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
	210	0.00	0.00	0.60	0.30	0.00	0.00	0.00	
	220	0.00	0.00	0.30	0.00	0.00	0.00	0.00	
	230	0.00	0.60	0.60	0.30	0.00	0.00	0.00	
	240	0.00	0.30	1.21	0.30	0.00	0.00	0.00	
	250	0.00	1.21	0.60	1.51	1.51	0.00	0.00	
	260	0.30	1.51	1.21	2.72	2.42	0.60	0.00	
	270	0.60	0.30	0.30	0.00	0.00	0.00	0.00	
	280	0.00	0.00	0.30	0.00	0.00	0.00	0.00	
	290	0.00	0.30	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		

777

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 3.9% of all observations between 04 and 05 UTC showed a visibility below 5000 m.

		Visibility (m) 10 Years											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.2	0.4	0.4	0.5	1.3	3.9	15.3	84.7	82.9
	05 - 06	0.0	0.0	0.1	0.7	1.2	1.5	1.9	4.2	8.8	19.3	80.7	48.2
	06 - 07	0.0	0.0	0.1	1.5	2.6	3.0	4.1	7.9	14.5	25.9	74.1	47.5
	07 - 08	0.0	0.0	0.0	1.5	2.2	2.5	3.3	7.1	13.2	22.9	77.1	58.1
	08 - 09	0.0	0.0	0.0	1.4	1.9	2.4	3.4	7.1	12.8	22.1	77.9	55.4
	09 - 10	0.0	0.0	0.0	0.8	1.3	1.7	2.6	6.6	11.9	21.2	78.8	55.3
	10 - 11	0.0	0.0	0.1	1.2	2.6	3.5	5.0	10.8	19.6	31.7	68.3	79.8
	11 - 12	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.7	2.3	7.6	92.4	75.5
	12 - 13	0.0	0.0	0.0	0.3	0.6	0.9	1.3	4.5	8.3	16.3	83.7	55.4
	13 - 14	0.0	0.0	0.0	0.3	0.6	0.8	1.2	3.7	7.6	14.6	85.4	55.7
	14 - 15	0.0	0.0	0.1	0.5	0.7	0.9	1.3	3.4	7.2	14.4	85.6	56.4
	15 - 16	0.0	0.0	0.2	0.7	1.0	1.0	1.4	3.8	7.2	14.6	85.4	55.5
	16 - 17	0.0	0.0	0.1	0.8	1.0	1.0	1.3	2.9	6.0	13.8	86.2	57.4
	17 - 18	0.0	0.0	0.1	0.9	1.2	1.3	1.7	3.7	6.9	17.3	82.7	73.0
	18 - 19	0.0	0.0	0.0	1.6	3.3	3.3	3.3	6.1	8.4	20.4	79.6	93.3

3.1.2. Monthly Visibility 10 Years

Example (dark shading): In the 10 years period in March 8.8% of all observations showed a visibility below 5000 m.

		Visibility (m) 10 Years											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (Months)	January	0.0	0.0	0.5	4.4	6.5	7.5	9.5	17.7	29.6	43.7	56.3	79.1
	February	0.0	0.0	0.1	1.6	2.2	2.7	4.1	8.8	15.1	23.4	76.6	80.6
	March	0.0	0.0	0.0	0.5	0.8	1.0	1.5	4.8	8.8	20.4	79.6	76.0
	April	0.0	0.0	0.0	0.0	0.1	0.2	0.3	1.4	4.1	10.5	89.5	77.3
	May	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.7	9.8	90.2	76.7
	June	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	3.6	96.4	76.6
	July	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	3.1	96.9	76.5
	August	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	5.2	94.8	76.4
	September	0.0	0.0	0.0	0.1	0.3	0.3	0.6	2.1	5.6	14.9	85.1	76.5
	October	0.0	0.0	0.1	1.4	2.3	2.7	3.8	7.9	13.5	27.5	72.5	75.7
	November	0.0	0.0	0.0	1.0	2.0	2.6	3.6	8.6	17.6	33.0	67.0	75.9
	December	0.0	0.0	0.0	1.2	2.3	2.6	3.5	9.5	17.3	30.2	69.8	77.6

3.1.3. Hourly Visibility per Season

Example (dark shading): In the 10 years period in winter 20.5 % of all observations between 05 and 06 UTC showed a visibility below 5000 m.

		Visibility (m) Winter (Dec/Jan/Feb)											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	0.2	2.2	3.8	4.8	5.8	11.0	20.5	32.1	67.9	72.2
	06 - 07	0.0	0.0	0.2	2.9	4.8	5.4	7.0	12.5	21.8	33.6	66.4	37.9
	07 - 08	0.0	0.0	0.1	4.1	5.6	5.9	8.0	15.8	25.5	37.0	63.0	62.4
	08 - 09	0.0	0.0	0.1	5.1	5.9	7.0	9.0	16.9	27.1	37.1	62.9	60.5
	09 - 10	0.0	0.0	0.1	2.7	4.1	4.9	7.7	14.9	24.2	36.0	64.0	56.9
	10 - 11	0.0	0.0	0.1	2.0	4.4	5.6	7.2	14.3	23.9	35.3	64.7	58.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	11.8	88.2	99.1
	12 - 13	0.0	0.0	0.0	0.7	1.8	2.8	3.9	12.7	21.2	32.2	67.8	59.7
	13 - 14	0.0	0.0	0.0	0.9	1.9	2.3	3.6	10.7	19.5	30.0	70.0	58.6
	14 - 15	0.0	0.0	0.6	1.4	2.1	2.8	4.0	10.1	20.0	31.3	68.8	60.1
	15 - 16	0.0	0.0	0.5	2.6	3.5	3.8	4.9	11.4	19.6	32.3	67.7	59.2
	16 - 17	0.0	0.0	0.4	2.7	3.1	3.2	4.0	8.4	16.1	30.3	69.7	62.4
	17 - 18	0.0	0.0	0.2	2.0	2.8	3.0	3.4	7.3	13.0	28.9	71.1	64.3
	18 - 19	0.0	0.0	0.0	2.4	4.4	4.4	4.4	8.4	12.7	25.5	74.5	86.1

		Visibility (m) Spring (Mar/Apr/May)											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5	19.6	80.4	79.2
	05 - 06	0.1	0.1	0.1	0.3	0.4	0.6	0.8	3.5	7.9	20.3	79.7	43.5
	06 - 07	0.0	0.0	0.0	1.0	1.4	1.5	2.1	5.0	10.8	23.4	76.6	50.2
	07 - 08	0.0	0.0	0.0	0.6	0.7	1.0	1.5	4.6	9.5	20.0	80.0	56.3
	08 - 09	0.0	0.0	0.0	0.4	0.8	1.1	1.8	4.0	7.8	18.3	81.7	54.2
	09 - 10	0.0	0.0	0.0	0.0	0.4	0.5	0.7	2.9	6.3	15.8	84.2	55.3
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.1	10.8	23.1	76.9	85.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	6.3	93.7	70.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	2.9	9.1	90.9	53.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	7.7	92.3	54.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.0	7.1	92.9	55.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	2.1	6.7	93.3	54.1
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	2.2	7.8	92.2	55.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	2.4	8.6	91.4	75.4
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	11.0	89.0	95.5

		Visibility (m) Summer (Jun/Jul/Aug)											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.8	92.2	69.2
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	6.5	93.5	30.4
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	6.4	93.6	59.1
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	5.4	94.6	55.8
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	4.7	95.3	53.8
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	4.1	95.9	55.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	95.3	97.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	3.1	96.9	56.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.8	97.2	54.0
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3	97.7	55.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.6	98.4	55.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	2.3	97.7	54.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	98.3	56.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	98.7	83.1
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.2

		Visibility (m) Autumn (Sep/Oct/Nov)											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	1.0	1.7	1.7	2.0	3.0	5.6	23.8	76.2	83.4
	05 - 06	0.0	0.0	0.0	1.3	2.5	2.7	3.6	6.7	13.6	28.6	71.4	47.0
	06 - 07	0.0	0.0	0.1	1.6	3.3	3.8	5.9	10.8	19.3	34.0	66.0	42.6
	07 - 08	0.0	0.0	0.0	1.6	3.0	3.9	4.7	9.4	18.2	31.9	68.1	57.8
	08 - 09	0.0	0.0	0.0	0.6	1.5	2.2	3.9	9.0	17.2	30.8	69.2	53.1
	09 - 10	0.0	0.0	0.0	0.5	1.1	1.7	2.4	9.0	17.0	29.7	70.3	54.2
	10 - 11	0.0	0.0	0.0	0.7	1.4	2.4	4.5	9.8	19.6	33.5	66.5	77.0
	11 - 12	0.0	0.0	0.0	0.5	0.7	0.7	0.7	2.5	6.8	17.3	82.7	75.8
	12 - 13	0.0	0.0	0.0	0.5	0.9	1.0	1.5	5.2	10.7	23.6	76.4	54.8
	13 - 14	0.0	0.0	0.0	0.2	0.6	1.0	1.3	3.7	8.9	19.8	80.2	53.9
	14 - 15	0.0	0.0	0.0	0.7	0.7	1.0	1.2	3.4	7.9	19.6	80.4	54.8
	15 - 16	0.0	0.0	0.1	0.5	0.7	0.7	1.1	3.6	7.8	19.1	80.9	53.8
	16 - 17	0.0	0.0	0.1	1.0	1.2	1.2	1.4	3.1	6.6	17.9	82.1	55.7
	17 - 18	0.0	0.0	0.2	0.7	1.1	1.2	1.8	3.9	7.4	19.8	80.2	69.0
18 - 19	0.0	0.0	0.0	1.4	3.5	3.5	3.5	5.6	5.6	19.0	81.0	92.2	

3.1.4. Hourly Visibility per Month

Example (dark shading): In the 10 years period in January 29.8 % of all observations between 05 and 06 UTC showed a visibility below 5000 m.

		Visibility (m) January											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	0.6	4.5	6.7	9.0	10.1	17.4	29.8	43.3	56.7	71.3
	06 - 07	0.0	0.0	0.0	4.9	7.9	9.5	11.5	16.7	31.0	42.8	57.2	37.1
	07 - 08	0.0	0.0	0.0	6.4	8.2	8.6	11.6	20.2	33.9	44.6	55.4	62.4
	08 - 09	0.0	0.0	0.4	9.3	10.5	11.8	14.8	23.6	38.8	50.6	49.4	61.8
	09 - 10	0.0	0.0	0.4	5.1	8.1	8.8	12.5	20.6	30.9	44.9	55.1	56.1
	10 - 11	0.0	0.0	0.4	3.1	7.8	10.2	12.2	20.8	32.5	46.7	53.3	58.9
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.2
	12 - 13	0.0	0.0	0.0	1.2	2.8	4.5	6.5	19.5	31.7	45.1	54.9	60.3
	13 - 14	0.0	0.0	0.0	1.6	3.3	4.1	5.3	16.0	28.0	42.0	58.0	60.8
	14 - 15	0.0	0.0	1.6	2.3	3.5	3.9	6.6	15.1	30.2	43.8	56.2	58.4
	15 - 16	0.0	0.0	1.2	5.2	6.0	6.3	7.9	17.9	28.6	44.0	56.0	59.4
	16 - 17	0.0	0.0	1.3	5.5	5.9	6.3	7.6	13.9	24.4	42.4	57.6	61.6
	17 - 18	0.0	0.0	0.4	4.0	5.4	5.8	6.7	12.6	18.8	39.9	60.1	64.0
	18 - 19	0.0	0.0	0.0	4.9	8.5	8.5	8.5	14.6	15.9	29.3	70.7	86.8

		Visibility (m) February											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	0.0	1.3	1.3	1.3	3.3	6.6	13.9	22.5	77.5	73.2
	06 - 07	0.0	0.0	0.6	2.1	2.7	2.7	4.5	10.3	17.0	25.2	74.8	41.5
	07 - 08	0.0	0.0	0.5	3.6	5.1	5.6	6.6	13.8	20.9	32.1	67.9	65.2
	08 - 09	0.0	0.0	0.0	4.3	5.2	6.7	8.6	15.2	21.9	28.1	71.9	62.8
	09 - 10	0.0	0.0	0.0	2.8	2.8	3.7	6.9	11.5	20.6	28.0	72.0	61.3
	10 - 11	0.0	0.0	0.0	2.3	2.8	3.7	5.6	11.2	19.5	26.0	74.0	61.9
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.5
	12 - 13	0.0	0.0	0.0	0.5	0.5	2.0	3.4	8.8	15.1	22.0	78.0	63.7
	13 - 14	0.0	0.0	0.0	0.0	0.5	0.9	2.8	7.0	12.6	20.5	79.5	61.9
	14 - 15	0.0	0.0	0.0	0.5	1.0	1.5	2.0	5.0	11.6	21.1	78.9	64.7
	15 - 16	0.0	0.0	0.0	0.5	1.4	1.9	2.8	7.6	11.8	22.3	77.7	62.6
	16 - 17	0.0	0.0	0.0	1.0	1.5	1.5	1.5	4.0	10.1	16.7	83.3	64.9
	17 - 18	0.0	0.0	0.0	1.0	1.5	1.5	1.5	4.6	8.6	18.8	81.2	65.1
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.2	13.0	87.0	86.3

		Visibility (m) March											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	12.5	87.5	96.1
	05 - 06	0.0	0.0	0.0	0.9	1.3	1.7	1.7	8.5	14.5	29.5	70.5	62.3
	06 - 07	0.0	0.0	0.0	2.2	2.6	2.9	4.1	8.7	15.9	30.3	69.7	32.9
	07 - 08	0.0	0.0	0.0	1.8	2.2	2.9	4.0	9.9	16.1	29.7	70.3	56.0
	08 - 09	0.0	0.0	0.0	1.0	2.4	2.8	4.2	9.1	14.3	29.0	71.0	53.9
	09 - 10	0.0	0.0	0.0	0.0	1.0	1.4	2.0	6.1	10.2	24.9	75.1	52.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.3	11.5	24.1	75.9	59.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	92.3	93.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.8	5.2	16.2	83.8	53.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.4	13.5	86.5	52.1
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.5	12.3	87.7	54.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	3.5	11.9	88.1	53.9
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	3.7	12.5	87.5	56.1
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	3.6	12.0	88.0	59.8
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	11.5	88.5	87.4

		Visibility (m) April											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.1	20.8	79.2	70.3
	05 - 06	0.3	0.3	0.3	0.3	0.3	0.5	0.8	2.3	6.1	19.4	80.6	34.7
	06 - 07	0.0	0.0	0.0	0.0	0.9	0.9	0.9	3.0	8.9	19.1	80.9	60.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.9	14.9	85.1	56.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.4	1.1	2.2	4.8	14.8	85.2	55.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.8	10.5	89.5	57.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	88.9	98.5
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	7.3	92.7	59.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.6	5.6	94.4	55.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	4.5	95.5	55.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.6	3.5	96.5	57.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	3.0	97.0	55.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	4.1	95.9	55.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2	94.8	83.8
18 - 19	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											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.1	19.3	80.7	70.8
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	5.8	15.9	84.1	33.2
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.5	16.2	83.8	57.3
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	5.2	15.2	84.8	56.6
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.2	10.8	89.2	53.9
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	11.0	89.0	56.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.1	94.9	59.2
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	5.3	94.7	51.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	95.5	56.6
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.1	94.9	55.3
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.2	94.8	53.4
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	6.8	93.2	54.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	96.3	82.7
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.5	

		Visibility (m) June											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.0	94.0	69.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	5.6	94.4	31.5
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	7.2	92.8	58.2
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.0	94.0	58.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.2	96.8	52.8
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	97.1	54.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	98.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	3.4	96.6	56.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	97.8	55.3
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	97.4	55.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	98.5	55.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	2.5	97.5	53.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	98.4	57.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	83.5
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.2	

		Visibility (m) July												
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.2	94.8	69.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.0	95.0	28.7
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	3.9	96.1	58.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	2.5	97.5	55.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.4	3.5	96.5	54.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	3.4	96.6	57.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	90.0	96.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0	97.0	56.9
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	2.8	97.2	53.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.1	97.9	54.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	99.3	56.1
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	2.5	97.5	55.6
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9	98.1	57.6
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	98.1	82.6	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.2	

		Visibility (m) August												
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	12.0	88.0	69.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	8.9	91.1	31.0
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.2	91.8	60.5
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.8	7.6	92.4	53.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.4	92.6	54.4
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.9	94.1	53.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	97.9
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0	97.0	56.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.5	96.5	53.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	97.7	57.1
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.5	97.5	54.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	98.2	55.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	98.3	53.9
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	99.0	83.2	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.4	

		Visibility (m) September											
Time (UTC)		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
	04 - 05	0.0	0.0	0.0	0.6	1.1	1.1	1.1	1.1	4.5	22.2	77.8	70.7
	05 - 06	0.0	0.0	0.0	0.5	0.7	0.9	1.4	3.1	9.2	22.3	77.7	29.7
	06 - 07	0.0	0.0	0.0	0.4	0.7	0.7	2.2	5.6	11.2	25.7	74.3	55.2
	07 - 08	0.0	0.0	0.0	0.4	0.8	0.8	1.6	3.9	10.9	24.1	75.9	57.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.0	9.1	21.1	78.9	54.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	7.4	19.0	81.0	57.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	25.0	75.0	96.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.0	10.7	89.3	57.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	10.7	89.3	54.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9	6.8	93.2	56.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	6.7	93.3	55.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	5.5	94.5	54.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.0	5.1	94.9	57.8
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	6.8	93.2	80.3	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.5	

		Visibility (m) October											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	1.6	2.4	2.4	3.2	5.6	7.2	26.4	73.6	79.8
	05 - 06	0.0	0.0	0.0	2.5	3.7	3.9	5.1	9.8	16.6	33.1	66.9	42.6
	06 - 07	0.0	0.0	0.3	2.0	4.5	5.1	8.4	14.0	23.3	36.0	64.0	42.6
	07 - 08	0.0	0.0	0.0	2.6	4.9	6.0	6.4	11.7	19.9	33.8	66.2	57.1
	08 - 09	0.0	0.0	0.0	0.7	2.0	3.4	5.1	10.2	18.4	34.5	65.5	52.7
	09 - 10	0.0	0.0	0.0	0.3	0.7	2.0	3.1	9.2	17.7	32.3	67.7	52.6
	10 - 11	0.0	0.0	0.0	0.9	0.9	2.7	6.3	10.8	24.3	33.3	66.7	82.1
	11 - 12	0.0	0.0	0.0	1.1	1.7	1.7	1.7	5.7	10.2	26.1	73.9	71.6
	12 - 13	0.0	0.0	0.0	0.7	1.0	1.0	2.1	6.6	12.2	28.0	72.0	53.9
	13 - 14	0.0	0.0	0.0	0.7	1.4	1.4	2.4	5.1	8.5	20.8	79.2	52.7
	14 - 15	0.0	0.0	0.0	1.1	1.1	1.1	1.1	4.6	7.8	21.6	78.4	54.4
	15 - 16	0.0	0.0	0.3	1.0	1.7	1.7	2.1	4.5	7.6	19.0	81.0	53.4
	16 - 17	0.0	0.0	0.4	2.1	2.1	2.1	2.5	3.9	6.1	19.6	80.4	54.8
	17 - 18	0.0	0.0	0.6	2.2	2.2	2.2	2.8	5.6	6.7	17.2	82.8	71.0
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	96.1	

		Visibility (m) November											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.8
	05 - 06	0.0	0.0	0.0	1.1	4.3	4.3	5.9	9.1	17.7	34.4	65.6	69.0
	06 - 07	0.0	0.0	0.0	2.1	3.8	4.8	6.2	11.5	21.0	37.7	62.3	30.2
	07 - 08	0.0	0.0	0.0	1.6	3.3	4.9	6.1	12.7	24.1	38.0	62.0	59.2
	08 - 09	0.0	0.0	0.0	1.0	2.4	3.1	5.2	12.6	23.8	36.4	63.6	52.3
	09 - 10	0.0	0.0	0.0	1.1	2.5	2.8	3.9	14.6	25.3	36.7	63.3	53.2
	10 - 11	0.0	0.0	0.0	0.7	1.7	2.4	4.2	9.4	17.8	34.1	65.9	52.2
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	27.3	72.7	98.2
	12 - 13	0.0	0.0	0.0	0.8	1.5	1.9	2.3	7.9	16.6	32.1	67.9	55.8
	13 - 14	0.0	0.0	0.0	0.0	0.4	1.4	1.4	5.0	16.0	30.9	69.1	53.0
	14 - 15	0.0	0.0	0.0	1.1	1.1	1.8	2.6	5.1	14.7	30.1	69.9	54.7
	15 - 16	0.0	0.0	0.0	0.4	0.4	0.4	1.1	5.7	15.1	32.6	67.4	53.5
	16 - 17	0.0	0.0	0.0	0.7	1.5	1.5	1.5	4.8	11.4	27.8	72.2	54.5
	17 - 18	0.0	0.0	0.0	0.0	0.7	1.1	1.9	4.1	10.5	27.3	72.7	55.5
18 - 19	0.0	0.0	0.0	1.7	4.3	4.3	4.3	7.0	7.0	23.5	76.5	80.8	

		Visibility (m) December											
		< 50	< 100	< 150	< 350	< 600	< 800	< 1500	< 3000	< 5000	< 8000	≥ 8000	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	0.0	0.6	2.9	3.5	3.5	8.1	16.8	28.9	71.1	72.1
	06 - 07	0.0	0.0	0.0	1.7	3.5	3.5	4.5	10.2	16.7	31.7	68.3	35.3
	07 - 08	0.0	0.0	0.0	2.4	3.6	3.6	5.6	13.3	21.3	33.7	66.3	59.8
	08 - 09	0.0	0.0	0.0	1.9	2.3	3.0	4.2	12.1	20.8	32.1	67.9	57.3
	09 - 10	0.0	0.0	0.0	0.3	1.4	2.1	3.8	12.2	20.5	33.7	66.3	53.5
	10 - 11	0.0	0.0	0.0	0.7	2.5	2.9	3.9	10.7	19.3	32.1	67.9	54.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	22.2	77.8	98.5
	12 - 13	0.0	0.0	0.0	0.4	1.8	1.8	1.8	9.4	16.3	28.3	71.7	55.5
	13 - 14	0.0	0.0	0.0	1.0	1.7	1.7	2.8	9.0	17.6	27.0	73.0	53.4
	14 - 15	0.0	0.0	0.0	1.1	1.5	2.7	3.0	9.1	16.3	26.6	73.4	57.6
	15 - 16	0.0	0.0	0.4	1.8	2.9	2.9	3.7	8.4	17.2	29.3	70.7	56.0
	16 - 17	0.0	0.0	0.0	1.2	1.6	1.6	2.5	6.6	12.8	29.6	70.4	60.8
	17 - 18	0.0	0.0	0.0	0.9	1.3	1.3	1.8	4.5	11.2	26.8	73.2	63.9
18 - 19	0.0	0.0	0.0	2.2	4.3	4.3	4.3	6.5	16.3	32.6	67.4	85.2	

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 3.6% 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								
		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
Time (UTC)	04 - 05	0.0	0.1	0.4	1.3	3.6	5.5	7.4	51.0	82.9
	05 - 06	0.1	0.5	1.8	3.4	6.3	8.5	10.8	51.2	48.9
	06 - 07	0.2	1.0	2.9	5.0	9.0	12.3	15.1	53.4	49.4
	07 - 08	0.1	0.8	2.2	3.9	7.1	9.8	12.7	52.4	59.2
	08 - 09	0.2	0.8	2.6	4.1	7.3	9.7	11.9	51.7	56.5
	09 - 10	0.2	1.1	2.8	4.4	7.0	9.6	11.5	50.2	56.2
	10 - 11	0.0	1.0	3.5	6.4	11.0	14.7	18.1	54.8	80.6
	11 - 12	0.0	0.1	0.6	0.8	1.3	1.7	2.1	47.0	75.4
	12 - 13	0.0	0.3	1.6	2.9	4.6	5.9	7.5	49.4	55.8
	13 - 14	0.1	0.3	1.2	2.6	4.0	5.0	6.4	50.9	56.1
	14 - 15	0.0	0.2	1.0	2.0	3.4	4.2	5.3	51.3	56.8
	15 - 16	0.1	0.2	0.9	1.8	3.0	4.1	5.1	52.3	56.0
	16 - 17	0.1	0.4	0.8	1.6	2.6	3.7	4.8	52.2	57.7
	17 - 18	0.1	0.6	1.3	2.3	3.9	5.1	6.8	53.8	73.4
18 - 19	0.0	0.4	1.3	2.5	4.7	6.4	8.3	56.8	93.5	

3.2.2. Monthly Ceiling 10 Years

Example (dark shading): In the 10 years period 11.7% 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								
		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
Time (Month)	January	0.4	2.1	6.6	10.4	17.7	24.1	27.8	49.2	80.9
	February	0.1	0.4	1.8	4.4	7.3	9.7	13.0	59.3	81.1
	March	0.0	0.2	1.0	1.6	2.7	3.6	4.8	55.2	76.2
	April	0.1	0.2	0.3	0.8	1.6	2.0	3.1	51.2	77.3
	May	0.0	0.1	0.3	0.5	0.8	1.4	2.2	45.4	76.6
	June	0.0	0.0	0.1	0.1	0.2	0.4	0.7	47.3	76.6
	July	0.0	0.0	0.0	0.1	0.4	0.6	0.9	47.5	76.5
	August	0.0	0.0	0.1	0.2	0.4	1.0	1.9	44.1	76.1
	September	0.0	0.3	1.0	2.0	4.6	6.5	7.9	51.7	76.6
	October	0.1	0.8	3.2	4.8	8.6	11.7	14.0	51.9	76.5
	November	0.1	1.1	2.9	6.4	11.7	14.8	18.9	58.3	76.7
	December	0.4	1.5	4.4	7.6	11.3	14.8	18.1	60.0	78.3

3.2.3. Hourly Ceiling per Season

Example (dark shading): In the 10 years period in winter 15.8% of all observations between 05 and 06 UTC showed a base height of the lowest cloud layer of BKN or OVC below 1000 ft.

		Ceiling (ft) Winter (Dec/Jan/Feb)									
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.6	1.3	5.5	9.5	15.8	21.4	25.8	50.4	73.6	
	06 - 07	0.4	1.6	4.9	8.6	14.7	20.0	24.1	56.0	41.9	
	07 - 08	0.2	1.9	4.7	8.5	14.2	20.2	24.9	56.2	64.9	
	08 - 09	0.8	2.0	6.1	8.6	14.7	20.2	24.1	55.9	63.4	
	09 - 10	0.7	2.8	6.4	9.5	14.8	20.4	23.9	54.4	59.1	
	10 - 11	0.0	1.3	4.7	8.4	13.6	19.0	22.7	56.1	60.9	
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.7	99.1	
	12 - 13	0.0	1.0	4.7	8.0	12.9	16.5	19.7	55.8	61.0	
	13 - 14	0.1	1.0	3.7	7.7	12.0	14.4	17.9	55.9	59.6	
	14 - 15	0.0	0.9	3.6	7.3	10.6	12.8	15.8	57.8	61.4	
	15 - 16	0.3	0.7	2.8	5.7	8.1	11.0	13.6	58.9	60.9	
	16 - 17	0.6	1.1	2.9	5.7	8.6	11.8	14.5	57.6	63.7	
	17 - 18	0.2	1.4	3.2	5.1	8.3	10.7	13.6	58.6	65.4	
	18 - 19	0.0	0.8	2.5	4.2	7.1	9.6	11.7	55.6	86.8	

		Ceiling (ft) Spring (Mar/Apr/May)									
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA	
	04 - 05	0.0	0.0	0.3	1.0	2.6	4.4	6.5	50.5	79.0	
	05 - 06	0.0	0.3	1.1	2.3	4.2	5.0	7.3	49.2	43.7	
	06 - 07	0.1	0.2	1.7	2.5	4.2	5.7	7.4	51.6	51.3	
	07 - 08	0.3	0.6	1.5	2.0	3.5	4.7	6.8	50.4	56.8	
	08 - 09	0.0	0.4	0.8	1.6	2.3	3.4	5.1	50.5	54.9	
	09 - 10	0.0	0.4	1.0	1.5	1.8	2.7	3.4	49.6	55.4	
	10 - 11	0.0	0.4	0.4	0.7	1.9	3.4	5.2	53.6	85.5	
	11 - 12	0.0	0.0	0.0	0.0	0.4	0.4	0.4	48.1	70.6	
	12 - 13	0.0	0.0	0.0	0.3	0.6	0.8	1.0	49.3	53.3	
	13 - 14	0.0	0.0	0.0	0.2	0.6	1.1	1.2	49.4	54.7	
	14 - 15	0.0	0.0	0.0	0.0	0.1	0.4	0.7	50.9	55.4	
	15 - 16	0.0	0.0	0.0	0.1	0.2	0.4	0.6	50.5	54.0	
	16 - 17	0.0	0.1	0.1	0.1	0.1	0.4	0.7	54.4	55.3	
	17 - 18	0.0	0.0	0.0	0.0	0.2	0.2	0.7	54.2	75.4	
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	1.2	51.2	95.5	

		Ceiling (ft) Summer (Jun/Jul/Aug)									
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA	
	04 - 05	0.0	0.0	0.2	0.4	1.1	1.9	3.0	50.8	69.3	
	05 - 06	0.0	0.0	0.2	0.5	1.0	1.8	3.0	49.9	30.3	
	06 - 07	0.0	0.1	0.3	0.4	1.3	2.1	3.4	48.3	58.9	
	07 - 08	0.0	0.0	0.1	0.1	0.2	1.1	2.2	49.1	55.5	
	08 - 09	0.0	0.0	0.0	0.1	0.4	0.7	1.2	46.5	53.6	
	09 - 10	0.0	0.0	0.0	0.1	0.1	0.1	0.7	45.1	54.8	
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9	97.7	
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.1	0.2	44.5	56.4	
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.1	0.2	41.8	53.9	
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.1	44.7	55.5	
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.1	0.1	43.2	54.9	
	15 - 16	0.0	0.0	0.0	0.1	0.2	0.2	0.2	46.8	54.8	
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.6	55.9	
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	82.9	
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4	99.2	

		Ceiling (ft) Autumn (Sep/Oct/Nov)								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.3	1.0	3.4	9.7	13.8	17.1	52.0	83.6
	05 - 06	0.1	1.0	2.8	5.3	11.0	15.1	17.8	55.3	48.5
	06 - 07	0.4	1.6	3.9	6.9	13.3	17.7	21.6	56.1	45.4
	07 - 08	0.1	1.0	3.3	6.3	12.4	16.2	20.2	54.9	59.7
	08 - 09	0.0	1.3	4.2	7.1	13.4	17.0	20.0	54.9	54.2
	09 - 10	0.0	1.4	4.3	7.2	12.1	16.4	19.4	52.2	55.4
	10 - 11	0.0	1.0	3.7	7.5	13.7	16.4	20.4	54.5	77.9
	11 - 12	0.0	0.5	2.5	3.2	5.1	6.4	7.8	49.7	76.1
	12 - 13	0.0	0.4	2.3	4.2	6.6	8.3	11.3	51.7	55.2
	13 - 14	0.1	0.4	1.3	2.9	4.3	5.8	7.7	54.0	54.5
	14 - 15	0.0	0.0	0.7	1.6	3.8	4.9	6.3	54.6	55.5
	15 - 16	0.0	0.1	1.0	2.1	4.3	5.9	7.2	54.0	54.5
	16 - 17	0.0	0.4	0.8	1.4	2.8	4.4	5.9	53.2	56.1
	17 - 18	0.2	0.5	1.1	2.4	4.0	5.6	8.1	53.0	69.6
	18 - 19	0.0	0.0	0.0	1.5	3.6	5.1	7.3	60.6	92.5

3.2.4. Hourly Ceiling per Month

Example (dark shading): In the 10 years period in January 23.1% of all observations between 05 and 06 UTC showed a base height of the lowest cloud layer of BKN or OVC below 1000 ft.

		Ceiling (ft) January								
		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	1.3	1.9	8.8	12.5	23.1	32.5	35.0	45.0	74.2
	06 - 07	0.0	2.0	6.0	10.9	19.8	29.8	33.2	49.6	43.7
	07 - 08	0.0	2.9	5.3	10.1	19.2	27.4	31.7	52.4	66.5
	08 - 09	1.0	2.4	9.1	12.0	21.6	31.3	36.5	45.7	66.5
	09 - 10	1.2	4.1	8.2	12.2	19.6	26.9	31.4	48.6	60.5
	10 - 11	0.0	2.2	7.0	10.1	17.6	25.6	30.4	49.3	63.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	99.2
	12 - 13	0.0	2.2	8.2	12.1	19.4	25.0	29.7	47.0	62.6
	13 - 14	0.0	1.7	7.0	10.4	17.0	20.9	26.5	48.3	62.9
	14 - 15	0.0	1.2	6.2	12.0	18.2	21.1	24.4	49.2	61.0
	15 - 16	0.4	0.9	4.3	7.4	11.7	16.0	17.7	52.4	62.7
	16 - 17	1.4	1.8	5.9	9.0	14.0	18.5	21.6	52.7	64.2
	17 - 18	0.0	2.4	4.8	8.6	13.9	18.2	20.6	48.3	66.3
	18 - 19	0.0	2.7	5.4	5.4	12.2	13.5	14.9	50.0	88.1

		Ceiling (ft) February								
		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	0.7	4.7	10.1	14.1	20.1	53.0	73.6
	06 - 07	0.0	0.3	2.8	5.4	10.7	12.9	17.7	59.9	43.8
	07 - 08	0.0	0.5	2.1	5.9	10.1	12.8	19.1	61.2	66.7
	08 - 09	0.0	0.0	1.5	4.1	8.2	11.3	14.9	62.4	65.6
	09 - 10	0.0	0.5	2.8	5.7	9.0	14.2	17.1	60.7	62.6
	10 - 11	0.0	0.5	1.4	5.8	9.2	12.6	15.9	60.9	63.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	99.5
	12 - 13	0.0	0.0	3.0	5.4	8.4	10.4	12.4	61.9	64.2
	13 - 14	0.0	0.5	1.9	6.0	7.9	9.3	10.7	60.0	61.9
	14 - 15	0.0	0.5	1.5	3.0	4.5	7.6	10.1	58.6	64.9
	15 - 16	0.5	1.0	1.9	3.8	4.3	5.7	8.1	55.5	62.9
	16 - 17	0.5	0.5	1.0	2.6	3.1	6.1	7.1	54.6	65.2
	17 - 18	0.5	0.5	1.0	1.5	2.1	2.1	6.2	60.5	65.4
	18 - 19	0.0	0.0	0.0	1.3	2.6	2.6	3.9	61.0	86.3

		Ceiling (ft) March								
		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	4.2	8.3	8.3	12.5	50.0	96.1
	05 - 06	0.0	0.0	2.2	3.5	7.4	9.1	10.0	56.7	62.7
	06 - 07	0.2	0.5	2.7	3.0	5.5	7.2	9.2	58.1	35.3
	07 - 08	0.0	0.0	2.3	3.4	6.4	7.2	9.5	55.3	57.4
	08 - 09	0.0	0.7	2.2	2.9	4.3	5.8	8.7	54.5	55.3
	09 - 10	0.0	0.7	1.7	2.8	3.5	5.2	6.3	53.1	53.5
	10 - 11	0.0	0.4	0.4	0.8	2.0	3.6	5.6	53.6	59.4
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.4	93.7
	12 - 13	0.0	0.0	0.0	1.0	1.7	2.1	2.4	52.4	53.2
	13 - 14	0.0	0.0	0.0	0.7	0.7	1.7	1.7	53.0	52.3
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.3	1.0	55.9	53.9
	15 - 16	0.0	0.0	0.0	0.3	0.7	1.0	1.0	55.6	53.9
	16 - 17	0.0	0.4	0.4	0.4	0.4	1.1	1.5	57.8	55.6
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.8	56.9	60.0
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	1.3	53.8	87.4

		Ceiling (ft) April								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.6	1.7	2.2	4.5	55.3	70.2
	05 - 06	0.0	0.3	0.5	2.1	3.6	3.6	6.2	48.5	35.0
	06 - 07	0.0	0.0	0.9	2.6	4.3	6.0	7.3	49.8	61.2
	07 - 08	0.8	1.5	1.9	1.9	3.4	4.6	7.3	48.1	56.3
	08 - 09	0.0	0.0	0.0	1.1	1.9	3.0	4.1	52.6	55.7
	09 - 10	0.0	0.0	0.8	1.2	1.6	1.9	3.1	51.9	57.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6	98.5
	11 - 12	0.0	0.0	0.0	0.0	0.8	0.8	0.8	51.2	59.0
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.4	0.4	52.8	55.2
	13 - 14	0.0	0.0	0.0	0.0	1.1	1.5	1.9	48.9	55.0
	14 - 15	0.0	0.0	0.0	0.0	0.4	0.8	0.8	50.8	57.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.7	49.6	55.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.8	57.9	55.7
	17 - 18	0.0	0.0	0.0	0.0	1.0	1.0	1.0	51.0	84.0
	18 - 19	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
	04 - 05	0.0	0.0	0.5	1.1	2.7	6.0	7.7	45.9	70.5
	05 - 06	0.0	0.5	1.0	1.9	3.1	4.1	7.0	45.8	33.1
	06 - 07	0.0	0.0	0.8	1.5	2.3	3.1	4.6	43.1	57.7
	07 - 08	0.0	0.4	0.4	0.7	0.7	2.2	3.7	48.0	56.6
	08 - 09	0.0	0.3	0.3	0.7	0.7	1.4	2.4	44.6	53.7
	09 - 10	0.0	0.4	0.4	0.4	0.4	0.7	0.7	43.8	55.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	99.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8	58.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	43.2	51.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	56.8
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.4	45.7	54.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.2	53.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.7	54.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.9	82.6
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.5

		Ceiling (ft) June								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.6	1.1	51.9	69.8
	05 - 06	0.0	0.0	0.5	0.5	1.2	1.7	2.9	49.3	31.7
	06 - 07	0.0	0.4	0.4	0.4	1.2	1.6	3.2	47.6	58.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.4	1.2	52.2	58.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	52.8
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9	54.2
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	98.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	56.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	55.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	55.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	54.7
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.7	53.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	57.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	83.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	99.2

		Ceiling (ft) July								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.5	2.1	3.1	4.2	47.6	69.2
	05 - 06	0.0	0.0	0.0	0.5	0.9	1.1	1.4	50.3	28.9
	06 - 07	0.0	0.0	0.0	0.4	1.6	2.0	2.3	47.3	58.7
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.7	1.1	49.3	55.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.4	0.7	48.2	54.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	1.1	45.8	57.4
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	96.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.3	56.5
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.8	53.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4	54.7
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	56.1
	15 - 16	0.0	0.0	0.0	0.4	0.7	0.7	0.7	47.6	55.6
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	57.3
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.5	82.4	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.2	

		Ceiling (ft) August								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.5	0.5	1.0	2.1	3.6	52.8	68.9
	05 - 06	0.0	0.0	0.2	0.7	0.9	2.6	4.6	50.1	30.5
	06 - 07	0.0	0.0	0.4	0.4	1.2	2.8	4.8	50.0	60.0
	07 - 08	0.0	0.0	0.3	0.3	0.7	2.1	4.2	46.4	53.4
	08 - 09	0.0	0.0	0.0	0.3	1.0	1.7	2.8	46.0	53.7
	09 - 10	0.0	0.0	0.0	0.3	0.3	0.3	1.0	42.7	52.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.7	98.1
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.4	0.7	39.3	56.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.3	0.7	37.7	52.9
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.4	40.4	56.5
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.4	0.4	41.4	54.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	54.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	53.4
17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	83.2	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	99.4	

		Ceiling (ft) September								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.6	2.3	8.5	10.2	14.2	50.0	70.7
	05 - 06	0.0	0.2	1.0	2.9	7.2	11.2	12.9	55.0	30.3
	06 - 07	0.0	1.1	3.4	4.5	9.8	13.3	15.9	55.7	56.0
	07 - 08	0.0	0.4	1.6	3.5	11.4	16.1	20.0	49.0	57.5
	08 - 09	0.0	0.7	2.6	4.4	8.0	12.0	13.9	54.7	54.3
	09 - 10	0.0	0.8	1.9	4.3	6.2	9.7	10.5	50.8	57.0
	10 - 11	0.0	0.0	0.0	10.5	15.8	15.8	15.8	52.6	96.8
	11 - 12	0.0	0.0	0.8	1.2	2.4	3.6	4.8	48.6	58.2
	12 - 13	0.0	0.0	0.7	0.7	1.5	1.5	2.2	50.0	54.7
	13 - 14	0.0	0.0	0.0	0.0	0.4	0.4	0.8	51.5	56.0
	14 - 15	0.0	0.0	0.0	0.0	0.4	0.4	1.1	47.4	55.7
	15 - 16	0.0	0.0	0.0	0.0	0.4	0.4	0.4	52.6	54.7
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.4	0.4	50.4	57.3
17 - 18	0.0	0.0	0.0	0.0	0.9	0.9	0.9	57.3	80.5	
18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.5	

		Ceiling (ft) October								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.8	1.7	5.0	11.6	19.0	21.5	54.5	80.5
	05 - 06	0.3	1.5	4.4	6.1	12.9	17.8	21.3	55.3	44.8
	06 - 07	0.6	1.8	5.1	6.9	14.4	19.8	24.6	52.6	46.3
	07 - 08	0.0	0.4	4.8	6.4	12.0	16.5	18.9	56.2	59.8
	08 - 09	0.0	1.4	5.3	7.8	14.2	18.5	21.7	51.6	54.7
	09 - 10	0.0	1.0	5.6	8.7	13.6	18.2	22.0	50.3	53.9
	10 - 11	0.0	1.9	3.7	7.4	11.1	14.8	17.6	49.1	82.6
	11 - 12	0.0	1.2	4.6	5.8	8.7	10.4	11.6	50.9	72.1
	12 - 13	0.0	0.4	3.2	4.2	6.3	7.7	9.9	50.4	54.2
	13 - 14	0.3	0.7	1.7	3.5	4.5	5.6	7.6	50.0	53.5
	14 - 15	0.0	0.0	1.1	1.4	3.2	4.3	5.0	53.0	55.0
	15 - 16	0.0	0.0	0.7	1.1	3.2	4.6	5.3	50.0	54.5
	16 - 17	0.0	0.4	0.4	1.1	1.8	3.6	4.4	52.4	55.6
	17 - 18	0.6	0.6	1.7	2.3	2.8	3.4	4.5	48.3	71.6
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	4.3	52.2	96.3

		Ceiling (ft) November								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	99.8
	05 - 06	0.0	1.7	3.9	9.6	16.3	19.1	22.5	56.2	70.3
	06 - 07	0.5	1.8	3.3	8.6	14.6	18.9	22.7	59.3	34.0
	07 - 08	0.4	2.2	3.5	9.1	13.9	16.1	21.7	60.0	61.7
	08 - 09	0.0	1.8	4.7	9.0	18.0	20.5	24.5	58.3	53.7
	09 - 10	0.0	2.2	5.2	8.2	16.1	21.0	25.1	55.4	55.5
	10 - 11	0.0	0.7	4.0	7.3	14.5	17.1	21.8	56.7	54.2
	11 - 12	0.0	0.0	9.1	9.1	9.1	9.1	18.2	54.5	98.2
	12 - 13	0.0	0.8	3.1	7.7	12.4	16.2	22.4	54.8	56.8
	13 - 14	0.0	0.4	2.2	5.1	7.9	11.2	14.4	60.6	53.8
	14 - 15	0.0	0.0	1.1	3.4	8.0	10.2	12.9	63.6	56.0
	15 - 16	0.0	0.4	2.2	5.1	9.5	12.7	16.0	59.6	54.2
	16 - 17	0.0	0.7	1.9	3.0	6.3	9.0	12.7	56.7	55.3
	17 - 18	0.0	0.8	1.2	3.5	6.2	9.2	13.8	54.2	56.7
	18 - 19	0.0	0.0	0.0	1.8	4.5	6.3	8.1	64.0	81.5

		Ceiling (ft) December								
Time (UTC)		< 200	< 300	< 500	< 700	< 1000	< 1200	< 1500	≥ 1500	NA
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.6	1.8	6.6	10.8	13.8	17.4	22.2	53.3	73.1
	06 - 07	1.0	2.3	5.5	9.1	13.3	17.0	21.1	58.5	38.2
	07 - 08	0.4	2.1	6.3	9.2	13.0	19.7	23.5	55.5	61.6
	08 - 09	1.2	3.1	7.0	9.3	14.0	17.8	20.9	59.3	58.4
	09 - 10	0.7	3.6	7.5	10.0	14.9	19.2	22.4	54.8	54.7
	10 - 11	0.0	1.1	5.1	8.8	13.6	18.4	21.3	58.1	56.1
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	98.5
	12 - 13	0.0	0.7	3.0	6.3	10.7	13.7	16.7	58.9	56.5
	13 - 14	0.4	0.7	2.5	6.7	11.0	13.1	16.3	59.0	54.4
	14 - 15	0.0	0.8	2.7	6.3	8.2	9.0	12.1	65.2	58.7
	15 - 16	0.0	0.4	2.3	5.6	7.9	10.9	14.3	67.3	57.1
	16 - 17	0.0	0.8	1.7	5.1	8.1	10.2	14.0	64.8	61.9
	17 - 18	0.0	1.4	3.6	5.0	8.6	11.3	13.6	66.5	64.4
	18 - 19	0.0	0.0	2.3	5.7	6.8	12.5	15.9	55.7	85.8

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 36.1% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

		10 Years							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.4	0.9	4.6	9.4	18.2	91.6	82.8	
	05 - 06	1.5	3.5	8.5	14.8	23.2	87.3	47.8	
	06 - 07	3.2	6.5	13.5	21.6	30.4	81.5	47.3	
	07 - 08	2.7	5.3	11.1	18.4	26.3	83.8	57.8	
	08 - 09	2.5	5.6	11.2	17.3	25.5	83.8	55.1	
	09 - 10	1.9	4.9	10.1	16.0	24.3	84.8	55.2	
	10 - 11	3.5	7.9	16.6	26.2	36.1	76.4	79.7	
	11 - 12	0.2	0.8	1.7	3.3	8.4	95.6	75.3	
	12 - 13	0.9	2.7	6.7	10.9	18.1	88.4	55.3	
	13 - 14	0.8	2.2	5.7	9.8	16.2	90.1	55.5	
	14 - 15	0.9	2.1	5.2	9.0	15.8	90.7	56.3	
	15 - 16	1.1	2.2	5.2	8.9	15.5	90.8	55.4	
	16 - 17	1.1	2.0	4.4	8.1	15.1	91.5	57.2	
	17 - 18	1.4	2.9	6.0	10.4	18.6	88.9	72.9	
18 - 19	3.3	4.5	8.8	13.0	23.4	87.2	93.3		

3.3.2. Monthly Visibility and Ceiling 10 Years

Example (dark shading): In the 10 years period 37.6% 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	7.8	14.9	26.7	39.6	49.1	65.1	79.0	
	February	2.7	5.1	12.2	18.8	26.8	83.1	80.5	
	March	1.0	2.3	5.9	10.5	21.3	87.6	75.9	
	April	0.2	0.6	2.4	5.8	11.5	94.8	77.2	
	May	0.0	0.3	1.3	4.1	10.8	96.3	76.6	
	June	0.0	0.1	0.3	1.2	4.2	98.8	76.5	
	July	0.0	0.0	0.5	1.4	3.7	98.8	76.4	
	August	0.0	0.1	0.5	2.4	6.7	96.7	76.1	
	September	0.3	1.5	5.4	10.1	17.5	89.8	76.4	
	October	2.9	6.6	12.7	19.9	31.2	79.3	75.6	
	November	2.7	6.1	16.0	25.9	37.6	76.5	75.8	
	December	3.0	7.4	15.6	24.4	35.7	78.8	77.6	

3.3.3. Hourly Visibility and Ceiling per Season

Example (dark shading): In the 10 years period in winter 40.6% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

		Winter (Dec/Jan/Feb)							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	5.2	10.7	20.8	32.9	42.1	74.6	72.1	
	06 - 07	5.7	11.0	21.2	32.6	41.2	74.8	37.7	
	07 - 08	6.0	11.6	23.0	34.2	42.8	71.1	62.2	
	08 - 09	7.7	13.8	24.1	34.3	42.0	70.1	60.4	
	09 - 10	5.5	11.9	21.4	31.6	42.4	71.6	56.8	
	10 - 11	5.6	11.2	20.6	31.4	40.6	72.5	58.3	
	11 - 12	0.0	0.0	0.0	5.9	23.5	100.0	99.1	
	12 - 13	2.7	8.0	18.8	27.6	36.3	74.7	59.6	
	13 - 14	2.4	6.9	16.4	25.0	34.0	77.4	58.4	
	14 - 15	2.8	6.9	15.5	24.3	34.7	77.8	60.0	
	15 - 16	3.9	7.2	14.9	23.5	34.2	77.5	59.0	
	16 - 17	3.7	6.3	13.5	21.6	33.5	79.4	62.3	
	17 - 18	2.9	6.3	12.1	19.3	31.1	80.0	64.2	
18 - 19	4.4	6.7	12.3	18.3	29.4	82.5	86.0		

		Spring (Mar/Apr/May)							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.3	4.1	10.1	21.2	92.2	79.0	
	05 - 06	0.6	1.6	6.4	12.2	22.1	88.7	43.2	
	06 - 07	1.6	3.4	7.4	14.1	25.4	85.9	50.2	
	07 - 08	1.2	3.0	6.0	11.9	21.5	88.9	56.3	
	08 - 09	1.1	2.5	5.1	9.7	19.9	89.2	54.1	
	09 - 10	0.5	1.6	3.3	7.4	17.2	91.5	55.1	
	10 - 11	0.0	0.7	4.8	12.3	24.2	85.9	85.4	
	11 - 12	0.0	0.0	0.6	1.7	6.6	97.8	70.5	
	12 - 13	0.0	0.1	1.4	3.3	9.7	96.2	53.3	
	13 - 14	0.0	0.0	1.3	3.2	7.8	96.2	54.6	
	14 - 15	0.0	0.1	0.7	2.3	7.8	97.0	55.4	
	15 - 16	0.0	0.1	0.8	2.4	7.1	97.2	54.0	
	16 - 17	0.0	0.1	1.0	2.7	8.1	96.4	55.3	
	17 - 18	0.0	0.2	1.1	3.1	8.8	96.3	75.3	
18 - 19	0.0	0.0	1.2	2.4	11.0	93.9	95.5		

		Summer (Jun/Jul/Aug)							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.2	1.1	3.5	9.5	95.9	69.2	
	05 - 06	0.0	0.2	1.0	3.5	8.7	96.5	29.9	
	06 - 07	0.0	0.3	1.6	4.3	8.7	97.0	58.8	
	07 - 08	0.0	0.1	0.5	3.2	7.2	96.8	55.3	
	08 - 09	0.0	0.0	0.5	1.8	5.6	97.4	53.4	
	09 - 10	0.0	0.0	0.2	1.1	5.0	97.7	54.7	
	10 - 11	0.0	0.0	0.0	0.0	4.7	100.0	97.7	
	11 - 12	0.0	0.0	0.1	0.5	3.5	98.6	56.3	
	12 - 13	0.0	0.0	0.1	0.4	3.1	98.8	53.7	
	13 - 14	0.0	0.0	0.0	0.5	2.3	99.3	55.4	
	14 - 15	0.0	0.0	0.0	0.6	1.6	99.5	54.9	
	15 - 16	0.0	0.0	0.4	0.6	2.4	99.5	54.8	
	16 - 17	0.0	0.0	0.0	0.6	2.0	99.5	55.9	
	17 - 18	0.0	0.0	0.0	0.0	1.3	99.7	82.9	
18 - 19	0.0	0.0	0.0	0.0	0.0	100.0	99.2		

		Autumn (Sep/Oct/Nov)							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	1.6	3.0	11.8	19.4	30.6	82.6	83.3	
	05 - 06	2.8	6.2	14.4	23.3	33.7	80.3	46.5	
	06 - 07	4.2	8.9	19.1	28.9	38.7	73.7	42.1	
	07 - 08	4.0	7.5	17.2	27.3	37.1	76.0	57.5	
	08 - 09	2.2	7.4	17.3	26.2	37.0	76.3	52.7	
	09 - 10	1.7	6.6	15.9	25.0	33.5	77.5	54.1	
	10 - 11	2.4	7.3	18.5	28.4	38.9	75.1	76.8	
	11 - 12	0.7	3.2	5.9	10.2	18.9	87.0	75.8	
	12 - 13	1.0	3.5	8.5	15.0	26.3	81.8	54.5	
	13 - 14	1.1	2.4	5.9	11.8	22.1	86.4	53.8	
	14 - 15	1.0	1.9	5.7	10.6	21.7	86.8	54.7	
	15 - 16	0.7	2.0	6.0	10.9	20.5	87.4	53.7	
	16 - 17	1.2	2.1	4.8	9.7	20.0	88.8	55.4	
	17 - 18	1.4	2.7	6.2	11.8	21.9	87.1	68.9	
18 - 19	3.5	3.5	7.7	11.2	22.4	90.2	92.1		

3.3.4. Hourly Visibility and Ceiling per Month

Example (dark shading): In the 10 years period in January 50.4% of all observations between 10 and 11 UTC showed a visibility below 8000 m or a base height of the lowest cloud layer of BKN or OVC below 2000 ft.

		January							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
05 - 06		9.6	17.4	31.5	46.1	54.5	65.7	71.3	
06 - 07		9.5	16.9	29.7	46.0	52.2	66.2	36.9	
07 - 08		8.6	15.5	31.3	45.1	51.5	63.5	62.4	
08 - 09		12.6	21.4	34.5	49.6	57.1	58.4	61.6	
09 - 10		9.9	17.6	28.7	41.5	51.8	61.0	56.1	
10 - 11		10.2	17.6	28.1	42.6	50.4	60.5	58.7	
11 - 12		0.0	0.0	0.0	0.0	0.0	100.0	99.2	
12 - 13		4.5	13.8	26.7	40.9	49.0	62.3	60.2	
13 - 14		4.1	11.4	23.7	37.1	47.3	66.1	60.5	
14 - 15		3.9	11.6	24.4	36.8	48.1	67.4	58.4	
15 - 16		6.7	11.5	22.6	33.7	46.0	66.7	59.4	
16 - 17		7.6	12.6	21.8	31.9	45.4	67.2	61.6	
17 - 18		5.8	11.2	19.7	28.3	42.2	70.4	64.0	
18 - 19		8.5	13.4	20.7	23.2	32.9	78.0	86.8	

		February							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
05 - 06		1.3	3.9	13.2	23.0	30.9	80.9	73.0	
06 - 07		2.7	6.4	16.1	23.0	30.6	82.1	41.5	
07 - 08		5.6	8.1	17.7	25.8	36.4	76.3	64.9	
08 - 09		6.7	9.5	19.0	26.2	31.4	77.1	62.8	
09 - 10		3.7	7.3	15.5	23.7	34.7	79.0	61.2	
10 - 11		3.7	6.5	15.7	23.1	30.1	79.6	61.7	
11 - 12		0.0	0.0	0.0	0.0	33.3	100.0	99.5	
12 - 13		2.0	5.4	13.2	18.5	24.9	84.9	63.7	
13 - 14		0.9	4.2	10.2	15.3	22.7	86.6	61.7	
14 - 15		1.5	3.0	7.0	14.5	21.5	83.0	64.5	
15 - 16		1.9	3.8	8.5	13.3	22.7	85.3	62.6	
16 - 17		1.5	2.0	5.5	12.1	19.1	90.5	64.7	
17 - 18		1.5	2.0	5.1	10.6	19.2	87.9	64.9	
18 - 19		0.0	0.0	5.2	6.5	14.3	93.5	86.3	

		March							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.0	8.3	12.5	12.5	87.5	96.1	
05 - 06		1.7	3.8	12.6	18.1	29.8	80.7	61.6	
06 - 07		3.1	6.0	11.3	19.7	32.2	80.8	32.9	
07 - 08		2.9	6.2	12.0	18.2	30.3	82.1	55.8	
08 - 09		2.8	5.9	10.5	16.7	31.0	80.8	53.7	
09 - 10		1.4	3.4	7.2	11.9	26.6	84.6	52.7	
10 - 11		0.0	0.8	5.1	13.0	25.2	85.0	59.0	
11 - 12		0.0	0.0	0.0	0.0	7.7	100.0	93.7	
12 - 13		0.0	0.3	3.1	5.9	17.2	90.3	53.2	
13 - 14		0.0	0.0	2.4	6.1	13.8	91.6	52.1	
14 - 15		0.0	0.0	1.4	3.8	12.9	93.7	53.9	
15 - 16		0.0	0.3	1.7	3.5	12.2	94.1	53.9	
16 - 17		0.0	0.4	2.2	4.4	13.1	93.1	55.6	
17 - 18		0.0	0.4	1.6	4.4	12.0	94.0	59.8	
18 - 19		0.0	0.0	1.3	2.6	11.5	93.6	87.4	

		April							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.0	2.8	8.4	22.3	92.7	70.2	
05 - 06		0.5	1.0	4.8	10.5	21.4	89.8	34.7	
06 - 07		0.9	1.7	5.5	11.9	21.3	89.4	60.8	
07 - 08		0.8	1.9	4.2	9.9	17.2	90.8	56.3	
08 - 09		0.4	1.1	3.7	6.6	15.5	91.9	54.8	
09 - 10		0.0	0.8	1.9	6.9	12.4	95.4	56.8	
10 - 11		0.0	0.0	0.0	0.0	11.1	100.0	98.5	
11 - 12		0.0	0.0	1.2	3.2	7.7	96.8	58.8	
12 - 13		0.0	0.0	0.7	2.6	5.6	98.9	55.2	
13 - 14		0.0	0.0	1.5	3.3	4.4	97.8	55.0	
14 - 15		0.0	0.4	0.8	2.0	4.3	98.4	57.7	
15 - 16		0.0	0.0	0.7	2.2	3.3	97.8	55.0	
16 - 17		0.0	0.0	0.4	1.9	4.5	97.8	55.5	
17 - 18		0.0	0.0	1.0	3.1	6.2	99.0	83.8	
18 - 19		0.0	0.0	0.0	0.0	0.0	100.0	99.8	

		May							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.5	4.9	11.5	21.3	92.3	70.5	
05 - 06		0.0	1.0	4.3	10.4	18.3	92.3	33.1	
06 - 07		0.0	0.8	3.0	7.2	18.5	90.9	57.3	
07 - 08		0.0	0.7	1.5	7.4	16.7	94.1	56.6	
08 - 09		0.0	0.3	1.0	5.6	12.9	95.1	53.7	
09 - 10		0.0	0.4	0.4	2.9	11.7	95.3	55.8	
10 - 11		0.0	0.0	0.0	0.0	0.0	100.0	99.0	
11 - 12		0.0	0.0	0.0	0.4	5.4	98.4	58.5	
12 - 13		0.0	0.0	0.3	1.3	6.0	99.3	51.5	
13 - 14		0.0	0.0	0.0	0.0	4.5	99.6	56.6	
14 - 15		0.0	0.0	0.0	1.1	5.7	98.9	54.8	
15 - 16		0.0	0.0	0.0	1.4	5.5	99.7	53.2	
16 - 17		0.0	0.0	0.4	1.8	6.8	98.2	54.7	
17 - 18		0.0	0.0	0.0	0.0	3.7	99.1	82.6	
18 - 19		0.0	0.0	0.0	0.0	0.0	100.0	99.5	

		June							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
Time (UTC)		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
04 - 05		0.0	0.0	0.0	1.6	7.1	98.4	69.7	
05 - 06		0.0	0.5	1.2	3.1	7.7	97.6	31.2	
06 - 07		0.0	0.4	1.6	4.0	7.9	96.4	57.8	
07 - 08		0.0	0.0	0.0	2.4	7.1	97.2	57.8	
08 - 09		0.0	0.0	0.0	0.7	3.5	98.6	52.7	
09 - 10		0.0	0.0	0.0	0.4	3.6	98.9	54.0	
10 - 11		0.0	0.0	0.0	0.0	0.0	100.0	98.3	
11 - 12		0.0	0.0	0.4	0.4	3.4	99.6	56.3	
12 - 13		0.0	0.0	0.0	0.0	2.2	99.6	55.2	
13 - 14		0.0	0.0	0.0	0.4	2.6	99.6	55.5	
14 - 15		0.0	0.0	0.0	0.4	1.5	100.0	54.7	
15 - 16		0.0	0.0	0.4	0.4	2.5	100.0	53.8	
16 - 17		0.0	0.0	0.0	0.4	1.6	100.0	57.2	
17 - 18		0.0	0.0	0.0	0.0	1.0	99.0	83.2	
18 - 19		0.0	0.0	0.0	0.0	0.0	100.0	99.2	

		July							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	2.1	4.2	6.8	95.8	69.0	
	05 - 06	0.0	0.0	0.9	2.5	6.3	98.2	28.2	
	06 - 07	0.0	0.0	1.9	2.7	5.4	98.4	58.5	
	07 - 08	0.0	0.0	0.4	1.8	3.6	98.2	55.0	
	08 - 09	0.0	0.0	0.3	1.4	3.5	99.0	53.9	
	09 - 10	0.0	0.0	0.4	1.5	4.2	98.9	57.4	
	10 - 11	0.0	0.0	0.0	0.0	10.0	100.0	96.8	
	11 - 12	0.0	0.0	0.0	0.4	3.7	98.9	56.5	
	12 - 13	0.0	0.0	0.3	0.3	3.1	99.3	53.2	
	13 - 14	0.0	0.0	0.0	0.4	2.1	99.6	54.4	
	14 - 15	0.0	0.0	0.0	0.4	0.7	100.0	56.0	
	15 - 16	0.0	0.0	0.7	1.1	2.5	99.3	55.6	
	16 - 17	0.0	0.0	0.0	0.8	1.9	99.2	57.1	
	17 - 18	0.0	0.0	0.0	0.0	1.8	100.0	82.4	
	18 - 19	0.0	0.0	0.0	0.0	0.0	100.0	99.2	

		August							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.5	1.0	4.7	14.5	93.8	68.9	
	05 - 06	0.0	0.2	0.9	4.9	12.1	93.7	30.5	
	06 - 07	0.0	0.4	1.2	6.4	12.9	96.0	59.8	
	07 - 08	0.0	0.3	1.0	5.2	10.7	95.2	53.2	
	08 - 09	0.0	0.0	1.0	3.1	9.8	94.8	53.7	
	09 - 10	0.0	0.0	0.3	1.4	7.2	95.6	52.7	
	10 - 11	0.0	0.0	0.0	0.0	0.0	100.0	97.9	
	11 - 12	0.0	0.0	0.0	0.7	3.3	97.4	56.1	
	12 - 13	0.0	0.0	0.0	0.7	3.8	97.6	52.7	
	13 - 14	0.0	0.0	0.0	0.7	2.2	98.5	56.5	
	14 - 15	0.0	0.0	0.0	1.1	2.5	98.6	54.0	
	15 - 16	0.0	0.0	0.0	0.4	2.1	99.3	54.8	
	16 - 17	0.0	0.0	0.0	0.7	2.4	99.3	53.4	
	17 - 18	0.0	0.0	0.0	0.0	1.0	100.0	83.2	
	18 - 19	0.0	0.0	0.0	0.0	0.0	100.0	99.4	

		September							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	1.1	1.7	9.6	16.3	27.5	84.3	70.3	
	05 - 06	0.9	2.3	8.9	17.6	27.2	85.9	28.8	
	06 - 07	0.7	4.8	11.8	19.9	30.3	81.9	54.8	
	07 - 08	0.8	2.7	13.0	22.6	30.7	81.2	56.5	
	08 - 09	0.0	3.2	9.4	17.3	26.4	84.5	53.8	
	09 - 10	0.0	1.9	6.2	12.0	21.2	86.5	56.8	
	10 - 11	0.0	0.0	15.0	20.0	25.0	75.0	96.7	
	11 - 12	0.0	0.8	2.4	5.9	11.5	92.5	57.8	
	12 - 13	0.0	0.7	1.5	3.7	11.0	92.6	54.7	
	13 - 14	0.0	0.0	0.8	2.3	7.2	95.8	56.0	
	14 - 15	0.0	0.0	0.4	1.5	7.1	95.9	55.5	
	15 - 16	0.0	0.0	0.4	0.7	5.5	97.8	54.5	
	16 - 17	0.0	0.0	0.4	2.0	5.5	97.7	57.3	
	17 - 18	0.0	0.0	0.8	1.7	6.7	95.8	80.2	
	18 - 19	0.0	0.0	0.0	0.0	0.0	100.0	99.5	

		October							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	2.4	4.8	15.2	24.0	35.2	80.0	79.8	
	05 - 06	4.2	8.9	17.3	27.4	38.3	76.8	42.3	
	06 - 07	5.5	12.2	21.9	33.8	40.2	70.4	41.8	
	07 - 08	6.0	10.9	18.7	27.7	38.6	74.2	56.9	
	08 - 09	3.4	9.8	19.3	28.8	40.3	72.2	52.4	
	09 - 10	2.0	8.5	17.3	27.5	38.0	73.9	52.4	
	10 - 11	2.6	8.8	16.7	28.1	37.7	72.8	81.6	
	11 - 12	1.7	6.3	10.8	15.9	29.0	79.5	71.6	
	12 - 13	1.0	4.8	8.9	15.5	30.2	79.0	53.1	
	13 - 14	1.7	3.4	6.5	11.2	23.8	85.4	52.6	
	14 - 15	1.1	2.1	6.3	9.8	23.5	84.6	54.0	
	15 - 16	1.7	2.8	6.2	9.7	20.7	86.2	53.2	
	16 - 17	2.1	2.8	4.6	8.2	21.6	87.9	54.5	
	17 - 18	2.8	4.4	6.1	7.8	18.3	88.3	71.0	
	18 - 19	0.0	0.0	0.0	4.2	4.2	100.0	96.1	

		November							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	100.0	99.8	
	05 - 06	4.3	9.6	21.3	28.7	39.9	73.9	68.7	
	06 - 07	5.2	8.8	21.3	30.6	42.9	71.3	29.7	
	07 - 08	5.3	8.9	19.9	31.7	42.3	72.4	59.0	
	08 - 09	3.1	9.0	22.8	32.2	43.9	72.7	51.8	
	09 - 10	2.8	8.9	23.5	34.5	40.2	73.0	53.2	
	10 - 11	2.4	7.3	19.4	29.2	40.3	76.0	52.0	
	11 - 12	0.0	9.1	9.1	18.2	27.3	81.8	98.2	
	12 - 13	1.9	4.9	15.1	26.0	37.7	73.6	55.8	
	13 - 14	1.4	3.5	10.2	21.2	34.3	78.8	52.8	
	14 - 15	1.8	3.7	10.3	20.2	34.2	80.1	54.7	
	15 - 16	0.4	3.2	11.4	22.1	35.0	78.6	53.3	
	16 - 17	1.5	3.3	9.1	18.6	31.8	81.4	54.3	
	17 - 18	1.1	2.6	8.6	19.1	31.1	82.4	55.5	
	18 - 19	4.3	4.3	9.5	12.9	26.7	87.9	80.7	

		December							
		Vis. (m)	<800	<1500	<3000	<5000	<8000	≥8000	NA
		Ceil. (ft)	<200	<500	<1000	<1500	<2000	≥2000	
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	100.0	
	05 - 06	4.0	9.8	16.7	28.2	39.1	78.2	71.9	
	06 - 07	4.5	9.2	17.2	27.4	39.3	77.1	35.2	
	07 - 08	4.0	10.8	19.5	30.7	39.8	74.1	59.5	
	08 - 09	4.1	10.5	18.7	27.0	36.7	74.9	56.9	
	09 - 10	2.8	10.1	19.1	28.1	39.2	76.0	53.5	
	10 - 11	2.9	8.9	17.5	27.5	39.6	77.9	54.8	
	11 - 12	0.0	0.0	0.0	11.1	33.3	100.0	98.5	
	12 - 13	1.8	4.7	15.9	22.5	33.3	78.3	55.5	
	13 - 14	2.1	5.2	14.8	22.1	31.0	80.0	53.2	
	14 - 15	2.7	5.3	13.3	19.4	31.6	84.0	57.6	
	15 - 16	2.9	5.8	12.7	22.1	32.2	81.5	55.5	
	16 - 17	1.6	3.7	11.9	19.3	33.7	82.3	60.8	
	17 - 18	1.3	5.3	10.7	18.2	30.7	82.7	63.7	
	18 - 19	4.3	6.5	10.8	23.7	38.7	77.4	85.0	

4. TEMPERATURE

4.1. Temperature

4.1.1. Temperature 10 Years

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

Example (dark shading): In the 10 years period 18.4% of all observations between 14 and 15 UTC showed a temperature between 5 and 9° C.

		Temperature (° C) 10 Years													
		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	1.2	6.4	21.1	40.9	28.6	1.5	0.2	0.0	0.0	82.9
	05 - 06	0.0	0.0	0.2	1.1	6.1	14.1	20.8	30.5	24.6	2.5	0.2	0.0	0.0	48.2
	06 - 07	0.0	0.0	0.3	2.6	11.0	23.7	22.7	19.5	16.5	3.6	0.2	0.0	0.0	47.6
	07 - 08	0.0	0.0	0.3	2.0	7.3	18.0	20.4	22.2	22.5	7.1	0.2	0.0	0.0	58.1
	08 - 09	0.0	0.0	0.1	1.3	6.4	16.4	21.2	22.0	22.3	9.9	0.4	0.1	0.0	55.4
	09 - 10	0.0	0.0	0.1	1.3	6.5	16.6	20.3	20.9	21.1	12.2	1.1	0.0	0.0	55.5
	10 - 11	0.0	0.0	0.1	2.1	12.2	31.6	32.6	15.8	3.6	2.0	0.1	0.0	0.0	79.8
	11 - 12	0.0	0.0	0.0	0.1	0.2	1.7	7.2	24.8	31.2	28.1	6.6	0.1	0.0	75.4
	12 - 13	0.0	0.0	0.0	0.6	4.4	13.4	17.5	21.3	20.0	16.1	6.5	0.2	0.0	55.6
	13 - 14	0.0	0.0	0.0	0.4	4.4	12.7	19.4	20.8	19.0	15.8	6.9	0.6	0.0	55.8
	14 - 15	0.0	0.0	0.0	0.4	4.3	13.1	18.4	19.6	19.5	16.4	7.6	0.7	0.0	56.6
	15 - 16	0.0	0.0	0.0	0.5	4.7	14.5	18.1	19.0	19.5	15.1	7.9	0.6	0.0	55.6
	16 - 17	0.0	0.0	0.0	0.5	5.2	14.6	19.3	19.0	18.7	15.3	6.9	0.4	0.0	57.4
	17 - 18	0.0	0.0	0.0	1.2	7.4	23.0	26.0	16.6	13.5	9.3	2.9	0.1	0.0	73.0
	18 - 19	0.0	0.0	0.2	2.2	12.2	36.3	34.2	10.2	2.4	1.8	0.4	0.0	0.0	93.3

4.1.2. Temperature per Month

Example (dark shading): In the 10 years period in January 25.7% of all observations between 14 and 15 UTC showed a temperature between 5 and 9° C.

		Temperature (° C) January													
		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
Time (UTC)	04 - 05	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
	05 - 06	0.0	0.0	1.1	8.6	32.0	41.7	13.1	2.9	0.6	0.0	0.0	0.0	0.0	71.8
	06 - 07	0.0	0.0	1.5	11.0	28.4	43.7	12.8	2.6	0.0	0.0	0.0	0.0	0.0	36.9
	07 - 08	0.0	0.0	1.7	10.4	30.7	42.0	12.6	2.6	0.0	0.0	0.0	0.0	0.0	62.7
	08 - 09	0.0	0.0	0.4	9.7	27.8	43.5	15.2	3.4	0.0	0.0	0.0	0.0	0.0	61.8
	09 - 10	0.0	0.0	0.4	7.8	27.1	45.0	16.0	3.0	0.7	0.0	0.0	0.0	0.0	56.6
	10 - 11	0.0	0.0	0.0	7.5	26.7	39.2	21.6	4.3	0.8	0.0	0.0	0.0	0.0	58.9
	11 - 12	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	0.0	0.0	0.0	0.0	0.0	99.2
	12 - 13	0.0	0.0	0.0	3.3	25.8	40.6	23.0	7.0	0.4	0.0	0.0	0.0	0.0	60.6
	13 - 14	0.0	0.0	0.0	2.0	24.6	38.1	27.9	7.0	0.4	0.0	0.0	0.0	0.0	60.6
	14 - 15	0.0	0.0	0.0	1.6	23.7	41.9	25.7	6.7	0.4	0.0	0.0	0.0	0.0	59.2
	15 - 16	0.0	0.0	0.0	2.8	26.0	42.8	22.4	5.6	0.4	0.0	0.0	0.0	0.0	59.7
	16 - 17	0.0	0.0	0.0	3.8	28.0	44.8	19.7	3.3	0.4	0.0	0.0	0.0	0.0	61.5
	17 - 18	0.0	0.0	0.0	4.9	26.8	48.7	16.5	3.1	0.0	0.0	0.0	0.0	0.0	63.9
	18 - 19	0.0	0.0	0.0	9.8	18.3	50.0	19.5	2.4	0.0	0.0	0.0	0.0	0.0	86.8

		Temperature (° C) February													
		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
Time (UTC)	04 - 05	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
	05 - 06	0.0	0.0	0.0	6.6	29.1	41.1	20.5	2.6	0.0	0.0	0.0	0.0	0.0	73.2
	06 - 07	0.0	0.0	0.3	7.0	27.7	43.5	20.4	1.2	0.0	0.0	0.0	0.0	0.0	41.7
	07 - 08	0.0	0.0	1.0	5.6	24.2	46.5	20.7	2.0	0.0	0.0	0.0	0.0	0.0	64.9
	08 - 09	0.0	0.0	0.5	1.4	18.8	47.6	28.4	2.9	0.5	0.0	0.0	0.0	0.0	63.1
	09 - 10	0.0	0.0	0.0	3.2	17.7	50.0	25.0	4.1	0.0	0.0	0.0	0.0	0.0	61.0
	10 - 11	0.0	0.0	0.0	0.9	16.7	45.4	29.2	7.9	0.0	0.0	0.0	0.0	0.0	61.7
	11 - 12	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	99.5
	12 - 13	0.0	0.0	0.0	1.0	11.2	42.4	32.7	11.2	1.5	0.0	0.0	0.0	0.0	63.7
	13 - 14	0.0	0.0	0.0	0.9	10.6	37.5	38.0	12.0	0.9	0.0	0.0	0.0	0.0	61.7
	14 - 15	0.0	0.0	0.0	1.0	9.5	39.7	35.2	13.1	1.5	0.0	0.0	0.0	0.0	64.7
	15 - 16	0.0	0.0	0.0	0.5	10.9	45.0	32.7	9.0	1.9	0.0	0.0	0.0	0.0	62.6
	16 - 17	0.0	0.0	0.0	0.0	15.1	40.2	36.2	7.0	1.5	0.0	0.0	0.0	0.0	64.7
	17 - 18	0.0	0.0	0.0	2.5	11.6	46.5	29.8	8.6	1.0	0.0	0.0	0.0	0.0	64.9
	18 - 19	0.0	0.0	0.0	3.9	9.1	49.4	29.9	6.5	1.3	0.0	0.0	0.0	0.0	86.3

		Temperature (° C) March													
		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA
Time (UTC)	04 - 05	0.0	0.0	0.0	0.0	16.7	33.3	45.8	4.2	0.0	0.0	0.0	0.0	0.0	96.1
	05 - 06	0.0	0.0	0.0	0.8	17.3	39.2	38.0	4.6	0.0	0.0	0.0	0.0	0.0	61.8
	06 - 07	0.0	0.0	0.0	1.2	14.2	43.6	35.2	5.5	0.2	0.0	0.0	0.0	0.0	33.1
	07 - 08	0.0	0.0	0.0	0.7	7.7	38.1	45.8	7.0	0.7	0.0	0.0	0.0	0.0	56.0
	08 - 09	0.0	0.0	0.0	0.0	3.5	33.7	48.1	13.0	1.8	0.0	0.0	0.0	0.0	54.0
	09 - 10	0.0	0.0	0.0	0.0	3.1	29.5	47.9	17.8	1.7	0.0	0.0	0.0	0.0	52.9
	10 - 11	0.0	0.0	0.0	0.0	2.0	28.8	42.8	24.0	2.0	0.4	0.0	0.0	0.0	59.7
	11 - 12	0.0	0.0	0.0	0.0	2.6	17.9	38.5	35.9	5.1	0.0	0.0	0.0	0.0	93.7
	12 - 13	0.0	0.0	0.0	0.0	0.7	18.1	40.1	36.2	4.5	0.3	0.0	0.0	0.0	53.7
	13 - 14	0.0	0.0	0.0	0.0	0.3	15.0	41.8	35.0	7.1	0.7	0.0	0.0	0.0	52.6
	14 - 15	0.0	0.0	0.0	0.0	0.4	14.8	38.5	36.0	10.2	0.0	0.0	0.0	0.0	54.4
	15 - 16	0.0	0.0	0.0	0.0	0.7	17.7	38.9	33.2	9.2	0.4	0.0	0.0	0.0	54.4
	16 - 17	0.0	0.0	0.0	0.0	0.7	20.1	39.1	32.5	7.7	0.0	0.0	0.0	0.0	55.8
	17 - 18	0.0	0.0	0.0	0.0	2.4	21.5	45.7	25.9	4.0	0.4	0.0	0.0	0.0	60.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	19.2	50.0	28.2	2.6	0.0	0.0	0.0	0.0	87.4

		Temperature (° C) April														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	6.3	30.7	49.4	11.9	1.7	0.0	0.0	0.0	0.0	70.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	3.9	32.5	47.4	14.4	1.8	0.0	0.0	0.0	0.0	35.3
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	26.0	48.5	23.8	0.9	0.9	0.0	0.0	0.0	61.5
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	20.2	44.6	32.2	1.9	1.2	0.0	0.0	0.0	57.0
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	13.2	45.5	35.7	4.9	0.8	0.0	0.0	0.0	55.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	10.3	42.1	37.3	8.7	1.6	0.0	0.0	0.0	58.0
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	66.7	11.1	0.0	0.0	0.0	0.0	98.5
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	5.3	29.5	41.8	20.1	3.3	0.0	0.0	0.0	59.3
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	3.7	26.6	38.6	25.1	5.2	0.7	0.0	0.0	55.5
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	3.4	25.0	35.4	26.9	8.6	0.7	0.0	0.0	55.3
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	3.2	25.5	35.1	27.5	7.6	1.2	0.0	0.0	58.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	4.2	25.8	32.6	28.8	8.0	0.8	0.0	0.0	56.0
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	6.1	30.3	30.3	25.0	8.0	0.4	0.0	0.0	56.0
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	5.2	30.9	36.1	25.8	2.1	0.0	0.0	0.0	83.8
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	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 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	1.7	29.8	57.5	11.0	0.0	0.0	0.0	0.0	70.8
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.5	18.5	66.2	14.6	0.2	0.0	0.0	0.0	33.7
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	61.6	22.8	3.0	0.0	0.0	0.0	57.6
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	53.8	31.6	3.8	0.0	0.0	0.0	57.1
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	50.7	36.0	8.0	0.0	0.3	0.0	53.9
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	38.3	46.7	9.9	1.1	0.0	0.0	55.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	33.3	16.7	0.0	0.0	0.0	99.0
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	25.4	46.1	23.4	2.3	0.0	0.0	58.7
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	21.7	40.0	28.7	5.7	0.0	0.0	51.6
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	23.1	36.6	30.6	7.5	0.0	0.0	56.8
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	19.4	38.4	33.0	6.1	0.0	0.0	55.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	20.7	36.2	27.9	11.4	0.0	0.0	53.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	23.0	41.7	25.9	6.1	0.0	0.0	55.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	21.5	43.9	22.4	6.5	0.0	0.0	82.7
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	33.3	33.3	0.0	0.0	0.0	99.5

		Temperature (° C) June														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	56.6	36.8	1.6	0.0	0.0	0.0	69.7
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	46.6	45.1	5.4	0.7	0.0	0.0	31.7
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	35.9	50.6	11.6	1.2	0.0	0.0	58.2
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	32.9	48.2	16.1	1.6	0.0	0.0	58.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	22.4	47.3	27.8	1.4	0.4	0.0	53.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	47.3	30.0	4.4	0.0	0.0	54.5
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	30.0	50.0	0.0	0.0	0.0	98.3
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	12.8	35.3	37.6	13.6	0.4	0.0	57.0
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	10.6	35.5	32.1	21.1	0.4	0.0	55.8
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	30.3	36.4	19.7	1.9	0.0	56.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	30.3	34.8	21.0	2.2	0.0	55.5
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	12.7	31.3	32.4	21.1	2.2	0.0	54.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	13.7	29.7	36.3	18.4	1.6	0.0	57.3
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	44.0	35.0	12.0	0.0	0.0	83.3
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	20.0	40.0	0.0	0.0	99.2

		Temperature (° C) July														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	30.2	63.5	2.6	1.0	0.0	0.0	69.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	21.5	68.8	8.8	0.2	0.0	0.0	28.7
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	67.8	19.2	0.8	0.0	0.0	58.9
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	62.6	29.5	0.4	0.0	0.0	55.2
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	53.5	36.4	2.1	0.0	0.0	53.9
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	43.9	45.4	3.8	0.0	0.0	57.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0	85.0	0.0	0.0	0.0	96.8
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	28.3	50.2	16.0	0.0	0.0	56.6
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	27.6	44.8	21.7	1.7	0.0	53.9
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	24.0	41.7	24.4	2.8	0.0	54.4
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	22.7	42.9	27.8	2.9	0.0	56.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	20.4	43.1	28.5	2.2	0.0	55.8
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	21.0	44.3	26.0	1.9	0.0	57.7
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	30.3	45.9	18.3	0.9	0.0	82.4
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	40.0	40.0	0.0	0.0	0.0	99.2

		Temperature (° C) August														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	31.8	60.9	4.7	0.0	0.0	0.0	69.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	25.0	67.5	6.1	0.0	0.0	0.0	31.0
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	72.3	16.9	0.0	0.0	0.0	59.8
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	65.5	27.2	0.0	0.0	0.0	53.7
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	7.0	54.7	36.5	1.4	0.0	0.0	54.0
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	42.0	50.2	3.1	0.0	0.0	52.7
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	53.8	38.5	0.0	0.0	0.0	97.9
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.1	24.3	58.1	11.8	0.4	0.0	56.1
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.5	21.4	49.0	24.1	0.7	0.0	53.2
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	22.5	43.4	28.1	1.9	0.0	56.9
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	20.1	43.3	29.2	2.8	0.0	54.2
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	24.1	41.0	29.9	2.2	0.0	55.2
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	25.0	42.7	27.1	1.7	0.0	53.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	30.8	51.0	17.3	0.0	0.0	83.2
	18 - 19	0.0	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	99.4

		Temperature (° C) September														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	4.0	23.7	56.5	14.1	1.1	0.6	0.0	0.0	70.5
	05 - 06	0.0	0.0	0.0	0.0	0.0	0.0	2.6	23.9	55.9	16.2	0.7	0.7	0.0	0.0	29.0
	06 - 07	0.0	0.0	0.0	0.0	0.0	0.0	0.4	15.9	57.0	25.9	0.4	0.4	0.0	0.0	55.0
	07 - 08	0.0	0.0	0.0	0.0	0.0	0.0	0.4	9.6	54.4	34.9	0.8	0.0	0.0	0.0	56.5
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.1	47.3	45.1	2.2	0.0	0.0	0.0	54.2
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	44.8	45.9	5.4	0.4	0.0	0.0	56.8
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	70.0	20.0	0.0	0.0	0.0	0.0	96.7
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	30.0	50.6	17.0	0.8	0.0	0.0	57.8
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	25.7	50.4	21.7	1.1	0.0	0.0	54.7
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	22.7	52.3	20.8	1.9	0.0	0.0	56.0
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	21.1	50.6	24.2	2.3	0.0	0.0	55.8
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	25.6	51.3	20.9	1.1	0.0	0.0	54.5
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	29.6	50.2	17.1	1.2	0.0	0.0	57.2
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	39.5	42.9	11.8	0.0	0.0	0.0	80.2
	18 - 19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	33.3	0.0	0.0	0.0	99.5

		Temperature (° C) October														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	5.6	41.1	50.8	2.4	0.0	0.0	0.0	0.0	80.0
	05 - 06	0.0	0.0	0.0	0.0	0.0	1.1	6.5	43.0	46.3	2.5	0.6	0.0	0.0	0.0	42.6
	06 - 07	0.0	0.0	0.0	0.0	0.0	2.2	5.9	42.0	46.2	2.8	0.8	0.0	0.0	0.0	42.4
	07 - 08	0.0	0.0	0.0	0.0	0.0	1.1	4.5	32.8	53.2	7.9	0.4	0.0	0.0	0.0	57.3
	08 - 09	0.0	0.0	0.0	0.0	0.0	0.3	2.0	33.1	52.6	10.9	1.0	0.0	0.0	0.0	52.7
	09 - 10	0.0	0.0	0.0	0.0	0.0	0.0	2.0	27.6	56.8	12.6	1.0	0.0	0.0	0.0	52.6
	10 - 11	0.0	0.0	0.0	0.0	0.0	0.0	3.5	36.0	41.2	18.4	0.0	0.9	0.0	0.0	81.6
	11 - 12	0.0	0.0	0.0	0.0	0.0	0.0	0.6	12.5	68.8	16.5	1.7	0.0	0.0	0.0	71.6
	12 - 13	0.0	0.0	0.0	0.0	0.0	0.0	0.3	15.8	58.2	22.9	2.4	0.3	0.0	0.0	52.9
	13 - 14	0.0	0.0	0.0	0.0	0.0	0.0	0.3	15.3	55.8	23.1	5.1	0.3	0.0	0.0	52.6
	14 - 15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	54.7	24.6	3.9	0.0	0.0	0.0	54.0
	15 - 16	0.0	0.0	0.0	0.0	0.0	0.0	1.7	16.5	58.1	21.6	2.1	0.0	0.0	0.0	53.1
	16 - 17	0.0	0.0	0.0	0.0	0.0	0.0	1.4	23.4	59.6	13.8	1.8	0.0	0.0	0.0	54.5
	17 - 18	0.0	0.0	0.0	0.0	0.0	0.6	2.8	29.4	55.6	10.6	1.1	0.0	0.0	0.0	71.0
	18 - 19	0.0	0.0	0.0	0.0	0.0	4.2	16.7	37.5	33.3	4.2	4.2	0.0	0.0	0.0	96.1

		Temperature (° C) November														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8
	05 - 06	0.0	0.0	0.0	1.6	13.9	38.5	41.2	2.7	1.6	0.5	0.0	0.0	0.0	0.0	68.8
	06 - 07	0.0	0.0	0.0	1.7	12.4	37.0	43.0	4.1	1.2	0.7	0.0	0.0	0.0	0.0	30.2
	07 - 08	0.0	0.0	0.0	2.8	12.2	32.1	45.5	4.9	1.6	0.8	0.0	0.0	0.0	0.0	59.0
	08 - 09	0.0	0.0	0.0	1.0	11.8	27.9	48.8	8.4	1.4	0.7	0.0	0.0	0.0	0.0	52.2
	09 - 10	0.0	0.0	0.0	0.7	10.7	26.4	48.6	11.1	1.8	0.7	0.0	0.0	0.0	0.0	53.3
	10 - 11	0.0	0.0	0.0	0.3	8.4	27.2	44.6	17.4	1.7	0.3	0.0	0.0	0.0	0.0	52.2
	11 - 12	0.0	0.0	0.0	0.0	9.1	27.3	36.4	27.3	0.0	0.0	0.0	0.0	0.0	0.0	98.2
	12 - 13	0.0	0.0	0.0	0.0	6.4	26.9	43.2	21.2	1.9	0.4	0.0	0.0	0.0	0.0	56.0
	13 - 14	0.0	0.0	0.0	0.0	6.0	22.1	46.6	22.4	2.1	0.7	0.0	0.0	0.0	0.0	53.2
	14 - 15	0.0	0.0	0.0	0.0	6.6	27.3	45.8	18.1	1.5	0.7	0.0	0.0	0.0	0.0	54.8
	15 - 16	0.0	0.0	0.0	0.4	7.9	28.8	48.2	11.2	2.9	0.7	0.0	0.0	0.0	0.0	53.7
	16 - 17	0.0	0.0	0.0	0.4	8.0	30.3	50.4	8.0	1.8	1.1	0.0	0.0	0.0	0.0	54.3
	17 - 18	0.0	0.0	0.0	0.4	9.4	30.7	52.4	4.9	1.5	0.7	0.0	0.0	0.0	0.0	55.5
	18 - 19	0.0	0.0	0.0	0.0	12.9	27.6	51.7	6.9	0.0	0.9	0.0	0.0	0.0	0.0	80.7

		Temperature (° C) December														
Time (UTC)		< -20	-20 – -16	-15 – -11	-10 – -6	-5 – -1	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 35	≥35	NA	
	04 - 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	05 - 06	0.0	0.0	2.3	6.4	25.1	42.7	19.3	2.9	1.2	0.0	0.0	0.0	0.0	0.0	72.4
	06 - 07	0.0	0.0	1.5	5.3	24.7	44.4	21.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	36.1
	07 - 08	0.0	0.0	1.6	6.4	20.0	46.0	23.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	59.7
	08 - 09	0.0	0.0	0.8	4.5	21.5	42.6	26.0	4.2	0.4	0.0	0.0	0.0	0.0	0.0	57.3
	09 - 10	0.0	0.0	0.4	4.2	20.7	41.4	27.7	5.3	0.4	0.0	0.0	0.0	0.0	0.0	54.0
	10 - 11	0.0	0.0	0.4	3.2	17.0	41.2	30.3	7.6	0.4	0.0	0.0	0.0	0.0	0.0	55.3
	11 - 12	0.0	0.0	0.0	0.0	11.1	33.3	33.3	11.1	11.1	0.0	0.0	0.0	0.0	0.0	98.5
	12 - 13	0.0	0.0	0.0	2.9	13.9	41.6	30.3	10.9	0.4	0.0	0.0	0.0	0.0	0.0	55.8
	13 - 14	0.0	0.0	0.0	2.1	14.2	42.0	34.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	53.5
	14 - 15	0.0	0.0	0.0	2.7	14.2	40.2	34.9	7.3	0.8	0.0	0.0	0.0	0.0	0.0	57.9
	15 - 16	0.0	0.0	0.0	2.9	15.0	44.9	31.8	5.1	0.4	0.0	0.0	0.0	0.0	0.0	55.8
	16 - 17	0.0	0.0	0.0	2.9	16.9	45.5	31.0	3.3	0.4	0.0	0.0	0.0	0.0	0.0	61.0
	17 - 18	0.0	0.0	0.0	3.2	14.0	48.9	30.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	64.4
	18 - 19	0.0	0.0	1.1	0.0	23.7	51.6	21.5	1.1	1.1	0.0	0.0	0.0	0.0	0.0	85.0

4.2. Maximum Temperature

4.2.1. Maximum Temperature per Month

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

Example (dark shading): In the 10 years period in August the maximum temperature reported between 12 and 15 UTC was 34° C.

		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	15	14	16	16	15	14	16	79.2	
	February	12	15	14	18	18	17	18	80.5	
	March	14	17	20	21	21	16	21	76.1	
	April	19	21	24	26	25	9	26	77.5	
	May	21	31	26	28	28	21	31	76.7	
	June	27	30	30	32	32	26	32	76.8	
	July	28	29	29	31	32	23	32	76.5	
	August	22	26	30	34	34	21	34	76.3	
	September	26	26	26	29	27	20	29	76.4	
	October	24	24	25	25	23	20	25	75.6	
	November	21	23	23	24	24	23	24	75.9	
	December	19	16	18	19	17	17	19	77.8	
	Year	28	31	30	34	34	26	34	77.1	

4.2.2. Maximum Temperature in 10 Years

On the 20th of August 2000 at 1450 UTC a temperature of 34° C was reported.

4.3. Average Maximum Temperature

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

Example (dark shading): In the 10 years period in July the average maximum temperature reported between 12 and 15 UTC was 28.5° C.

		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	6.2	7.9	9.3	10.0	8.6	4.2	79.2		
	February	5.8	8.2	9.0	11.3	10.8	6.9	80.5		
	March	8.4	10.8	12.8	15.9	15.7	10.1	76.1		
	April	10.8	13.5	16.6	18.7	18.4	9.0	77.5		
	May	16.1	20.0	22.8	25.1	25.0	17.3	76.7		
	June	19.9	23.2	26.0	28.3	28.0	22.8	76.8		
	July	20.5	23.1	25.8	28.5	28.5	18.0	76.5		
	August	19.3	22.6	25.1	27.9	28.1	20.0	76.3		
	September	16.7	18.9	20.8	22.9	22.2	13.7	76.4		
	October	13.8	15.7	17.1	18.5	17.5	12.5	75.6		
	November	9.0	11.3	12.5	13.3	12.4	8.6	75.9		
	December	7.6	9.3	10.1	10.6	9.5	5.5	77.8		

4.4. Minimum Temperature

4.4.1. Minimum Temperature per Month

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

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

		Minimum Temperature ($^{\circ}\text{C}$) 10 Years								
Time (Month)	Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	18 - 21	Day	NA	
	January	-12	-13	-12	-7	-9	-8	-13	79	
	February	-10	-12	-9	-6	-7	-8	-12	81	
	March	-7	-8	-5	-3	-3	1	-8	76	
	April	-3	0	1	2	1	9	-3	78	
	May	2	5	5	6	5	14	2	77	
	June	7	8	9	9	9	19	7	77	
	July	9	10	10	10	11	12	9	76	
	August	6	9	9	9	10	19	6	76	
	September	3	3	5	6	5	10	3	76	
	October	-3	-5	1	4	-1	-1	-5	76	
	November	-8	-9	-8	-5	-7	-5	-9	76	
	December	-13	-14	-12	-10	-10	-11	-14	78	
	Year	-13	-14	-12	-10	-10	-11	-14	77	

4.4.2. Minimum Temperature in 10 Years

On the 24th of December 2001 at 0750 UTC a temperature of -14°C was reported.

4.5. Average Minimum Temperature

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

Example (dark shading): In the 10 years period in January the average minimum temperature reported between 06 and 09 UTC was -7.5°C .

		Average Minimum Temperature ($^{\circ}\text{C}$) 10 Years						
Time Period (UTC)	03 - 06	06 - 09	09 - 12	12 - 15	15 - 18	18 - 21	NA	
January	-5.6	-7.5	-5.9	-4.1	-4.9	-2.6	79.2	
February	-4.3	-5.5	-3.3	-1.7	-2.7	0.4	80.5	
March	-2.4	-2.4	0.4	2.1	1.5	5.6	76.1	
April	0.9	3.2	5.0	5.8	5.7	9.0	77.5	
May	7.1	8.3	10.0	10.5	10.5	17.3	76.7	
June	10.0	11.2	12.5	12.9	13.2	22.8	76.8	
July	11.7	13.2	14.5	14.6	15.0	18.0	76.5	
August	11.7	13.8	15.1	15.7	15.7	20.0	76.3	
September	6.3	8.2	10.3	11.4	10.8	13.7	76.4	
October	3.8	4.2	6.4	7.4	6.5	6.3	75.6	
November	-1.0	-2.4	-0.6	0.5	-0.7	1.1	75.9	
December	-5.5	-6.2	-4.8	-3.7	-3.8	-1.6	77.8	

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 18 and 21 UTC was 1020.3 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	1019.8	1020.5	1019.3	1019.3	1020.3	1019.7	79.1	
	February	1017.5	1018.4	1018.6	1017.6	1017.2	1018.7	1017.9	80.6	
	March	1016.9	1018.0	1018.3	1017.2	1016.5	1014.8	1017.4	76.1	
	April	1013.1	1013.8	1013.3	1012.4	1011.7	1014.0	1012.9	77.2	
	May	1015.2	1015.4	1015.0	1014.3	1014.0	1016.0	1014.8	76.7	
	June	1018.1	1018.1	1017.9	1017.3	1016.8	1019.4	1017.7	76.6	
	July	1017.0	1017.2	1017.0	1016.4	1015.8	1017.8	1016.7	76.8	
	August	1017.5	1017.9	1017.8	1016.9	1016.4	1018.5	1017.3	76.2	
	September	1015.5	1015.9	1016.0	1015.4	1015.1	1011.0	1015.6	76.7	
	October	1017.4	1018.3	1018.1	1017.1	1017.5	1021.0	1017.7	75.7	
	November	1015.9	1016.3	1016.7	1016.0	1016.0	1015.6	1016.2	75.8	
	December	1017.3	1017.4	1017.4	1016.4	1017.3	1020.0	1017.2	77.7	
Year	1016.5	1017.2	1017.2	1016.3	1016.2	1017.9	1016.7	77.1		

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 06 and 09 UTC was 983 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	990	989	989	988	987	998	987	79.1	
	February	991	991	993	991	991	993	991	80.6	
	March	991	987	990	991	992	991	987	76.1	
	April	989	989	990	990	989	1014	989	77.2	
	May	992	988	991	993	993	1011	988	76.7	
	June	997	996	996	997	998	1014	996	76.6	
	July	1000	1000	1002	1002	1001	1011	1000	76.8	
	August	1001	1003	1003	1002	1003	1014	1001	76.2	
	September	994	994	994	997	997	998	994	76.7	
	October	990	990	992	993	993	1006	990	75.7	
	November	987	986	986	988	987	987	986	75.8	
	December	991	983	987	990	989	991	983	77.7	
Year	987	983	986	988	987	987	983	77.1		

5.2.2. Minimum QNH in 10 Years

On the 28th of December 1999 at 0750 UTC a minimum pressure of 983 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 09 and 12 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	1038	1039	1038	1038	1038	1039	79.1	
	February	1039	1039	1040	1039	1038	1037	1040	80.6	
	March	1037	1038	1038	1037	1036	1030	1038	76.1	
	April	1032	1033	1032	1032	1031	1014	1033	77.2	
	May	1029	1032	1029	1028	1027	1023	1032	76.7	
	June	1028	1029	1029	1028	1028	1022	1029	76.6	
	July	1028	1028	1027	1026	1026	1025	1028	76.8	
	August	1028	1028	1029	1028	1028	1025	1029	76.2	
	September	1030	1031	1031	1030	1030	1022	1031	76.7	
	October	1034	1034	1035	1033	1031	1031	1035	75.7	
	November	1039	1039	1039	1038	1037	1036	1039	75.8	
	December	1036	1037	1038	1036	1037	1037	1038	77.7	
	Year	1039	1039	1040	1039	1038	1038	1040	77.1	

5.3.2. Maximum QNH in 10 Years

On the 11th of February 2001 at 1020 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

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	77.2
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	54.1
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	70.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	56.5
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	62.4
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	97.7
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	77.3

6.2. Freezing Drizzle

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

In the 10 years period no observation reported freezing drizzle.

Cases of Freezing Drizzle During 10 Years														
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	0	0	0	0	0	0	0	0	0	0	0	0	0	77.2
06 - 09	0	0	0	0	0	0	0	0	0	0	0	0	0	54.1
09 - 12	0	0	0	0	0	0	0	0	0	0	0	0	0	70.5
12 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	56.5
15 - 18	0	0	0	0	0	0	0	0	0	0	0	0	0	62.4
18 - 21	0	0	0	0	0	0	0	0	0	0	0	0	0	97.7
Day	0	0	0	0	0	0	0	0	0	0	0	0	0	77.3

6.3. Snowfall

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

Example (dark shading): In the 10 years period in February between 03 and 06 UTC 8.6% of all observations reported snowfall.

Frequencies of Snowfall During 10 Years														
Time (UTC)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
03 - 06	4.0	8.6	2.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.1	1.0	77.0
06 - 09	4.1	6.9	2.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.6	1.8	53.6
09 - 12	1.7	5.9	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.0	1.4	70.2
12 - 15	2.7	5.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.1	1.2	55.9
15 - 18	2.4	5.6	0.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.3	1.5	62.0
18 - 21	1.2	4.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	7.4	3.6	97.7
Day	2.9	6.0	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.8	1.5	77.0

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.

In the 10 years period no observation reported hail.

		Cases of Hail During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
	03 - 06		0	0	0	0	0	0	0	0	0	0	0	0	0
06 - 09		0	0	0	0	0	0	0	0	0	0	0	0	0	54.1
09 - 12		0	0	0	0	0	0	0	0	0	0	0	0	0	70.5
12 - 15		0	0	0	0	0	0	0	0	0	0	0	0	0	56.5
15 - 18		0	0	0	0	0	0	0	0	0	0	0	0	0	62.4
18 - 21		0	0	0	0	0	0	0	0	0	0	0	0	0	97.7
Day		0	0	0	0	0	0	0	0	0	0	0	0	0	77.3

6.5. Snow Pellets

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

In the 10 years period no observation reported snow pellets.

		Cases of Snow Pellets During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
	03 - 06		0	0	0	0	0	0	0	0	0	0	0	0	0
06 - 09		0	0	0	0	0	0	0	0	0	0	0	0	0	54.1
09 - 12		0	0	0	0	0	0	0	0	0	0	0	0	0	70.5
12 - 15		0	0	0	0	0	0	0	0	0	0	0	0	0	56.5
15 - 18		0	0	0	0	0	0	0	0	0	0	0	0	0	62.4
18 - 21		0	0	0	0	0	0	0	0	0	0	0	0	0	97.7
Day		0	0	0	0	0	0	0	0	0	0	0	0	0	77.3

6.6. Thunderstorm

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

Example (dark shading): In the 10 years period in July between 15 and 18 UTC 1.2 % 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	0.0	0.0	0.3	0.8	0.8	0.0	0.0	0.0	0.0	0.2
06 - 09		0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.4	0.0	0.0	0.0	0.0	0.1	54.1
09 - 12		0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.2	0.2	0.0	0.0	0.0	0.1	70.5
12 - 15		0.0	0.0	0.0	0.0	0.5	0.3	0.8	0.2	0.0	0.0	0.0	0.0	0.2	56.5
15 - 18		0.0	0.0	0.0	0.2	0.6	1.0	1.2	0.7	0.0	0.0	0.0	0.0	0.3	62.4
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	97.7
Day		0.0	0.0	0.0	0.0	0.2	0.4	0.8	0.5	0.0	0.0	0.0	0.0	0.2	77.3

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 11.4% 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	9.6	2.8	2.0	0.4	0.5	0.0	0.0	0.0	2.2	5.6	4.3	4.1	1.7
	06 - 09	11.4	4.9	3.6	1.2	0.0	0.0	0.0	0.0	2.0	7.8	5.6	4.9	3.5	54.1
	09 - 12	10.7	3.8	1.4	0.0	0.0	0.0	0.0	0.0	0.2	3.4	2.4	2.8	2.0	70.5
	12 - 15	6.1	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.7	1.9	1.1	56.5
	15 - 18	7.5	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1.1	2.7	1.4	62.4
	18 - 21	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.1	4.3	3.6	97.7
	Day	8.9	2.8	1.5	0.3	0.1	0.0	0.0	0.0	0.9	4.5	3.0	3.3	2.0	77.3

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 March between 03 and 06 UTC 1.2% of all observations reported shallow or vicinity fog.

		Frequencies of Shallow and Vicinity Fog During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
		03 - 06	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.5	0.0	0.2
	06 - 09	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.0	0.1	54.1
	09 - 12	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.1	70.5
	12 - 15	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	56.5
	15 - 18	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1	62.4
	18 - 21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.2	97.7
	Day	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.0	0.1	77.3

6.9. Freezing Fog

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

Example (dark shading): In the 10 years period in January between 09 and 12 UTC 4.7 % of all observations reported freezing fog.

		Frequencies of Freezing Fog During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
		03 - 06	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2
	06 - 09	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.5	55.1
	09 - 12	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	71.1
	12 - 15	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	57.2
	15 - 18	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	62.9
	18 - 21	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.0	97.7
	Day	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.3	77.7

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 July between 18 and 21 UTC 33.3 % of all observations reported rain.

		Frequencies of Rain During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
	03 - 06		16.3	13.8	20.8	20.9	14.9	15.3	12.1	15.5	18.7	12.9	17.0	16.9	16.1
06 - 09		11.5	14.1	15.8	16.3	13.5	11.8	11.6	10.2	13.3	9.7	15.5	15.7	13.3	54.1
09 - 12		7.9	11.3	11.3	11.8	11.0	9.2	10.6	7.8	7.9	11.0	14.3	12.3	10.5	70.5
12 - 15		7.4	10.8	10.8	11.5	10.7	9.5	8.6	9.6	11.1	9.5	15.3	12.7	10.7	56.5
15 - 18		8.9	11.0	15.4	12.7	14.0	10.6	11.0	9.3	12.5	10.0	14.7	16.1	12.3	62.4
18 - 21		5.9	17.3	16.9	0.0	0.0	0.0	33.3	25.0	0.0	16.0	21.2	8.5	14.3	97.7
Day		9.4	12.2	14.1	14.6	12.8	11.2	10.7	10.4	12.7	10.4	15.3	14.3	12.4	77.3

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 09 and 12 UTC 0.9% of all observations reported drizzle.

		Frequencies of Drizzle During 10 Years													
Time (UTC)		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	NA %
	03 - 06		0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06 - 09		0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.5	0.4	0.7	0.2	54.1
09 - 12		0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.3	0.0	0.1	70.5
12 - 15		0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	56.5
15 - 18		0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	62.4
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	97.7
Day		0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.3	0.2	0.2	0.1	77.3

Abbreviations

Aeronautical Abbreviations

METAR
ICAO
RWY
GRD
msl
UTC

Aviation Routine Weather Report
International Civil Aviation Organisation
Runway
Ground
Mean sea level
Coordinated Universal Time

Meteorological Abbreviations

RVR
QNH

Runway Visual Range
Reduced pressure to sea level according to ISA
(International Standard Atmosphere)
Cumulonimbus
Few (1–2 Octas)
Scattered (3–4 Octas)
Broken (5–7 Octas)
Overcast (8 Octas)

CB
Cloud amount: FEW
SCT
BKN
OVC

Airports

LSZH
LSGG
LSZB
LSZA
LSZR
LSZG
LSGS
LSGC
LFSB

Zurich Airport
Geneva Airport
Bern Airport
Lugano Airport
Altenrhein Airport
Grenchen Airport
Sion Airport
Les Eplatures Airport
Basel Airport

Units of Measurement

ft
m
km
NM
kt
°C
hPa
hr

Feet
Metre
Kilometre
Nautical mile
Knot (nautical mile / hour)
Degrees Celsius
Hectopascal
Hour

Months

Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

January
February
March
April
May
June
July
August
September
October
November
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Other

NA

Not available



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