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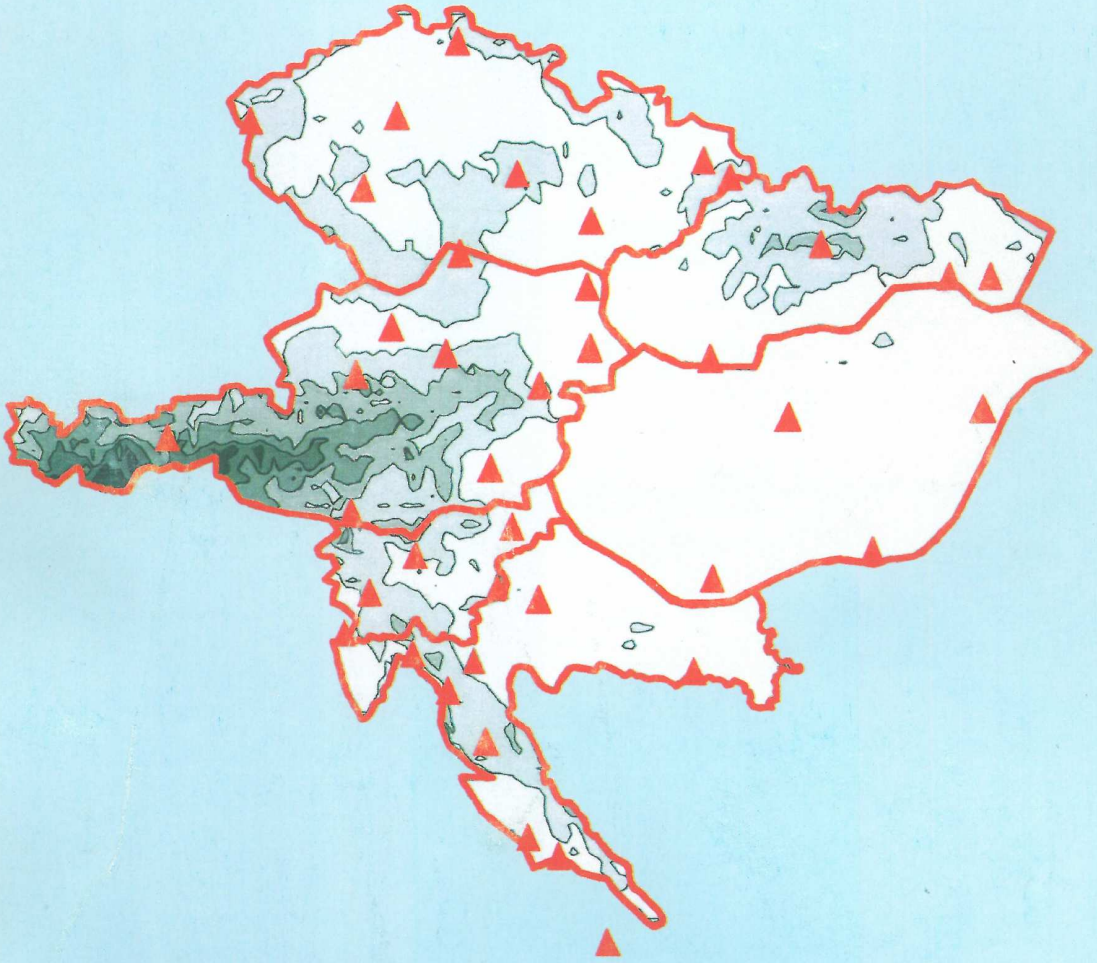
Heft 16

WIND ATLAS

for the Central European Countries

AUSTRIA, CROATIA, CZECH REPUBLIC

HUNGARY, SLOVAK REPUBLIK AND SLOVENIA



edited by Hartwig Dobesch and Georg Kury

Central Institute for Meteorology and Geodynamics

Vienna 1997

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CONTENTS

PREFACE AND ACKNOWLEDGEMENT

This document is a contribution to the knowledge base of the Central European climatic wind condition and is considered by the authors as a "*Supplement for the European Wind Atlas*". It is a result of a co-operation of members from the National Meteorological Services (NMSs) of Austria, Croatia, Czech Republic, Hungary, Slovak Republic and Slovenia. This co-operation was initiated and performed within the framework of the ***Central European Initiative on Meteorology,*** (CEIM, former called the PENTAGONAL) working group "Regional Studies and Climate Impacts". Within this group the idea of a joint survey of the wind conditions in the participating countries were born. Along with the memorandum of understanding of CEIM a practical contribution to that subject was projected to become more involved and familiar with questions from the public on behalf of energy matters and to develop on this base more skill and experience for the further assessment of renewable energy resources.

In the *hot* and last phase of operation the working group had the following members (i. a. o.)

Jiri Cermák	Institute of Atmospheric Physics, Praha, Czech Republic
Hartwig Dobesch,	Central Institute for Meteorology and Geodynamics, Vienna, Austria
Marjeta Gerjevic	Hydrometeorological Institute, Ljubljana, Slovenia
Ferdinand Hesek	Geophysical Institute of Slovak Academy of Sciences, Bratislava, Slovakia
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Vit Kveton	Czech Hydrometeorological Institute, Praha, Czech Republic
Neva Pristov	Hydrometeorological Institute, Ljubljana, Slovenia
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Jaroslav Svoboda	Institute of Atmospheric Physics, Praha, Czech Republic
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Hung Viet Tran	Central Institute for Meteorology and Geodynamics, Vienna, Austria
Mladen Viher	Meteorological and Hydrological Serice, Zagreb, Croatia
Visnja Vucetic	Meteorological and Hydrological Service, Zagreb, Croatia
Victor Weilguni	Central Institute for Meteorology and Geodynamics, Vienna, Austria

We acknowledge with great pleasure the excellent co-operation with all participants of the working group presenting all the necessary data, carefully selected and analysed. Further great credits have to be given to all supporting NMSs, especially the Austrian climatological department, due to the fact that no funding for this peculiar task was available during the whole work.

1. INTRODUCTION AND BACKGROUND

In the last decade the production of energy from renewable natural resources has gained more and more world-wide importance. This affects particularly the use of wind energy in Europe. By December 1996 in Germany 4326 turbines were installed with a rated power of 1546.4 MW (806 new in 1996, having 427.6 MW) and in 1995 alone 509 MW (Knud et al. 1996, 1997). Also in other countries in Central Europe the use of wind power finds a growing dissemination. Until December 1996 in Austria 40 larger wind power plants with together 13.2 MW are connected to grid, and in the Czech Republic until June 1996 21 plants with 6.8 MW are installed. This rapid development demands carefully analysed and physically based data sets and methods concerning the available wind resources on an regional scale in order to achieve an exact estimate of the possible annual power production of a certain site.

This is a very important point for the national economical profitable use of wind energy and therefore it is obvious, that already in the planning state of a wind power plant an exact data interpretation has to be performed with regard to the necessary *prospecting* (or *siting*) of the available wind resources.

This need was identified by a working group established within the CEIM and a working plan was formulated 1992/93, having as a first goal a survey of the wind resources of the participating countries (Austria, Croatia, Czech Republic, Hungary, Slovak Republic and Slovenia) resulting in a *regionally representative wind climatology*. This comprised already available information as well as new data sets and methods.

1.1 The Wind Atlas Analysis and Application Program (WA^{S}P)

The method used here for assessing the wind energy resources in Central Europe is the well known Wind Atlas Analysis and Application Program (WA^{S}P, Mortensen et al., 1993) which was used for the preparation of the European Wind Atlas (Troen et al., 1989). This WA^{S}P method was selected because it is widely used and therefore can be considered already as a *standard* for an objective approach to the regional wind conditions in homogenous terrain for the available wind energy resources and therefore could be easily used together with the original European Wind Atlas.

Despite the fact that WA^{S}P is very well documented a few highlights should be mentioned here again, underlining why this method was chosen here as a basic instrument for analysing the necessary data sets. WA^{S}P has several premises, which - if applied consequently - guarantee a straightforward mean to get comparable results for a regional wind field in comparison with other methods: It demands the application of long-time data in order to raise the statistical representativity (giving considerable advantages over the mere use of a climatological averaged value of the wind speed and short time in situ measurements); it guarantees through the use of certain unique model assumptions a transferability of the data over larger horizontal distances. Since each measurement is influenced by its direct environment, as there are nearby obstacles, specific roughness- and orographic conditions, the measured data are thus valid only for the point of the measurement itself. Therefore it is necessary in a first step to derive a regionally representative wind climatology to eliminate these specific site characteristics from the measurement, obtaining *reduced* data sets. In a second step these are used for the calculation of the average annual wind speed and Weibull parameters (the scale and the shape parameter) representing the frequency distribution of the wind speed as well as the average power density over smooth surfaces with uniform roughness.

The precision of the method decreases with increasingly complexity of terrain, thus the regional wind climatology on basis of measurements in an orographic more complex terrain (like Feuerkogel, Innsbruck, St.Leonhard/Wald, Ternitz, Villacher Alpe in the Austrian Alps, or Chopok in Slovakia, cf. Table 2.1.) can show a certain over- or underestimation of the average wind speed and power density. This means e.g. for Austria that the stations St.Leonhard/Wald and Ternitz were included in the calculations with the orographic model of WA^{S}P, but the stations Feuerkogel, Innsbruck and Villacher Alpe were not, because the model was not considered as valid for orographic features with over 1000 m difference in altitude within a 10x10 km^2 grid. These conditions were given at some other stations too (marked in Table 2.1 by *). Therefore the values of the regional wind conditions of these stations located in non-homogenous terrain (and generally above 1500 m a.s.l.) are to be seen only as first guesses for the wind energy potential in Alpine and other mountainous areas. In more homogenous terrain an uncertainty of about 10 percent is to be expected (cf. Troen et al.1989) in the average for the power density estimate.

2. THE WIND RESOURCES OF CENTRAL EUROPE

2. 1 The used meteorological station network with surface wind measurements

In Table 2.1 a general information about the 40 used stations are listed (countries in alphabetic order) from which measured wind data were supplied. Due to the fact of the high diversity in landscape in the mountainous areas for Austria a little more stations are provided (which is actually a sample out of nearly 60 possible) than from other countries, knowing well that this is still far too less to give a complete survey of the conditions in the mountain areas.

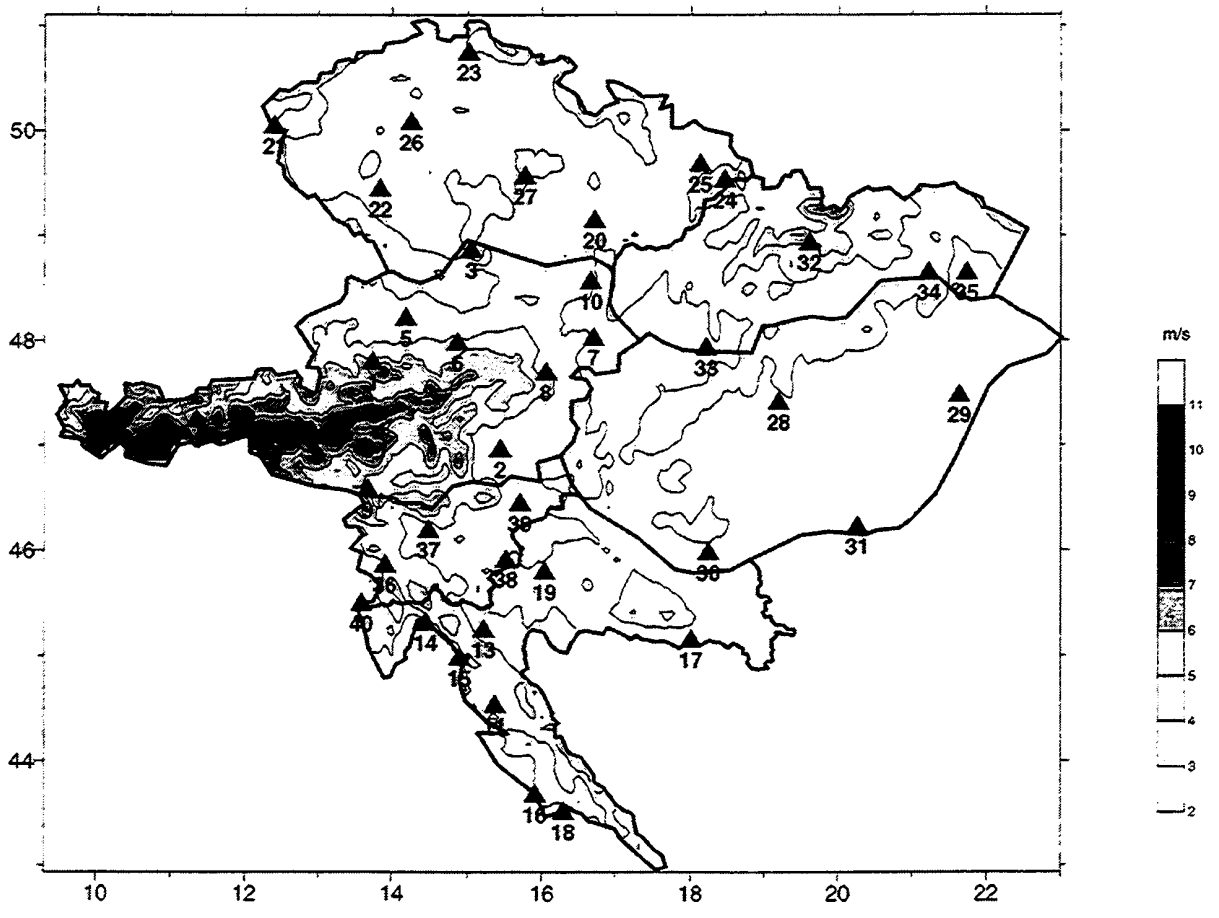

Figure 2.1: Height dependency of wind speed for roughness class 1 (see chapter 2.3); numbers indicate the stations in Table 2.1.

Table 2.1: List of stations with wind measurements used (H = Altitude in m a.s.l., h= Anemometer height in m a.g.l., co-ordinates in degree and minutes)
Stations marked with * were not included in the orographic model of WA^{S}P

Country	Station	H	h	Period	long. (E)	lat. (N)
Austria	Feuerkogel *	1618	10.0	1984 - 86	13°44'	47°49'
	Graz Flughafen	340	10.0	1980 - 85	15°26'	46°59'
	Heidenreichstein	560	10.0	1990 - 95	15°03'	48°53'
	Innsbruck Flughafen *	579	8.0	1980 - 85	11°21'	47°16'
	Linz Hörsching	298	8.0	1981 - 89	14°11'	48°14'
	St. Leonhard/Walde	730	10.0	1988 - 95	14°52'	48°00'
	Stixneusiedl	230	10.0	1990 - 95	16°41'	48°03'
	Ternitz	390	44.2	1977 - 81	16°03'	47°43'
	Villacher Alpe *	2140	15.0	1982 - 84	13°04'	47°13'
	Wilfersdorf	186	53.0	1981 - 85	16°39'	48°35'
Croatia	Gospic	564	10.0	1981 - 90	15°22'	44°33'
	Lastovo	186	15.0	1981 - 90	16°54'	42°46'
	Ogulin	328	10.0	1981 - 90	15°13'	45°16'
	Rijeka	120	10.0	1981 - 90	14°27'	45°20'
	Senj	26	10.0	1981 - 90	14°54'	45°00'
	Sibenik	77	9.0	1981 - 90	15°54'	43°42'
	Slavonski Brod	107	12.0	1981 - 90	18°00'	45°10'
	Split Resnik	21	7.0	1981 - 90	16°17'	43°32'
	Zagreb Maksimir	128	10.0	1981 - 90	16°02'	45°49'
Czech Republic	Brno - Turany	241	15.0	1984 - 93	16°42'	49°10'
	Cheb	474	18.0	1984 - 93	12°24'	50°04'
	Kocelovice	519	10.0	1984 - 93	13°50'	49°28'
	Liberec	398	12.5	1984 - 93	15°01'	50°46'
	Lysa Hora	1324	10.0	1984 - 93	18°27'	49°33'
	Ostrava - Mosnov	251	10.0	1984 - 93	18°07'	49°42'
	Praha - Ruznye	369	11.0	1984 - 93	14°15'	50°06'
	Pribyslav	530	15.0	1984 - 93	15°46'	49°35'
Hungary	Budapest	139	10.3	1981 - 85	19°11'	47°26'
	Debrezen	111	10.0	1981 - 90	21°38'	47°30'
	Pecs	201	9.6	1981 - 85	18°14'	46°00'
	Szeged	82	8.0	1981 - 85	20°05'	46°15'
Slovakia	Chopok *	2008	14.0	1990 - 93	19°36'	48°57'
	Hurbanovo	115	27.0	1981 - 90	18°12'	47°52'
	Kosice	230	13.7	1981 - 90	21°13'	48°40'
	Trebisov - Milhostov	104	12.0	1981 - 89	21°44'	48°40'
Slovenia	Ajdovscina	111	7.0	1975 - 88	13°54'	45°53'
	Brnik	364	10.0	1981 - 90	14°29'	46°13'
	Krsko	150	10.0	1986 - 94	15°31'	45°56'
	Maribor	260	8.0	1976 - 87	15°42'	46°28'
	Portoroz	92	13.0	1982 - 90	13°35'	45°31'

2.2 Some critical remarks on wind data

The data network as it is shown in Table 2.1 is the data basis of this work and represents the general problematic situation in wind measurement not only under the aspect of wind energy utilisation. This is the considerable lack of long time series well maintained during the whole measuring period, under unique conditions and representative for their surroundings of which environmental conditions may vary in time considerably (Wieringa 1983, 1996). Therefore only very few data sets per country are included here and even by choosing the "best" sets, there remains some shortcomings in the coverage of equal periods. Another aspect may be mentioned here too: Namely, whereas some countries present mostly data as "usual" (c.f. data in or near centres - but where wind turbines are not likely to be situated), others, as Austria, try to give an overview more for such areas where there exists a realistic chance to use once the available wind power.

The measuring sites on higher mountains (Austria, Slovak Republic and Croatia) are included to give a picture of height dependency of wind speed in mountains, despite the fact that these data are not reduced on behalf of orography with the Wind Atlas procedure as the others. Beside this there exists a high wind power potential in some coastal regions of Croatia depending on the orographic situation different to these in the high mountain areas. All this leads consequently to some heterogeneity in the used material which has to be born in mind when interpreting the presented results.

2.3 General aspects of the wind climate

A general overview of the climatological wind speed situation is given in Figure 2.1 by mapping the average annual wind speed in 10 m a.g.l., reduced with the Wind Atlas procedure for flat terrain with the roughness class 1 (= 0.03 m) and depending on the stations of Table 2.1. A height (z in m) dependency of wind speed (in m/s) in the simple form $u(z) = 2.51 + 0.0026*z$ was applied using a digital elevation model (NOAA, 1995) with a resolution of 5' by 5'. Whereas this simple approach gives reasonable results for locations situated above 800 m sea level, for lower heights there may be some under- or overestimation in average wind speeds: Especially in alpine mountain valleys (e.g. Innsbruck) too high values are mapped and in some coastal regions of Croatia a considerable underestimation takes place. Despite of this the map shows the general features of the climatological wind, with moderate winds in the plain areas of Hungary and eastern Croatia and more wind at higher locations.

3. STATION STATISTICS AND CLIMATOLOGIES

The arrangements and the contents of the Table from page 10 to page 105 is designed quite similar as in the chapter 7 of the European Wind Atlas. The countries are arranged alphabetically and the stations are listed alphabetically (like in Table 2.1). The Tables contain the following items: a station description, a raw data summary, the calculated Weibull parameters and the calculated regional mean wind speed and energies. The following sections explain this in more detail

3.1 Station description and statistical tables

Station description

This comprises the name of the station, the geographic co-ordinates, the UTM (Universal Transverse Mercator) co-ordinates, the elevation above mean sea level, the station description, the height of the anemometer above ground level, the period of used data (start on year, month, day hour

and end on year, month, day, hour) and the roughness lengths (as *roughness rose*) in twelve 30° sectors together with the distance to and the magnitude of roughness changes within the different sectors.

Raw data summary

This consists of a sectorwise (30°) distribution of the raw wind speed measurements (given in percent) together with the distribution of wind speeds (in intervals of one to one m/s) in each of the twelve sectors (given in per mille) and the Weibull A- (in m/s) and k-parameter in the last two columns. The next block includes the daily and annual variation of wind speed for each hour of the day (at local standard time).

Regional climatology and mean values

This first four tables on the right-hand page gives the calculated Weibull A- and k-parameters for twelve sectors, 5 heights and 4 roughness classes. The sectorwise distribution of wind speed is given in per cent for each roughness class, the Weibull A-parameter in m/s. The table on this page gives the calculated mean wind speed and the total mean power for five heights and four roughness classes.

3.2 Wind climatological fingerprints

At the end of each national section in the following tables a graphical representation of the characteristics of wind data of each station is included in form of *climatological fingerprints.* These includes a short information about the station and data period. The top left graph of the station block represents the average ***seasonal variation*** of measured wind speed (ms^{-1}, full line) and cube of the speed (m^3s^{-3}, dashed line). The same is given in the top right graph for the average ***daily variation*** (full lines) and the cube of the wind speed (dashed lines) for the months of January and July in the same dimensions as for the yearly variation. The next is the ***wind rose*** with relative frequencies in each of twelve sectors (thick lines) and the contribution of each sector to the total wind speed and the total mean cube of the speed (narrow segments in each sector). For each quantity the normalisation is such that the largest segment extends to the outer circle. The corresponding value for each of the three quantities is given in per cent in the small box beneath the wind rose. The ***spectrum***, situated beside the wind rose, shows the contribution of the total variance of wind speed for a range of periods (full line). The full vertical bar on the left side gives the contribution to the standard deviation (st.d.) of wind speed in the whole data set from periods fitting into one year. The adjacent dashed bar gives the mean year contribution to the standard deviation of the cube of the wind speed (both in per cent of the total st.d. of the data). The bars on the right side give the contribution of the st.d. of speed and cube by periods which fit into one day. The numbers listed inside the graph are the contribution to the total st.d. in per cent by the random variations contained in the variance spectrum, divided into a part with periods longer than one year, periods between one year and one day and periods smaller than one day. The numbers in the box beneath the spectrum gives the relative st.d. for speed and cube of speed for the mean January day (first two numbers) and mean July day (last two numbers). The last graph in the finger print box contains the ***time series*** in the form of month by month relative deviation (rel.d.) from the mean monthly value (of the top left graph). Full lines correspond to speed and dashed one to the cube of speed. The smoother full line shows the year by year rel.d. of mean speed from the total average. The open circles show similarly the rel.d. of the mean cube of speed for each calendar year. The numbers to the right represent the r.m.s. of the calendar year deviation (in per cent) for speed (lower number) and cube of speed (upper number).

4. RESUME

The WA^{S}P method can be used properly only in homogenous terrain with *flat* orography. In observing this limitation (c.f. European Wind Atlas, section 8.10) it represents a well defined tool in the hand of an expert for the assessment of wind energy potentials. For countries with a considerable part of mountainous areas other approaches have to be applied in order to gain area covering comparable results for the wind field in such areas. Mostly, these regions have a high wind energy potential on the crests and ridges of the mountains (but not in their valleys). Thus the above mentioned working group considers that in a second step on the basis of the already available and quality controlled data, methods should be applied which can overcome the drawbacks of WA^{S}P. A few groups within the participating countries had already developed models which are capable of handling specific orographic conditions but has not the ease of use of WA^{S}P, working only in the hands of their authors properly (Swoboda, 1990). Other new developments were presented e.g. at the European Union Wind Energy Conference in Göteborg, 1996 by Fiedler (1996), Petersen (1996) and others which gave already useful solutions for that problem.

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FEUERKOGEL

47°49'00" N 13°43'07" E UTM 33 E 404072 m N 5296822 m 1618 m a.s.l.

Located on the high plateau of the Feuerkogel. The anemometer is located close to the edge of an approx. 500 m high cliff orientated north. To the west the station is located leeside of higher peaks with altitudes between 1700 and 1860 m. To the south the terrain is plain for 1 km and strongly descending after 1 km. In E direction the terrain is descending more than 1000 m in 4 km distance.

Height of anemometer: 10.0 m a.g.l. *Period:* 1984010101 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.100	5	0.001								
30	0.100	5	0.001								
60	0.100	10	0.001								
90	0.150	15	0.001								
120	0.200	30	0.001								
150	0.200	150	0.001								
180	0.300	150	0.001								
210	0.100	200	0.001								
240	0.250	0	0.0								
270	0.200	0	0.0								
300	0.200	0	0.0								
330	0.120	40	0.001								

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.7	170	328	130	123	67	47	71	32	32	0	0	0	0	0	3.0	1.28
30	0.7	177	468	177	113	16	0	16	16	16	0	0	0	0	0	1.9	1.10
60	1.4	200	385	169	131	46	62	0	8	0	0	0	0	0	0	2.3	1.37
90	1.5	137	302	129	201	115	94	22	0	0	0	0	0	0	0	3.1	1.90
120	3.3	79	252	177	203	111	85	43	23	26	0	0	0	0	0	3.6	1.77
150	6.5	78	174	197	192	129	102	62	32	35	0	0	0	0	0	4.0	1.85
180	10.0	65	151	127	150	101	132	118	75	80	0	0	0	0	0	5.0	2.10
210	8.4	43	130	113	135	108	150	150	92	80	0	0	0	0	0	5.4	2.55
240	5.2	78	224	164	155	117	117	71	29	44	0	0	0	0	0	4.0	1.78
270	9.3	79	164	150	162	111	136	67	60	72	0	0	0	0	0	4.5	1.86
300	22.7	68	154	130	173	121	138	90	58	68	0	0	0	0	0	4.7	2.00
330	28.4	82	212	157	169	109	100	64	50	56	0	0	0	0	0	4.1	1.71
Total	100.0	79	190	146	165	110	117	81	54	59	0	0	0	0	0	4.3	1.81

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	7.7	4.6	5.3	6.9	4.3	5.6	5.3	4.2	0.0	6.1	4.8	8.6	5.9
1	7.4	5.0	4.7	6.1	4.4	5.7	5.0	3.5	0.0	6.5	5.4	8.9	5.7
2	7.2	5.3	4.7	6.2	4.2	5.4	4.9	4.0	0.0	6.4	5.0	8.6	5.7
3	7.4	4.9	4.8	6.0	3.7	5.4	4.8	3.6	0.0	4.9	5.2	8.5	5.5
4	7.8	4.9	4.4	6.2	3.7	5.3	4.5	3.5	0.0	6.2	5.5	8.4	5.5
5	7.7	4.8	4.5	5.9	3.3	4.2	4.5	3.7	3.8	6.0	4.8	8.5	5.1
6	7.8	4.7	3.9	5.9	3.5	4.0	4.3	3.8	3.7	5.8	5.0	9.9	5.1
7	7.6	4.8	4.1	5.7	3.2	3.6	4.1	3.5	3.7	5.6	4.4	9.3	5.0
8	7.8	4.7	4.0	5.6	2.8	3.5	3.7	3.0	3.3	5.7	4.7	8.7	4.7
9	7.9	4.8	3.5	5.0	2.8	3.3	3.6	3.0	3.2	4.8	4.5	9.1	4.6
10	7.8	4.9	3.6	4.6	3.0	3.9	3.9	2.6	0.0	4.7	4.4	8.4	4.8
11	7.3	4.9	3.6	4.3	2.5	3.1	3.8	2.8	3.0	4.8	4.2	8.7	4.5
12	7.3	4.4	3.4	4.1	2.5	3.4	3.9	3.0	2.9	4.8	3.8	8.9	4.4
13	7.0	4.3	3.3	4.0	2.5	4.3	4.5	2.9	0.0	5.1	3.6	8.4	4.6
14	7.0	4.7	3.3	4.0	2.7	3.5	4.3	2.8	2.7	4.8	3.1	8.1	4.3
15	7.3	4.6	3.2	4.2	3.0	3.2	4.1	2.9	2.8	4.9	3.5	8.9	4.4
16	7.5	4.6	3.1	4.2	2.9	4.0	4.7	3.2	0.0	4.9	3.4	8.7	4.8
17	7.7	4.6	3.5	4.5	3.1	3.6	4.3	2.9	3.1	4.8	4.2	8.8	4.6
18	7.4	4.8	3.9	4.8	3.4	3.4	4.5	3.1	3.2	5.0	4.8	8.5	4.8
19	7.3	4.9	4.4	5.0	3.5	3.6	4.7	3.1	3.5	4.4	5.1	8.9	4.9
20	7.4	4.8	5.0	5.7	4.2	4.9	4.9	4.0	0.0	5.0	5.1	9.0	5.6
21	7.5	4.8	4.8	6.4	4.8	5.2	5.1	3.8	0.0	5.0	5.2	8.6	5.7
22	7.5	4.5	4.9	6.2	5.1	5.1	5.1	4.2	0.0	6.0	4.7	8.2	5.7
23	7.6	4.4	4.8	6.4	4.8	5.5	5.2	4.3	0.0	5.7	5.0	8.4	5.7
Day	7.5	4.7	4.1	5.3	3.5	4.2	4.5	3.3	3.2	5.3	4.5	8.7	5.0

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.16	2.73	2.68	3.48	4.15	4.56	5.69	6.19	7.44	15.84	10.95	5.40	7.04
	1.79	1.34	1.64	2.12	2.07	2.15	2.46	2.92	2.14	1.77	1.99	1.64	1.25
25	4.56	3.00	2.94	3.81	4.54	4.99	6.23	6.77	8.14	17.20	11.92	5.92	7.69
	1.84	1.38	1.69	2.19	2.13	2.22	2.54	3.01	2.20	1.78	2.01	1.69	1.26
50	4.91	3.23	3.17	4.09	4.88	5.36	6.69	7.27	8.74	18.25	12.69	6.38	8.25
	1.89	1.42	1.74	2.24	2.19	2.28	2.61	3.10	2.26	1.79	2.05	1.74	1.28
100	5.31	3.49	3.43	4.44	5.29	5.81	7.26	7.89	9.48	19.32	13.52	6.90	8.88
	1.83	1.37	1.69	2.17	2.12	2.20	2.53	3.00	2.19	1.80	2.04	1.69	1.30
200	5.85	3.82	3.77	4.90	5.84	6.42	8.03	8.74	10.48	20.43	14.48	7.59	9.67
	1.73	1.30	1.60	2.06	2.01	2.09	2.39	2.84	2.08	1.79	1.99	1.60	1.31
Freq	6.4	1.0	1.3	1.5	3.0	6.1	9.5	8.6	5.5	8.4	20.6	28.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.40	1.84	1.99	2.60	2.96	3.31	4.13	4.51	5.73	11.31	6.79	3.29	4.93
	1.27	1.30	1.48	1.77	1.73	1.79	2.15	2.42	1.48	1.72	1.78	1.69	1.18
25	2.92	2.23	2.41	3.12	3.55	3.98	4.95	5.39	6.77	13.13	8.00	3.95	5.86
	1.37	1.40	1.59	1.92	1.86	1.93	2.33	2.62	1.54	1.73	1.85	1.82	1.21
50	3.43	2.62	2.81	3.61	4.12	4.61	5.71	6.21	7.69	14.55	9.04	4.58	6.72
	1.53	1.57	1.79	2.15	2.09	2.17	2.62	2.95	1.63	1.75	1.96	2.05	1.26
100	4.10	3.12	3.34	4.29	4.89	5.47	6.76	7.35	8.82	16.03	10.30	5.45	7.83
	1.63	1.67	1.90	2.29	2.23	2.31	2.79	3.13	1.75	1.79	2.11	2.17	1.35
200	5.07	3.87	4.15	5.33	6.08	6.80	8.42	9.16	10.28	17.63	12.00	6.77	9.37
	1.56	1.59	1.82	2.19	2.13	2.20	2.66	2.99	1.70	1.81	2.05	2.08	1.44
Freq	2.5	0.8	1.4	1.7	3.7	6.9	9.8	7.8	5.1	10.6	24.6	25.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.09	1.68	1.86	2.34	2.64	2.99	3.60	3.96	5.59	9.12	5.52	2.92	4.30
	1.26	1.40	1.59	1.80	1.77	1.83	2.13	2.26	1.33	1.64	1.67	1.73	1.18
25	2.62	2.10	2.31	2.90	3.26	3.70	4.45	4.89	6.76	10.97	6.73	3.61	5.28
	1.35	1.49	1.70	1.92	1.89	1.96	2.28	2.42	1.35	1.65	1.73	1.85	1.21
50	3.11	2.49	2.72	3.41	3.84	4.35	5.21	5.72	7.71	12.40	7.76	4.25	6.14
	1.49	1.65	1.88	2.13	2.09	2.16	2.52	2.68	1.38	1.67	1.82	2.04	1.26
100	3.75	2.98	3.25	4.06	4.57	5.18	6.19	6.79	8.78	13.90	8.96	5.07	7.20
	1.63	1.81	2.06	2.34	2.30	2.38	2.77	2.95	1.45	1.70	1.98	2.24	1.34
200	4.61	3.67	4.00	5.01	5.64	6.39	7.65	8.39	9.96	15.49	10.48	6.25	8.59
	1.56	1.73	1.98	2.24	2.20	2.28	2.65	2.82	1.46	1.73	1.93	2.15	1.42
Freq	2.3	0.8	1.4	1.9	4.0	7.2	9.6	7.5	5.3	11.8	25.4	22.6	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.72	1.29	1.51	1.88	2.09	2.44	2.89	3.20	5.01	6.59	3.92	2.31	3.38
	1.34	1.34	1.57	1.74	1.76	1.89	2.29	2.21	1.32	1.59	1.53	1.74	1.19
25	2.28	1.71	2.00	2.48	2.76	3.22	3.80	4.21	6.47	8.50	5.12	3.05	4.43
	1.42	1.42	1.66	1.85	1.86	2.01	2.43	2.34	1.33	1.60	1.58	1.85	1.21
50	2.78	2.09	2.43	3.00	3.34	3.89	4.57	5.07	7.61	9.97	6.11	3.69	5.31
	1.54	1.54	1.81	2.01	2.02	2.18	2.64	2.55	1.35	1.62	1.66	2.01	1.25
100	3.40	2.55	2.95	3.62	4.03	4.69	5.50	6.10	8.81	11.49	7.24	4.46	6.33
	1.75	1.75	2.06	2.29	2.30	2.48	3.01	2.90	1.38	1.65	1.79	2.29	1.32
200	4.14	3.11	3.60	4.42	4.92	5.73	6.72	7.46	10.10	13.09	8.55	5.45	7.56
	1.69	1.69	1.98	2.20	2.22	2.39	2.90	2.80	1.42	1.69	1.80	2.20	1.39
Freq	1.9	1.0	1.4	2.2	4.5	7.7	9.4	7.0	5.7	13.6	26.7	18.9	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.6	633	4.7	257	4.1	168	3.2	81
25	7.1	808	5.5	401	4.9	290	4.2	171
50	7.6	960	6.2	539	5.7	414	4.9	271
100	8.2	1163	7.2	730	6.6	578	5.8	407
200	8.9	1461	8.5	1092	7.8	867	6.9	617

GRAZ-FLUGHAFEN

46°59'49" N 15°26'41" E UTM 33 E 533877 m N 5205021 m 340 m a.s.l.

Located a few hundred meters north of the terminal building at the airport, 8 km south of the city centre of Graz. In the nearby surrounding of the station flat terrain (Mur valley), 21 km north of the station lies the Schöckl mountain (1445 m), in the south only smaller hills of heights up to 550 m.

Height of anemometer: 5.0 m a.g.l. *Period:* 1980010104 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.010	700	0.100	1400	0.400	0	0.0				
30	0.010	600	0.400	1300	0.100	2600	0.400				
60	0.010	500	0.400	1000	0.030	2000	0.150				
90	0.030	400	0.400	1000	0.100	2000	0.200				
120	0.030	600	0.400	2000	0.100	0	0.0				
150	0.200	1000	0.070	2500	0.100	0	0.0				
180	0.030	1200	0.100	2400	0.030	0	0.0				
210	0.010	1300	0.300	2600	0.100	0	0.0				
240	0.010	1000	0.070	3500	0.200	0	0.0				
270	0.010	1000	0.030	3000	0.200	0	0.0				
300	0.010	1200	0.400	0	0.0	0	0.0				
330	0.010	1300	0.400	0	0.0	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	12.6	303	121	159	115	88	84	63	38	16	12	1	0	0	0	3.3	1.38
30	8.5	449	190	209	71	42	20	11	5	1	1	0	0	0	0	1.9	1.24
60	6.9	552	176	157	74	27	11	3	0	0	0	0	0	0	0	1.4	1.14
90	6.8	555	171	154	86	24	8	2	0	0	0	0	0	0	0	1.4	1.15
120	8.0	473	203	190	115	13	4	1	1	1	0	0	0	0	0	1.7	1.36
150	9.2	412	194	221	141	27	5	0	1	0	0	0	0	0	0	2.0	1.58
180	11.9	319	250	226	99	39	30	17	13	5	3	0	0	0	0	2.3	1.29
210	7.8	489	156	147	77	40	34	31	14	8	4	0	0	0	0	1.9	1.02
240	5.9	648	129	135	39	20	11	8	7	1	1	0	0	0	0	1.1	0.86
270	6.1	624	134	135	60	21	12	7	3	3	1	0	0	0	0	1.2	0.91
300	6.3	602	92	111	83	50	29	16	9	6	2	0	0	0	0	1.5	0.92
330	10.0	380	59	90	106	113	89	73	46	27	15	1	0	0	0	3.7	1.48
Total	100.0	456	159	165	93	46	33	23	14	7	4	0	0	0	0	2.1	1.11

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.0	1.4	1.9	2.3	1.8	2.0	1.4	1.5	1.3	1.0	0.9	1.2	1.5
1	1.1	1.3	1.5	2.2	1.8	1.9	1.5	1.3	1.0	0.7	0.6	1.1	1.3
2	0.8	1.1	1.5	1.8	1.5	1.7	1.2	0.9	0.5	0.8	0.6	1.1	1.1
3	0.8	1.0	1.1	2.0	1.2	1.2	0.7	0.7	0.6	0.5	0.4	1.1	0.9
4	0.7	0.7	1.1	1.3	0.9	1.0	0.7	0.6	0.5	0.6	0.5	1.1	0.8
5	0.6	0.7	1.1	1.4	1.0	0.8	0.8	0.6	0.4	0.5	0.5	1.1	0.8
6	0.7	0.8	0.9	1.3	0.8	0.9	0.6	0.6	0.4	0.5	0.5	1.0	0.7
7	0.6	1.0	0.9	1.2	0.8	0.7	0.5	0.5	0.4	0.6	0.6	1.0	0.7
8	0.6	0.8	0.9	1.3	0.6	0.7	0.5	0.5	0.4	0.6	0.7	1.1	0.7
9	0.7	0.8	0.8	1.2	0.7	0.6	0.5	0.4	0.4	0.6	0.5	1.0	0.7
10	0.8	1.0	0.8	1.3	1.0	1.0	0.7	0.5	0.5	0.6	0.7	1.1	0.8
11	1.0	1.1	0.9	1.8	1.5	1.5	0.9	0.8	0.6	0.8	0.7	1.2	1.1
12	0.9	1.0	1.0	2.4	2.6	2.3	1.8	1.2	0.8	0.8	0.8	1.2	1.3
13	0.9	1.1	1.6	3.3	3.2	3.0	2.6	2.0	1.2	1.2	1.1	1.3	1.8
14	1.1	1.7	2.5	3.7	3.4	3.4	3.0	2.7	1.9	1.9	1.2	1.5	2.2
15	1.4	2.0	2.5	4.0	3.6	3.4	3.3	3.1	2.4	2.2	1.6	1.6	2.5
16	1.7	2.3	3.0	4.2	3.9	3.5	3.6	2.9	2.6	2.7	1.7	2.1	2.8
17	2.0	2.6	3.2	4.4	4.1	3.8	3.7	3.1	2.7	3.0	2.0	1.9	3.1
18	2.0	2.5	3.5	4.5	4.0	3.9	3.6	3.3	2.8	2.7	1.9	2.0	3.1
19	2.0	2.4	3.2	4.3	4.0	3.9	3.4	3.1	2.5	2.5	1.8	1.7	2.9
20	1.9	2.3	3.0	4.3	3.7	3.6	3.2	2.9	2.3	1.8	1.4	1.6	2.7
21	1.5	2.1	2.9	3.9	3.4	3.3	2.7	2.6	2.0	1.4	1.3	1.5	2.5
22	1.4	1.7	2.3	3.3	2.7	2.7	2.3	1.9	1.5	1.3	1.0	1.2	2.0
23	1.2	1.5	2.1	2.8	2.3	2.3	1.8	1.6	1.3	1.4	1.0	1.1	1.7
Day	1.1	1.5	1.8	2.7	2.2	2.2	1.8	1.5	1.2	1.2	1.0	1.3	1.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.12	4.53	2.97	2.70	3.04	3.79	4.02	3.60	2.55	2.08	2.59	5.46	3.76
	1.72	1.46	1.40	1.37	1.55	1.77	1.65	1.38	1.12	1.07	1.08	1.55	1.31
25	6.71	4.97	3.26	2.97	3.33	4.16	4.42	3.96	2.82	2.29	2.86	6.00	4.14
	1.77	1.51	1.44	1.42	1.60	1.82	1.71	1.43	1.15	1.10	1.11	1.60	1.35
50	7.22	5.36	3.52	3.20	3.59	4.47	4.75	4.27	3.05	2.48	3.09	6.46	4.46
	1.82	1.55	1.48	1.45	1.64	1.87	1.75	1.46	1.18	1.13	1.13	1.64	1.37
100	7.81	5.79	3.80	3.45	3.88	4.84	5.14	4.61	3.28	2.67	3.32	6.98	4.81
	1.76	1.50	1.43	1.40	1.59	1.81	1.69	1.42	1.15	1.09	1.10	1.59	1.34
200	8.60	6.35	4.16	3.79	4.27	5.33	5.66	5.05	3.56	2.90	3.61	7.67	5.27
	1.67	1.42	1.36	1.33	1.51	1.72	1.60	1.35	1.09	1.04	1.05	1.51	1.28
Freq	11.3	9.9	7.7	7.0	7.6	8.6	10.7	9.4	6.8	6.2	6.3	8.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.15	2.65	1.89	1.96	2.17	2.83	2.72	2.31	1.54	1.49	1.85	4.17	2.58
	1.43	1.21	1.19	1.21	1.37	1.56	1.34	1.10	0.95	0.97	0.94	1.43	1.15
25	5.01	3.22	2.30	2.38	2.62	3.40	3.29	2.82	1.90	1.83	2.29	5.03	3.14
	1.54	1.30	1.28	1.30	1.48	1.68	1.44	1.18	1.01	1.03	1.01	1.54	1.22
50	5.86	3.80	2.71	2.81	3.07	3.96	3.85	3.35	2.28	2.20	2.75	5.88	3.70
	1.73	1.46	1.44	1.45	1.66	1.88	1.62	1.32	1.13	1.15	1.12	1.73	1.34
100	6.97	4.54	3.25	3.36	3.66	4.71	4.60	4.02	2.75	2.65	3.32	7.00	4.43
	1.84	1.55	1.52	1.54	1.77	2.01	1.72	1.40	1.20	1.22	1.19	1.84	1.41
200	8.65	5.62	4.02	4.16	4.53	5.85	5.70	4.97	3.38	3.26	4.08	8.69	5.48
	1.76	1.48	1.46	1.48	1.69	1.92	1.65	1.34	1.15	1.17	1.13	1.76	1.36
Freq	12.0	9.0	7.3	6.9	7.9	8.7	11.5	8.4	6.3	6.2	6.3	9.4	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.58	2.18	1.55	1.75	1.93	2.52	2.34	1.95	1.15	1.20	1.67	3.76	2.24
	1.41	1.23	1.17	1.22	1.39	1.58	1.33	1.06	0.88	0.92	0.95	1.48	1.14
25	4.45	2.73	1.95	2.19	2.40	3.13	2.92	2.46	1.46	1.53	2.12	4.68	2.80
	1.51	1.31	1.24	1.30	1.48	1.69	1.42	1.13	0.94	0.98	1.01	1.58	1.21
50	5.27	3.26	2.33	2.61	2.84	3.69	3.46	2.96	1.78	1.86	2.57	5.53	3.34
	1.66	1.45	1.37	1.43	1.63	1.87	1.57	1.25	1.02	1.07	1.10	1.75	1.30
100	6.33	3.92	2.81	3.15	3.41	4.41	4.16	3.59	2.19	2.28	3.14	6.62	4.04
	1.83	1.59	1.50	1.57	1.79	2.06	1.73	1.37	1.12	1.17	1.21	1.92	1.40
200	7.78	4.82	3.45	3.86	4.20	5.43	5.12	4.40	2.67	2.78	3.84	8.15	4.95
	1.75	1.52	1.44	1.50	1.72	1.97	1.65	1.31	1.08	1.12	1.16	1.84	1.36
Freq	12.2	8.7	7.2	6.9	8.0	8.8	11.8	8.1	6.1	6.2	6.3	9.7	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.76	1.63	1.23	1.36	1.56	1.97	1.84	1.49	0.92	1.01	1.52	2.97	1.77
	1.41	1.22	1.17	1.19	1.39	1.58	1.31	1.04	0.89	0.93	0.99	1.49	1.15
25	3.67	2.17	1.64	1.81	2.07	2.61	2.45	2.01	1.25	1.36	2.05	3.93	2.36
	1.49	1.29	1.23	1.26	1.47	1.67	1.38	1.10	0.94	0.98	1.04	1.57	1.20
50	4.47	2.66	2.02	2.22	2.53	3.16	2.99	2.48	1.55	1.69	2.54	4.78	2.89
	1.62	1.39	1.33	1.36	1.60	1.81	1.50	1.19	1.01	1.05	1.13	1.71	1.28
100	5.44	3.27	2.48	2.73	3.08	3.83	3.66	3.07	1.96	2.12	3.16	5.80	3.56
	1.84	1.58	1.51	1.54	1.81	2.06	1.70	1.35	1.14	1.19	1.27	1.94	1.42
200	6.63	3.98	3.02	3.32	3.75	4.68	4.45	3.72	2.37	2.57	3.83	7.08	4.32
	1.77	1.52	1.46	1.49	1.75	1.99	1.64	1.30	1.10	1.15	1.23	1.87	1.38
Freq	12.0	8.5	7.0	7.1	7.9	9.6	11.3	7.7	6.1	6.2	6.7	10.0	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	3.5	86	2.5	39	2.1	26	1.7	12
25	3.8	108	2.9	59	2.6	44	2.2	26
50	4.1	129	3.4	78	3.1	61	2.7	41
100	4.4	172	4.0	120	3.7	92	3.2	61
200	4.9	252	5.0	246	4.5	182	4.0	116

HEIDENREICHSTEIN 48°52'42"N 15°02'49"E UTM 33 E 503442 m N 5414039 m 560 m a.s.l.

Located 200 m SW of the village Thaures in relative flat terrain, the highest point within a 10x10 km square is 622 m, the lowest 500 m. In NE direction is a 6 m high tree only a few meters from the station.

Height of anemometer: 10.0 m a.g.l. *Period:* 1990010101 - 1995123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	400	0.100	0	0.0	0	0.0				
30	0.030	800	0.200	1800	0.300	0	0.0				
60	0.030	500	0.050	1100	0.400	0	0.0				
90	0.030	800	0.100	0	0.0	0	0.0				
120	0.030	700	0.600	0	0.0	0	0.0				
150	0.030	800	0.600	0	0.0	0	0.0				
180	0.030	400	0.600	0	0.0	0	0.0				
210	0.030	350	0.600	1500	0.100	3000	0.600				
240	0.030	500	0.400	0	0.0	0	0.0				
270	0.030	450	0.600	1750	0.400	3500	0.600				
300	0.030	500	0.500	0	0.0	0	0.0				
330	0.030	500	0.100	1000	0.200	2000	0.600				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.5	224	248	292	135	78	23	0	0	0	0	0	0	0	0	2.5	1.96
30	1.7	303	311	244	87	43	12	0	0	0	0	0	0	0	0	2.1	1.67
60	2.3	255	288	261	117	39	27	11	3	0	0	0	0	0	0	2.3	1.61
90	20.0	57	159	210	209	164	111	49	24	9	7	0	0	0	0	4.0	2.07
120	16.1	55	165	175	165	161	120	77	40	21	16	5	0	0	0	4.4	1.92
150	3.0	185	250	247	159	87	46	13	5	5	3	0	0	0	0	2.8	1.65
180	1.6	344	284	217	116	26	6	4	1	1	0	0	0	0	0	2.0	1.55
210	3.2	206	362	287	107	27	6	3	1	1	0	0	0	0	0	2.2	1.85
240	11.9	70	181	232	199	143	89	45	23	12	6	0	0	0	0	3.8	1.88
270	16.8	48	148	228	213	144	84	58	36	25	13	2	0	0	0	4.1	1.77
300	15.0	56	160	215	208	150	92	52	37	18	10	1	0	0	0	4.0	1.87
330	6.0	111	218	228	195	128	65	33	15	4	3	0	0	0	0	3.4	1.83
Total	100.0	86	183	219	188	138	87	48	27	14	9	1	0	0	0	3.8	1.77

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.6	3.4	3.4	2.8	2.4	2.1	2.2	2.3	2.7	3.3	3.2	3.3	2.9
1	3.7	3.4	3.3	2.8	2.4	2.2	2.1	2.1	2.7	3.3	3.2	3.3	2.9
2	3.8	3.4	3.4	2.8	2.4	2.2	2.0	2.1	2.7	3.3	3.2	3.4	2.9
3	3.7	3.3	3.3	2.8	2.4	2.0	2.0	2.1	2.6	3.3	3.2	3.4	2.9
4	3.7	3.3	3.3	2.8	2.5	2.0	2.0	2.1	2.6	3.2	3.3	3.4	2.9
5	3.7	3.3	3.3	2.8	2.4	1.9	1.9	2.2	2.7	3.2	3.2	3.4	2.9
6	3.6	3.2	3.4	2.8	2.5	2.0	2.0	2.2	2.7	3.2	3.1	3.4	2.9
7	3.6	3.1	3.4	2.9	2.6	2.3	1.9	2.0	2.7	3.2	3.2	3.5	2.9
8	3.6	3.2	3.5	3.3	3.0	2.7	2.3	2.4	2.9	3.3	3.2	3.5	3.1
9	3.6	3.3	3.7	3.7	3.3	3.0	2.8	2.7	3.2	3.5	3.3	3.4	3.3
10	3.7	3.4	4.1	4.0	3.6	3.2	3.0	3.0	3.5	3.9	3.5	3.5	3.6
11	4.0	3.7	4.4	4.2	3.8	3.4	3.3	3.2	3.8	4.0	3.7	3.6	3.8
12	4.3	4.0	4.7	4.3	4.0	3.5	3.4	3.3	3.9	4.1	3.8	3.7	3.9
13	4.5	4.1	4.8	4.4	4.1	3.7	3.4	3.3	3.9	4.2	4.0	3.8	4.0
14	4.5	4.2	4.9	4.5	4.2	3.7	3.4	3.4	3.9	4.2	3.9	3.8	4.1
15	4.4	4.2	5.0	4.4	4.2	3.8	3.3	3.5	3.9	4.1	3.8	3.8	4.0
16	4.3	4.0	4.8	4.4	4.0	3.7	3.2	3.3	3.7	4.0	3.6	3.6	3.9
17	3.9	3.7	4.5	4.2	4.0	3.6	3.1	3.2	3.3	3.6	3.4	3.4	3.7
18	3.8	3.4	3.9	3.7	3.7	3.3	2.9	2.9	2.8	3.3	3.4	3.5	3.4
19	3.7	3.4	3.5	3.1	3.1	3.0	2.6	2.5	2.6	3.4	3.4	3.4	3.2
20	3.7	3.4	3.5	2.9	2.6	2.4	2.1	2.2	2.8	3.4	3.4	3.4	3.0
21	3.6	3.4	3.5	2.9	2.5	2.3	2.0	2.2	2.7	3.3	3.4	3.4	3.0
22	3.6	3.3	3.5	2.9	2.5	2.3	2.2	2.2	2.7	3.3	3.3	3.4	3.0
23	3.7	3.3	3.4	2.8	2.5	2.3	2.2	2.1	2.6	3.3	3.2	3.3	2.9
Day	3.8	3.5	3.9	3.4	3.1	2.8	2.6	2.6	3.1	3.5	3.4	3.5	3.3

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.82	4.03	4.33	5.76	6.35	6.31	4.02	3.66	5.78	6.62	6.61	5.96	6.00
	2.10	2.10	1.83	2.40	2.19	2.06	1.86	2.01	2.07	2.10	2.14	2.15	2.05
25	5.27	4.41	4.74	6.30	6.95	6.91	4.40	4.01	6.33	7.24	7.23	6.53	6.56
	2.17	2.17	1.89	2.47	2.26	2.13	1.92	2.08	2.13	2.17	2.21	2.22	2.11
50	5.66	4.74	5.10	6.76	7.47	7.42	4.73	4.31	6.80	7.78	7.77	7.01	7.05
	2.22	2.22	1.94	2.54	2.32	2.18	1.97	2.13	2.19	2.23	2.26	2.28	2.16
100	6.14	5.14	5.52	7.34	8.10	8.05	5.13	4.67	7.37	8.44	8.43	7.60	7.65
	2.15	2.15	1.88	2.46	2.25	2.12	1.90	2.06	2.12	2.16	2.19	2.21	2.10
200	6.79	5.68	6.09	8.12	8.95	8.89	5.65	5.16	8.14	9.32	9.31	8.40	8.44
	2.04	2.04	1.78	2.33	2.13	2.00	1.80	1.96	2.01	2.04	2.08	2.09	1.99
Freq	4.1	2.1	2.3	12.1	17.7	8.7	2.2	2.4	8.2	14.7	15.6	9.9	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.20	2.75	3.10	4.03	4.67	3.97	2.63	2.63	4.20	4.71	4.54	3.96	4.18
	1.77	1.71	1.54	2.05	1.85	1.62	1.54	1.78	1.82	1.77	1.82	1.80	1.74
25	3.84	3.30	3.74	4.83	5.60	4.77	3.17	3.15	5.04	5.66	5.45	4.76	5.02
	1.91	1.84	1.66	2.22	2.00	1.75	1.66	1.92	1.96	1.92	1.96	1.94	1.88
50	4.45	3.83	4.35	5.58	6.49	5.55	3.69	3.66	5.84	6.56	6.31	5.51	5.83
	2.15	2.07	1.87	2.49	2.24	1.97	1.87	2.16	2.20	2.15	2.20	2.18	2.09
100	5.28	4.55	5.18	6.61	7.70	6.60	4.39	4.34	6.93	7.79	7.49	6.54	6.92
	2.28	2.20	1.98	2.65	2.39	2.09	1.99	2.30	2.35	2.29	2.35	2.32	2.21
200	6.57	5.66	6.43	8.23	9.58	8.20	5.46	5.40	8.63	9.68	9.32	8.14	8.60
	2.18	2.10	1.90	2.53	2.28	2.00	1.90	2.19	2.24	2.19	2.24	2.22	2.12
Freq	3.2	1.9	2.5	16.6	16.5	5.5	1.9	2.9	10.4	15.8	15.1	7.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.72	2.36	2.73	3.53	4.17	3.18	2.20	2.27	3.69	4.11	3.95	3.36	3.65
	1.82	1.66	1.53	2.04	1.87	1.55	1.51	1.76	1.84	1.75	1.84	1.79	1.74
25	3.37	2.93	3.39	4.36	5.16	3.95	2.74	2.81	4.57	5.08	4.88	4.15	4.51
	1.95	1.77	1.63	2.18	2.00	1.66	1.62	1.88	1.97	1.87	1.97	1.92	1.85
50	3.95	3.44	4.01	5.10	6.06	4.66	3.23	3.30	5.36	5.98	5.73	4.88	5.31
	2.15	1.96	1.81	2.41	2.21	1.83	1.79	2.08	2.18	2.07	2.17	2.12	2.04
100	4.71	4.11	4.79	6.07	7.21	5.57	3.87	3.93	6.39	7.13	6.83	5.82	6.33
	2.37	2.15	1.99	2.65	2.43	2.02	1.96	2.29	2.40	2.28	2.39	2.33	2.22
200	5.82	5.07	5.90	7.50	8.90	6.86	4.77	4.85	7.88	8.79	8.43	7.18	7.81
	2.26	2.06	1.90	2.54	2.33	1.93	1.88	2.19	2.30	2.18	2.29	2.23	2.13
Freq	2.9	1.8	2.6	18.2	16.0	4.3	1.8	3.0	11.3	16.2	15.0	6.8	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.06	1.86	2.29	2.81	3.36	2.13	1.71	1.91	2.96	3.25	3.08	2.55	2.88
	1.83	1.64	1.61	2.06	1.89	1.61	1.55	1.72	1.87	1.75	1.84	1.84	1.76
25	2.71	2.45	3.02	3.69	4.43	2.82	2.26	2.52	3.91	4.29	4.06	3.36	3.80
	1.94	1.74	1.71	2.18	2.01	1.70	1.64	1.82	1.98	1.85	1.95	1.95	1.85
50	3.28	2.97	3.67	4.46	5.35	3.42	2.74	3.05	4.72	5.19	4.91	4.07	4.60
	2.11	1.88	1.85	2.37	2.18	1.85	1.78	1.98	2.15	2.01	2.12	2.12	2.00
100	3.95	3.60	4.44	5.36	6.45	4.14	3.32	3.69	5.69	6.27	5.92	4.90	5.56
	2.40	2.14	2.11	2.70	2.48	2.10	2.03	2.26	2.45	2.30	2.41	2.41	2.25
200	4.83	4.39	5.42	6.56	7.88	5.05	4.06	4.51	6.96	7.66	7.23	5.99	6.79
	2.32	2.06	2.03	2.60	2.39	2.03	1.96	2.17	2.37	2.21	2.32	2.32	2.17
Freq	2.5	1.8	3.4	19.6	15.4	2.9	1.7	3.5	12.3	16.8	14.5	5.8	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	5.3	171	3.7	70	3.2	46	2.6	22
25	5.8	218	4.5	110	4.0	81	3.4	48
50	6.2	265	5.2	153	4.7	119	4.1	79
100	6.8	347	6.1	244	5.6	187	4.9	125
200	7.5	492	7.6	488	6.9	363	6.0	235

INNSBRUCK-FLUGHAFEN 47°15'37"N 11°21'19"E UTM 32 E 678194 m N 5236880 m 579 m a.s.l.

Located near the runway at the airport of Innsbruck, 3 km W of the city centre, within the Inn valley. In the North and South are mountains of more than 2600 m altitude.

Height of anemometer: 8.0 m a.g.l. *Period:* 1980010101 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	400	0.400	1200	0.600	3500	0.100				
30	0.030	500	0.400	0	0.0	0	0.0				
60	0.030	600	0.500	0	0.0	0	0.0				
90	0.030	400	0.500	0	0.0	0	0.0				
120	0.030	350	0.400	1800	0.600	0	0.0				
150	0.030	200	0.400	1200	0.600	0	0.0				
180	0.030	500	0.300	1000	0.400	0	0.0				
210	0.100	1600	0.400	0	0.0	0	0.0				
240	0.030	1500	0.400	0	0.0	0	0.0				
270	0.030	2000	0.100	0	0.0	0	0.0				
300	0.030	400	0.200	1300	0.400	0	0.0				
330	0.030	400	0.400	1000	0.600	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.9	927	22	18	12	6	7	6	2	0	0	0	0	0	0	0.7	0.79
30	5.0	736	90	61	43	27	21	14	4	3	1	0	0	0	0	0.7	0.68
60	12.6	303	191	207	154	79	45	16	5	1	0	0	0	0	0	2.6	1.59
90	15.0	263	219	211	154	84	48	16	4	1	0	0	0	0	0	2.7	1.62
120	8.9	430	169	102	51	45	61	57	40	25	20	1	0	0	0	2.4	0.99
150	6.3	597	119	29	30	38	56	51	43	25	10	1	0	0	0	1.5	0.78
180	4.4	871	80	13	19	8	4	3	1	1	0	0	0	0	0	0.7	0.83
210	4.5	847	102	18	16	8	2	3	2	1	0	1	0	0	0	0.7	0.84
240	10.6	405	279	109	85	44	31	19	16	8	4	0	0	0	0	1.8	0.98
270	18.4	240	251	183	148	98	49	14	6	5	4	1	0	0	0	2.7	1.46
300	6.2	607	128	99	81	45	17	8	4	4	7	0	0	0	0	1.3	0.87
330	4.2	889	39	30	25	8	6	2	1	0	0	0	0	0	0	0.7	0.81
Total	100.0	465	178	126	95	57	37	19	11	6	4	0	0	0	0	1.9	1.05

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.2	0.9	1.2	1.3	1.3	0.6	0.7	0.5	0.5	0.9	1.2	1.5	1.0
1	1.2	1.1	1.2	1.2	1.2	0.8	0.4	0.5	0.6	1.0	1.0	1.1	1.0
2	1.1	1.1	1.1	1.1	1.2	0.7	0.4	0.5	0.7	1.1	1.1	1.2	0.9
3	1.1	1.0	1.1	1.2	1.1	0.6	0.5	0.4	0.6	0.9	1.2	1.3	0.9
4	1.2	1.0	1.1	1.2	1.0	0.6	0.4	0.4	0.6	1.0	1.2	1.4	0.9
5	1.3	1.1	1.1	1.1	1.1	0.5	0.5	0.4	0.7	1.0	0.9	1.2	0.9
6	1.2	1.0	1.1	1.1	1.1	0.7	0.5	0.4	0.6	0.9	1.0	1.2	0.9
7	1.3	0.9	1.1	1.2	1.4	0.9	0.7	0.4	0.7	1.0	1.2	1.3	1.0
8	1.2	1.0	1.2	1.6	1.8	1.2	0.9	0.8	0.8	1.0	1.1	1.1	1.1
9	1.2	1.2	1.5	1.9	2.2	1.6	1.2	0.9	1.2	1.3	1.2	1.1	1.4
10	1.2	1.3	2.1	2.5	2.7	1.7	1.3	1.1	1.5	1.4	1.4	1.3	1.6
11	1.2	1.3	2.7	2.7	3.3	1.9	1.6	1.1	1.8	1.7	1.7	1.5	1.8
12	1.6	1.4	2.8	3.3	3.6	2.3	2.0	1.5	1.8	1.8	1.8	1.7	2.1
13	1.9	1.5	3.1	3.6	3.9	2.8	2.5	2.0	1.9	2.3	2.0	1.6	2.4
14	1.8	1.4	3.5	3.9	4.2	3.1	2.8	2.5	2.4	2.3	1.9	1.7	2.6
15	1.8	1.7	3.6	4.3	4.2	3.2	3.1	2.9	2.5	2.6	2.0	1.6	2.8
16	1.6	2.0	3.5	4.3	4.0	3.3	3.4	3.3	2.7	2.6	1.8	1.5	2.9
17	1.5	2.0	3.5	4.3	4.1	3.7	3.5	3.3	2.5	2.2	1.6	1.3	2.8
18	1.4	1.7	3.3	4.1	3.9	3.4	3.3	2.7	1.8	1.6	1.4	1.1	2.5
19	1.2	1.4	2.7	3.6	3.4	2.8	2.8	1.7	1.1	1.1	1.3	1.1	2.0
20	1.1	1.2	2.1	2.9	2.8	2.1	1.8	1.0	0.8	1.0	1.3	1.1	1.6
21	1.3	0.9	1.6	2.2	2.1	1.3	1.0	0.7	0.7	0.9	1.2	1.5	1.3
22	1.3	0.9	1.5	1.8	1.8	1.0	0.8	0.7	0.6	0.8	1.1	1.3	1.1
23	1.2	0.7	1.1	1.4	1.5	0.7	0.7	0.6	0.6	1.0	1.2	1.4	1.0
Day	1.3	1.2	2.0	2.4	2.4	1.7	1.5	1.2	1.2	1.4	1.4	1.3	1.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.36	1.54	4.94	5.18	4.77	3.33	1.51	1.64	3.27	4.43	2.67	1.52	3.63
	0.94	0.80	1.88	1.93	1.08	0.83	1.02	0.95	1.15	1.75	1.02	0.99	1.15
25	1.51	1.72	5.41	5.67	5.22	3.64	1.68	1.81	3.61	4.86	2.96	1.69	3.99
	0.97	0.81	1.94	1.99	1.10	0.84	1.05	0.98	1.19	1.80	1.05	1.02	1.18
50	1.64	1.88	5.82	6.10	5.61	3.91	1.82	1.97	3.91	5.23	3.21	1.83	4.31
	0.99	0.83	1.99	2.05	1.13	0.85	1.08	1.01	1.22	1.85	1.08	1.05	1.21
100	1.75	2.00	6.30	6.61	5.98	4.15	1.95	2.11	4.20	5.66	3.44	1.96	4.64
	0.97	0.81	1.93	1.98	1.11	0.85	1.04	0.98	1.18	1.79	1.04	1.02	1.19
200	1.89	2.14	6.95	7.29	6.40	4.40	2.11	2.28	4.57	6.24	3.73	2.12	5.07
	0.92	0.77	1.83	1.87	1.08	0.83	0.99	0.93	1.12	1.70	0.99	0.97	1.16
Freq	3.9	5.0	12.6	15.0	8.9	6.3	4.4	4.5	10.6	18.4	6.2	4.2	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	0.71	1.22	3.33	3.50	3.20	2.25	0.79	0.94	2.25	3.01	1.73	0.86	2.41
	0.74	0.78	1.57	1.61	0.98	0.78	0.77	0.78	1.03	1.48	0.88	0.79	1.03
25	0.90	1.53	4.01	4.21	3.83	2.67	0.99	1.18	2.76	3.63	2.15	1.07	2.93
	0.78	0.83	1.70	1.74	1.02	0.80	0.83	0.83	1.10	1.59	0.95	0.85	1.08
50	1.11	1.88	4.67	4.90	4.43	3.06	1.21	1.45	3.29	4.23	2.60	1.31	3.45
	0.87	0.92	1.90	1.95	1.08	0.82	0.91	0.92	1.23	1.79	1.05	0.94	1.17
100	1.36	2.29	5.55	5.82	5.17	3.58	1.48	1.77	3.95	5.04	3.15	1.60	4.14
	0.91	0.97	2.03	2.08	1.15	0.87	0.97	0.97	1.31	1.90	1.12	0.99	1.25
200	1.65	2.79	6.90	7.23	6.01	4.03	1.80	2.16	4.87	6.26	3.86	1.95	5.07
	0.88	0.93	1.94	1.99	1.12	0.85	0.93	0.93	1.25	1.81	1.07	0.95	1.24
Freq	3.9	5.0	12.6	15.0	8.9	6.3	4.4	4.5	10.6	18.4	6.2	4.2	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	0.67	0.95	2.89	3.03	2.78	2.04	0.72	0.74	1.82	2.60	1.52	0.69	2.07
	0.77	0.74	1.56	1.61	0.98	0.80	0.80	0.74	0.98	1.47	0.89	0.76	1.02
25	0.86	1.22	3.58	3.76	3.44	2.51	0.92	0.96	2.30	3.23	1.94	0.89	2.59
	0.81	0.78	1.67	1.72	1.02	0.82	0.85	0.79	1.04	1.57	0.95	0.81	1.07
50	1.06	1.52	4.23	4.44	4.04	2.93	1.14	1.19	2.78	3.82	2.37	1.10	3.10
	0.88	0.85	1.85	1.90	1.07	0.84	0.92	0.85	1.14	1.74	1.04	0.88	1.14
100	1.32	1.90	5.05	5.30	4.79	3.46	1.42	1.48	3.40	4.58	2.91	1.37	3.75
	0.96	0.92	2.03	2.09	1.17	0.90	1.01	0.93	1.24	1.91	1.13	0.95	1.24
200	1.60	2.30	6.23	6.53	5.58	3.96	1.72	1.79	4.15	5.63	3.54	1.66	4.57
	0.92	0.88	1.94	2.00	1.13	0.88	0.97	0.89	1.19	1.83	1.09	0.92	1.23
Freq	3.9	5.0	12.6	15.0	8.9	6.3	4.4	4.5	10.6	18.4	6.2	4.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	0.70	0.65	2.26	2.38	2.20	1.51	0.73	0.73	1.61	2.05	1.17	0.70	1.66
	0.91	0.69	1.57	1.61	1.00	0.77	0.94	0.85	1.08	1.49	0.88	0.88	1.04
25	0.94	0.89	2.99	3.14	2.90	1.98	0.98	0.99	2.16	2.72	1.59	0.94	2.22
	0.96	0.73	1.67	1.71	1.03	0.79	0.99	0.89	1.14	1.58	0.93	0.93	1.09
50	1.18	1.14	3.63	3.81	3.52	2.38	1.22	1.24	2.66	3.30	1.98	1.18	2.72
	1.03	0.78	1.81	1.85	1.08	0.81	1.06	0.95	1.23	1.71	1.00	1.00	1.15
100	1.48	1.48	4.39	4.62	4.26	2.86	1.53	1.57	3.29	4.01	2.49	1.48	3.34
	1.16	0.87	2.06	2.11	1.17	0.85	1.20	1.08	1.40	1.95	1.13	1.13	1.27
200	1.78	1.78	5.36	5.64	5.04	3.35	1.85	1.90	3.99	4.89	3.01	1.79	4.06
	1.12	0.84	1.98	2.03	1.17	0.86	1.16	1.04	1.35	1.88	1.09	1.09	1.27
Freq	3.9	5.0	12.6	15.0	8.9	6.3	4.4	4.5	10.6	18.4	6.2	4.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	3.5	108	2.4	46	2.1	30	1.6	14
25	3.8	136	2.8	70	2.5	50	2.1	29
50	4.1	161	3.3	90	3.0	69	2.6	46
100	4.4	209	3.9	129	3.5	97	3.1	65
200	4.8	293	4.7	245	4.3	182	3.8	117

LINZ-HÖRSCHING

48°14'10" N 14°12'12" E UTM 33 E 440841 m N 5342955 m 298 m a.s.l.

Located near the runway at the airport of Linz, 10 km SW of the city centre, in flat terrain. The highest point within a 10x10 km square is 380 m, the lowest 275 m.

Height of anemometer: 8.0 m a.g.l. *Period:* 1981010101 - 1989123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.0	925	0.146	0	0.0	0	0.0				
30	0.0	190	0.025	1800	0.209	0	0.0				
60	0.0	190	0.400	0	0.0	0	0.0				
90	0.0	1750	0.209	3750	0.292	0	0.0				
120	0.0	1050	0.100	2500	0.292	0	0.0				
150	0.0	1050	0.100	2500	0.146	0	0.0				
180	0.0	1000	0.292	2500	0.146	0	0.0				
210	0.0	1050	0.292	2250	0.100	0	0.0				
240	0.0	1625	0.100	0	0.0	0	0.0				
270	0.0	1000	0.113	2500	0.209	0	0.0				
300	0.0	500	0.163	1000	0.100	2500	0.400				
330	0.0	250	0.146	500	0.209	1000	0.146				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.9	339	421	148	44	23	14	7	3	0	1	0	0	0	0	1.7	1.31
30	2.9	352	448	120	38	23	13	2	3	0	0	0	0	0	0	1.7	1.38
60	4.9	199	382	235	106	47	20	6	3	1	1	0	0	0	0	2.2	1.48
90	15.6	68	173	207	205	135	87	49	34	20	17	4	0	0	0	4.0	1.70
120	10.5	91	188	210	190	134	83	45	28	16	11	3	1	0	0	3.8	1.68
150	2.8	315	384	181	73	23	12	6	5	1	0	0	0	0	0	1.9	1.37
180	2.2	418	425	100	32	9	5	5	1	0	5	1	0	0	0	1.6	1.16
210	2.8	317	422	171	54	18	8	4	1	2	1	1	0	0	0	1.8	1.35
240	8.8	119	315	258	152	81	42	20	7	4	2	0	0	0	0	2.8	1.61
270	25.5	46	166	191	164	125	99	72	50	35	37	12	3	0	0	4.5	1.58
300	15.7	74	193	162	131	117	111	73	52	33	38	12	2	0	0	4.5	1.61
330	5.4	184	334	213	122	68	40	17	10	5	5	1	0	0	0	2.5	1.34
Total	100.0	121	241	194	146	101	73	46	31	20	20	6	1	0	0	3.5	1.39

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.5	2.9	2.9	2.9	2.6	2.2	2.0	2.0	1.9	2.2	2.7	3.1	2.6
1	3.3	3.0	2.8	2.8	2.5	2.1	1.9	1.9	1.8	2.1	2.6	3.1	2.5
2	3.6	2.9	2.7	2.8	2.4	2.0	1.7	1.9	1.9	2.1	2.7	3.2	2.5
3	3.2	3.1	2.6	2.7	2.3	2.1	1.8	1.8	1.8	2.1	2.7	3.2	2.4
4	3.3	3.0	2.8	2.7	2.2	2.1	1.6	1.9	1.6	2.1	2.8	3.1	2.4
5	3.3	2.9	2.7	2.7	2.2	1.9	1.6	1.8	1.8	2.2	2.8	3.2	2.4
6	3.3	3.0	2.6	2.7	2.2	2.1	1.5	1.8	1.6	2.0	2.6	3.1	2.4
7	3.4	2.9	2.7	2.7	2.5	2.5	1.9	2.0	1.7	2.0	2.7	3.3	2.5
8	3.4	2.8	2.8	3.4	3.0	3.0	2.4	2.4	2.0	2.2	2.7	3.3	2.8
9	3.3	3.0	3.3	4.0	3.5	3.5	2.9	3.0	2.6	2.7	3.0	3.4	3.2
10	3.4	3.2	3.9	4.2	3.8	3.7	3.3	3.4	3.1	3.0	3.3	3.4	3.5
11	3.6	3.5	4.2	4.6	4.0	4.0	3.6	3.5	3.5	3.5	3.7	3.6	3.8
12	3.8	3.8	4.4	4.7	4.2	4.1	3.8	3.8	3.7	3.6	3.6	3.7	3.9
13	3.9	4.0	4.6	4.8	4.2	4.1	3.9	4.1	3.7	3.7	3.7	4.0	4.0
14	4.0	4.2	4.5	4.7	4.3	4.2	3.9	4.2	3.8	3.7	3.6	4.0	4.1
15	3.9	4.0	4.4	4.8	4.3	4.2	4.1	4.1	3.6	3.8	3.6	3.9	4.0
16	3.7	3.9	4.3	4.6	4.3	4.1	4.0	3.8	3.5	3.4	3.3	3.8	3.9
17	3.5	3.5	4.0	4.4	4.1	3.9	3.7	3.6	3.2	3.0	3.0	3.6	3.6
18	3.5	3.2	3.6	4.0	3.8	3.7	3.3	3.1	2.6	2.6	2.9	3.5	3.3
19	3.4	3.1	3.2	3.5	3.5	3.1	2.9	2.6	2.3	2.4	2.8	3.5	3.0
20	3.3	3.0	3.1	3.1	3.0	2.6	2.4	2.4	2.0	2.3	2.8	3.4	2.8
21	3.3	3.2	3.1	3.1	2.9	2.6	2.2	2.3	2.0	2.4	2.8	3.3	2.8
22	3.4	3.0	2.9	2.9	2.8	2.3	2.3	2.1	2.0	2.3	2.7	3.4	2.7
23	3.5	3.2	2.9	2.9	2.7	2.1	2.1	2.1	1.9	2.2	2.8	3.3	2.6
Day	3.5	3.3	3.4	3.6	3.2	3.0	2.7	2.7	2.5	2.6	3.0	3.4	3.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.15	2.50	3.61	5.16	5.18	4.19	2.25	2.28	3.40	5.75	6.37	5.43	4.97
	1.43	1.56	1.61	2.00	2.02	1.73	1.42	1.48	1.85	1.80	1.89	1.66	1.63
25	3.46	2.74	3.97	5.65	5.67	4.59	2.48	2.50	3.72	6.30	6.97	5.96	5.45
	1.48	1.61	1.66	2.06	2.08	1.77	1.47	1.53	1.90	1.86	1.95	1.71	1.67
50	3.73	2.95	4.27	6.07	6.09	4.94	2.67	2.70	4.00	6.77	7.50	6.41	5.87
	1.51	1.65	1.70	2.12	2.13	1.82	1.50	1.57	1.95	1.90	2.00	1.76	1.71
100	4.03	3.19	4.62	6.58	6.60	5.34	2.88	2.91	4.33	7.33	8.12	6.94	6.35
	1.47	1.60	1.65	2.05	2.07	1.77	1.46	1.52	1.89	1.85	1.94	1.70	1.67
200	4.42	3.51	5.08	7.26	7.29	5.89	3.16	3.20	4.78	8.09	8.96	7.64	6.99
	1.39	1.52	1.56	1.94	1.96	1.67	1.38	1.44	1.79	1.75	1.83	1.61	1.59
Freq	3.9	2.9	4.1	11.8	12.4	5.6	2.4	2.6	6.5	19.6	19.2	9.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.81	1.79	2.82	3.66	3.61	2.10	1.53	1.70	2.48	4.19	4.56	3.11	3.45
	1.21	1.33	1.52	1.71	1.69	1.22	1.21	1.38	1.62	1.58	1.61	1.30	1.42
25	2.20	2.16	3.40	4.40	4.34	2.56	1.86	2.05	2.99	5.04	5.48	3.78	4.17
	1.31	1.44	1.65	1.85	1.82	1.31	1.30	1.49	1.75	1.71	1.73	1.40	1.51
50	2.60	2.54	3.96	5.11	5.04	3.01	2.20	2.40	3.47	5.87	6.37	4.43	4.87
	1.46	1.61	1.85	2.07	2.05	1.47	1.46	1.67	1.97	1.92	1.95	1.57	1.66
100	3.11	3.03	4.72	6.06	5.99	3.61	2.63	2.86	4.13	6.98	7.58	5.29	5.80
	1.55	1.71	1.97	2.21	2.18	1.56	1.54	1.77	2.09	2.05	2.07	1.67	1.75
200	3.84	3.75	5.86	7.54	7.44	4.46	3.25	3.55	5.13	8.67	9.42	6.55	7.19
	1.48	1.63	1.88	2.11	2.08	1.49	1.48	1.70	2.00	1.95	1.98	1.60	1.69
Freq	3.2	2.8	4.6	14.6	11.1	3.6	2.3	2.7	8.2	23.7	16.7	6.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.54	1.63	2.51	3.18	3.15	1.62	1.33	1.55	2.16	3.71	4.06	2.49	3.03
	1.37	1.41	1.52	1.70	1.69	1.45	1.19	1.44	1.60	1.62	1.63	1.34	1.43
25	1.92	2.03	3.12	3.94	3.90	2.02	1.67	1.93	2.68	4.60	5.03	3.11	3.77
	1.46	1.50	1.63	1.81	1.81	1.54	1.27	1.54	1.71	1.73	1.75	1.43	1.51
50	2.28	2.40	3.68	4.64	4.59	2.39	1.99	2.28	3.16	5.42	5.92	3.69	4.45
	1.61	1.66	1.80	2.01	2.00	1.71	1.40	1.70	1.89	1.91	1.94	1.58	1.64
100	2.74	2.88	4.41	5.54	5.47	2.86	2.40	2.73	3.78	6.47	7.08	4.43	5.34
	1.77	1.82	1.98	2.21	2.19	1.87	1.54	1.86	2.08	2.10	2.12	1.74	1.77
200	3.37	3.55	5.43	6.83	6.75	3.52	2.95	3.36	4.66	7.98	8.72	5.45	6.57
	1.69	1.74	1.89	2.11	2.10	1.79	1.48	1.78	1.99	2.01	2.03	1.66	1.71
Freq	3.0	2.8	4.8	15.6	10.6	2.8	2.2	2.8	8.7	25.3	15.8	5.5	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.18	1.45	2.13	2.56	2.45	1.22	1.01	1.38	2.01	2.97	3.15	1.93	2.40
	1.33	1.43	1.56	1.75	1.67	1.37	1.14	1.47	1.40	1.64	1.62	1.37	1.44
25	1.57	1.92	2.82	3.38	3.24	1.62	1.35	1.83	2.66	3.92	4.17	2.56	3.18
	1.41	1.51	1.65	1.86	1.77	1.45	1.21	1.55	1.49	1.74	1.71	1.45	1.51
50	1.91	2.34	3.42	4.08	3.93	1.98	1.66	2.22	3.24	4.75	5.05	3.12	3.86
	1.53	1.64	1.79	2.01	1.92	1.58	1.30	1.69	1.61	1.88	1.86	1.57	1.62
100	2.33	2.84	4.14	4.93	4.75	2.41	2.05	2.70	3.95	5.75	6.12	3.81	4.70
	1.74	1.87	2.04	2.30	2.19	1.79	1.48	1.92	1.83	2.15	2.12	1.78	1.81
200	2.84	3.46	5.06	6.03	5.80	2.94	2.49	3.29	4.81	7.02	7.47	4.64	5.73
	1.67	1.79	1.96	2.21	2.11	1.73	1.43	1.85	1.77	2.07	2.04	1.72	1.75
Freq	2.8	3.0	6.5	14.8	9.6	2.7	2.3	3.7	10.8	23.9	14.6	5.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.5	130	3.1	56	2.8	37	2.2	18
25	4.9	165	3.8	87	3.4	64	2.9	38
50	5.2	199	4.3	118	4.0	92	3.5	61
100	5.7	262	5.2	186	4.8	143	4.2	95
200	6.3	378	6.4	375	5.9	280	5.1	179

STIXNEUSIEDL

48°03'00" N 16°40'32" E UTM 33 E 624872 m N 5323320 m 230 m a.s.l.

Located on the small hill Geißberg, 500 m NE of the village Stixneusiedl. The surrounding terrain is rather flat, altitudes within a 10x10 km square range from 160 m to 260 m. The station is influenced by nearby buildings and trees.

Height of anemometer: 10.0 m a.g.l. *Period:* 1990010101 - 1995123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	500	0.100	1500	0.300	0	0.0				
30	0.030	400	0.050	1300	0.300	0	0.0				
60	0.030	300	0.100	1500	0.300	0	0.0				
90	0.030	200	0.100	1300	0.200	2600	0.030				
120	0.150	2500	0.030	0	0.0	0	0.0				
150	0.200	700	0.030	0	0.0	0	0.0				
180	0.300	500	0.400	1000	0.030	0	0.0				
210	0.200	800	0.070	0	0.0	0	0.0				
240	0.100	0	0.0	0	0.0	0	0.0				
270	0.100	0	0.0	0	0.0	0	0.0				
300	0.030	1200	0.100	0	0.0	0	0.0				
330	0.030	1300	0.200	0	0.0	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	7.5	47	125	205	214	162	100	71	38	22	15	2	0	0	0	4.3	1.89
30	2.4	149	235	250	178	98	37	31	15	4	4	0	0	0	0	3.0	1.65
60	1.8	212	407	264	78	24	9	7	0	0	0	0	0	0	0	2.1	1.72
90	10.6	49	205	297	246	121	49	18	8	3	3	1	0	0	0	3.4	2.03
120	15.0	29	157	256	219	165	95	49	19	7	3	0	0	0	0	3.9	2.12
150	8.9	48	169	241	222	168	95	40	12	4	1	0	0	0	0	3.8	2.23
180	2.2	154	305	184	132	102	83	34	3	3	1	0	0	0	0	2.9	1.56
210	2.3	170	437	210	71	47	26	18	9	5	4	3	0	0	0	2.1	1.14
240	5.6	78	424	382	64	21	13	10	3	3	1	0	0	0	0	2.4	1.79
270	12.7	35	217	233	101	86	75	75	58	37	54	22	4	1	0	4.4	1.39
300	19.0	21	64	93	126	160	148	137	98	61	64	19	7	1	0	6.2	2.25
330	12.1	27	62	139	190	178	147	112	69	34	33	8	0	0	0	5.3	2.18
Total	100.0	48	170	212	168	135	95	70	43	24	25	8	2	0	0	4.3	1.62

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.1	4.2	4.3	3.7	3.1	3.1	2.9	2.9	3.1	3.1	4.0	4.2	3.5
1	4.1	4.1	4.2	3.7	3.2	3.1	2.9	2.8	3.1	3.0	3.9	4.2	3.5
2	4.1	4.1	4.2	3.7	3.2	3.0	2.9	2.8	3.1	3.1	4.0	4.2	3.5
3	4.0	4.3	4.0	3.8	3.2	3.1	2.9	2.9	3.1	3.2	4.0	4.2	3.5
4	4.0	4.1	4.0	3.9	3.3	3.2	3.0	2.9	3.2	3.2	4.0	4.2	3.6
5	4.0	4.1	4.0	4.0	3.3	3.0	3.0	2.9	3.3	3.2	3.9	4.2	3.6
6	4.0	4.1	4.1	3.9	3.3	3.1	2.9	3.0	3.3	3.2	4.0	4.2	3.6
7	4.0	3.9	4.1	3.9	3.5	3.3	3.0	3.0	3.2	3.3	3.9	4.2	3.6
8	4.0	3.9	4.2	4.2	3.7	3.5	3.3	3.3	3.4	3.3	3.9	4.2	3.7
9	3.9	4.0	4.5	4.6	3.9	3.8	3.5	3.5	3.7	3.4	3.8	4.2	3.9
10	4.0	4.0	4.7	4.7	3.9	3.8	3.6	3.6	3.9	3.6	3.9	4.2	4.0
11	4.2	4.3	4.9	4.8	4.1	3.8	3.8	4.0	4.1	3.9	4.2	4.3	4.2
12	4.4	4.6	5.2	5.0	4.2	4.0	3.8	4.1	4.2	4.1	4.4	4.4	4.4
13	4.5	4.7	5.3	5.1	4.2	3.9	3.9	4.3	4.2	4.1	4.6	4.4	4.4
14	4.6	4.7	5.2	5.1	4.2	4.0	4.1	4.3	4.1	4.0	4.5	4.4	4.4
15	4.6	4.7	5.2	5.0	4.3	4.0	4.2	4.2	4.1	3.8	4.5	4.3	4.4
16	4.5	4.6	5.2	4.9	4.2	3.8	4.0	4.1	3.9	3.6	4.3	4.3	4.3
17	4.3	4.2	4.9	4.7	4.0	3.7	3.8	3.9	3.6	3.2	4.1	4.2	4.1
18	4.1	4.0	4.6	4.4	3.6	3.4	3.6	3.7	3.3	3.1	4.1	4.1	3.8
19	4.0	4.0	4.3	3.9	3.2	3.1	3.1	3.2	3.3	3.1	4.1	4.1	3.6
20	4.1	4.0	4.2	3.7	3.1	3.0	2.8	3.0	3.3	3.1	4.1	4.1	3.5
21	4.3	3.9	4.1	3.8	3.1	3.0	2.8	3.0	3.3	3.0	4.1	4.1	3.5
22	4.2	4.0	4.0	3.7	3.1	3.1	2.8	3.0	3.3	3.1	4.2	4.1	3.5
23	4.1	4.1	4.2	3.7	3.0	3.1	2.8	2.9	3.2	3.2	4.2	4.2	3.5
Day	4.2	4.2	4.5	4.2	3.6	3.4	3.3	3.4	3.5	3.4	4.1	4.2	3.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.68	5.03	3.18	5.23	6.93	7.61	7.07	3.75	3.96	6.07	8.47	7.99	6.97
	2.32	1.98	1.92	2.32	2.30	2.51	2.30	1.41	1.94	1.37	2.34	2.52	2.00
25	7.30	5.51	3.48	5.72	7.58	8.32	7.74	4.13	4.34	6.64	9.26	8.74	7.62
	2.40	2.04	1.99	2.40	2.38	2.59	2.37	1.46	2.00	1.40	2.41	2.60	2.05
50	7.84	5.92	3.74	6.14	8.14	8.94	8.31	4.45	4.66	7.13	9.93	9.38	8.19
	2.46	2.10	2.04	2.46	2.44	2.65	2.43	1.49	2.05	1.43	2.47	2.67	2.10
100	8.51	6.41	4.05	6.67	8.83	9.70	9.02	4.80	5.05	7.64	10.75	10.18	8.86
	2.38	2.03	1.98	2.38	2.36	2.57	2.35	1.45	1.99	1.40	2.40	2.58	2.04
200	9.41	7.08	4.47	7.37	9.77	10.73	9.97	5.27	5.58	8.26	11.86	11.27	9.77
	2.26	1.92	1.87	2.25	2.24	2.44	2.23	1.37	1.88	1.35	2.28	2.44	1.96
Freq	8.9	3.6	1.7	6.5	14.0	11.8	4.8	2.1	3.6	9.4	18.1	15.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.29	2.92	2.05	3.76	5.11	5.46	4.27	2.19	2.87	4.61	6.04	5.34	4.85
	1.87	1.59	1.66	2.01	2.04	2.15	1.65	1.15	1.73	1.30	2.13	2.11	1.73
25	5.15	3.52	2.47	4.50	6.11	6.53	5.13	2.67	3.44	5.49	7.23	6.39	5.82
	2.02	1.72	1.79	2.17	2.20	2.32	1.79	1.24	1.87	1.36	2.30	2.28	1.84
50	5.96	4.09	2.87	5.20	7.06	7.54	5.96	3.16	3.99	6.32	8.34	7.38	6.74
	2.27	1.93	2.02	2.44	2.47	2.61	2.01	1.38	2.10	1.47	2.58	2.56	2.03
100	7.07	4.87	3.41	6.17	8.37	8.93	7.08	3.78	4.74	7.35	9.88	8.74	7.98
	2.42	2.05	2.15	2.60	2.63	2.78	2.13	1.47	2.24	1.57	2.75	2.73	2.15
200	8.80	6.05	4.24	7.68	10.42	11.13	8.80	4.68	5.90	8.71	12.29	10.89	9.87
	2.31	1.96	2.05	2.48	2.52	2.65	2.04	1.41	2.14	1.52	2.62	2.61	2.08
Freq	7.3	2.4	1.5	8.5	15.7	10.0	3.1	2.0	4.3	11.1	20.3	13.8	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.64	2.25	1.82	3.26	4.51	4.81	3.27	1.89	2.51	4.11	5.31	4.59	4.23
	1.88	1.62	1.75	2.00	2.07	2.17	1.49	1.20	1.74	1.33	2.18	2.13	1.74
25	4.50	2.79	2.25	4.03	5.57	5.93	4.07	2.37	3.11	5.06	6.55	5.66	5.23
	2.01	1.73	1.87	2.14	2.22	2.32	1.60	1.28	1.87	1.39	2.34	2.28	1.83
50	5.28	3.29	2.64	4.72	6.53	6.95	4.81	2.82	3.65	5.90	7.66	6.63	6.14
	2.23	1.91	2.07	2.37	2.45	2.57	1.77	1.41	2.06	1.48	2.59	2.53	1.99
100	6.29	3.93	3.15	5.62	7.76	8.26	5.75	3.41	4.36	6.94	9.11	7.88	7.31
	2.45	2.10	2.27	2.60	2.70	2.82	1.94	1.55	2.27	1.62	2.84	2.78	2.15
200	7.77	4.84	3.89	6.93	9.59	10.20	7.08	4.18	5.37	8.22	11.25	9.74	8.98
	2.35	2.01	2.17	2.49	2.58	2.70	1.86	1.48	2.17	1.56	2.72	2.66	2.09
Freq	6.8	2.0	1.5	9.3	16.3	9.3	2.5	2.0	4.6	11.9	20.8	13.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.85	1.78	1.94	2.76	3.59	3.76	2.32	1.72	2.10	3.50	4.14	3.58	3.34
	1.88	1.67	1.62	1.94	2.08	2.19	1.38	1.44	1.21	1.49	2.17	2.12	1.75
25	3.76	2.35	2.57	3.64	4.72	4.95	3.08	2.28	2.80	4.60	5.45	4.71	4.41
	2.00	1.77	1.72	2.06	2.21	2.32	1.46	1.52	1.28	1.55	2.30	2.24	1.84
50	4.55	2.85	3.11	4.39	5.69	5.97	3.75	2.77	3.44	5.54	6.56	5.67	5.33
	2.17	1.92	1.87	2.24	2.40	2.52	1.59	1.65	1.39	1.65	2.50	2.44	1.97
100	5.48	3.44	3.77	5.29	6.85	7.17	4.57	3.37	4.22	6.63	7.89	6.82	6.42
	2.47	2.19	2.12	2.55	2.74	2.87	1.80	1.88	1.57	1.83	2.85	2.78	2.19
200	6.70	4.20	4.60	6.47	8.38	8.77	5.57	4.11	5.13	7.94	9.65	8.35	7.83
	2.38	2.11	2.05	2.45	2.63	2.77	1.74	1.81	1.52	1.80	2.74	2.68	2.14
Freq	6.1	1.9	2.5	9.9	15.6	8.6	2.3	2.3	5.6	13.0	19.8	12.4	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.2	275	4.3	110	3.8	73	3.0	35
25	6.8	351	5.2	176	4.6	128	3.9	76
50	7.3	426	6.0	245	5.4	189	4.7	125
100	7.9	554	7.1	385	6.5	295	5.7	197
200	8.7	776	8.7	753	8.0	563	6.9	365

ST. LEONHARD/WALDE 47°59'42" N 14°51'43" E UTM 33 E 489700 m N 5315856 m 730 m a.s.l.

Located on a W-E oriented ridge, 1 km W of the village St.Leonhard, with a steep slope in N and S direction. The surrounding orography is rather complex with differences of altitude of 400 m.

Height of anemometer: 10.0 m a.g.l. *Period:* 1988010101 - 1995123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.020	300	0.400	600	0.200	1500	0.300	0	0.0		
30	0.020	200	0.400	600	0.350	1200	0.500	0	0.0		
60	0.020	200	0.400	500	0.300	1000	0.250	0	0.0		
90	0.020	200	0.100	500	0.300	1700	0.700	0	0.0		
120	0.020	200	0.100	1000	0.200	2000	0.250	0	0.0		
150	0.020	200	0.100	500	0.400	1000	0.300	2700	0.200		
180	0.020	300	0.400	1000	0.300	2500	0.200	0	0.0		
210	0.020	500	0.100	1000	0.150	2000	0.250	0	0.0		
240	0.020	300	0.150	1000	0.200	0	0.0	0	0.0		
270	0.020	300	0.200	1000	0.300	2000	0.200	0	0.0		
300	0.050	300	0.300	700	0.200	1500	0.100	0	0.0		
330	0.020	200	0.150	500	0.100	2000	0.200	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	5.2	181	337	301	130	30	15	3	2	1	0	0	0	0	0	2.4	1.89
30	3.5	156	187	331	220	83	20	2	0	0	0	0	0	0	0	2.9	2.43
60	4.7	122	174	258	233	138	47	21	6	0	1	0	0	0	0	3.3	2.18
90	6.8	96	166	234	222	150	76	40	14	2	0	0	0	0	0	3.6	2.13
120	3.5	141	168	261	227	133	51	15	5	0	0	0	0	0	0	3.2	2.19
150	11.6	85	226	302	182	97	53	31	14	7	3	0	0	0	0	3.1	1.67
180	13.3	75	238	317	185	87	47	24	13	9	5	0	0	0	0	3.1	1.63
210	8.3	78	292	406	173	42	8	1	0	0	0	0	0	0	0	2.7	2.63
240	6.3	90	240	414	193	49	10	3	1	0	0	0	0	0	0	2.8	2.61
270	15.4	37	86	209	231	182	116	75	40	18	7	0	0	0	0	4.4	2.16
300	14.6	42	93	180	193	188	132	88	50	25	9	0	0	0	0	4.7	2.28
330	6.9	98	192	275	216	110	56	28	14	8	3	0	0	0	0	3.3	1.82
Total	100.0	83	187	279	199	118	65	38	19	9	4	0	0	0	0	3.4	1.76

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.4	3.6	3.7	3.4	3.1	2.7	2.8	2.9	3.0	3.0	3.3	3.3	3.2
1	3.4	3.6	3.7	3.4	3.1	2.7	2.8	2.9	3.1	3.0	3.2	3.3	3.2
2	3.3	3.6	3.6	3.4	3.0	2.6	2.8	2.8	3.1	3.0	3.2	3.3	3.2
3	3.3	3.5	3.6	3.4	3.0	2.5	2.8	2.8	3.0	3.0	3.2	3.3	3.1
4	3.2	3.5	3.6	3.3	2.9	2.5	2.7	2.8	2.9	3.0	3.2	3.4	3.1
5	3.1	3.4	3.5	3.3	2.8	2.5	2.7	2.7	2.9	2.9	3.2	3.3	3.0
6	3.1	3.4	3.5	3.2	2.8	2.5	2.6	2.6	2.9	3.0	3.2	3.2	3.0
7	3.1	3.3	3.6	3.1	2.5	2.3	2.3	2.5	2.8	3.0	3.2	3.2	2.9
8	3.2	3.4	3.5	3.0	2.4	2.2	2.2	2.2	2.7	2.9	3.1	3.3	2.8
9	3.1	3.3	3.4	3.0	2.5	2.2	2.1	2.0	2.4	2.8	3.1	3.3	2.8
10	3.0	3.1	3.3	3.1	2.9	2.5	2.3	2.1	2.5	2.6	3.1	3.2	2.8
11	3.1	3.0	3.3	3.4	3.1	2.7	2.7	2.3	2.6	2.5	2.9	3.2	2.9
12	3.1	3.0	3.4	3.6	3.4	3.0	2.9	2.7	2.8	2.6	2.9	3.0	3.0
13	3.0	3.1	3.5	3.7	3.6	3.1	3.0	2.9	3.0	2.8	3.0	3.1	3.1
14	3.0	3.1	3.7	3.8	3.6	3.1	3.0	3.0	3.0	2.9	3.1	3.1	3.2
15	3.0	3.2	3.7	3.8	3.7	3.1	3.0	3.0	3.0	2.9	3.1	3.2	3.2
16	2.9	3.2	3.5	3.7	3.5	3.1	2.8	2.8	2.8	2.8	3.2	3.2	3.1
17	3.1	3.1	3.4	3.5	3.4	3.0	2.7	2.6	2.7	2.8	3.3	3.2	3.1
18	3.2	3.4	3.3	3.3	3.2	2.7	2.4	2.4	2.7	3.0	3.4	3.3	3.0
19	3.4	3.3	3.4	3.3	3.1	2.6	2.3	2.4	2.9	3.1	3.4	3.3	3.0
20	3.4	3.4	3.5	3.4	3.1	2.6	2.4	2.5	2.8	2.9	3.3	3.3	3.1
21	3.4	3.5	3.6	3.3	3.1	2.7	2.6	2.6	2.9	3.0	3.3	3.2	3.1
22	3.4	3.5	3.8	3.3	3.1	2.7	2.7	2.7	2.9	3.0	3.3	3.2	3.2
23	3.4	3.6	3.8	3.5	3.0	2.7	2.8	2.8	2.9	3.0	3.3	3.3	3.2
Day	3.2	3.3	3.5	3.4	3.1	2.7	2.6	2.6	2.8	2.9	3.2	3.2	3.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.89	3.86	5.43	7.92	6.87	4.88	3.53	4.15	4.61	8.16	8.33	6.06	6.51
	1.93	2.26	2.20	2.28	2.06	1.91	1.89	2.01	2.53	2.03	2.31	2.01	1.81
25	3.16	4.23	5.95	8.67	7.53	5.35	3.87	4.54	5.04	8.92	9.11	6.64	7.14
	1.99	2.33	2.28	2.35	2.12	1.97	1.95	2.08	2.61	2.08	2.38	2.07	1.85
50	3.40	4.54	6.39	9.31	8.08	5.75	4.16	4.88	5.41	9.56	9.77	7.13	7.66
	2.05	2.39	2.34	2.42	2.18	2.03	2.00	2.13	2.68	2.13	2.45	2.12	1.89
100	3.69	4.92	6.93	10.10	8.76	6.23	4.51	5.29	5.87	10.31	10.59	7.73	8.29
	1.98	2.31	2.26	2.34	2.11	1.96	1.94	2.06	2.59	2.08	2.38	2.06	1.85
200	4.07	5.44	7.66	11.17	9.68	6.87	4.97	5.84	6.50	11.28	11.69	8.54	9.13
	1.87	2.19	2.14	2.21	2.00	1.86	1.83	1.96	2.45	1.99	2.25	1.95	1.78
Freq	1.4	2.1	5.0	8.0	11.0	9.0	3.1	5.6	10.2	18.1	18.5	8.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.88	2.72	4.16	5.87	4.32	3.04	2.32	2.90	3.41	6.31	5.37	3.39	4.54
	1.57	1.88	2.04	2.01	1.69	1.59	1.58	1.70	2.35	1.96	1.92	1.42	1.60
25	2.26	3.26	4.98	7.02	5.19	3.66	2.80	3.49	4.07	7.49	6.43	4.09	5.45
	1.70	2.03	2.20	2.17	1.83	1.71	1.70	1.84	2.53	2.07	2.08	1.52	1.69
50	2.64	3.77	5.76	8.11	6.03	4.26	3.26	4.05	4.69	8.56	7.44	4.78	6.31
	1.90	2.29	2.47	2.43	2.05	1.92	1.91	2.06	2.85	2.26	2.33	1.71	1.83
100	3.13	4.47	6.83	9.60	7.16	5.07	3.87	4.80	5.56	9.95	8.82	5.70	7.46
	2.03	2.44	2.63	2.59	2.18	2.05	2.03	2.20	3.03	2.43	2.48	1.82	1.94
200	3.89	5.56	8.50	11.93	8.90	6.30	4.81	5.97	6.92	12.00	10.98	7.07	9.20
	1.94	2.33	2.52	2.47	2.08	1.96	1.94	2.10	2.90	2.34	2.37	1.74	1.90
Freq	0.7	3.1	5.6	8.8	11.8	7.6	1.5	8.0	10.5	20.8	16.6	5.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.48	2.37	3.74	5.21	3.68	2.53	1.87	2.56	3.02	5.63	4.50	2.52	3.97
	1.58	1.91	2.12	2.05	1.73	1.62	1.58	1.75	2.33	2.02	1.91	1.33	1.60
25	1.84	2.93	4.61	6.43	4.56	3.14	2.31	3.17	3.72	6.90	5.57	3.15	4.91
	1.69	2.05	2.28	2.19	1.85	1.73	1.69	1.87	2.49	2.13	2.04	1.42	1.69
50	2.17	3.43	5.40	7.52	5.37	3.70	2.73	3.72	4.35	7.99	6.53	3.74	5.76
	1.87	2.26	2.52	2.41	2.04	1.91	1.87	2.07	2.76	2.29	2.26	1.57	1.81
100	2.59	4.09	6.42	8.92	6.40	4.42	3.26	4.44	5.16	9.34	7.78	4.49	6.85
	2.05	2.49	2.77	2.65	2.24	2.10	2.06	2.27	3.03	2.52	2.48	1.73	1.95
200	3.19	5.05	7.93	10.97	7.90	5.45	4.02	5.48	6.38	11.22	9.60	5.52	8.37
	1.97	2.38	2.65	2.54	2.15	2.01	1.97	2.17	2.90	2.43	2.38	1.65	1.91
Freq	0.4	3.5	5.7	9.1	12.1	7.1	0.9	8.9	10.6	21.7	15.9	4.0	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.37	1.90	3.01	4.12	2.79	1.89	1.68	1.98	2.50	4.49	3.35	1.57	3.14
	1.52	1.86	2.18	2.07	1.81	1.72	1.64	1.67	2.28	2.06	1.94	1.77	1.62
25	1.81	2.50	3.95	5.42	3.68	2.50	2.22	2.62	3.29	5.87	4.42	2.08	4.14
	1.61	1.97	2.31	2.19	1.91	1.82	1.74	1.77	2.42	2.15	2.06	1.87	1.69
50	2.20	3.02	4.77	6.52	4.44	3.03	2.69	3.17	3.96	7.02	5.34	2.51	5.00
	1.75	2.14	2.51	2.37	2.08	1.98	1.89	1.92	2.63	2.28	2.23	2.03	1.78
100	2.67	3.65	5.73	7.83	5.36	3.66	3.26	3.83	4.76	8.33	6.43	3.04	6.02
	1.99	2.44	2.87	2.70	2.37	2.25	2.15	2.19	2.99	2.53	2.55	2.31	1.95
200	3.26	4.46	7.01	9.54	6.55	4.46	3.98	4.68	5.82	9.97	7.86	3.71	7.30
	1.92	2.35	2.76	2.60	2.28	2.17	2.07	2.11	2.88	2.49	2.45	2.23	1.94
Freq	0.4	3.7	6.0	10.0	12.2	5.9	1.2	9.3	11.0	23.5	14.3	2.6	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	5.8	253	4.1	103	3.6	68	2.8	33
25	6.3	323	4.9	162	4.4	119	3.7	71
50	6.8	390	5.6	226	5.1	175	4.4	116
100	7.4	507	6.6	350	6.1	269	5.3	182
200	8.1	711	8.2	670	7.4	502	6.5	328

TERNITZ

47°43'01" N 16°02'41" E UTM 33 E 578360 m N 5285472 m 390 m a.s.l.

Located near the railway station of the city Ternitz, in the SW-NE oriented Schwarza valley. The surrounding terrain is characterized by high hills NW and SE of the valley with altitudes up to 900 m. The anemometer is located on a 40 m high concrete tower with an approximately 10x10 m base.

Height of anemometer: 44.2 m a.g.l. *Period:* 1977020101 - 1981013124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.400	800	0.200	0	0.0						
30	0.400	600	0.200	0	0.0						
60	0.400	0	0.0	0	0.0						
90	0.400	800	0.100	0	0.0						
120	0.400	1100	0.100	0	0.0						
150	0.400	2000	0.200	0	0.0						
180	0.400	1500	0.100	3000	0.400						
210	0.500	0	0.0	0	0.0						
240	0.500	0	0.0	0	0.0						
270	0.500	0	0.0	0	0.0						
300	0.500	0	0.0	0	0.0						
330	0.500	750	0.200	2000	0.400						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	7.5	47	125	205	214	162	100	71	38	22	15	2	0	0	0	4.3	1.89
30	2.4	149	235	250	178	98	37	31	15	4	4	0	0	0	0	3.0	1.65
60	1.8	212	407	264	78	24	9	7	0	0	0	0	0	0	0	2.1	1.72
90	10.6	49	205	297	246	121	49	18	8	3	3	1	0	0	0	3.4	2.03
120	15.0	29	157	256	219	165	95	49	19	7	3	0	0	0	0	3.9	2.12
150	8.9	48	169	241	222	168	95	40	12	4	1	0	0	0	0	3.8	2.23
180	2.2	154	305	184	132	102	83	34	3	3	1	0	0	0	0	2.9	1.56
210	2.3	170	437	210	71	47	26	18	9	5	4	3	0	0	0	2.1	1.14
240	5.6	78	424	382	64	21	13	10	3	3	1	0	0	0	0	2.4	1.79
270	12.7	35	217	233	101	86	75	75	58	37	54	22	4	1	0	4.4	1.39
300	19.0	21	64	93	126	160	148	137	98	61	64	19	7	1	0	6.2	2.25
330	12.1	27	62	139	190	178	147	112	69	34	33	8	0	0	0	5.3	2.18
Total	100.0	48	170	212	168	135	95	70	43	24	25	8	2	0	0	4.3	1.62

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.7	3.4	3.2	3.5	3.3	3.5	3.4	3.0	3.1	3.5	3.1	3.2	3.3
1	3.8	3.4	3.3	3.7	3.2	3.4	3.3	3.3	3.3	3.6	3.0	3.1	3.4
2	3.8	3.2	3.1	3.7	3.1	3.4	3.1	3.3	3.2	3.5	3.2	3.3	3.3
3	4.0	3.1	3.1	3.6	3.1	3.4	3.1	3.3	3.3	3.4	3.4	3.2	3.3
4	4.0	3.1	3.4	3.4	3.3	3.4	3.0	3.2	3.2	3.3	3.5	3.3	3.3
5	3.7	3.0	3.6	3.2	3.1	3.3	3.0	3.1	3.2	3.2	3.5	3.4	3.3
6	3.6	2.8	3.7	3.3	2.9	3.1	2.8	3.1	3.1	3.4	3.7	3.5	3.2
7	3.8	3.0	3.6	3.1	2.9	3.2	2.9	3.0	3.0	3.3	3.8	3.4	3.2
8	3.7	2.9	3.4	3.1	3.1	3.2	3.1	2.9	3.0	3.2	3.9	3.5	3.2
9	3.7	3.0	3.7	3.2	3.3	3.0	3.2	3.0	3.1	3.1	3.8	3.4	3.3
10	3.6	2.9	3.8	3.6	3.7	3.4	3.5	3.4	3.1	3.2	3.7	3.6	3.5
11	3.7	3.2	4.1	4.0	4.2	3.9	3.7	3.8	3.4	3.6	3.3	3.8	3.7
12	3.9	3.8	4.5	4.4	4.4	4.0	3.9	4.0	3.6	3.8	3.6	3.8	4.0
13	3.9	3.8	4.8	4.3	4.7	4.3	4.3	4.0	3.7	4.2	3.7	3.6	4.1
14	4.0	4.0	5.1	4.5	4.9	4.4	4.3	4.1	3.9	4.2	3.9	3.8	4.3
15	3.9	4.2	5.1	4.5	4.7	4.5	4.5	4.2	3.9	4.2	3.8	3.6	4.3
16	3.9	4.0	4.8	4.6	4.7	4.6	4.5	4.1	3.9	3.9	3.7	3.6	4.2
17	3.6	3.6	4.4	4.5	4.9	4.5	4.4	4.3	3.7	3.7	3.2	3.1	4.1
18	3.5	3.6	4.0	4.1	4.5	4.4	4.0	3.8	3.1	3.4	3.4	3.1	3.8
19	3.9	3.1	3.5	3.7	4.1	4.0	3.9	3.2	3.1	3.2	3.3	3.0	3.5
20	4.0	3.2	3.5	3.6	3.3	3.5	3.6	2.9	3.1	3.3	3.4	3.2	3.4
21	4.1	3.3	3.6	3.4	3.1	3.3	3.3	3.0	3.1	3.2	3.2	3.2	3.3
22	4.0	3.5	3.3	3.3	3.1	3.4	3.3	3.2	3.1	3.5	3.2	3.0	3.3
23	4.0	3.4	3.4	3.3	3.3	3.3	3.5	3.3	3.1	3.4	3.3	3.2	3.4
Day	3.8	3.4	3.8	3.7	3.7	3.7	3.6	3.4	3.3	3.5	3.5	3.4	3.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.06	4.33	3.98	3.88	4.13	6.13	7.98	7.42	5.58	5.53	7.65	8.40	5.88
	2.23	1.85	2.06	2.22	2.05	1.98	2.61	2.25	1.74	1.53	1.78	2.15	1.63
25	6.63	4.74	4.36	4.24	4.52	6.71	8.73	8.12	6.11	6.08	8.36	9.19	6.45
	2.30	1.90	2.12	2.30	2.12	2.05	2.69	2.32	1.79	1.58	1.83	2.21	1.67
50	7.12	5.10	4.68	4.56	4.86	7.21	9.37	8.72	6.58	6.54	8.97	9.85	6.93
	2.36	1.95	2.18	2.36	2.17	2.10	2.76	2.38	1.84	1.62	1.88	2.28	1.71
100	7.72	5.52	5.08	4.94	5.27	7.82	10.17	9.46	7.12	7.07	9.66	10.65	7.49
	2.29	1.89	2.11	2.28	2.10	2.03	2.68	2.31	1.78	1.57	1.83	2.21	1.67
200	8.54	6.09	5.61	5.46	5.82	8.63	11.26	10.46	7.84	7.77	10.56	11.71	8.24
	2.17	1.79	2.00	2.16	1.99	1.92	2.53	2.19	1.69	1.49	1.75	2.10	1.61
Freq	4.1	6.1	8.2	7.2	4.4	3.5	3.8	5.3	16.0	19.6	14.2	7.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.87	2.84	2.79	2.73	3.03	4.77	5.70	4.96	3.69	3.92	5.93	5.52	4.06
	1.80	1.51	1.80	1.87	1.67	1.87	2.19	1.81	1.46	1.27	1.73	1.85	1.43
25	4.65	3.42	3.35	3.27	3.64	5.71	6.82	5.95	4.45	4.76	7.05	6.62	4.89
	1.94	1.63	1.95	2.02	1.80	2.02	2.37	1.95	1.57	1.37	1.83	2.00	1.52
50	5.39	3.99	3.88	3.79	4.23	6.61	7.87	6.89	5.20	5.60	8.08	7.67	5.70
	2.19	1.83	2.19	2.27	2.03	2.27	2.66	2.19	1.76	1.53	1.99	2.25	1.67
100	6.39	4.75	4.60	4.49	5.02	7.85	9.32	8.18	6.19	6.69	9.41	9.10	6.77
	2.33	1.95	2.33	2.42	2.15	2.42	2.83	2.34	1.87	1.62	2.14	2.40	1.76
200	7.95	5.89	5.73	5.59	6.25	9.76	11.61	10.17	7.68	8.28	11.34	11.32	8.35
	2.22	1.86	2.22	2.31	2.06	2.31	2.70	2.23	1.79	1.55	2.06	2.29	1.71
Freq	4.4	6.9	8.6	6.3	3.8	3.5	3.9	6.0	20.5	17.4	13.3	5.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.28	2.55	2.49	2.41	2.81	4.32	5.00	4.27	3.27	3.56	5.39	4.69	3.60
	1.78	1.66	1.91	1.95	1.80	1.95	2.18	1.80	1.51	1.30	1.83	1.94	1.46
25	4.06	3.16	3.08	2.98	3.48	5.33	6.17	5.28	4.06	4.45	6.61	5.79	4.47
	1.90	1.78	2.05	2.08	1.92	2.09	2.34	1.92	1.61	1.39	1.93	2.07	1.55
50	4.78	3.72	3.62	3.49	4.09	6.25	7.22	6.21	4.80	5.28	7.68	6.79	5.27
	2.11	1.97	2.26	2.31	2.13	2.31	2.59	2.13	1.78	1.53	2.08	2.29	1.67
100	5.69	4.44	4.31	4.15	4.88	7.44	8.58	7.40	5.74	6.36	8.99	8.09	6.29
	2.32	2.16	2.49	2.53	2.34	2.54	2.85	2.34	1.96	1.68	2.28	2.52	1.81
200	7.03	5.48	5.32	5.13	6.02	9.19	10.60	9.13	7.07	7.81	10.79	9.98	7.71
	2.22	2.07	2.38	2.43	2.24	2.43	2.72	2.24	1.87	1.61	2.20	2.41	1.77
Freq	4.4	7.3	8.7	6.0	3.5	3.5	3.9	6.2	22.2	16.6	12.9	4.7	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.47	1.88	1.90	1.86	2.31	3.54	3.94	3.22	2.61	2.84	4.43	3.48	2.83
	1.79	1.52	1.80	1.81	1.79	2.07	2.17	1.73	1.56	1.28	1.95	2.15	1.47
25	3.26	2.49	2.51	2.46	3.05	4.66	5.18	4.26	3.45	3.77	5.80	4.58	3.74
	1.90	1.60	1.91	1.92	1.90	2.20	2.30	1.83	1.65	1.36	2.04	2.28	1.53
50	3.95	3.03	3.03	2.97	3.69	5.62	6.25	5.15	4.19	4.61	6.93	5.52	4.54
	2.06	1.74	2.07	2.08	2.07	2.39	2.49	1.99	1.79	1.47	2.16	2.47	1.64
100	4.76	3.67	3.66	3.59	4.45	6.77	7.51	6.22	5.07	5.64	8.23	6.64	5.50
	2.35	1.98	2.36	2.37	2.35	2.72	2.84	2.27	2.04	1.67	2.40	2.82	1.81
200	5.82	4.48	4.47	4.38	5.43	8.27	9.18	7.60	6.19	6.87	9.85	8.12	6.69
	2.26	1.91	2.28	2.28	2.27	2.62	2.74	2.19	1.97	1.61	2.36	2.72	1.78
Freq	4.7	7.5	8.8	5.5	3.3	3.5	4.0	7.1	23.5	15.8	12.4	3.8	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	5.3	215	3.7	90	3.3	60	2.6	29
25	5.8	273	4.4	140	4.0	103	3.4	61
50	6.2	328	5.1	190	4.7	149	4.1	98
100	6.7	429	6.0	293	5.6	227	4.9	152
200	7.4	607	7.4	574	6.9	431	5.9	279

VILLACHER ALPE

46°36'10" N 13°40'27" E UTM 33 E 398454 m N 5161976 m 2140 m a.s.l.

Located on the W-E oriented ridge of the Villacher Alpe, 500 m E of the highest point. In the North lies the Weißenbach valley with 900 m altitude, in the South the Gail valley with 500 m altitude. The anemometer is mounted on a platform on top of a lattice tower.

Height of anemometer: 15.0 m a.g.l. *Period:* 1982010108 - 1984123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.100	200	0.030	500	0.400	1000	0.600				
30	0.030	400	0.400	1000	0.600	0	0.0				
60	0.030	500	0.200	1000	0.600	0	0.0				
90	0.030	500	0.100	1500	0.400	0	0.0				
120	0.030	500	0.200	2500	0.600	0	0.0				
150	0.030	200	0.400	1500	0.600	0	0.0				
180	0.030	200	0.200	1000	0.600	0	0.0				
210	0.030	200	0.200	1500	0.600	0	0.0				
240	0.030	300	0.100	1500	0.600	0	0.0				
270	0.030	300	0.100	1500	0.600	0	0.0				
300	0.030	300	0.100	1500	0.600	0	0.0				
330	0.030	300	0.100	1500	0.600	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	22.3	6	30	102	95	183	136	169	65	65	81	46	15	5	2	6.7	2.07
30	8.0	8	34	102	101	194	139	170	71	58	82	32	9	2	0	6.4	2.21
60	5.0	17	40	146	124	170	151	185	50	40	59	16	2	0	2	5.9	2.30
90	2.7	18	70	154	101	243	121	154	51	43	36	9	0	2	0	5.4	2.15
120	2.5	38	85	151	122	196	130	124	49	34	39	23	6	2	2	5.4	1.83
150	1.8	40	82	174	74	137	116	124	34	53	87	53	21	3	3	6.1	1.72
180	1.9	87	170	237	67	81	41	67	31	34	62	64	38	12	7	4.9	1.15
210	28.4	10	32	85	69	103	86	119	56	72	123	100	64	40	40	8.9	1.82
240	20.4	7	26	91	66	106	86	125	55	67	133	109	64	36	28	8.8	1.89
270	1.8	32	81	242	169	135	91	86	26	39	39	23	19	5	14	4.8	1.24
300	1.3	36	129	318	157	182	77	77	7	10	3	3	0	0	0	3.9	1.93
330	4.0	10	61	240	145	195	104	108	23	37	52	17	5	1	1	5.0	1.68
Total	100.0	12	40	114	88	144	107	137	55	61	97	68	37	20	18	7.1	1.57

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	6.9	7.6	6.1	7.0	7.9	6.0	5.3	5.0	7.1	6.7	7.3	7.4	6.7
1	6.8	7.8	6.2	7.2	7.9	6.5	5.4	5.6	7.1	7.4	7.1	7.3	6.8
2	7.0	7.7	6.3	7.5	7.9	6.4	5.6	5.2	7.3	7.6	7.4	7.3	6.9
3	7.4	7.6	6.9	8.4	8.4	7.1	6.0	5.1	7.4	7.6	7.5	7.2	7.2
4	7.6	7.5	6.5	8.2	8.7	7.1	6.2	5.5	7.6	7.6	7.5	7.4	7.2
5	7.7	7.8	6.4	7.6	8.4	6.9	6.2	5.5	7.2	7.9	7.3	7.0	7.1
6	7.4	7.5	6.3	7.3	8.4	6.6	6.3	5.8	7.0	7.7	7.3	6.9	7.0
7	6.7	6.9	6.2	7.1	8.4	6.5	6.2	5.6	7.1	7.2	7.2	6.9	6.8
8	7.2	7.2	6.7	7.5	7.7	6.4	5.6	5.8	7.6	7.2	7.4	7.0	6.9
9	7.3	7.0	6.8	7.8	7.5	6.2	5.9	5.7	7.3	7.2	7.4	6.9	6.9
10	7.3	7.1	6.6	7.2	7.2	6.1	5.2	5.4	6.7	6.7	6.8	6.4	6.6
11	7.1	7.1	7.1	7.7	6.9	6.4	5.5	5.6	7.1	6.8	7.0	7.0	6.8
12	7.1	6.9	6.8	7.4	6.8	5.9	5.6	5.1	6.9	6.9	7.2	6.9	6.6
13	7.1	6.6	6.6	7.1	6.7	5.6	5.3	5.1	6.8	6.7	7.2	6.5	6.5
14	7.3	7.0	6.3	7.1	6.5	5.3	5.2	5.0	6.3	6.9	7.3	6.7	6.4
15	7.3	7.8	6.3	6.9	6.6	4.9	5.0	5.0	6.6	7.2	7.6	7.6	6.6
16	7.1	7.6	6.7	6.7	6.6	4.5	4.5	4.6	6.9	6.6	7.6	7.4	6.4
17	7.0	7.5	6.2	6.5	6.4	4.7	4.1	4.3	6.2	6.5	7.3	7.2	6.2
18	6.9	7.4	6.2	6.3	6.6	4.6	4.3	4.3	6.4	6.9	7.0	7.2	6.2
19	7.4	7.6	6.5	6.1	6.9	4.6	4.3	4.5	6.0	6.6	7.3	7.5	6.3
20	7.2	7.0	6.1	6.1	6.3	4.7	4.4	4.2	6.2	6.5	7.2	7.0	6.1
21	7.1	7.3	6.2	6.1	6.6	4.4	4.6	4.4	6.4	6.9	7.2	7.3	6.2
22	7.3	7.2	6.1	6.3	7.0	4.9	4.8	4.3	7.1	6.9	7.4	7.4	6.4
23	7.4	7.4	6.0	6.7	7.1	5.4	5.1	4.8	6.9	6.7	7.7	7.4	6.6
Day	7.2	7.3	6.4	7.1	7.3	5.7	5.3	5.1	6.9	7.0	7.3	7.1	6.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	11.37	11.27	10.06	8.81	9.00	11.73	8.81	15.69	14.59	8.04	6.61	8.53	12.74
	2.19	2.38	2.56	2.54	2.04	1.79	1.19	1.84	1.95	1.29	2.22	1.85	1.74
25	12.37	12.27	10.97	9.63	9.82	12.76	9.58	17.04	15.85	8.75	7.24	9.31	13.85
	2.21	2.42	2.61	2.61	2.08	1.81	1.20	1.85	1.96	1.30	2.30	1.88	1.75
50	13.17	13.07	11.71	10.33	10.50	13.56	10.19	18.07	16.82	9.33	7.77	9.95	14.73
	2.25	2.47	2.69	2.68	2.14	1.83	1.21	1.85	1.97	1.31	2.36	1.94	1.77
100	14.04	13.96	12.60	11.19	11.27	14.41	10.81	19.14	17.83	9.92	8.43	10.67	15.67
	2.24	2.44	2.63	2.60	2.10	1.83	1.21	1.87	1.98	1.32	2.28	1.90	1.78
200	15.06	15.03	13.72	12.36	12.23	15.34	11.45	20.26	18.91	10.56	9.32	11.56	16.72
	2.19	2.38	2.53	2.47	2.02	1.81	1.21	1.85	1.96	1.30	2.16	1.83	1.78
Freq	22.3	8.0	5.0	2.7	2.5	1.8	1.9	28.4	20.4	1.8	1.3	4.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.93	7.85	6.93	6.04	6.22	8.25	6.20	11.17	10.33	5.65	4.49	5.90	8.95
	1.99	2.15	2.23	2.20	1.82	1.69	1.15	1.79	1.86	1.23	1.85	1.66	1.65
25	9.30	9.22	8.20	7.22	7.38	9.63	7.24	12.97	12.01	6.63	5.38	7.00	10.46
	2.05	2.22	2.35	2.37	1.92	1.72	1.16	1.80	1.88	1.25	2.00	1.74	1.69
50	10.43	10.38	9.33	8.33	8.42	10.75	8.07	14.38	13.33	7.45	6.23	7.98	11.69
	2.15	2.35	2.55	2.67	2.08	1.76	1.18	1.83	1.91	1.29	2.25	1.88	1.73
100	11.76	11.75	10.79	9.86	9.74	12.01	9.01	15.86	14.75	8.42	7.39	9.23	13.10
	2.30	2.52	2.74	2.84	2.23	1.86	1.22	1.87	1.98	1.37	2.39	2.02	1.81
200	13.49	13.62	12.95	12.29	11.63	13.47	10.00	17.47	16.34	9.48	9.19	10.97	14.81
	2.24	2.45	2.64	2.71	2.15	1.84	1.22	1.89	1.99	1.34	2.28	1.95	1.86
Freq	22.3	8.0	5.0	2.7	2.5	1.8	1.9	28.4	20.4	1.8	1.3	4.0	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.84	6.78	5.99	5.21	5.34	7.13	5.40	9.60	8.92	4.85	3.89	5.05	7.71
	1.98	2.15	2.24	2.18	1.80	1.70	1.16	1.78	1.87	1.22	1.88	1.63	1.65
25	8.29	8.23	7.33	6.43	6.54	8.61	6.52	11.54	10.74	5.88	4.81	6.19	9.32
	2.03	2.22	2.35	2.33	1.89	1.73	1.17	1.79	1.89	1.24	2.01	1.71	1.68
50	9.48	9.43	8.48	7.53	7.59	9.80	7.42	13.05	12.16	6.74	5.65	7.18	10.63
	2.12	2.32	2.54	2.58	2.03	1.77	1.19	1.81	1.92	1.27	2.22	1.83	1.72
100	10.82	10.80	9.89	8.95	8.86	11.09	8.40	14.62	13.66	7.71	6.73	8.39	12.07
	2.28	2.53	2.78	2.84	2.22	1.85	1.23	1.85	1.98	1.34	2.45	2.00	1.80
200	12.47	12.56	11.86	11.05	10.59	12.57	9.45	16.29	15.30	8.77	8.30	9.96	13.74
	2.24	2.46	2.69	2.72	2.15	1.86	1.24	1.88	2.01	1.34	2.34	1.94	1.85
Freq	22.3	8.0	5.0	2.7	2.5	1.8	1.9	28.4	20.4	1.8	1.3	4.0	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.32	5.28	4.65	4.09	4.18	5.55	4.20	7.45	6.91	3.82	3.09	3.95	5.99
	1.99	2.17	2.22	2.24	1.81	1.71	1.16	1.79	1.87	1.24	1.95	1.65	1.66
25	6.90	6.86	6.08	5.38	5.47	7.18	5.43	9.59	8.91	4.95	4.07	5.17	7.76
	2.05	2.23	2.33	2.38	1.89	1.73	1.17	1.80	1.89	1.26	2.06	1.71	1.69
50	8.17	8.13	7.27	6.49	6.55	8.46	6.39	11.24	10.46	5.87	4.91	6.19	9.15
	2.12	2.33	2.47	2.58	2.01	1.77	1.19	1.82	1.92	1.29	2.24	1.81	1.72
100	9.54	9.53	8.63	7.79	7.79	9.82	7.42	12.94	12.07	6.88	5.92	7.37	10.65
	2.24	2.50	2.76	2.94	2.22	1.84	1.22	1.85	1.96	1.35	2.56	2.00	1.79
200	11.12	11.18	10.34	9.53	9.31	11.31	8.53	14.72	13.77	7.97	7.23	8.79	12.31
	2.28	2.52	2.70	2.84	2.19	1.88	1.25	1.90	2.01	1.37	2.46	1.98	1.85
Freq	22.3	8.0	5.0	2.7	2.5	1.8	1.9	28.4	20.4	1.8	1.3	4.0	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	11.3	1992	8.0	744	6.9	476	5.4	221
25	12.3	2540	9.3	1155	8.3	821	6.9	469
50	13.1	3017	10.4	1557	9.5	1172	8.2	749
100	13.9	3598	11.6	2052	10.7	1620	9.5	1123
200	14.9	4371	13.1	2867	12.2	2303	10.9	1655

WILFERSDORF

8°34'57" N 16°38'36" E UTM 33 E 621203 m N 5382456 m 186 m a.s.l.

Located at the railway station of the village Wilfersdorf, within the SW-NE oriented Zaya valley. There are some low hills near the valley, the altitude difference within a 10x10 km square reaches 120 m. The anemometer is located on a 45 m high concrete tower with an approximately 10x10 m^2 base.

Height of anemometer: 53.0 m a.g.l. *Period:* 1981081301 - 1985063012

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.400	1000	0.050	0	0.0	0	0.0				
30	0.400	800	0.030	1600	0.070	0	0.0				
60	0.400	500	0.030	1500	0.400	3000	0.100				
90	0.400	400	0.030	1200	0.100	0	0.0				
120	0.400	500	0.050	0	0.0	0	0.0				
150	0.400	400	0.200	900	0.100	1800	0.200				
180	0.400	600	0.100	1200	0.030	0	0.0				
210	0.400	100	0.100	0	0.0	0	0.0				
240	0.400	600	0.030	1500	0.100	0	0.0				
270	0.400	500	0.100	1400	0.030	0	0.0				
300	0.400	300	0.100	700	0.050	0	0.0				
330	0.400	300	0.050	800	0.030	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	4.2	0	92	133	146	142	183	128	85	49	30	4	1	4	4	5.8	2.23
30	7.4	0	166	251	176	148	116	66	36	21	17	2	0	0	0	4.2	1.85
60	2.9	0	206	298	222	181	66	16	5	3	2	0	0	0	0	3.5	2.25
90	3.1	0	113	213	180	172	116	93	62	32	14	4	1	0	0	4.7	2.05
120	8.1	0	51	75	118	133	129	129	124	85	111	35	7	0	0	6.9	2.48
150	11.9	0	48	89	103	128	122	116	98	88	115	55	22	11	5	7.3	2.03
180	5.2	0	101	178	216	160	105	81	45	34	40	28	7	1	3	4.9	1.51
210	10.0	0	114	179	178	147	121	89	71	43	45	9	3	1	0	5.1	1.85
240	12.5	0	107	138	137	130	130	115	88	64	65	20	6	1	0	5.9	2.05
270	11.3	0	52	97	107	110	138	132	115	97	91	46	15	1	0	7.0	2.34
300	13.5	0	61	74	74	94	128	151	133	103	110	50	17	2	2	7.5	2.53
330	9.9	0	70	105	100	106	166	132	100	74	95	40	9	0	1	6.7	2.21
Total	100.0	0	87	132	131	128	130	114	91	68	75	31	10	2	1	6.2	2.00

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	6.8	7.0	6.5	6.7	6.3	5.6	4.7	4.7	4.6	5.2	5.7	6.9	6.0
1	6.6	7.6	6.8	6.8	6.7	5.8	4.9	5.2	4.7	5.6	5.9	6.5	6.2
2	6.6	7.3	6.9	6.8	6.5	5.7	5.1	5.2	4.7	5.6	5.8	6.4	6.1
3	6.3	6.9	6.7	7.0	6.7	5.7	5.3	5.2	4.6	5.7	5.7	6.3	6.1
4	6.3	7.0	6.5	7.0	6.6	5.6	5.0	5.5	4.7	5.4	5.5	5.9	6.0
5	5.8	6.9	6.3	6.7	6.5	5.7	5.3	5.5	4.8	5.2	5.1	5.7	5.9
6	6.2	6.7	5.8	6.3	6.1	5.6	5.2	5.4	4.8	4.7	5.2	5.7	5.7
7	6.3	6.7	5.5	5.7	6.0	5.3	4.6	5.0	4.4	4.7	5.0	5.7	5.5
8	6.0	6.7	5.6	5.7	5.8	4.9	4.5	4.6	4.3	4.7	4.8	5.5	5.4
9	5.8	6.6	5.7	5.8	5.8	5.1	4.1	4.0	4.3	4.6	4.6	5.3	5.3
10	5.6	6.6	5.5	5.7	5.6	5.3	4.0	3.9	4.0	4.3	4.7	5.4	5.2
11	5.9	6.7	5.5	5.6	5.6	4.9	3.9	3.9	3.8	4.2	4.8	5.5	5.2
12	5.7	6.5	5.3	5.7	5.4	4.8	4.0	3.7	3.9	4.0	4.9	5.8	5.1
13	5.9	6.4	5.4	5.7	5.4	4.6	3.8	3.7	3.8	4.4	4.6	5.7	5.1
14	5.9	6.4	5.2	5.4	5.3	4.6	4.2	3.6	3.8	4.2	4.7	5.7	5.0
15	5.8	6.2	5.3	5.5	5.1	4.7	3.9	3.6	3.9	4.2	4.6	5.9	5.0
16	5.6	6.3	5.3	5.3	5.3	4.7	3.7	4.0	3.8	4.1	4.6	5.9	5.0
17	5.6	6.4	5.2	5.2	5.0	4.7	3.6	3.6	3.7	4.4	4.2	6.0	4.9
18	5.5	6.2	5.3	5.2	5.1	4.5	3.4	3.8	3.9	4.1	4.3	6.0	4.9
19	5.7	6.0	5.3	5.4	5.4	4.6	3.9	3.9	3.7	4.1	4.3	5.8	5.0
20	5.9	6.1	5.7	5.8	5.7	5.0	4.2	4.1	3.9	4.2	4.4	6.0	5.3
21	6.2	6.1	5.7	6.0	5.7	5.1	4.5	4.3	4.2	5.0	4.8	6.2	5.4
22	6.3	6.3	5.9	6.5	5.8	5.3	4.4	4.4	4.1	5.1	5.2	6.0	5.6
23	6.8	6.5	6.3	6.8	6.1	5.5	4.8	4.4	4.5	4.9	5.6	6.6	5.9
Day	6.0	6.6	5.8	6.0	5.8	5.2	4.4	4.4	4.2	4.7	5.0	5.9	5.5

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.66	5.00	4.29	4.93	7.35	8.73	6.88	5.72	6.39	7.13	8.07	7.52	6.92
	2.11	1.86	1.90	1.91	2.29	2.06	1.60	1.77	1.97	2.16	2.41	2.25	1.92
25	7.29	5.48	4.70	5.40	8.04	9.53	7.54	6.27	7.00	7.81	8.83	8.23	7.57
	2.18	1.91	1.96	1.98	2.36	2.11	1.64	1.83	2.03	2.23	2.49	2.32	1.97
50	7.83	5.90	5.05	5.81	8.63	10.20	8.10	6.74	7.52	8.38	9.48	8.84	8.13
	2.24	1.96	2.01	2.03	2.42	2.17	1.69	1.88	2.08	2.29	2.56	2.38	2.02
100	8.49	6.39	5.47	6.29	9.36	10.99	8.74	7.30	8.15	9.09	10.28	9.58	8.80
	2.17	1.90	1.95	1.96	2.34	2.12	1.64	1.82	2.01	2.21	2.47	2.30	1.97
200	9.38	7.04	6.04	6.94	10.35	12.00	9.58	8.05	9.00	10.05	11.38	10.60	9.70
	2.05	1.80	1.85	1.86	2.22	2.03	1.56	1.72	1.91	2.10	2.34	2.18	1.88
Freq	6.1	6.2	4.3	3.0	6.6	10.8	7.4	8.3	11.5	11.7	13.0	11.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.44	3.26	2.90	3.67	5.29	6.27	3.76	3.97	4.54	5.12	5.73	5.01	4.80
	1.77	1.54	1.78	1.67	2.00	1.78	1.22	1.52	1.68	1.87	2.05	1.82	1.65
25	5.32	3.92	3.48	4.41	6.33	7.44	4.57	4.79	5.46	6.14	6.86	6.01	5.76
	1.92	1.66	1.92	1.80	2.15	1.88	1.31	1.64	1.82	2.02	2.22	1.96	1.76
50	6.17	4.57	4.03	5.13	7.32	8.49	5.39	5.58	6.33	7.11	7.93	6.97	6.67
	2.15	1.86	2.16	2.03	2.42	2.03	1.47	1.84	2.04	2.27	2.49	2.20	1.94
100	7.32	5.44	4.79	6.09	8.67	9.82	6.44	6.64	7.52	8.44	9.40	8.27	7.90
	2.30	1.98	2.30	2.15	2.58	2.19	1.56	1.96	2.17	2.42	2.65	2.35	2.07
200	9.11	6.75	5.96	7.57	10.80	11.74	7.97	8.25	9.35	10.50	11.70	10.28	9.76
	2.19	1.89	2.19	2.06	2.46	2.10	1.49	1.87	2.08	2.31	2.54	2.24	2.01
Freq	4.6	7.0	3.1	3.1	7.9	11.7	5.8	9.4	12.0	11.4	13.6	10.3	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.73	2.82	2.53	3.35	4.65	5.48	3.16	3.51	4.00	4.53	4.99	4.33	4.20
	1.72	1.55	1.87	1.69	1.99	1.78	1.29	1.55	1.71	1.91	2.04	1.84	1.67
25	4.62	3.50	3.13	4.16	5.75	6.71	3.94	4.36	4.96	5.60	6.16	5.36	5.19
	1.84	1.66	2.01	1.80	2.13	1.87	1.38	1.66	1.83	2.05	2.19	1.97	1.76
50	5.44	4.13	3.67	4.89	6.74	7.77	4.69	5.15	5.84	6.57	7.22	6.29	6.10
	2.04	1.83	2.22	1.99	2.36	2.00	1.52	1.84	2.02	2.26	2.42	2.18	1.92
100	6.48	4.94	4.37	5.84	8.02	9.06	5.64	6.15	6.96	7.82	8.58	7.50	7.26
	2.24	2.01	2.44	2.19	2.60	2.19	1.67	2.02	2.22	2.49	2.66	2.39	2.10
200	8.00	6.08	5.40	7.20	9.90	10.79	6.94	7.58	8.59	9.66	10.60	9.25	8.90
	2.14	1.93	2.33	2.10	2.48	2.12	1.60	1.93	2.12	2.38	2.54	2.29	2.04
Freq	4.4	7.1	2.8	3.2	8.2	12.0	5.4	9.8	12.2	11.4	13.7	9.8	

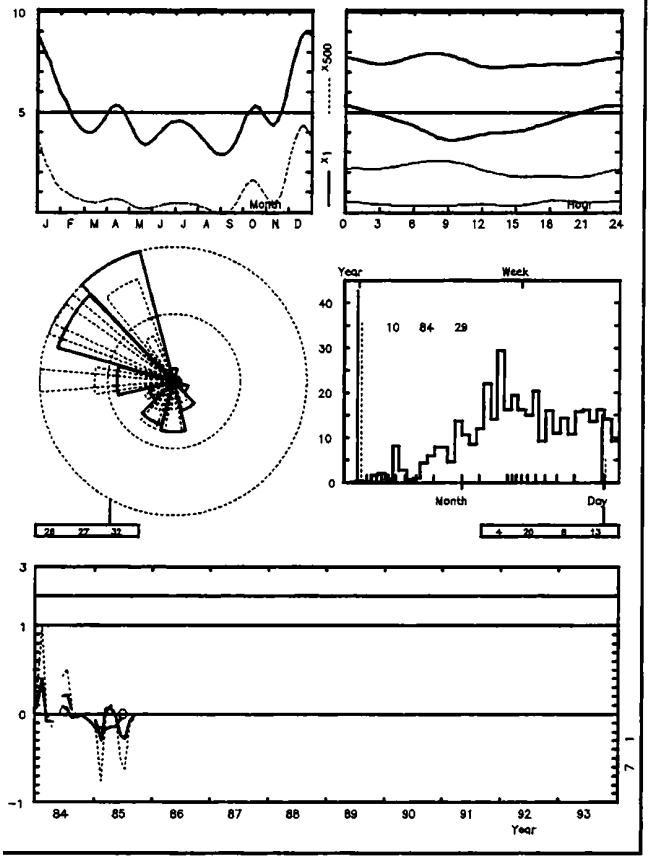
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.80	2.22	2.05	2.88	3.74	4.21	2.58	2.83	3.22	3.63	3.89	3.42	3.31
	1.66	1.57	1.73	1.67	1.89	1.74	1.37	1.59	1.76	1.96	2.02	1.87	1.68
25	3.69	2.94	2.71	3.80	4.93	5.51	3.42	3.75	4.25	4.78	5.12	4.51	4.37
	1.76	1.66	1.83	1.77	2.01	1.81	1.46	1.68	1.86	2.07	2.14	1.98	1.76
50	4.48	3.57	3.28	4.61	5.96	6.59	4.17	4.55	5.15	5.77	6.18	5.45	5.29
	1.91	1.80	1.99	1.92	2.18	1.92	1.58	1.83	2.02	2.25	2.33	2.15	1.89
100	5.41	4.33	3.96	5.57	7.19	7.84	5.08	5.51	6.22	6.95	7.43	6.57	6.38
	2.18	2.05	2.27	2.19	2.49	2.12	1.79	2.08	2.30	2.56	2.65	2.45	2.12
200	6.61	5.28	4.84	6.80	8.78	9.35	6.20	6.73	7.59	8.50	9.09	8.03	7.76
	2.10	1.98	2.19	2.11	2.39	2.10	1.73	2.00	2.22	2.47	2.55	2.37	2.07
Freq	4.8	6.5	2.9	3.9	8.6	11.2	6.0	10.1	12.0	11.6	13.2	9.1	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.1	282	4.3	115	3.7	75	3.0	36
25	6.7	359	5.1	181	4.6	132	3.9	79
50	7.2	433	5.9	249	5.4	193	4.7	127
100	7.8	565	7.0	388	6.4	296	5.6	199
200	8.6	796	8.7	755	7.9	563	6.9	367

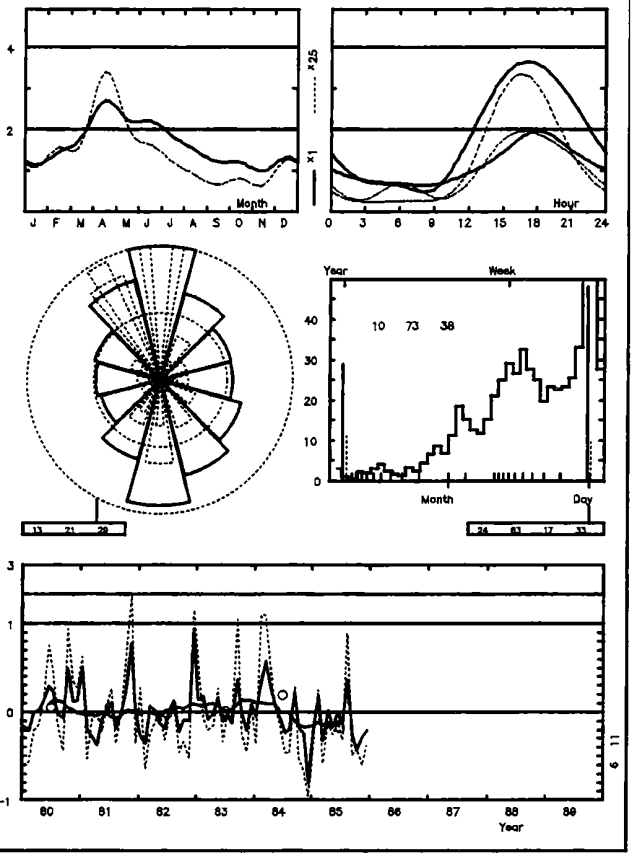
Feuerkogel 1984–85

10.0 m agl, mean 5.0 m/s, st dev 4.0 m/s, cube 490. m^3/s^3



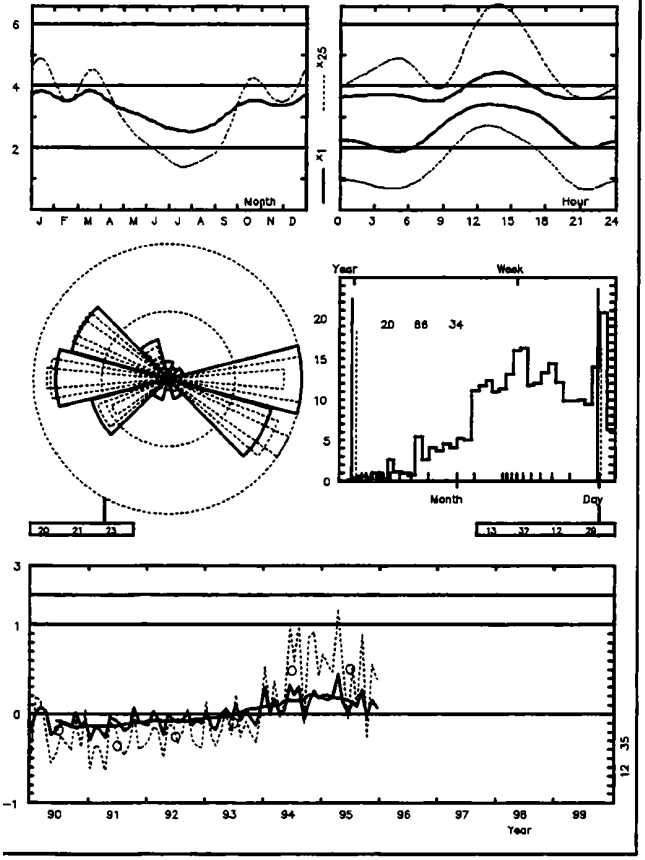
Graz Flughafen 1980–85

10.0 m agl, mean 1.6 m/s, st dev 2.0 m/s, cube 36. m^3/s^3



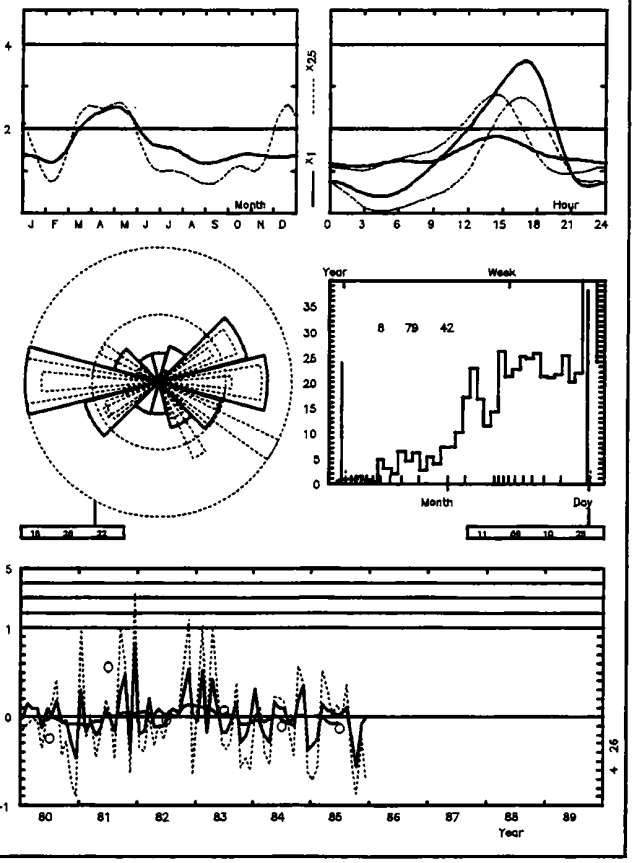
Heidenreichstein–Thaures 1990–95

10.0 m agl, mean 3.3 m/s, st dev 2.0 m/s, cube 80. m^3/s^3



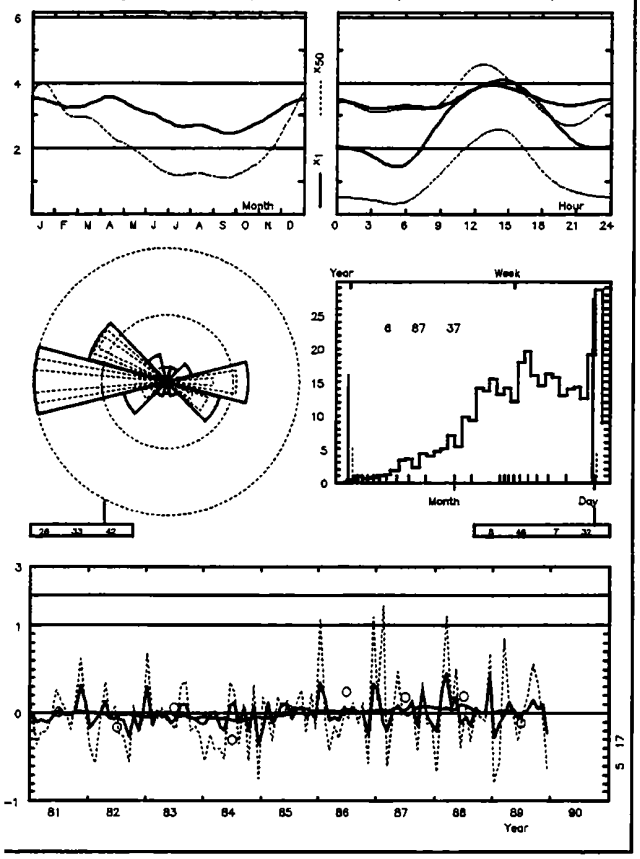
Innsbruck Flughafen 1980–85

8.0 m agl, mean 1.6 m/s, st dev 2.0 m/s, cube 38. m^3/s^3



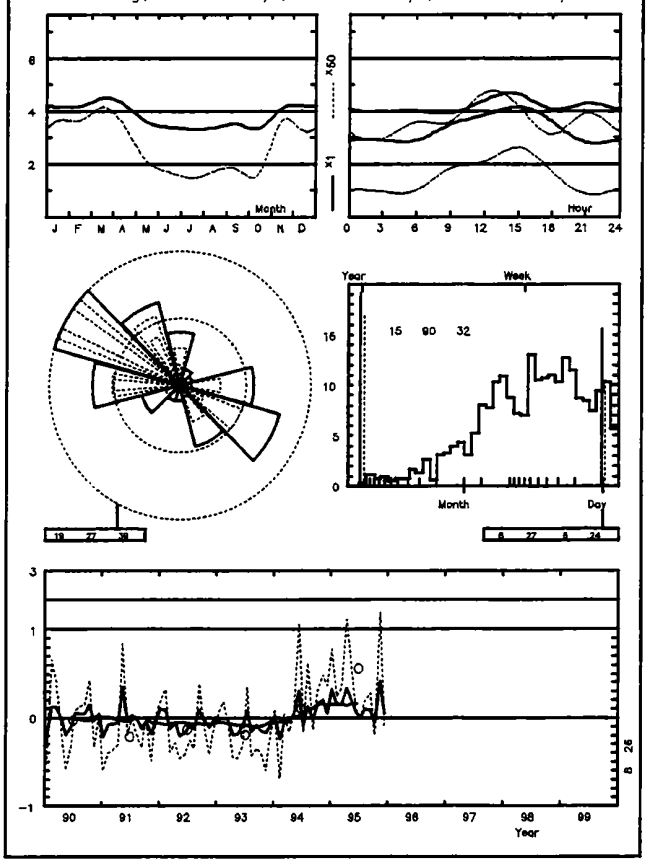
Linz Hoersching 1981–89

8.0 m agl, mean 3.1 m/s, st dev 2.4 m/s, cube 107. m^3/s^3



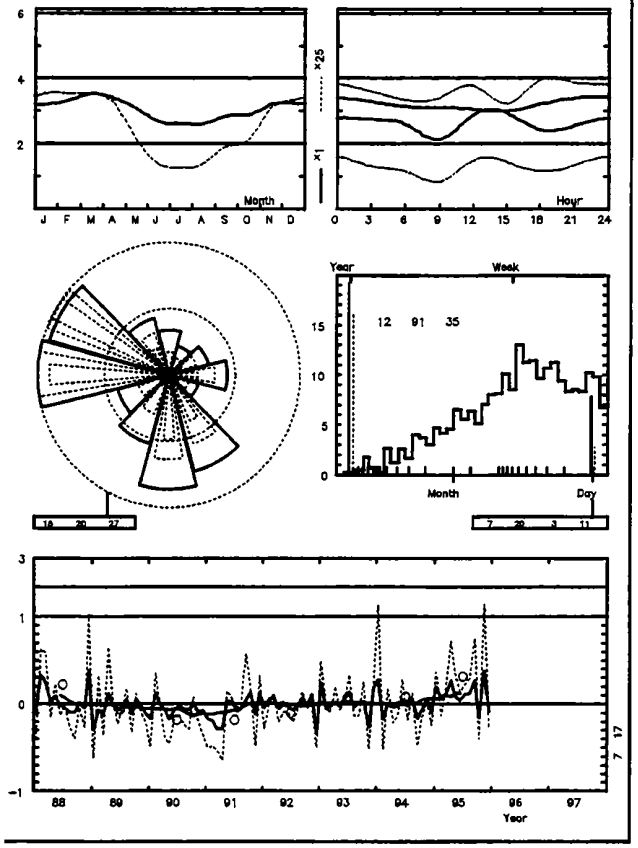
Stixneusiedl 1990–95

10.0 m agl, mean 3.8 m/s, st dev 2.3 m/s, cube 133. m^3/s^3



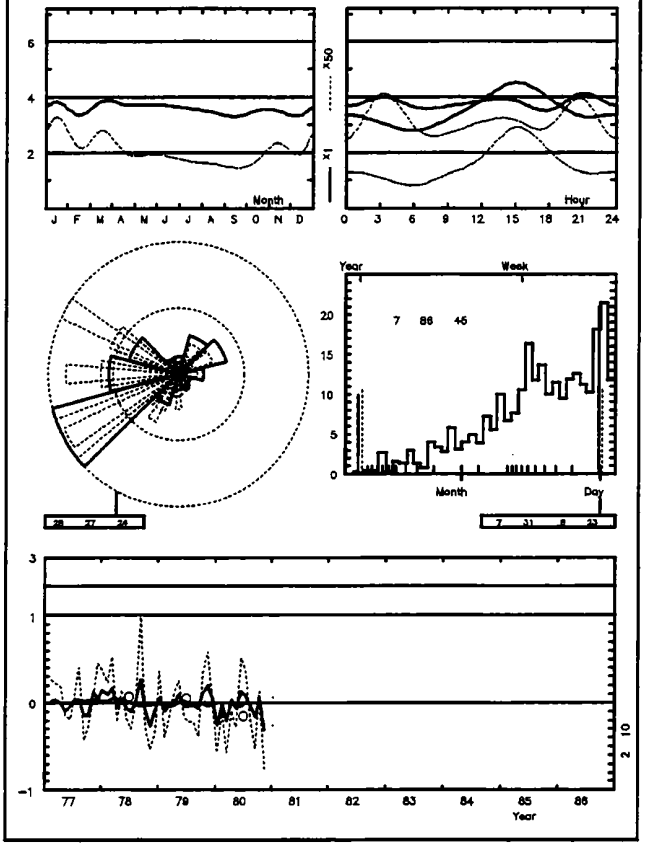
St.Leonhard am Walde 1988–95

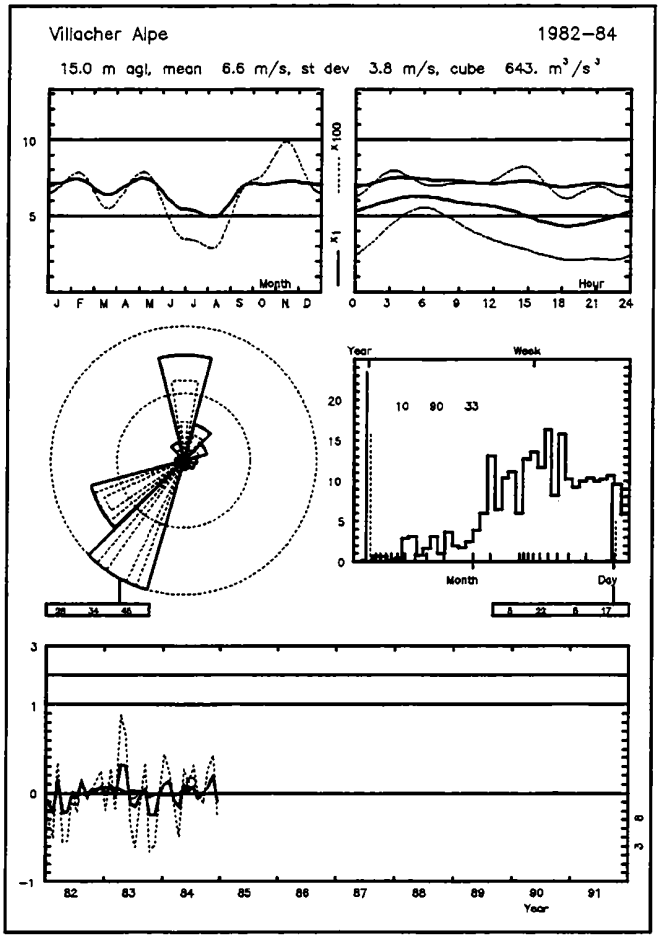
10.0 m agl, mean 3.1 m/s, st dev 1.8 m/s, cube 64. m^3/s^3

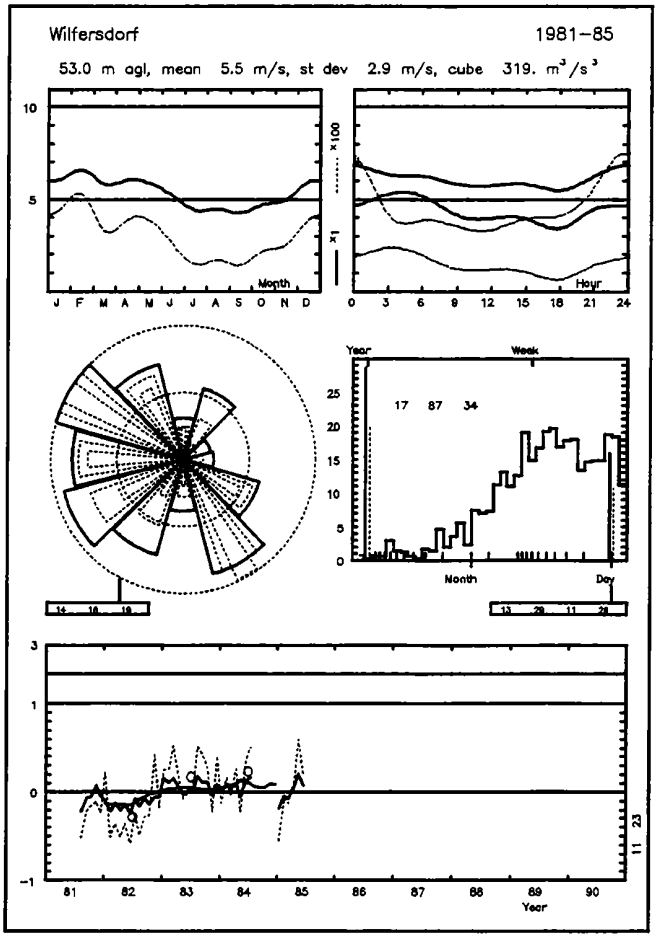


Ternitz 1977–81

44.2 m agl, mean 3.6 m/s, st dev 2.0 m/s, cube 103. m^3/s^3




Villacher Alpe
1982–84
15.0 m agl, mean 6.6 m/s, st dev 3.8 m/s, cube 643. m³/s³
Month
Hour
Year
Week
Month
Day
Year


Wilfersdorf
1981–85
53.0 m agl, mean 5.5 m/s, st dev 2.9 m/s, cube 319. m³/s³
Month
Hour
Year
Week
Month
Day
Year

GOSPIC

44°33'03" N 15°22'24" E UTM 33 E 529655 m N 4933215 m 564 m a.s.l.

Weather station at the northern edge of the city of Gospic in the central part of Croatia. There are hills and higher ground in almost all directions at different distances, but this does not seem to influence the measurements. The anemometer is located 5 m above the roof of a 5 m high building, which has a base of 16x10 m^2. In the sectors from NW to NE and from E to S there are several obstacles, mainly buildings at a distance smaller than 100 m.

Height of anemometer: 10 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.494	135	0.035	3831	0.086	0	0.0	0	0.0	0	0.0
30	0.479	154	0.049	2209	0.175	3573	0.052	6072	0.030	0	0.0
60	0.328	893	0.045	5613	0.083	0	0.0	0	0.0	0	0.0
90	0.489	394	0.038	653	0.150	1962	0.042	0	0.0	0	0.0
120	0.807	688	0.104	1797	0.238	2362	0.032	3951	0.174	4999	0.052
150	0.591	4664	0.285	5001	0.054	6215	0.362	0	0.0	0	0.0
180	0.934	884	0.057	0	0.0	0	0.0	0	0.0	0	0.0
210	0.978	873	0.348	0	0.0	0	0.0	0	0.0	0	0.0
240	0.991	700	0.282	0	0.0	0	0.0	0	0.0	0	0.0
270	0.358	4178	0.137	0	0.0	0	0.0	0	0.0	0	0.0
300	0.423	3066	0.246	0	0.0	0	0.0	0	0.0	0	0.0
330	0.493	135	0.061	976	0.186	4306	0.238	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	10.5	327	178	211	163	84	29	7	2	0	0	0	0	0	0	2.5	1.68
30	13.6	336	186	155	142	103	46	19	7	4	2	0	0	0	0	2.6	1.42
60	7.0	458	135	89	111	101	54	26	11	7	5	3	0	0	0	2.3	1.12
90	2.0	866	106	16	8	1	1	0	1	0	1	0	0	0	0	0.8	0.98
120	4.8	494	288	111	40	24	14	13	6	5	4	1	0	0	0	1.5	0.95
150	10.8	344	304	162	72	50	28	20	9	5	3	2	0	0	0	1.9	1.09
180	4.5	500	147	87	88	81	42	21	16	8	9	1	0	0	0	1.9	0.97
210	6.3	426	210	137	119	67	30	7	2	1	1	0	0	0	0	2.0	1.24
240	14.1	399	184	143	141	85	30	10	4	2	2	0	0	0	0	2.2	1.30
270	4.8	654	125	70	76	50	19	5	1	0	0	0	0	0	0	1.1	0.87
300	5.7	727	198	40	21	10	3	1	0	0	0	0	0	0	0	0.8	0.98
330	16.0	516	309	135	33	6	1	0	0	0	0	0	0	0	0	1.3	1.41
Total	100.0	451	215	132	95	60	26	11	5	3	2	1	0	0	0	1.8	1.12

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.4	1.5	1.5	1.5	1.1	0.8	0.7	0.7	0.8	1.1	1.3	1.7	1.2
1	1.4	1.4	1.5	1.5	1.0	0.8	0.6	0.7	0.8	1.1	1.2	1.7	1.1
2	1.4	1.4	1.4	1.5	1.0	0.7	0.6	0.6	0.7	1.1	1.2	1.7	1.1
3	1.3	1.3	1.3	1.4	0.9	0.7	0.6	0.6	0.7	1.1	1.2	1.7	1.1
4	1.4	1.3	1.4	1.5	1.0	0.7	0.6	0.6	0.7	1.1	1.3	1.6	1.1
5	1.3	1.3	1.4	1.5	0.9	0.7	0.5	0.6	0.7	1.1	1.2	1.6	1.1
6	1.4	1.3	1.4	1.4	0.9	0.7	0.5	0.5	0.7	1.0	1.2	1.6	1.1
7	1.3	1.3	1.4	1.4	1.0	0.8	0.5	0.6	0.7	1.1	1.3	1.6	1.1
8	1.3	1.4	1.4	1.7	1.3	1.1	0.9	0.7	0.8	1.1	1.3	1.6	1.2
9	1.3	1.4	1.6	1.9	1.7	1.4	1.3	1.1	1.0	1.3	1.4	1.7	1.4
10	1.4	1.7	1.9	2.4	2.0	1.8	1.6	1.5	1.3	1.7	1.6	1.8	1.7
11	1.6	1.8	2.4	2.9	2.4	2.2	1.9	1.9	1.7	1.9	1.8	1.9	2.0
12	1.7	2.1	2.7	3.3	2.6	2.5	2.4	2.3	2.0	2.1	1.9	2.1	2.3
13	1.9	2.2	2.9	3.5	3.0	2.7	2.6	2.7	2.3	2.4	2.0	2.2	2.5
14	2.0	2.4	3.0	3.7	3.2	3.0	2.9	2.9	2.5	2.5	2.1	2.3	2.7
15	2.0	2.5	3.1	3.7	3.4	3.0	3.0	3.0	2.5	2.6	2.0	2.3	2.8
16	1.9	2.5	3.1	3.7	3.4	3.0	3.1	3.1	2.6	2.4	2.0	2.2	2.8
17	1.8	2.3	3.0	3.5	3.2	2.8	3.1	3.1	2.4	2.2	1.7	2.0	2.6
18	1.6	2.0	2.5	3.1	2.7	2.4	2.7	2.6	1.9	1.7	1.6	2.0	2.2
19	1.6	1.8	1.9	2.4	2.2	1.9	2.0	1.9	1.4	1.5	1.5	1.9	1.8
20	1.5	1.7	1.7	1.8	1.7	1.4	1.4	1.3	1.2	1.4	1.4	1.8	1.5
21	1.5	1.7	1.7	1.7	1.4	1.2	1.1	1.1	1.0	1.3	1.5	1.8	1.4
22	1.5	1.5	1.6	1.6	1.3	1.0	0.9	0.8	0.9	1.2	1.4	1.7	1.3
23	1.5	1.5	1.5	1.5	1.2	0.9	0.7	0.7	0.8	1.2	1.4	1.7	1.2
Day	1.5	1.7	2.0	2.3	1.9	1.6	1.5	1.5	1.3	1.5	1.5	1.9	1.7

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	10.08	17.81	14.10	5.22	5.89	7.02	6.59	5.94	5.64	4.57	5.72	7.69	8.26
	1.44	1.35	1.19	0.88	0.90	1.09	1.08	1.21	1.56	1.26	0.98	1.40	0.99
25	10.96	19.33	15.30	5.68	6.41	7.65	7.18	6.50	6.19	5.03	6.23	8.39	8.99
	1.44	1.35	1.19	0.89	0.91	1.10	1.08	1.23	1.60	1.30	0.99	1.41	0.99
50	11.66	20.49	16.22	6.05	6.81	8.14	7.65	6.96	6.67	5.43	6.65	8.95	9.57
	1.46	1.36	1.19	0.89	0.91	1.11	1.10	1.26	1.65	1.33	1.00	1.44	0.99
100	12.38	21.66	17.16	6.42	7.25	8.65	8.13	7.42	7.21	5.86	7.06	9.54	10.21
	1.46	1.36	1.19	0.90	0.92	1.11	1.10	1.24	1.60	1.29	1.00	1.43	1.00
200	13.14	22.84	18.10	6.78	7.65	9.17	8.62	7.95	7.92	6.40	7.47	10.20	10.92
	1.44	1.36	1.19	0.89	0.91	1.10	1.08	1.21	1.51	1.23	0.99	1.40	1.01
Freq	13.0	12.2	9.7	3.8	3.8	8.7	6.8	5.7	11.5	7.9	5.1	12.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.48	14.63	8.28	2.59	4.71	4.92	4.63	4.03	3.74	2.61	4.48	5.50	5.96
	1.51	1.37	1.08	0.77	0.92	1.04	0.99	1.17	1.31	0.92	0.95	1.34	0.94
25	9.88	16.96	9.61	3.05	5.50	5.76	5.42	4.83	4.53	3.17	5.24	6.48	6.99
	1.52	1.38	1.08	0.77	0.93	1.06	1.01	1.23	1.40	0.97	0.96	1.38	0.96
50	10.99	18.73	10.63	3.44	6.13	6.46	6.07	5.58	5.32	3.74	5.88	7.34	7.86
	1.55	1.38	1.09	0.79	0.94	1.08	1.02	1.33	1.58	1.05	0.98	1.45	0.97
100	12.20	20.52	11.71	3.92	6.83	7.27	6.84	6.52	6.35	4.44	6.59	8.38	8.86
	1.60	1.38	1.10	0.82	0.96	1.13	1.07	1.42	1.67	1.12	1.01	1.55	0.99
200	13.54	22.36	12.83	4.37	7.56	8.11	7.62	7.72	7.86	5.28	7.32	9.64	10.10
	1.61	1.40	1.11	0.82	0.97	1.12	1.06	1.37	1.60	1.08	1.01	1.51	1.03
Freq	11.5	12.7	8.5	2.5	4.5	10.3	5.2	6.2	13.6	5.4	5.2	14.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.86	13.19	6.37	2.34	4.21	4.42	3.98	3.49	3.24	2.06	4.08	4.80	5.24
	1.59	1.40	1.07	0.89	0.94	1.08	0.98	1.23	1.30	0.86	0.97	1.37	0.95
25	9.47	15.82	7.66	2.89	5.09	5.36	4.82	4.34	4.05	2.57	4.93	5.86	6.35
	1.61	1.41	1.07	0.92	0.95	1.10	0.99	1.29	1.39	0.89	0.98	1.40	0.96
50	10.73	17.82	8.67	3.40	5.77	6.12	5.50	5.12	4.81	3.05	5.62	6.75	7.28
	1.63	1.41	1.08	0.96	0.95	1.12	1.01	1.40	1.54	0.94	0.99	1.47	0.97
100	12.07	19.85	9.71	4.06	6.53	6.98	6.26	6.09	5.78	3.67	6.38	7.81	8.32
	1.68	1.42	1.09	1.04	0.98	1.16	1.04	1.53	1.69	1.02	1.02	1.59	1.00
200	13.53	21.91	10.81	4.70	7.33	7.91	7.06	7.32	7.11	4.29	7.18	9.04	9.55
	1.71	1.42	1.11	1.01	0.99	1.17	1.05	1.48	1.62	0.99	1.03	1.55	1.03
Freq	10.9	12.9	8.0	2.0	4.7	10.8	4.7	6.7	13.7	4.8	5.2	15.5	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.61	10.03	4.26	1.89	3.36	3.54	3.05	2.67	2.57	1.80	3.32	3.89	4.13
	1.60	1.37	1.12	0.85	0.97	1.10	0.99	1.24	1.30	0.89	1.02	1.37	0.96
25	8.52	12.89	5.50	2.47	4.34	4.59	3.96	3.55	3.42	2.37	4.30	5.06	5.37
	1.61	1.37	1.12	0.87	0.98	1.12	1.00	1.30	1.38	0.91	1.04	1.40	0.97
50	9.99	15.07	6.46	2.96	5.11	5.43	4.68	4.32	4.18	2.88	5.08	6.02	6.36
	1.63	1.38	1.13	0.89	0.99	1.13	1.02	1.39	1.49	0.95	1.05	1.45	0.98
100	11.52	17.26	7.49	3.54	5.93	6.34	5.47	5.27	5.10	3.51	5.93	7.09	7.44
	1.66	1.38	1.16	0.93	1.01	1.17	1.05	1.58	1.70	1.02	1.08	1.53	1.00
200	13.13	19.48	8.58	4.15	6.83	7.32	6.32	6.37	6.22	4.15	6.84	8.27	8.64
	1.70	1.39	1.19	0.95	1.03	1.20	1.07	1.52	1.64	1.02	1.11	1.56	1.02
Freq	10.1	14.0	6.4	2.3	5.7	10.1	4.8	7.8	12.4	4.3	6.6	15.7	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	8.3	2180	6.1	979	5.4	644	4.2	310
25	9.0	2775	7.1	1504	6.5	1110	5.5	648
50	9.6	3299	8.0	2001	7.4	1563	6.4	1026
100	10.2	3884	8.9	2614	8.3	2133	7.4	1522
200	10.9	4616	10.0	3453	9.5	2922	8.6	2193

LASTOVO

42°46'06" N 16° 54' 02" E UTM 33 E 655501 m N 4736926 m 186 m a.s.l.

Located on the northern part of the island of Lastovo, which is situated 50 km SW of the southern Adriatic coast. The anemometer is situated at the N-end of the island 8 m above the roof of a 7 m high building (base 8x8 m^2) on top of a high hill with no obstruction. The northern slopes fall 180 m in 500 m distance to the sea. The other slopes are not so steep and the terrain is rather complicated with many elevation changes, many wooded areas to the E and small buildings to the S and SW.

Height of anemometer: 15 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.614	472	0.0	0	0.0	0	0.0	0	0.0	0	0.0
30	0.660	467	0.056	663	0.0	0	0.0	0	0.0	0	0.0
60	0.417	673	0.001	929	0.0	0	0.0	0	0.0	0	0.0
90	0.429	1225	0.122	1714	0.419	2219	0.033	3113	0.003	3351	0.0
120	0.396	3240	0.004	3432	0.001	0	0.0	0	0.0	0	0.0
150	0.690	3553	0.028	3884	0.003	4069	0.0	0	0.0	0	0.0
180	0.744	3866	0.137	4444	0.023	4697	0.001	5103	0.0	0	0.0
210	0.603	1157	10.093	2896	0.411	3625	0.093	4333	0.002	5124	0.0
240	0.495	6823	0.051	7187	0.007	7564	0.001	0	0.0	0	0.0
270	0.416	3906	0.074	5219	0.028	6428	0.002	7486	0.006	8022	0.0
300	0.609	620	0.024	745	0.001	1062	0.0	1811	0.008	1977	0.0
330	0.395	535	0.001	0	0.0	0	0.0	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.9	24	111	176	133	85	90	66	59	59	90	53	27	19	7	6.1	1.46
30	6.8	15	101	181	122	84	75	75	80	59	98	58	30	13	8	6.5	1.60
60	13.3	8	47	123	138	124	126	109	87	64	83	45	28	11	6	6.7	1.74
90	2.7	16	27	89	146	188	169	120	87	54	66	24	8	6	0	6.1	2.00
120	8.9	8	48	111	169	181	147	91	68	50	75	33	14	4	1	5.9	1.72
150	21.8	4	30	72	122	145	130	108	83	69	112	66	35	16	8	7.3	1.79
180	3.1	15	57	103	132	103	94	88	77	65	111	80	48	19	6	7.4	1.78
210	2.7	29	114	190	141	112	79	82	54	58	82	36	20	4	1	5.5	1.49
240	2.4	31	121	194	167	142	113	65	55	40	45	18	9	1	1	4.9	1.58
270	2.2	25	44	66	113	158	153	125	100	86	103	21	6	0	2	6.6	2.27
300	18.7	6	36	77	127	162	166	147	108	77	73	16	4	1	0	6.4	2.49
330	14.6	8	73	169	169	121	118	101	76	59	69	23	10	2	0	5.8	1.85
Total	100.0	10	54	115	139	138	130	108	84	65	86	40	20	8	4	6.5	1.79

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	6.4	6.7	6.5	6.2	5.5	5.4	5.2	5.1	5.4	5.8	6.4	7.0	5.9
1	6.3	6.5	6.5	6.2	5.5	5.5	5.0	5.2	5.2	5.6	6.4	6.8	5.9
2	6.3	6.4	6.5	6.3	5.6	5.5	5.0	5.2	5.2	5.7	6.4	6.8	5.9
3	6.2	6.3	6.5	6.2	5.6	5.3	4.9	5.0	5.3	5.7	6.3	6.8	5.8
4	6.3	6.3	6.3	6.1	5.6	5.3	4.9	4.8	5.1	5.8	6.4	6.8	5.8
5	6.2	6.3	6.4	6.1	5.7	5.2	4.8	4.7	5.1	5.8	6.4	6.9	5.8
6	6.1	6.3	6.3	6.1	5.4	5.0	4.5	4.6	4.9	5.8	6.4	7.0	5.7
7	6.1	6.3	6.2	5.9	5.0	4.6	4.2	4.4	4.8	5.7	6.3	7.1	5.5
8	6.1	6.2	6.0	5.7	4.9	4.5	3.9	3.9	4.6	5.5	6.2	7.0	5.4
9	6.0	6.2	5.8	5.6	5.0	4.5	3.9	4.1	4.5	5.3	6.0	6.7	5.3
10	5.8	6.1	5.9	5.7	5.3	4.7	4.1	4.3	4.7	5.5	6.0	6.6	5.4
11	5.8	6.1	5.9	5.9	5.3	4.8	4.2	4.4	4.8	5.4	5.9	6.5	5.4
12	6.0	6.2	6.0	6.0	5.2	5.0	4.4	4.6	4.8	5.4	5.9	6.6	5.5
13	6.2	6.3	6.2	6.2	5.4	5.4	4.7	4.9	5.0	5.5	5.9	6.6	5.7
14	6.3	6.3	6.3	6.3	5.7	5.6	5.2	5.3	5.2	5.7	6.0	6.7	5.9
15	6.4	6.3	6.1	6.4	5.8	5.8	5.7	5.6	5.2	5.7	6.1	6.7	6.0
16	6.4	6.4	6.2	6.4	6.0	5.8	6.0	5.8	5.3	5.8	6.1	6.7	6.1
17	6.5	6.5	6.3	6.5	6.0	5.9	6.2	6.0	5.4	5.9	6.2	6.8	6.2
18	6.7	6.7	6.4	6.3	6.0	5.8	6.2	5.9	5.3	6.0	6.3	6.9	6.2
19	6.8	6.9	6.6	6.3	6.0	5.8	6.1	5.8	5.6	6.2	6.6	7.2	6.3
20	6.7	7.0	6.7	6.5	6.0	5.7	5.8	5.8	5.5	6.1	6.6	7.2	6.3
21	6.7	6.9	6.7	6.4	5.9	5.6	5.8	5.5	5.4	6.1	6.6	7.1	6.2
22	6.6	6.9	6.6	6.3	5.7	5.5	5.4	5.2	5.3	5.9	6.6	7.0	6.1
23	6.6	6.9	6.6	6.2	5.6	5.4	5.3	5.1	5.4	5.9	6.5	7.0	6.0
Day	6.3	6.5	6.3	6.2	5.6	5.3	5.1	5.1	5.1	5.7	6.3	6.9	5.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.05	3.53	4.22	4.67	4.81	4.12	3.90	3.51	4.48	4.81	3.80	3.25	4.10
	1.46	1.60	1.71	1.77	1.98	1.77	1.72	1.51	1.93	2.10	2.29	2.06	1.80
25	3.35	3.88	4.63	5.12	5.27	4.51	4.28	3.85	4.91	5.26	4.16	3.56	4.50
	1.50	1.65	1.77	1.82	2.03	1.82	1.77	1.56	1.99	2.16	2.36	2.13	1.85
50	3.61	4.17	4.98	5.50	5.66	4.86	4.60	4.15	5.28	5.65	4.46	3.82	4.83
	1.54	1.69	1.81	1.87	2.09	1.87	1.82	1.60	2.04	2.22	2.42	2.19	1.90
100	3.90	4.51	5.39	5.96	6.13	5.26	4.98	4.49	5.72	6.13	4.84	4.14	5.24
	1.49	1.63	1.76	1.81	2.02	1.81	1.76	1.55	1.98	2.15	2.35	2.12	1.85
200	4.28	4.96	5.94	6.56	6.77	5.79	5.48	4.93	6.31	6.77	5.35	4.57	5.77
	1.41	1.55	1.67	1.72	1.92	1.72	1.67	1.47	1.87	2.04	2.22	2.01	1.75
Freq	2.5	6.2	12.8	7.1	14.3	13.6	2.2	2.4	3.3	7.2	18.6	10.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.07	2.32	2.87	3.16	3.46	2.90	2.78	2.49	2.89	3.62	2.78	2.49	2.88
	1.32	1.31	1.42	1.48	1.69	1.45	1.47	1.33	1.50	1.84	1.87	1.89	1.53
25	2.51	2.81	3.47	3.81	4.15	3.50	3.35	3.02	3.48	4.35	3.33	2.98	3.47
	1.42	1.41	1.53	1.60	1.83	1.56	1.58	1.44	1.62	1.99	2.02	2.04	1.65
50	2.94	3.30	4.06	4.45	4.82	4.08	3.91	3.54	4.06	5.03	3.85	3.45	4.04
	1.59	1.58	1.72	1.79	2.05	1.75	1.78	1.61	1.81	2.23	2.27	2.30	1.84
100	3.51	3.94	4.84	5.29	5.73	4.86	4.66	4.22	4.84	5.97	4.57	4.09	4.81
	1.69	1.68	1.83	1.90	2.19	1.87	1.89	1.71	1.93	2.38	2.42	2.44	1.95
200	4.35	4.88	6.00	6.57	7.12	6.04	5.78	5.23	6.00	7.43	5.69	5.09	5.97
	1.62	1.60	1.74	1.82	2.09	1.78	1.81	1.63	1.84	2.27	2.31	2.33	1.87
Freq	3.9	4.7	12.1	7.6	13.0	14.6	4.5	2.3	2.9	5.4	16.9	12.2	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.83	2.03	2.52	2.71	3.03	2.63	2.47	2.21	2.52	3.11	2.49	2.24	2.54
	1.37	1.30	1.44	1.48	1.69	1.52	1.51	1.34	1.51	1.77	1.89	1.92	1.55
25	2.28	2.53	3.14	3.38	3.75	3.26	3.06	2.75	3.14	3.85	3.08	2.76	3.15
	1.46	1.39	1.54	1.58	1.81	1.62	1.62	1.43	1.62	1.90	2.03	2.06	1.65
50	2.71	3.01	3.72	3.99	4.42	3.85	3.62	3.27	3.70	4.52	3.61	3.24	3.71
	1.62	1.53	1.70	1.74	2.00	1.79	1.79	1.58	1.78	2.10	2.24	2.28	1.82
100	3.25	3.62	4.46	4.78	5.27	4.61	4.33	3.92	4.43	5.39	4.30	3.86	4.44
	1.77	1.68	1.87	1.91	2.20	1.97	1.96	1.73	1.96	2.30	2.46	2.50	1.99
200	4.00	4.45	5.49	5.89	6.50	5.68	5.34	4.83	5.46	6.65	5.31	4.77	5.47
	1.70	1.61	1.79	1.83	2.11	1.88	1.88	1.66	1.88	2.20	2.36	2.39	1.91
Freq	4.8	4.3	11.2	8.4	12.1	14.5	5.8	2.2	2.8	5.2	15.4	13.1	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.48	1.64	1.96	2.09	2.47	2.08	1.91	1.81	1.98	2.42	2.00	1.84	2.00
	1.46	1.34	1.41	1.45	1.78	1.47	1.45	1.39	1.52	1.75	1.77	2.01	1.54
25	1.96	2.18	2.60	2.77	3.25	2.76	2.53	2.40	2.63	3.20	2.64	2.43	2.65
	1.54	1.42	1.49	1.54	1.89	1.56	1.53	1.48	1.61	1.86	1.88	2.13	1.63
50	2.39	2.66	3.16	3.37	3.94	3.35	3.08	2.92	3.19	3.87	3.20	2.93	3.22
	1.68	1.54	1.62	1.67	2.05	1.69	1.66	1.60	1.74	2.02	2.04	2.32	1.76
100	2.90	3.25	3.85	4.10	4.75	4.07	3.74	3.56	3.87	4.68	3.86	3.53	3.91
	1.91	1.75	1.84	1.90	2.33	1.92	1.89	1.82	1.98	2.30	2.33	2.64	1.99
200	3.53	3.96	4.69	5.00	5.80	4.97	4.56	4.34	4.72	5.71	4.72	4.31	4.77
	1.84	1.69	1.77	1.83	2.25	1.85	1.82	1.75	1.91	2.21	2.24	2.55	1.92
Freq	6.2	3.8	10.0	9.5	10.9	14.4	7.7	2.2	2.7	4.8	13.3	14.4	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	3.6	63	2.6	28	2.3	18	1.8	9
25	4.0	80	3.1	43	2.8	32	2.4	19
50	4.3	97	3.6	59	3.3	46	2.9	31
100	4.7	128	4.3	93	3.9	71	3.5	48
200	5.1	183	5.3	187	4.9	140	4.2	92

OGULIN

45°15'47" N 15°13'21" E UTM 33 E 517457 m N 5012291 m 328 m a.s.l.

Weather station at the southwestern edge of the city of Ogulin about 1 km away from the city center. There are hills and higher ground in almost all directions at different distances. The highest mountain (1180 m) is placed 6 km to the W. The surrounding countryside is characterized mainly by wooded hills and forests. Anemometer is located 3 m above the roof of a 7 m high building with 10x10 m^2 base. Close to the anemometer site extensive housing exists encroach in all directions except SE.

Height of anemometer: 10.0 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.603	0	0.0	0	0.0						
30	0.580	0	0.0	0	0.0						
60	0.680	0	0.0	0	0.0						
90	0.707	0	0.0	0	0.0						
120	0.352	0	0.0	0	0.0						
150	0.261	5254	0.435	0	0.0						
180	0.334	3098	0.047	5079	0.371						
210	0.643	0	0.0	0	0.0						
240	0.577	0	0.0	0	0.0						
270	0.612	0	0.0	0	0.0						
300	0.538	0	0.0	0	0.0						
330	0.601	0	0.0	0	0.0						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.7	399	396	148	42	9	3	2	0	0	0	0	0	0	0	1.6	1.58
30	4.8	355	451	157	29	7	0	0	0	0	0	0	0	0	0	1.6	1.89
60	13.5	250	478	206	48	15	3	0	0	0	0	0	0	0	0	1.8	1.89
90	4.4	326	459	186	25	4	0	0	0	0	0	0	0	0	0	1.7	2.04
120	4.1	428	401	146	22	3	1	0	0	0	0	0	0	0	0	1.5	1.74
150	9.6	383	433	142	28	8	3	2	0	0	0	0	0	0	0	1.6	1.66
180	3.8	385	316	165	83	29	14	5	2	0	0	0	0	0	0	1.8	1.35
210	3.7	259	183	196	170	97	53	25	8	5	4	1	0	0	0	2.9	1.56
240	12.6	152	139	167	191	160	94	43	22	13	12	5	1	0	0	3.9	1.81
270	5.9	410	302	131	84	47	19	5	1	0	0	0	0	0	0	1.7	1.24
300	21.4	314	555	109	16	5	1	0	0	0	0	0	0	0	0	1.6	2.15
330	12.5	399	475	94	22	7	2	0	0	0	0	0	0	0	0	1.5	1.79
Total	100.0	319	411	146	59	33	17	7	3	2	2	1	0	0	0	1.8	1.20

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.3	4.3	3.8	3.4	2.7	2.6	2.9	2.9	2.8	3.5	4.2	4.5	3.5
1	4.2	4.2	3.6	3.4	2.6	2.6	2.8	2.8	2.7	3.5	4.1	4.5	3.4
2	4.2	4.2	3.8	3.5	2.7	2.6	2.7	2.8	2.7	3.5	4.1	4.5	3.4
3	4.1	4.1	3.7	3.4	2.6	2.6	2.6	2.7	2.7	3.4	4.1	4.4	3.4
4	4.2	4.2	3.8	3.4	2.7	2.6	2.6	2.6	2.7	3.5	4.1	4.4	3.4
5	4.2	4.2	3.9	3.4	2.6	2.5	2.6	2.7	2.6	3.4	4.1	4.6	3.4
6	4.1	4.2	3.9	3.5	2.6	2.4	2.6	2.7	2.6	3.3	4.1	4.6	3.4
7	4.1	4.1	3.8	3.5	2.5	2.4	2.5	2.6	2.6	3.3	4.0	4.5	3.3
8	4.1	4.2	3.8	3.7	2.7	2.7	2.7	2.6	2.6	3.2	4.0	4.5	3.4
9	4.1	4.1	3.8	3.9	3.1	3.1	3.0	2.8	2.7	3.2	4.0	4.5	3.5
10	4.1	4.1	4.1	4.2	3.5	3.5	3.3	3.2	3.1	3.3	4.1	4.4	3.8
11	3.9	4.1	4.1	4.5	3.9	3.9	3.7	3.7	3.3	3.4	4.0	4.4	3.9
12	4.1	4.2	4.4	4.7	4.2	4.2	4.1	4.2	3.5	3.5	4.1	4.4	4.1
13	4.2	4.5	4.6	4.9	4.5	4.4	4.4	4.4	3.9	3.9	4.2	4.4	4.4
14	4.3	4.6	4.8	5.1	4.6	4.5	4.5	4.5	4.0	4.0	4.3	4.5	4.5
15	4.2	4.6	4.8	4.9	4.4	4.4	4.4	4.4	3.9	3.9	4.2	4.4	4.4
16	4.2	4.6	4.7	4.7	4.2	4.3	4.2	4.3	3.8	3.9	4.1	4.4	4.3
17	4.1	4.4	4.5	4.3	3.9	4.1	4.1	4.1	3.5	3.6	4.1	4.4	4.1
18	4.2	4.1	4.1	3.9	3.5	3.6	3.7	3.6	3.0	3.3	4.3	4.6	3.8
19	4.4	4.2	3.8	3.5	3.1	3.1	3.3	3.1	2.8	3.5	4.6	4.8	3.7
20	4.3	4.4	3.8	3.5	2.7	2.6	2.9	2.8	2.7	3.5	4.5	4.7	3.5
21	4.3	4.4	3.7	3.4	2.6	2.5	2.8	2.8	2.8	3.5	4.3	4.6	3.5
22	4.2	4.2	3.7	3.4	2.6	2.6	2.9	3.0	2.8	3.5	4.1	4.6	3.5
23	4.2	4.1	3.7	3.4	2.7	2.5	2.8	3.0	2.8	3.6	4.1	4.5	3.5
Day	4.2	4.3	4.0	3.9	3.2	3.2	3.3	3.3	3.0	3.5	4.1	4.5	3.7

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	12.67	18.58	18.94	7.93	3.74	3.54	5.54	10.24	10.49	7.14	7.77	9.36	9.44
	1.65	1.81	1.73	1.63	1.74	1.73	1.34	1.72	1.66	1.96	2.15	1.80	1.21
25	13.76	20.16	20.55	8.66	4.10	3.88	6.07	11.14	11.41	7.82	8.51	10.20	10.29
	1.65	1.81	1.73	1.66	1.80	1.78	1.37	1.73	1.68	2.03	2.22	1.82	1.22
50	14.62	21.38	21.78	9.26	4.41	4.18	6.53	11.86	12.14	8.40	9.14	10.87	10.99
	1.67	1.82	1.73	1.71	1.85	1.83	1.40	1.76	1.70	2.08	2.28	1.86	1.23
100	15.50	22.61	23.04	9.90	4.77	4.52	7.01	12.63	12.91	9.10	9.91	11.61	11.77
	1.67	1.83	1.74	1.68	1.79	1.77	1.37	1.76	1.70	2.01	2.20	1.85	1.25
200	16.43	23.88	24.32	10.69	5.26	4.98	7.60	13.48	13.76	10.05	10.95	12.48	12.69
	1.66	1.83	1.74	1.63	1.69	1.68	1.31	1.73	1.67	1.90	2.08	1.80	1.26
Freq	4.8	8.9	9.4	4.0	5.8	7.2	4.1	7.3	10.8	12.2	16.7	8.7	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.39	12.61	14.43	6.47	2.87	2.32	3.14	6.69	7.87	4.73	5.11	6.35	6.58
	1.54	1.72	1.74	1.71	1.53	1.53	1.15	1.54	1.65	1.47	1.89	1.67	1.15
25	9.78	14.63	16.72	7.63	3.46	2.80	3.83	7.85	9.19	5.68	6.12	7.49	7.75
	1.56	1.73	1.74	1.78	1.65	1.65	1.24	1.58	1.69	1.57	2.04	1.74	1.17
50	10.89	16.19	18.48	8.64	4.03	3.26	4.53	8.84	10.28	6.60	7.08	8.49	8.79
	1.59	1.74	1.75	1.89	1.85	1.85	1.39	1.65	1.74	1.74	2.30	1.85	1.21
100	12.11	17.80	20.28	9.87	4.79	3.88	5.43	9.99	11.51	7.80	8.40	9.71	10.07
	1.65	1.76	1.77	2.03	1.97	1.97	1.48	1.76	1.84	1.87	2.44	1.99	1.26
200	13.47	19.50	22.16	11.53	5.95	4.81	6.71	11.39	12.95	9.58	10.46	11.35	11.76
	1.65	1.78	1.79	1.96	1.88	1.88	1.41	1.72	1.81	1.78	2.33	1.93	1.34
Freq	4.7	7.5	11.0	4.0	4.5	8.3	4.2	5.5	12.0	9.4	18.4	10.3	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.09	10.60	12.64	5.87	2.66	1.99	2.67	5.58	6.93	4.05	4.37	5.45	5.70
	1.54	1.72	1.77	1.80	1.60	1.54	1.23	1.53	1.69	1.40	1.93	1.69	1.15
25	8.55	12.74	15.17	7.15	3.30	2.47	3.34	6.78	8.37	5.01	5.41	6.65	6.95
	1.56	1.73	1.78	1.87	1.71	1.65	1.31	1.57	1.73	1.48	2.07	1.76	1.17
50	9.71	14.38	17.10	8.23	3.89	2.92	3.98	7.78	9.53	5.88	6.34	7.68	8.01
	1.60	1.74	1.79	1.97	1.89	1.82	1.45	1.64	1.77	1.60	2.29	1.86	1.21
100	10.97	16.07	19.07	9.49	4.65	3.49	4.80	8.94	10.81	6.97	7.55	8.90	9.27
	1.65	1.77	1.80	2.15	2.08	2.00	1.59	1.76	1.86	1.76	2.52	2.04	1.26
200	12.35	17.84	21.10	11.10	5.73	4.30	5.89	10.30	12.28	8.43	9.32	10.46	10.84
	1.67	1.80	1.83	2.08	1.99	1.92	1.52	1.73	1.87	1.69	2.41	1.98	1.33
Freq	4.7	6.9	11.6	4.0	4.0	8.8	4.3	4.9	12.4	8.4	19.1	10.9	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.32	7.88	9.98	4.84	2.20	1.56	1.91	4.00	5.51	3.10	3.36	4.21	4.45
	1.55	1.74	1.82	1.94	1.68	1.65	1.31	1.49	1.73	1.28	1.98	1.72	1.16
25	6.87	10.15	12.84	6.30	2.91	2.07	2.53	5.21	7.12	4.07	4.43	5.50	5.80
	1.57	1.75	1.82	1.99	1.78	1.75	1.39	1.53	1.76	1.33	2.10	1.77	1.18
50	8.09	11.89	15.01	7.48	3.52	2.50	3.09	6.20	8.39	4.90	5.35	6.56	6.89
	1.60	1.77	1.83	2.08	1.94	1.90	1.51	1.60	1.80	1.40	2.28	1.87	1.20
100	9.39	13.66	17.21	8.79	4.26	3.03	3.78	7.33	9.75	5.88	6.44	7.77	8.13
	1.65	1.79	1.85	2.24	2.20	2.17	1.71	1.71	1.87	1.54	2.60	2.04	1.24
200	10.80	15.51	19.46	10.34	5.20	3.70	4.60	8.61	11.25	6.99	7.87	9.21	9.58
	1.70	1.83	1.87	2.26	2.12	2.09	1.65	1.73	1.92	1.52	2.51	2.03	1.30
Freq	4.6	6.2	12.4	4.0	3.8	8.6	4.5	4.2	12.8	7.2	19.9	11.7	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	8.9	1660	6.3	654	5.4	421	4.2	196
25	9.6	2116	7.3	1019	6.6	727	5.5	417
50	10.3	2513	8.3	1367	7.5	1034	6.5	664
100	11.0	2986	9.4	1811	8.6	1425	7.6	995
200	11.8	3627	10.8	2500	10.0	2015	8.9	1461

RIJEKA

45°20'16" N 14° 26' 35" E UTM 33 E 456361 m N 5020719 m 120 m a.s.l.

Location is 2 km E of the Rijeka city centre and 1 km from the coast of the Adriatic Sea. In the north direction wooded hills expand. The anemometer is placed in the yard of a weather station. Close to the anemometer site (in W-S-E directions) extensive housing exists. The greatest obstacle effect is observed in the E.

Height of anemometer: 10 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.722	0	0.0	0	0.0	0	0.0				
30	0.577	0	0.0	0	0.0	0	0.0				
60	0.511	0	0.0	0	0.0	0	0.0				
90	0.619	2186	0.202	0	0.0	0	0.0				
120	0.527	0	0.0	0	0.0	0	0.0				
150	0.664	1919	0.058	2092	0.004	2670	0.001				
180	0.697	1361	0.117	1626	0.013	1808	0.0				
210	0.701	1333	0.001	1801	0.0	0	0.0				
240	0.730	1524	0.042	1753	0.005	1995	0.0				
270	0.715	2704	0.059	3687	0.013	5215	0.003				
300	0.629	0	0.0	0	0.0	0	0.0				
330	0.657	0	0.0	0	0.0	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	15.6	297	404	177	76	30	10	3	2	1	0	0	0	0	0	1.9	1.45
30	18.8	180	334	261	123	51	22	13	8	4	3	0	0	0	0	2.5	1.48
60	20.7	184	266	170	145	97	67	37	20	9	5	1	0	0	0	3.0	1.47
90	4.3	362	220	176	154	71	14	2	1	0	0	0	0	0	0	2.2	1.52
120	2.6	501	270	141	66	20	1	1	0	0	0	0	0	0	0	1.5	1.30
150	6.2	324	349	160	85	41	26	9	4	2	0	0	0	0	0	1.9	1.25
180	7.1	324	384	136	73	49	24	7	2	0	0	0	0	0	0	1.8	1.26
210	3.7	396	403	125	51	15	4	3	2	1	0	0	0	0	0	1.6	1.39
240	11.1	316	484	178	15	4	2	1	0	0	0	0	0	0	0	1.7	2.00
270	2.3	601	273	109	12	3	1	1	0	0	0	0	0	0	0	1.1	1.24
300	1.3	799	137	46	9	6	3	0	0	0	0	0	0	0	0	0.8	1.02
330	6.5	491	321	110	53	19	4	1	0	0	0	0	0	0	0	1.4	1.30
Total	100.0	295	343	177	91	46	24	12	6	3	2	0	0	0	0	2.0	1.22

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.0	2.0	1.9	1.8	1.7	1.9	2.0	2.0	1.8	2.0	2.0	2.1	1.9
1	1.9	2.0	1.9	1.8	1.7	1.9	1.9	1.9	1.8	1.9	1.9	2.1	1.9
2	2.0	1.9	1.9	1.8	1.7	1.7	1.7	1.9	1.7	1.8	1.9	2.0	1.8
3	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.9	1.6	1.8	2.0	1.9	1.8
4	1.9	1.9	1.9	1.8	1.6	1.6	1.7	1.9	1.6	1.8	2.0	2.0	1.8
5	2.0	1.9	1.9	1.8	1.5	1.7	1.8	1.9	1.7	1.8	2.0	2.0	1.8
6	2.0	1.9	1.9	1.7	1.4	1.6	1.6	1.7	1.6	1.8	2.0	1.9	1.8
7	2.0	1.8	1.8	1.5	1.1	1.2	1.2	1.3	1.4	1.8	2.0	2.0	1.6
8	1.9	1.8	1.5	1.4	1.1	1.0	1.1	1.0	1.1	1.6	1.9	2.0	1.5
9	1.7	1.5	1.6	1.7	1.5	1.3	1.5	1.4	1.2	1.4	1.6	1.9	1.5
10	1.6	1.6	1.9	2.0	1.8	1.6	1.8	1.9	1.6	1.6	1.5	1.8	1.7
11	1.7	1.9	2.1	2.2	2.0	1.8	2.1	2.2	1.8	1.9	1.8	1.8	1.9
12	1.9	2.2	2.3	2.3	2.0	1.9	2.3	2.3	2.0	2.1	2.0	2.0	2.1
13	2.0	2.3	2.3	2.3	2.1	2.0	2.3	2.3	2.1	2.1	2.0	2.1	2.2
14	2.1	2.3	2.3	2.3	2.1	1.9	2.3	2.4	2.0	2.0	2.0	2.1	2.2
15	2.0	2.2	2.3	2.3	2.0	1.9	2.2	2.3	1.9	1.9	1.9	1.9	2.1
16	1.9	2.1	2.2	2.1	1.9	1.8	2.2	2.1	1.7	1.7	1.7	1.7	1.9
17	1.7	1.8	2.0	2.0	1.7	1.6	2.0	2.0	1.5	1.5	1.7	1.7	1.8
18	1.9	1.7	1.7	1.8	1.5	1.5	1.7	1.7	1.3	1.6	1.9	1.9	1.7
19	1.9	2.0	1.8	1.5	1.2	1.2	1.4	1.5	1.6	1.8	2.0	1.9	1.6
20	1.9	2.0	2.0	1.6	1.4	1.2	1.4	1.7	1.7	1.8	2.0	2.0	1.7
21	2.0	1.9	2.0	1.7	1.6	1.6	1.8	2.0	1.8	1.9	1.9	2.0	1.8
22	2.1	1.9	1.9	1.8	1.6	1.8	2.1	2.0	1.8	1.8	1.9	1.9	1.9
23	2.0	2.0	1.9	1.8	1.7	1.9	2.1	2.1	1.9	1.9	2.0	2.0	1.9
Day	1.9	1.9	1.9	1.9	1.6	1.6	1.8	1.9	1.7	1.8	1.9	1.9	1.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.54	13.17	18.75	10.39	5.33	4.99	4.13	3.54	3.21	2.67	3.38	6.07	8.03
	1.31	1.32	1.49	1.35	1.49	1.47	1.26	1.56	1.86	1.43	1.28	1.44	0.99
25	9.29	14.31	20.35	11.30	5.86	5.49	4.55	3.88	3.51	2.93	3.72	6.65	8.75
	1.31	1.32	1.49	1.36	1.53	1.51	1.30	1.61	1.92	1.47	1.32	1.48	0.99
50	9.89	15.18	21.57	12.01	6.31	5.91	4.91	4.18	3.78	3.16	4.02	7.14	9.34
	1.33	1.33	1.49	1.37	1.57	1.55	1.33	1.65	1.97	1.51	1.36	1.52	1.00
100	10.52	16.07	22.80	12.74	6.82	6.38	5.29	4.52	4.09	3.41	4.33	7.68	9.97
	1.33	1.33	1.50	1.37	1.52	1.50	1.29	1.60	1.90	1.46	1.31	1.48	1.01
200	11.17	16.96	24.05	13.50	7.48	7.00	5.78	4.97	4.51	3.74	4.73	8.34	10.69
	1.31	1.33	1.50	1.36	1.45	1.42	1.23	1.51	1.80	1.38	1.25	1.42	1.01
Freq	20.1	19.7	11.7	2.9	3.4	6.6	7.6	6.6	7.0	1.6	2.6	10.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.38	9.00	13.71	8.51	3.73	3.50	2.75	2.51	2.22	1.87	1.75	3.29	5.70
	1.28	1.34	1.43	1.45	1.27	1.26	1.05	1.28	1.58	1.31	0.99	1.20	0.95
25	6.34	10.45	15.89	9.91	4.52	4.25	3.37	3.04	2.67	2.27	2.16	4.00	6.69
	1.32	1.35	1.44	1.46	1.37	1.36	1.13	1.38	1.71	1.40	1.06	1.29	0.96
50	7.17	11.60	17.55	11.02	5.32	4.99	4.01	3.57	3.11	2.67	2.58	4.72	7.55
	1.38	1.37	1.44	1.49	1.54	1.52	1.26	1.54	1.92	1.58	1.19	1.45	0.98
100	8.17	12.81	19.25	12.22	6.35	5.97	4.82	4.27	3.70	3.18	3.11	5.65	8.59
	1.47	1.39	1.45	1.53	1.63	1.62	1.33	1.65	2.04	1.67	1.26	1.54	1.01
200	9.33	14.10	21.01	13.53	7.87	7.39	5.95	5.29	4.59	3.94	3.83	6.98	9.90
	1.43	1.41	1.47	1.54	1.56	1.54	1.28	1.57	1.95	1.60	1.20	1.47	1.06
Freq	20.0	21.1	14.1	3.0	2.6	6.0	8.2	5.8	8.8	1.7	1.5	7.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.56	7.64	11.88	7.63	3.29	3.01	2.41	2.22	1.92	1.77	1.60	2.47	4.97
	1.37	1.38	1.44	1.50	1.29	1.24	1.05	1.27	1.52	1.46	1.12	1.24	0.96
25	5.58	9.19	14.25	9.19	4.11	3.77	3.04	2.77	2.39	2.21	2.01	3.08	6.04
	1.42	1.39	1.44	1.51	1.37	1.33	1.12	1.35	1.63	1.56	1.19	1.32	0.97
50	6.46	10.41	16.07	10.41	4.89	4.50	3.66	3.30	2.82	2.61	2.41	3.68	6.94
	1.49	1.40	1.44	1.54	1.52	1.46	1.23	1.49	1.80	1.72	1.31	1.45	0.99
100	7.51	11.68	17.90	11.71	5.88	5.42	4.44	3.97	3.38	3.13	2.92	4.43	7.98
	1.63	1.43	1.45	1.58	1.66	1.60	1.35	1.63	1.98	1.89	1.44	1.59	1.01
200	8.78	13.04	19.79	13.11	7.22	6.65	5.44	4.88	4.16	3.85	3.58	5.44	9.28
	1.58	1.46	1.47	1.60	1.59	1.53	1.29	1.56	1.89	1.81	1.37	1.52	1.06
Freq	20.0	21.7	14.9	3.1	2.4	5.8	8.2	5.8	8.8	2.1	1.3	5.8	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.53	5.66	8.73	6.63	2.81	2.46	1.95	1.74	1.53	1.48	1.26	1.97	3.90
	1.38	1.37	1.38	1.38	1.16	1.29	1.08	1.18	1.56	1.62	1.14	1.27	0.97
25	4.62	7.31	11.23	8.53	3.69	3.27	2.62	2.32	2.03	1.95	1.69	2.62	5.06
	1.43	1.38	1.39	1.38	1.20	1.37	1.13	1.25	1.65	1.72	1.20	1.34	0.97
50	5.53	8.58	13.13	10.00	4.45	4.00	3.23	2.85	2.47	2.37	2.07	3.21	6.01
	1.50	1.39	1.39	1.39	1.26	1.49	1.23	1.35	1.79	1.86	1.30	1.45	0.99
100	6.58	9.90	15.05	11.50	5.34	4.88	4.00	3.50	2.99	2.87	2.56	3.93	7.07
	1.63	1.42	1.40	1.41	1.37	1.69	1.39	1.53	2.04	2.12	1.48	1.65	1.01
200	7.78	11.31	17.01	13.07	6.32	5.95	4.85	4.26	3.65	3.50	3.11	4.78	8.27
	1.63	1.46	1.41	1.44	1.37	1.63	1.34	1.48	1.96	2.05	1.42	1.59	1.04
Freq	18.3	21.7	16.3	3.9	2.4	5.4	7.9	6.1	8.3	3.0	1.4	5.3	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	8.1	2008	5.8	826	5.1	531	4.0	247
25	8.8	2559	6.8	1276	6.1	909	5.1	526
50	9.3	3017	7.6	1696	7.0	1294	6.0	829
100	9.9	3566	8.5	2211	7.9	1774	7.0	1232
200	10.6	4267	9.7	2928	9.1	2405	8.1	1773

SENJ

44°59'32" N 14° 54' 12" E UTM 33 E 492380 m N 4982184 m 26 m a.s.l.

Located in the urban area of Senj (northern Adriatic coast). The foothills of the 1700 m high Velebit mountain lie 500 km away and give good shelter. Winds are channelled through the Vratnik Pass with the result that the most frequent winds come from the NE. To the W there is an exposure to the Adriatic Sea which is approximately 500 m away. Close to the anemometer site extensive housing exists encroach in all directions and strongly influence on measurements.

Height of anemometer: 10 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.196	0	0.0	0	0.0	0	0.0				
30	0.286	0	0.0	0	0.0	0	0.0				
60	0.221	4105	0.711	0	0.0	0	0.0				
90	0.214	3990	0.365	0	0.0	0	0.0				
120	0.305	0	0.0	0	0.0	0	0.0				
150	0.479	1241	0.063	1476	0.019	0	0.0				
180	0.631	803	0.019	938	0.001	1108	0.0				
210	0.733	673	0.0	0	0.0	0	0.0				
240	0.706	216	0.0	468	0.005	639	0.0				
270	0.623	279	0.0	0	0.0	0	0.0				
300	0.690	340	0.0	0	0.0	0	0.0				
330	0.530	417	0.050	507	0.002	3853	0.001				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.4	607	162	132	68	21	7	1	1	1	0	0	0	0	0	1.2	1.01
30	3.5	517	169	141	97	43	18	10	4	1	0	0	0	0	0	1.7	1.11
60	41.2	70	38	48	60	68	88	97	105	103	160	98	43	19	3	8.5	2.40
90	7.2	282	99	98	101	96	94	72	61	42	33	11	8	2	1	4.4	1.41
120	7.3	306	153	169	173	113	50	20	9	3	3	0	0	0	0	2.9	1.60
150	12.7	263	238	223	139	73	36	16	8	3	1	0	0	0	0	2.6	1.52
180	3.7	515	247	107	65	34	16	9	4	1	2	0	0	0	0	1.5	1.02
210	3.1	473	171	213	93	38	10	1	1	0	0	0	0	0	0	1.8	1.37
240	5.5	389	286	181	91	42	10	1	0	0	0	0	0	0	0	1.8	1.44
270	2.9	718	189	59	21	7	4	1	1	0	0	0	0	0	0	0.8	0.94
300	2.2	711	172	67	34	8	5	1	1	0	0	1	0	0	0	0.8	0.81
330	8.2	381	300	186	81	35	11	4	1	0	0	0	0	0	0	1.8	1.41
Total	100.0	261	138	115	86	63	55	50	50	46	69	41	18	8	1	4.4	1.16

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	5.7	5.6	4.3	3.4	3.0	3.2	4.1	4.1	3.8	4.4	5.3	4.9	4.3
1	5.6	5.4	4.7	3.4	3.0	3.1	4.1	4.1	3.8	4.3	5.1	4.9	4.3
2	5.5	5.3	4.4	3.3	2.9	3.1	4.1	4.2	3.8	4.4	5.1	5.0	4.2
3	5.5	5.3	4.7	3.3	3.0	3.1	4.2	4.1	3.7	4.4	5.1	4.9	4.3
4	5.5	5.4	4.6	3.4	2.9	3.2	4.2	4.1	3.8	4.4	5.1	5.0	4.3
5	5.5	5.6	4.5	3.4	3.0	3.3	4.2	4.2	3.8	4.5	5.1	4.9	4.3
6	5.6	5.6	4.7	3.4	3.1	3.4	4.3	4.3	3.9	4.7	5.2	5.0	4.4
7	5.5	5.7	4.7	3.4	2.9	3.3	4.1	4.2	3.9	4.6	5.2	4.9	4.3
8	5.6	5.8	4.7	3.5	3.0	3.2	4.0	4.1	3.9	4.7	5.3	4.9	4.4
9	5.7	5.8	4.7	3.6	2.9	3.2	3.9	4.0	3.8	4.7	5.1	4.9	4.3
10	5.7	5.5	4.6	3.7	2.8	3.1	3.7	3.9	3.7	4.4	5.0	4.9	4.2
11	5.6	5.4	4.5	3.7	2.7	2.9	3.5	3.6	3.4	4.3	4.8	4.9	4.1
12	5.4	5.3	4.2	3.5	2.7	2.8	3.3	3.4	3.2	4.2	4.6	4.6	3.9
13	5.1	5.1	4.0	3.4	2.7	2.8	3.1	3.3	3.1	4.0	4.5	4.4	3.8
14	4.9	5.0	3.9	3.3	2.5	2.7	3.0	3.2	3.0	3.9	4.5	4.5	3.7
15	4.9	4.9	3.8	3.2	2.5	2.5	2.9	3.1	2.9	3.9	4.4	4.5	3.6
16	5.0	4.9	3.7	3.1	2.5	2.5	2.9	3.0	2.8	3.8	4.5	4.5	3.6
17	5.0	4.9	3.7	3.1	2.4	2.4	2.9	3.0	2.8	3.9	4.6	4.6	3.6
18	5.2	4.9	3.7	2.9	2.3	2.2	2.8	3.0	2.9	4.1	4.8	4.7	3.6
19	5.4	5.2	4.0	2.9	2.4	2.3	2.9	3.1	3.4	4.3	5.0	4.8	3.8
20	5.6	5.3	4.3	3.0	2.6	2.6	3.2	3.5	3.7	4.4	5.0	4.9	4.0
21	5.6	5.4	4.3	3.2	2.9	3.0	3.8	3.9	3.9	4.5	5.2	5.1	4.2
22	5.6	5.4	4.3	3.2	3.0	3.2	3.9	4.0	3.9	4.5	5.2	5.0	4.2
23	5.6	5.4	4.3	3.3	3.0	3.2	4.0	4.0	3.9	4.4	5.2	5.1	4.3
Day	5.4	5.3	4.3	3.3	2.8	2.9	3.6	3.7	3.5	4.3	5.0	4.8	4.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.47	13.23	46.36	15.16	8.60	5.75	7.01	14.66	5.98	1.98	1.57	3.67	28.72
	1.63	1.19	7.04	1.09	1.67	1.79	1.38	1.24	1.22	0.88	0.82	1.62	1.52
25	7.09	14.36	50.29	16.44	9.38	6.30	7.67	15.90	6.55	2.20	1.76	4.03	31.17
	1.67	1.19	7.04	1.09	1.69	1.85	1.41	1.24	1.24	0.90	0.84	1.67	1.52
50	7.62	15.23	53.27	17.42	10.01	6.77	8.22	16.87	7.03	2.40	1.91	4.33	33.05
	1.72	1.20	7.05	1.09	1.73	1.90	1.45	1.24	1.27	0.92	0.86	1.71	1.52
100	8.23	16.11	56.25	18.43	10.69	7.34	8.79	17.84	7.51	2.56	2.04	4.69	34.96
	1.67	1.20	7.05	1.09	1.71	1.84	1.42	1.24	1.25	0.90	0.84	1.66	1.53
200	9.02	16.99	59.26	19.42	11.50	8.09	9.47	18.82	8.08	2.75	2.18	5.16	36.94
	1.59	1.20	7.06	1.09	1.67	1.74	1.38	1.24	1.21	0.85	0.80	1.57	1.53
Freq	3.1	8.0	50.2	4.9	1.8	5.0	8.7	5.4	6.8	2.3	1.2	2.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.35	9.49	43.26	9.47	5.82	3.85	4.76	10.68	3.89	1.37	1.28	2.49	24.83
	1.39	1.15	4.28	1.26	1.52	1.50	1.23	1.20	1.10	0.85	0.83	1.37	1.35
25	5.26	11.01	50.09	10.99	6.88	4.65	5.67	12.38	4.69	1.70	1.60	3.01	28.81
	1.49	1.15	4.29	1.27	1.59	1.62	1.29	1.20	1.17	0.91	0.88	1.48	1.35
50	6.15	12.19	55.26	12.18	7.82	5.42	6.52	13.69	5.48	2.06	1.95	3.53	31.86
	1.67	1.16	4.29	1.28	1.69	1.82	1.38	1.21	1.27	1.01	0.98	1.66	1.36
100	7.32	13.40	60.43	13.41	8.97	6.45	7.58	15.03	6.47	2.51	2.37	4.21	35.03
	1.78	1.17	4.29	1.29	1.81	1.94	1.48	1.21	1.36	1.06	1.04	1.76	1.37
200	9.05	14.67	65.62	14.71	10.49	8.01	8.93	16.44	7.78	3.07	2.90	5.22	38.37
	1.70	1.19	4.30	1.31	1.76	1.85	1.43	1.23	1.31	1.02	0.99	1.69	1.38
Freq	3.1	8.1	50.8	4.3	1.8	5.0	8.7	5.4	6.8	2.3	1.2	2.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.80	8.52	40.80	7.71	5.00	3.35	4.11	9.15	3.34	1.23	1.11	2.15	22.64
	1.32	1.04	3.42	1.58	1.52	1.50	1.22	1.19	1.10	0.87	0.83	1.35	1.27
25	4.71	10.24	48.92	9.29	6.11	4.16	5.06	10.98	4.17	1.57	1.43	2.69	27.20
	1.39	1.05	3.42	1.60	1.58	1.60	1.27	1.19	1.16	0.92	0.88	1.44	1.27
50	5.54	11.53	55.06	10.53	7.06	4.92	5.90	12.38	4.95	1.92	1.75	3.19	30.68
	1.51	1.05	3.43	1.63	1.67	1.77	1.34	1.19	1.26	1.01	0.95	1.58	1.28
100	6.58	12.85	61.21	11.85	8.20	5.88	6.94	13.82	5.92	2.36	2.17	3.83	34.26
	1.65	1.05	3.43	1.67	1.83	1.94	1.47	1.20	1.37	1.10	1.04	1.74	1.28
200	7.94	14.22	67.37	13.30	9.62	7.25	8.16	15.31	7.12	2.87	2.63	4.71	37.98
	1.59	1.06	3.43	1.70	1.77	1.86	1.42	1.22	1.32	1.06	1.00	1.67	1.29
Freq	3.2	8.2	50.7	4.2	1.8	5.0	8.7	5.4	6.8	2.3	1.2	2.6	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.01	6.97	34.85	5.98	3.85	2.61	3.22	7.02	2.60	0.83	0.68	1.72	18.49
	1.24	0.89	2.56	1.59	1.51	1.51	1.21	1.18	1.10	0.79	0.72	1.36	1.15
25	3.95	8.97	44.76	7.72	5.03	3.46	4.23	9.03	3.45	1.14	0.93	2.29	23.78
	1.29	0.90	2.57	1.60	1.56	1.60	1.25	1.18	1.15	0.83	0.76	1.44	1.15
50	4.76	10.48	52.27	9.07	6.00	4.21	5.08	10.57	4.21	1.43	1.18	2.79	27.83
	1.36	0.90	2.57	1.63	1.64	1.73	1.31	1.19	1.23	0.89	0.81	1.56	1.16
100	5.71	11.99	59.78	10.48	7.13	5.11	6.08	12.13	5.16	1.82	1.52	3.40	31.92
	1.48	0.90	2.57	1.67	1.78	1.97	1.42	1.19	1.38	1.00	0.90	1.77	1.16
200	6.78	13.50	67.29	11.99	8.43	6.23	7.19	13.73	6.20	2.20	1.82	4.14	36.08
	1.48	0.90	2.57	1.71	1.78	1.90	1.42	1.21	1.34	0.97	0.87	1.71	1.17
Freq	3.2	8.5	50.4	4.2	1.8	5.1	8.6	5.4	6.7	2.3	1.2	2.6	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	25.9	28421	22.8	23265	21.0	20458	17.6	14388
25	28.1	36329	26.4	36088	25.2	35190	22.6	30568
50	29.8	43105	29.2	48518	28.5	50145	26.4	48514
100	31.5	50774	32.0	63261	31.7	68737	30.3	72514
200	33.3	59371	35.0	81157	35.1	91617	34.2	*****

SIBENIK

43°43'41" N 15° 54' 23" E UTM 33 E 573004 m N 4842157 77 m a.s.l.

Location is 1 km SE off the Sibenik city centre, 700 m from the coast of the Adriatic Sea. Terrain falls to the SW 150 m in 500 m to the sea. The anemometer is placed on the roof of a weather station (5 m above the 4 m high building, which base is 8x16 m^2). Close to the anemometer site (in W-S-E directions) extensive housing exists. The greatest obstacle effect is observed in the W. To the N ground is covered with low Mediterranean vegetation.

Height of anemometer: 9 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.534	1584	0.204	0	0.0	0	0.0	0	0.0	0	0.0
30	0.211	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
60	0.206	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90	0.202	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
120	0.207	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
150	0.290	4805	0.063	5509	0.020	0	0.0	0	0.0	0	0.0
180	0.524	759	0.046	949	0.424	1178	0.048	1555	0.247	3503	0.012
210	0.662	719	0.0	903	0.097	1154	0.0	1614	0.186	2479	0.013
240	0.720	523	0.001	925	0.006	1112	0.0	1601	0.090	4164	0.008
270	0.692	609	0.003	936	0.0	1526	0.002	1801	0.004	2285	0.027
300	0.847	1066	0.215	1299	0.033	1793	0.001	2672	0.008	3115	0.056
330	0.593	2760	0.203	0	0.0	0	0.0	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	12.3	91	50	60	85	115	149	136	110	81	85	31	4	1	0	6.6	2.43
30	19.9	92	90	100	111	118	128	113	100	67	61	15	3	0	0	5.8	2.14
60	7.5	253	192	168	130	109	84	41	15	6	3	0	0	0	0	3.1	1.51
90	5.6	228	146	153	152	109	92	63	31	14	10	1	1	0	0	3.6	1.58
120	11.2	182	167	126	102	95	101	92	60	33	32	8	1	0	0	4.3	1.56
150	8.8	235	164	109	106	107	112	85	45	23	11	2	0	0	0	3.9	1.59
180	3.7	236	104	137	166	143	109	62	30	10	3	0	0	0	0	3.8	1.89
210	5.3	209	164	199	194	121	69	32	8	3	2	0	0	0	0	3.2	1.84
240	9.8	179	205	243	211	118	35	7	2	0	0	0	0	0	0	3.0	2.09
270	3.1	292	191	202	177	81	39	15	4	0	0	0	0	0	0	2.6	1.67
300	2.8	366	199	166	137	79	34	14	4	1	0	0	0	0	0	2.3	1.39
330	10.0	161	135	136	127	121	117	87	54	31	24	5	0	0	0	4.4	1.74
Total	100.0	175	137	136	131	112	102	78	54	34	31	8	1	0	0	4.3	1.60

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.3	4.3	3.8	3.4	2.7	2.6	2.9	2.9	2.8	3.5	4.2	4.5	3.5
1	4.2	4.2	3.6	3.4	2.6	2.6	2.8	2.8	2.7	3.5	4.1	4.5	3.4
2	4.2	4.2	3.8	3.5	2.7	2.6	2.7	2.8	2.7	3.5	4.1	4.5	3.4
3	4.1	4.1	3.7	3.4	2.6	2.6	2.6	2.7	2.7	3.4	4.1	4.4	3.4
4	4.2	4.2	3.8	3.4	2.7	2.6	2.6	2.6	2.7	3.5	4.1	4.4	3.4
5	4.2	4.2	3.9	3.4	2.6	2.5	2.6	2.7	2.6	3.4	4.1	4.6	3.4
6	4.1	4.2	3.9	3.5	2.6	2.4	2.6	2.7	2.6	3.3	4.1	4.6	3.4
7	4.1	4.1	3.8	3.5	2.5	2.4	2.5	2.6	2.6	3.3	4.0	4.5	3.3
8	4.1	4.2	3.8	3.7	2.7	2.7	2.7	2.6	2.6	3.2	4.0	4.5	3.4
9	4.1	4.1	3.8	3.9	3.1	3.1	3.0	2.8	2.7	3.2	4.0	4.5	3.5
10	4.1	4.1	4.1	4.2	3.5	3.5	3.3	3.2	3.1	3.3	4.1	4.4	3.8
11	3.9	4.1	4.1	4.5	3.9	3.9	3.7	3.7	3.3	3.4	4.0	4.4	3.9
12	4.1	4.2	4.4	4.7	4.2	4.2	4.1	4.2	3.5	3.5	4.1	4.4	4.1
13	4.2	4.5	4.6	4.9	4.5	4.4	4.4	4.4	3.9	3.9	4.2	4.4	4.4
14	4.3	4.6	4.8	5.1	4.6	4.5	4.5	4.5	4.0	4.0	4.3	4.5	4.5
15	4.2	4.6	4.8	4.9	4.4	4.4	4.4	4.4	3.9	3.9	4.2	4.4	4.4
16	4.2	4.6	4.7	4.7	4.2	4.3	4.2	4.3	3.8	3.9	4.1	4.4	4.3
17	4.1	4.4	4.5	4.3	3.9	4.1	4.1	4.1	3.5	3.6	4.1	4.4	4.1
18	4.2	4.1	4.1	3.9	3.5	3.6	3.7	3.6	3.0	3.3	4.3	4.6	3.8
19	4.4	4.2	3.8	3.5	3.1	3.1	3.3	3.1	2.8	3.5	4.6	4.8	3.7
20	4.3	4.4	3.8	3.5	2.7	2.6	2.9	2.8	2.7	3.5	4.5	4.7	3.5
21	4.3	4.4	3.7	3.4	2.6	2.5	2.8	2.8	2.8	3.5	4.3	4.6	3.5
22	4.2	4.2	3.7	3.4	2.6	2.6	2.9	3.0	2.8	3.5	4.1	4.6	3.5
23	4.2	4.1	3.7	3.4	2.7	2.5	2.8	3.0	2.8	3.6	4.1	4.5	3.5
Day	4.2	4.3	4.0	3.9	3.2	3.2	3.3	3.3	3.0	3.5	4.1	4.5	3.7

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	13.04	9.89	7.96	7.40	8.36	8.03	7.21	5.64	7.44	9.89	12.06	13.23	9.34
	2.30	2.35	1.98	1.74	1.74	1.77	1.92	2.12	2.30	1.60	1.51	1.79	1.67
25	14.18	10.78	8.71	8.09	9.12	8.77	7.90	6.17	8.14	10.76	13.10	14.38	10.19
	2.32	2.39	2.03	1.78	1.77	1.81	1.98	2.19	2.37	1.62	1.52	1.80	1.69
50	15.07	11.51	9.33	8.67	9.75	9.39	8.49	6.63	8.74	11.46	13.91	15.27	10.89
	2.35	2.46	2.08	1.83	1.82	1.86	2.04	2.25	2.43	1.64	1.53	1.81	1.72
100	16.02	12.36	10.07	9.33	10.43	10.07	9.20	7.18	9.49	12.19	14.76	16.19	11.66
	2.35	2.41	2.03	1.79	1.79	1.83	1.97	2.17	2.35	1.64	1.54	1.82	1.72
200	17.10	13.42	11.02	10.17	11.27	10.92	10.15	7.94	10.49	13.00	15.63	17.18	12.60
	2.31	2.33	1.94	1.71	1.74	1.76	1.87	2.06	2.22	1.61	1.52	1.81	1.71
Freq	10.7	15.9	11.3	7.4	10.4	9.1	4.7	4.2	7.5	5.9	4.4	8.4	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	9.25	6.48	4.98	5.23	5.87	5.51	4.77	3.70	5.36	8.34	8.49	9.52	6.54
	2.31	2.10	1.51	1.54	1.55	1.58	1.78	1.80	2.02	1.68	1.38	1.76	1.53
25	10.81	7.69	5.96	6.24	6.94	6.55	5.73	4.44	6.42	9.73	9.87	11.08	7.73
	2.37	2.22	1.61	1.63	1.62	1.67	1.92	1.95	2.18	1.71	1.40	1.78	1.59
50	12.07	8.79	6.89	7.18	7.89	7.51	6.64	5.15	7.42	10.86	10.97	12.32	8.79
	2.45	2.44	1.77	1.77	1.73	1.81	2.16	2.19	2.45	1.76	1.41	1.81	1.67
100	13.50	10.24	8.10	8.38	9.06	8.73	7.88	6.11	8.79	12.11	12.15	13.66	10.11
	2.62	2.62	1.90	1.90	1.85	1.95	2.30	2.33	2.61	1.84	1.45	1.88	1.80
200	15.31	12.41	9.87	10.10	10.61	10.45	9.80	7.60	10.94	13.57	13.42	15.17	11.90
	2.56	2.51	1.82	1.83	1.79	1.87	2.19	2.22	2.49	1.83	1.46	1.88	1.85
Freq	10.9	17.7	9.4	6.7	11.6	8.2	3.6	4.5	8.4	4.9	4.3	9.7	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.84	5.55	4.26	4.57	5.11	4.77	4.03	3.22	4.68	7.77	7.30	8.23	5.68
	2.33	2.10	1.49	1.54	1.56	1.60	1.82	1.82	2.02	1.81	1.36	1.77	1.54
25	9.47	6.81	5.26	5.63	6.24	5.86	4.99	3.99	5.77	9.37	8.79	9.91	6.94
	2.39	2.23	1.58	1.62	1.62	1.68	1.95	1.95	2.16	1.84	1.37	1.79	1.59
50	10.79	7.92	6.18	6.57	7.21	6.82	5.86	4.68	6.77	10.64	9.95	11.23	8.03
	2.47	2.42	1.72	1.74	1.71	1.81	2.16	2.16	2.39	1.88	1.38	1.83	1.67
100	12.25	9.31	7.32	7.73	8.36	8.01	6.98	5.58	8.05	12.02	11.18	12.64	9.32
	2.63	2.67	1.88	1.91	1.86	1.98	2.37	2.37	2.63	1.96	1.42	1.89	1.79
200	14.03	11.29	8.88	9.27	9.81	9.59	8.61	6.89	9.94	13.57	12.50	14.20	10.99
	2.61	2.56	1.81	1.84	1.81	1.91	2.27	2.27	2.52	1.98	1.44	1.91	1.85
Freq	11.2	17.3	9.1	6.9	11.7	8.0	3.4	4.4	8.8	4.6	4.3	10.4	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.81	4.29	3.36	3.62	4.00	3.73	3.03	2.73	3.77	6.03	5.80	6.43	4.45
	2.21	2.07	1.50	1.53	1.57	1.61	1.77	1.75	1.92	1.78	1.42	1.83	1.55
25	7.53	5.62	4.43	4.75	5.22	4.90	4.00	3.60	4.97	7.78	7.48	8.30	5.81
	2.26	2.17	1.57	1.60	1.62	1.68	1.88	1.85	2.04	1.80	1.43	1.85	1.59
50	8.89	6.75	5.36	5.70	6.23	5.88	4.83	4.36	6.00	9.16	8.78	9.75	6.93
	2.33	2.33	1.69	1.69	1.70	1.79	2.04	2.01	2.22	1.83	1.44	1.88	1.65
100	10.35	8.05	6.46	6.82	7.38	7.04	5.83	5.26	7.23	10.60	10.13	11.27	8.21
	2.46	2.63	1.90	1.88	1.84	1.99	2.33	2.29	2.53	1.89	1.47	1.94	1.77
200	12.02	9.73	7.79	8.15	8.72	8.44	7.13	6.43	8.84	12.17	11.57	12.91	9.72
	2.51	2.55	1.85	1.85	1.85	1.96	2.24	2.21	2.43	1.94	1.51	1.99	1.83
Freq	12.1	16.3	8.7	7.5	11.3	7.4	3.6	4.9	8.1	4.8	5.0	10.4	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	8.3	837	5.9	329	5.1	214	4.0	101
25	9.1	1068	6.9	512	6.2	370	5.2	216
50	9.7	1268	7.9	693	7.2	531	6.2	345
100	10.4	1553	9.0	951	8.3	752	7.3	520
200	11.2	1973	10.6	1496	9.8	1182	8.6	825

SLAVONSKI BROD 45°09'33" N 17° 59' 44" E UTM 33 E 735452 m N 5005092 m 107 m a.s.l.

Located in the eastern part of the country in the valley of the River Sava. It is of type 2 terrain, gently undulated, with small woods. Seen from the station, the built-up area from the eastern part of horizon at 500 m and the northern part at about 1 km and extends from 1-2 km. The anemometer is situated in an airfield. There are no obstacles for the wind at a distance smaller than 100 m. The anemometer is located 5 m above the roof of a 7 m high building, which has a base of 30x30 m.

Height of anemometer: 12 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.097	389	0.420	1347	0.082	2765	0.429	4437	0.796	0	0.0
30	0.263	111	0.035	446	0.561	1739	0.075	3100	0.320	0	0.0
60	0.048	450	0.816	2602	0.076	5713	0.120	0	0.0	0	0.0
90	0.049	307	0.774	2816	0.157	3254	0.046	4468	0.020	0	0.0
120	0.309	72	0.039	318	0.479	1087	0.056	1887	0.134	2931	0.152
150	0.284	135	0.073	259	0.473	865	0.004	1223	0.182	1291	0.368
180	0.061	315	0.485	859	0.103	924	0.010	1297	0.263	1365	0.710
210	0.034	468	0.373	1096	0.137	1260	0.026	2259	0.074	6055	0.009
240	0.035	2953	0.097	0	0.0	0	0.0	0	0.0	0	0.0
270	0.030	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
300	0.033	3828	0.227	0	0.0	0	0.0	0	0.0	0	0.0
330	0.032	486	0.116	1469	0.056	2595	0.457	5038	0.799	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	6.2	261	157	157	155	114	74	37	23	9	9	3	0	0	0	3.3	1.52
30	3.7	372	228	167	115	60	38	12	4	2	3	0	0	0	0	2.1	1.26
60	19.1	230	301	230	149	62	21	5	1	0	0	0	0	0	0	2.4	1.70
90	9.5	283	282	200	144	63	21	4	2	1	0	0	0	0	0	2.3	1.54
120	4.7	303	282	209	138	47	13	3	4	0	0	0	0	0	0	2.2	1.55
150	5.2	394	387	175	37	4	2	0	1	0	0	0	0	0	0	1.6	1.68
180	3.4	474	347	121	34	15	6	2	0	0	0	0	0	0	0	1.4	1.35
210	4.1	430	354	135	48	13	7	5	4	2	2	0	0	0	0	1.6	1.19
240	22.3	306	312	183	101	48	26	10	7	3	3	1	0	0	0	2.1	1.21
270	10.9	390	274	141	92	45	29	13	10	3	3	0	0	0	0	1.9	1.11
300	5.0	440	279	125	82	40	19	9	3	3	0	0	0	0	0	1.7	1.14
330	6.0	532	224	94	63	39	26	12	4	2	3	0	0	0	0	1.4	0.95
Total	100.0	334	289	175	108	51	25	9	5	2	2	0	0	0	0	2.1	1.26

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.6	1.6	2.0	1.8	1.4	1.2	1.0	1.0	1.0	1.2	1.5	1.6	1.4
1	1.5	1.6	1.9	1.6	1.3	1.2	1.0	0.9	1.0	1.2	1.5	1.6	1.4
2	1.5	1.5	1.8	1.7	1.3	1.1	0.9	1.0	0.9	1.1	1.4	1.6	1.3
3	1.5	1.5	1.8	1.6	1.3	1.1	0.9	0.9	0.9	1.0	1.5	1.6	1.3
4	1.5	1.6	1.7	1.6	1.2	1.1	0.9	0.9	0.9	1.1	1.5	1.5	1.3
5	1.5	1.5	1.6	1.5	1.1	1.1	0.9	0.9	0.9	1.0	1.4	1.6	1.3
6	1.5	1.6	1.6	1.4	1.1	1.1	0.8	0.8	0.9	1.1	1.4	1.6	1.2
7	1.5	1.6	1.6	1.5	1.4	1.4	1.0	0.8	0.8	1.1	1.4	1.6	1.3
8	1.4	1.6	1.7	1.9	1.8	1.8	1.5	1.3	1.1	1.1	1.4	1.7	1.5
9	1.5	1.8	2.1	2.4	2.2	2.1	1.9	1.8	1.6	1.5	1.6	1.8	1.9
10	1.7	2.1	2.6	3.0	2.6	2.4	2.1	2.0	2.0	1.9	1.9	1.9	2.2
11	1.9	2.3	2.9	3.1	2.8	2.6	2.3	2.3	2.1	2.1	2.1	2.0	2.4
12	2.1	2.6	3.1	3.4	3.1	2.7	2.5	2.5	2.4	2.4	2.3	2.3	2.6
13	2.2	2.7	3.4	3.5	3.2	2.7	2.6	2.6	2.6	2.5	2.4	2.4	2.7
14	2.3	2.8	3.5	3.7	3.1	2.8	2.7	2.7	2.6	2.6	2.4	2.4	2.8
15	2.3	2.9	3.6	3.7	3.0	2.9	2.7	2.7	2.5	2.5	2.4	2.3	2.8
16	2.2	2.9	3.6	3.6	2.9	2.8	2.7	2.7	2.5	2.3	2.2	2.2	2.7
17	2.1	2.6	3.3	3.5	2.8	2.7	2.6	2.5	2.2	1.8	1.9	2.0	2.5
18	1.9	2.2	2.9	3.1	2.6	2.5	2.4	2.3	1.8	1.5	1.7	1.9	2.2
19	1.8	1.9	2.4	2.5	2.2	2.1	1.9	1.8	1.5	1.4	1.7	1.9	1.9
20	1.7	1.8	2.1	2.1	1.7	1.7	1.5	1.5	1.3	1.4	1.6	1.8	1.7
21	1.7	1.7	2.1	2.1	1.6	1.5	1.3	1.5	1.3	1.3	1.7	1.8	1.6
22	1.7	1.6	2.0	1.9	1.4	1.4	1.1	1.3	1.1	1.2	1.6	1.7	1.5
23	1.6	1.6	2.0	1.8	1.5	1.3	1.1	1.2	1.0	1.2	1.5	1.6	1.4
Day	1.8	2.0	2.4	2.4	2.0	1.9	1.7	1.7	1.5	1.6	1.7	1.8	1.9

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.54	5.56	6.37	7.14	4.29	3.29	2.82	2.90	3.23	2.88	2.67	3.62	4.31
	1.68	1.79	1.92	1.67	1.71	1.83	1.47	1.40	1.45	1.34	1.24	1.16	1.34
25	7.17	6.09	6.98	7.81	4.71	3.60	3.10	3.19	3.55	3.17	2.94	4.00	4.73
	1.73	1.85	1.98	1.71	1.76	1.88	1.52	1.45	1.49	1.38	1.27	1.19	1.37
50	7.71	6.55	7.50	8.37	5.07	3.87	3.34	3.44	3.83	3.42	3.18	4.32	5.10
	1.77	1.90	2.03	1.76	1.81	1.93	1.56	1.48	1.53	1.42	1.31	1.22	1.40
100	8.33	7.10	8.13	9.01	5.48	4.19	3.61	3.71	4.14	3.69	3.42	4.65	5.50
	1.72	1.83	1.97	1.72	1.75	1.87	1.51	1.44	1.49	1.37	1.27	1.19	1.37
200	9.16	7.82	8.97	9.82	6.04	4.62	3.96	4.07	4.54	4.04	3.74	5.07	6.03
	1.63	1.74	1.86	1.65	1.66	1.77	1.43	1.37	1.41	1.30	1.21	1.13	1.32
Freq	5.7	8.4	16.0	7.9	4.9	4.7	3.7	9.4	18.7	9.1	5.4	6.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.52	3.51	4.17	5.11	3.11	2.27	1.98	1.77	2.09	1.85	1.76	1.87	2.85
	1.45	1.38	1.65	1.52	1.49	1.57	1.29	1.15	1.19	1.11	1.09	0.93	1.17
25	5.46	4.25	5.01	6.11	3.76	2.73	2.40	2.16	2.54	2.26	2.15	2.30	3.46
	1.56	1.49	1.78	1.61	1.60	1.69	1.39	1.24	1.28	1.19	1.17	0.99	1.24
50	6.38	4.97	5.82	7.04	4.38	3.18	2.82	2.56	3.00	2.68	2.55	2.77	4.06
	1.75	1.67	2.00	1.76	1.80	1.90	1.56	1.38	1.43	1.33	1.31	1.11	1.35
100	7.59	5.92	6.92	8.25	5.22	3.78	3.37	3.06	3.59	3.22	3.07	3.35	4.85
	1.87	1.78	2.13	1.89	1.92	2.03	1.66	1.47	1.52	1.41	1.39	1.17	1.41
200	9.43	7.35	8.60	9.98	6.47	4.69	4.17	3.79	4.44	3.97	3.78	4.11	5.98
	1.78	1.70	2.04	1.81	1.83	1.94	1.59	1.41	1.46	1.35	1.33	1.12	1.38
Freq	6.1	5.6	17.9	8.6	4.8	5.1	3.5	5.8	21.0	10.3	5.2	6.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.96	2.95	3.54	4.44	2.82	1.98	1.76	1.52	1.91	1.69	1.59	1.51	2.50
	1.46	1.34	1.64	1.51	1.54	1.58	1.31	1.19	1.25	1.15	1.15	0.94	1.19
25	4.92	3.68	4.39	5.47	3.50	2.46	2.20	1.91	2.39	2.12	1.99	1.92	3.12
	1.56	1.43	1.76	1.60	1.65	1.69	1.40	1.26	1.33	1.23	1.22	0.99	1.25
50	5.82	4.37	5.17	6.40	4.13	2.90	2.61	2.28	2.84	2.53	2.39	2.33	3.71
	1.73	1.58	1.94	1.73	1.83	1.87	1.55	1.39	1.47	1.36	1.35	1.09	1.34
100	6.98	5.25	6.17	7.56	4.94	3.46	3.14	2.76	3.42	3.06	2.88	2.85	4.47
	1.90	1.73	2.13	1.90	2.01	2.05	1.70	1.53	1.61	1.49	1.47	1.19	1.44
200	8.59	6.46	7.61	9.11	6.08	4.27	3.86	3.38	4.21	3.75	3.54	3.48	5.48
	1.82	1.65	2.04	1.83	1.92	1.96	1.63	1.46	1.54	1.42	1.41	1.14	1.41
Freq	6.2	4.6	18.6	8.9	4.7	5.2	3.4	4.5	21.8	10.6	5.2	6.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.93	2.28	2.78	3.37	2.26	1.60	1.40	1.21	1.55	1.37	1.27	1.23	1.98
	1.40	1.28	1.69	1.50	1.48	1.60	1.36	1.19	1.31	1.20	1.17	0.99	1.21
25	3.89	3.03	3.68	4.44	2.99	2.11	1.86	1.62	2.06	1.83	1.70	1.66	2.63
	1.48	1.36	1.79	1.58	1.56	1.69	1.44	1.26	1.38	1.27	1.24	1.04	1.26
50	4.74	3.70	4.45	5.37	3.64	2.56	2.26	1.99	2.51	2.25	2.08	2.05	3.21
	1.60	1.47	1.95	1.69	1.69	1.83	1.56	1.37	1.49	1.37	1.34	1.12	1.34
100	5.77	4.53	5.38	6.47	4.42	3.10	2.76	2.44	3.07	2.76	2.56	2.56	3.93
	1.82	1.67	2.22	1.91	1.93	2.09	1.77	1.55	1.70	1.56	1.51	1.27	1.48
200	7.03	5.52	6.57	7.81	5.39	3.78	3.37	2.97	3.74	3.36	3.12	3.10	4.78
	1.76	1.61	2.13	1.85	1.86	2.01	1.71	1.49	1.64	1.50	1.46	1.23	1.44
Freq	6.4	4.2	17.9	10.1	4.8	5.2	3.6	4.3	20.0	11.8	5.8	6.0	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.0	123	2.7	50	2.4	32	1.9	15
25	4.3	155	3.2	76	2.9	55	2.4	32
50	4.6	186	3.7	102	3.4	78	3.0	51
100	5.0	246	4.4	157	4.1	117	3.6	76
200	5.6	352	5.5	311	5.0	227	4.3	144

SPLIT RESNIK

43°31′58″ N 16° 17′ 22″ E UTM 33 E 604193 m N 48208 m 21 m a.s.l

Location is in the middle Adriatic coast at the airport of Split, 1 km S of the sea and 2-3 km N of the 500-600 m high hills. The site is 3 km NE of the town suburbs. The area is generally characterised by numerous small towns alternating with open fields. The anemometer is placed to the SW of the main runway with built-up area 500-1000 m to the S-SE and airport buildings 1.5 km to the NE. There are no obstacles closer than 150 m.

Height of anemometer: 7 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.017	279	0.269	0	0.0	0	0.0	0	0.0	0	0.0
30	0.023	797	0.104	1633	0.213	0	0.0	0	0.0	0	0.0
60	0.103	1585	0.020	5531	0.068	6675	0.271	0	0.0	0	0.0
90	0.269	1103	0.020	1362	0.0	0	0.0	0	0.0	0	0.0
120	0.259	992	0.001	4961	0.002	0	0.0	0	0.0	0	0.0
150	0.266	849	0.0	2271	0.006	2765	0.023	3066	0.079	4131	0.201
180	0.153	878	0.0	2124	0.200	0	0.0	0	0.0	0	0.0
210	0.027	79	0.164	861	0.009	898	0.0	2259	0.003	2358	0.109
240	0.016	415	0.167	1165	0.019	1975	0.008	2708	0.034	3076	0.068
270	0.014	292	0.268	0	0.0	0	0.0	0	0.0	0	0.0
300	0.013	188	0.211	0	0.0	0	0.0	0	0.0	0	0.0
330	0.017	201	0.207	0	0.0	0	0.0	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	18.1	300	290	157	92	61	41	25	14	8	7	3	2	0	0	2.3	1.07
30	7.7	271	202	152	98	68	62	46	33	25	27	9	5	2	0	3.1	1.10
60	12.4	239	207	148	108	86	72	49	32	21	23	9	5	1	0	3.3	1.20
90	7.3	263	208	176	130	95	59	35	18	11	4	0	0	0	0	2.9	1.40
120	9.7	214	227	164	125	99	90	46	21	8	6	1	0	0	0	3.1	1.45
150	9.0	217	253	186	122	92	68	36	15	6	5	1	0	0	0	2.9	1.39
180	3.3	457	270	139	51	40	25	12	4	2	1	0	0	0	0	1.7	1.08
210	3.3	383	124	159	150	114	45	16	7	1	0	0	0	0	0	2.6	1.51
240	9.3	239	177	194	185	115	65	17	5	2	0	0	0	0	0	3.0	1.81
270	4.7	465	199	108	87	64	47	20	6	2	2	0	0	0	0	1.8	1.06
300	3.9	650	163	69	45	25	24	15	4	5	0	0	0	0	0	1.0	0.80
330	11.2	344	208	138	111	84	59	27	16	6	5	1	0	0	0	2.5	1.23
Total	100.0	300	222	155	112	81	58	31	17	9	8	3	1	0	0	2.7	1.21

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.6	2.4	2.4	2.1	1.5	1.3	1.3	1.4	1.4	1.8	2.4	2.6	1.9
1	2.4	2.6	2.3	2.1	1.5	1.3	1.3	1.3	1.4	1.7	2.5	2.6	1.9
2	2.4	2.5	2.3	2.1	1.5	1.3	1.3	1.3	1.3	1.7	2.4	2.6	1.9
3	2.4	2.6	2.4	2.0	1.5	1.5	1.3	1.3	1.4	1.7	2.3	2.7	1.9
4	2.5	2.6	2.3	2.0	1.5	1.4	1.2	1.3	1.3	1.7	2.3	2.7	1.9
5	2.5	2.6	2.3	2.1	1.5	1.4	1.3	1.4	1.3	1.7	2.3	2.7	1.9
6	2.5	2.5	2.4	2.1	1.4	1.2	1.2	1.3	1.3	1.7	2.4	2.7	1.9
7	2.4	2.5	2.4	2.0	1.4	1.2	1.2	1.1	1.2	1.8	2.4	2.8	1.9
8	2.3	2.4	2.3	2.2	1.7	1.4	1.4	1.3	1.2	1.6	2.2	2.6	1.9
9	2.3	2.4	2.5	2.7	2.2	1.9	1.8	1.8	1.5	1.8	2.2	2.7	2.1
10	2.4	2.6	2.8	3.0	2.5	2.2	2.1	2.2	1.9	2.1	2.3	2.7	2.4
11	2.6	2.9	3.1	3.3	2.8	2.4	2.4	2.5	2.2	2.3	2.5	2.9	2.7
12	2.8	3.2	3.2	3.4	3.1	2.9	2.9	3.0	2.5	2.6	2.7	3.1	3.0
13	3.0	3.2	3.5	3.7	3.5	3.4	3.5	3.5	2.8	2.7	2.8	3.1	3.2
14	3.1	3.3	3.6	3.8	3.6	3.6	3.7	3.8	3.2	2.8	2.9	3.0	3.4
15	3.0	3.3	3.7	3.8	3.6	3.6	3.9	3.9	3.2	2.8	2.8	2.9	3.4
16	2.9	3.2	3.5	3.6	3.5	3.4	3.8	3.7	3.0	2.6	2.5	2.9	3.2
17	2.7	2.9	3.3	3.3	3.1	3.2	3.4	3.3	2.6	2.2	2.6	3.0	3.0
18	2.7	2.8	2.8	2.9	2.6	2.7	2.9	2.7	1.9	2.0	2.7	3.0	2.7
19	2.8	2.9	2.6	2.5	2.1	2.1	2.2	2.1	1.7	2.0	2.7	2.9	2.4
20	2.6	2.8	2.5	2.4	1.8	1.7	1.9	1.8	1.8	2.0	2.7	2.8	2.2
21	2.6	2.8	2.5	2.3	1.8	1.6	1.8	1.6	1.7	1.9	2.6	2.7	2.1
22	2.5	2.7	2.5	2.2	1.7	1.6	1.7	1.5	1.5	2.0	2.5	2.7	2.1
23	2.5	2.6	2.4	2.2	1.7	1.4	1.4	1.4	1.4	1.8	2.4	2.6	2.0
Day	2.6	2.8	2.7	2.6	2.2	2.1	2.1	2.1	1.9	2.0	2.5	2.8	2.4

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.06	4.97	6.21	5.29	7.10	7.38	5.47	4.36	4.63	4.83	3.98	5.72	5.58
	1.25	1.23	1.32	1.23	1.62	1.56	1.33	1.66	2.15	1.61	1.10	1.31	1.32
25	5.55	5.46	6.80	5.82	7.77	8.06	6.00	4.78	5.06	5.31	4.38	6.27	6.12
	1.27	1.26	1.35	1.26	1.65	1.58	1.36	1.71	2.22	1.66	1.12	1.33	1.35
50	5.97	5.87	7.28	6.28	8.33	8.63	6.45	5.14	5.44	5.71	4.74	6.73	6.58
	1.31	1.29	1.38	1.30	1.70	1.63	1.40	1.75	2.28	1.70	1.15	1.37	1.39
100	6.40	6.29	7.78	6.74	8.94	9.24	6.92	5.56	5.90	6.18	5.07	7.21	7.06
	1.28	1.26	1.36	1.26	1.66	1.60	1.37	1.70	2.21	1.65	1.13	1.34	1.36
200	6.93	6.80	8.37	7.33	9.71	9.97	7.51	6.12	6.52	6.79	5.48	7.78	7.65
	1.23	1.21	1.31	1.21	1.60	1.54	1.31	1.61	2.09	1.56	1.08	1.29	1.31
Freq	15.4	8.6	9.2	8.8	10.4	9.9	4.9	2.9	6.3	6.0	5.2	12.5	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.22	3.54	4.28	3.41	5.04	5.06	2.87	3.01	3.13	3.26	2.37	3.97	3.76
	1.07	1.11	1.19	1.09	1.46	1.37	1.10	1.49	1.81	1.28	0.88	1.19	1.17
25	3.90	4.26	5.09	4.17	6.01	6.01	3.51	3.64	3.76	3.96	2.88	4.77	4.52
	1.13	1.17	1.24	1.17	1.53	1.43	1.19	1.60	1.95	1.38	0.93	1.25	1.23
50	4.60	4.97	5.85	4.96	6.91	6.87	4.16	4.24	4.35	4.65	3.40	5.52	5.26
	1.25	1.27	1.32	1.31	1.67	1.52	1.32	1.80	2.19	1.55	1.00	1.35	1.33
100	5.46	5.86	6.79	5.95	8.05	7.93	5.00	5.05	5.17	5.55	4.05	6.48	6.20
	1.33	1.36	1.42	1.39	1.79	1.63	1.40	1.92	2.34	1.65	1.07	1.45	1.43
200	6.61	7.00	7.95	7.34	9.65	9.31	6.17	6.27	6.43	6.87	4.80	7.73	7.45
	1.28	1.31	1.37	1.33	1.72	1.58	1.35	1.83	2.23	1.57	1.03	1.40	1.39
Freq	15.5	6.6	10.0	8.4	11.0	9.5	3.6	2.7	7.4	5.6	5.1	14.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.83	3.09	3.75	2.97	4.37	4.36	2.29	2.64	2.74	2.85	2.10	3.40	3.26
	1.09	1.10	1.21	1.10	1.46	1.36	1.15	1.56	1.77	1.29	0.89	1.18	1.17
25	3.54	3.83	4.61	3.73	5.38	5.35	2.87	3.28	3.39	3.57	2.62	4.21	4.05
	1.15	1.15	1.26	1.17	1.52	1.42	1.23	1.67	1.90	1.38	0.93	1.24	1.23
50	4.22	4.52	5.38	4.48	6.28	6.21	3.43	3.87	3.98	4.24	3.14	4.96	4.77
	1.25	1.24	1.34	1.28	1.64	1.50	1.35	1.85	2.10	1.52	0.99	1.33	1.32
100	5.09	5.39	6.33	5.43	7.39	7.26	4.15	4.62	4.74	5.10	3.79	5.89	5.69
	1.37	1.35	1.46	1.40	1.80	1.64	1.48	2.03	2.31	1.66	1.08	1.45	1.44
200	6.16	6.41	7.44	6.65	8.84	8.54	5.09	5.70	5.85	6.27	4.49	7.02	6.83
	1.32	1.31	1.41	1.35	1.74	1.59	1.41	1.94	2.21	1.59	1.04	1.40	1.40
Freq	15.1	6.2	10.2	8.2	11.1	9.5	3.2	3.0	7.2	5.6	5.5	15.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.22	2.55	2.92	2.43	3.43	3.36	1.80	2.06	2.15	2.14	1.85	2.64	2.56
	1.09	1.15	1.23	1.12	1.46	1.36	1.17	1.58	1.70	1.22	0.95	1.19	1.18
25	2.95	3.37	3.84	3.25	4.50	4.41	2.41	2.72	2.84	2.86	2.47	3.49	3.38
	1.14	1.20	1.27	1.18	1.52	1.40	1.24	1.67	1.80	1.29	0.99	1.24	1.23
50	3.62	4.09	4.63	4.00	5.42	5.29	2.96	3.30	3.43	3.50	3.02	4.23	4.11
	1.22	1.27	1.34	1.28	1.61	1.48	1.34	1.81	1.95	1.39	1.05	1.31	1.31
100	4.45	4.97	5.56	4.93	6.50	6.31	3.64	4.00	4.15	4.29	3.73	5.14	5.00
	1.38	1.41	1.47	1.45	1.79	1.61	1.52	2.06	2.22	1.58	1.16	1.46	1.45
200	5.36	5.94	6.61	5.99	7.77	7.48	4.42	4.88	5.07	5.22	4.45	6.15	6.00
	1.33	1.38	1.46	1.40	1.76	1.60	1.46	1.99	2.14	1.52	1.14	1.43	1.43
Freq	14.0	6.7	10.0	8.5	10.9	8.9	3.1	3.5	7.0	5.5	6.5	15.3	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	5.1	276	3.6	115	3.1	75	2.4	35
25	5.6	348	4.2	174	3.8	125	3.2	73
50	6.0	406	4.8	226	4.4	173	3.8	113
100	6.5	524	5.6	318	5.2	242	4.5	162
200	7.1	723	6.8	590	6.2	443	5.4	290

ZAGREB MAKSIMIR

45°49'20" N 16°02'00" UTM 33 E 580273 m N 507491m 128 m a.s.l

Location is in the urban area of eastern Zagreb, 5 km of the city centre. The well wooded Medvednica mountain (1000 m high) lies between 300° and 40° and strongly influence the wind direction. The hills start about 1.5 km N of the site. The countryside is characterised by extensive built-up areas in all directions. The greatest obstacles (20-30 m high) are placed in the SW direction at a distance of 200 m.

Height of anemometer: 10 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.033	1069	0.163	1492	0.546	0	0.0	0	0.0	0	0.0
30	0.034	437	0.545	2665	0.201	3918	0.802	0	0.0	0	0.0
60	0.031	330	0.929	3064	0.205	4541	10.160	0	0.0	0	0.0
90	0.030	303	0.279	2966	0.102	0	0.0	0	0.0	0	0.0
120	0.030	580	0.124	660	0.535	998	0.142	1968	0.058	2946	0.103
150	0.031	674	0.227	932	0.597	2090	0.134	2795	10.217	3957	0.537
180	0.030	394	0.134	1655	10.632	3643	0.487	4124	0.115	5077	0.073
210	0.033	189	0.818	4723	0.053	5112	0.360	7120	0.214	0	0.0
240	0.031	145	0.842	0	0.0	0	0.0	0	0.0	0	0.0
270	0.066	404	0.681	0	0.0	0	0.0	0	0.0	0	0.0
300	0.031	438	0.635	0	0.0	0	0.0	0	0.0	0	0.0
330	0.031	498	0.698	0	0.0	0	0.0	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	19.9	537	385	33	18	11	7	4	2	2	1	0	0	0	0	1.3	1.09
30	13.8	277	247	173	116	82	50	27	16	8	3	0	0	0	0	2.6	1.32
60	11.6	197	240	256	180	88	27	8	2	1	0	0	0	0	0	2.7	1.91
90	6.8	324	349	218	85	22	2	0	0	0	0	0	0	0	0	1.9	1.72
120	5.0	437	394	147	20	2	0	0	0	0	0	0	0	0	0	1.5	1.77
150	7.3	462	432	96	9	1	0	0	0	0	0	0	0	0	0	1.3	1.87
180	7.0	435	451	104	9	1	0	0	0	0	0	0	0	0	0	1.4	1.96
210	5.9	343	402	200	44	9	3	0	0	0	0	0	0	0	0	1.7	1.78
240	9.4	194	284	266	153	67	28	7	1	0	0	0	0	0	0	2.6	1.83
270	6.5	285	260	205	130	68	36	12	3	0	0	0	0	0	0	2.4	1.50
300	2.8	573	189	109	71	34	15	6	4	0	0	0	0	0	0	1.3	1.00
330	4.1	727	184	49	28	8	3	1	0	0	0	0	0	0	0	0.8	0.95
Total	100.0	378	325	152	77	38	17	7	3	2	1	0	0	0	0	1.8	1.24

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.2	1.5	1.7	1.7	1.3	1.1	0.9	1.0	0.9	1.0	1.2	1.4	1.2
1	1.1	1.5	1.6	1.6	1.2	1.1	0.9	0.9	0.8	0.9	1.1	1.4	1.2
2	1.2	1.5	1.5	1.5	1.1	1.1	0.8	0.8	0.8	0.9	1.1	1.3	1.1
3	1.2	1.4	1.5	1.4	1.1	1.0	0.8	0.8	0.7	0.8	1.1	1.4	1.1
4	1.1	1.3	1.5	1.4	1.0	0.9	0.8	0.8	0.7	0.8	1.1	1.3	1.1
5	1.1	1.3	1.5	1.4	1.0	0.9	0.7	0.8	0.7	0.8	1.1	1.4	1.1
6	1.1	1.3	1.4	1.4	1.0	0.9	0.6	0.7	0.7	0.8	1.2	1.4	1.0
7	1.1	1.4	1.3	1.4	1.1	1.0	0.7	0.7	0.6	0.9	1.1	1.4	1.1
8	1.1	1.4	1.4	1.8	1.5	1.4	1.1	1.0	0.8	1.0	1.1	1.4	1.2
9	1.1	1.5	1.9	2.4	1.9	1.7	1.5	1.4	1.2	1.3	1.2	1.4	1.5
10	1.3	1.8	2.3	2.8	2.2	1.9	1.8	1.7	1.6	1.5	1.5	1.6	1.8
11	1.5	2.1	2.5	3.0	2.4	2.1	2.0	2.0	1.8	1.7	1.7	1.7	2.0
12	1.7	2.3	2.7	3.1	2.6	2.2	2.2	2.1	2.0	1.9	1.9	1.9	2.2
13	1.8	2.5	2.8	3.1	2.7	2.3	2.3	2.2	2.1	2.0	1.9	2.1	2.3
14	1.8	2.5	2.9	3.1	2.7	2.4	2.3	2.3	2.1	2.0	1.9	2.1	2.4
15	1.8	2.4	2.9	3.1	2.7	2.4	2.4	2.3	2.1	2.0	1.7	2.0	2.3
16	1.7	2.3	2.8	3.1	2.7	2.4	2.4	2.3	2.0	1.8	1.5	1.8	2.2
17	1.5	2.1	2.7	3.0	2.6	2.3	2.3	2.1	1.9	1.5	1.3	1.6	2.1
18	1.3	1.7	2.3	2.8	2.4	2.2	2.1	1.8	1.4	1.2	1.2	1.5	1.8
19	1.3	1.7	1.9	2.2	2.0	1.8	1.7	1.3	1.2	1.2	1.3	1.5	1.6
20	1.3	1.6	1.9	1.9	1.6	1.4	1.2	1.1	1.1	1.2	1.3	1.4	1.4
21	1.3	1.6	1.9	1.8	1.5	1.3	1.1	1.2	1.2	1.2	1.2	1.5	1.4
22	1.3	1.6	1.9	1.7	1.3	1.2	1.1	1.2	1.1	1.1	1.2	1.4	1.3
23	1.2	1.4	1.8	1.7	1.3	1.2	1.1	1.1	1.0	1.0	1.2	1.4	1.3
Day	1.3	1.7	2.0	2.2	1.8	1.6	1.4	1.4	1.3	1.3	1.3	1.6	1.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.93	6.13	5.56	3.02	2.49	2.80	4.31	7.10	6.94	5.08	2.69	3.04	4.46
	1.26	1.81	1.85	1.85	2.01	2.14	1.48	2.05	1.97	1.58	1.17	1.25	1.40
25	4.33	6.72	6.09	3.31	2.73	3.06	4.74	7.77	7.60	5.58	2.96	3.35	4.90
	1.29	1.87	1.91	1.90	2.08	2.21	1.52	2.12	2.03	1.63	1.20	1.29	1.43
50	4.67	7.22	6.54	3.55	2.93	3.29	5.11	8.35	8.17	6.01	3.20	3.62	5.28
	1.33	1.91	1.96	1.96	2.13	2.27	1.56	2.17	2.08	1.67	1.23	1.32	1.46
100	5.03	7.82	7.09	3.85	3.17	3.56	5.52	9.05	8.85	6.50	3.44	3.89	5.70
	1.29	1.85	1.90	1.89	2.06	2.19	1.51	2.11	2.02	1.62	1.19	1.28	1.42
200	5.50	8.62	7.82	4.25	3.50	3.94	6.06	10.00	9.78	7.14	3.75	4.26	6.27
	1.23	1.76	1.80	1.79	1.96	2.08	1.44	1.99	1.91	1.54	1.13	1.22	1.37
Freq	16.1	12.6	9.2	5.9	6.3	7.2	6.6	7.4	7.8	4.7	3.7	12.5	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.36	3.98	4.32	2.30	1.72	1.92	2.51	4.78	5.06	3.80	1.79	1.91	3.07
	1.05	1.39	1.73	1.60	1.67	1.78	1.29	1.71	1.73	1.44	0.98	1.02	1.23
25	2.89	4.81	5.19	2.77	2.07	2.31	3.05	5.75	6.08	4.60	2.21	2.35	3.72
	1.13	1.50	1.86	1.73	1.81	1.92	1.39	1.84	1.86	1.55	1.05	1.10	1.30
50	3.44	5.63	6.03	3.22	2.41	2.68	3.58	6.67	7.06	5.37	2.65	2.80	4.37
	1.26	1.69	2.09	1.94	2.03	2.16	1.56	2.07	2.09	1.74	1.17	1.23	1.42
100	4.14	6.71	7.16	3.82	2.86	3.18	4.27	7.92	8.38	6.39	3.19	3.37	5.22
	1.34	1.79	2.23	2.07	2.16	2.30	1.65	2.20	2.23	1.85	1.24	1.30	1.49
200	5.10	8.32	8.90	4.75	3.55	3.95	5.29	9.85	10.42	7.94	3.92	4.15	6.47
	1.28	1.71	2.13	1.98	2.06	2.19	1.58	2.11	2.13	1.77	1.19	1.24	1.44
Freq	18.0	13.3	10.3	6.3	5.7	7.3	7.0	6.5	8.5	5.6	3.3	8.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.02	3.40	3.91	2.07	1.48	1.68	2.08	4.12	4.49	3.37	1.70	1.73	2.70
	1.08	1.36	1.80	1.61	1.74	1.73	1.35	1.71	1.76	1.45	1.04	1.07	1.24
25	2.55	4.24	4.84	2.57	1.83	2.08	2.59	5.11	5.55	4.19	2.14	2.19	3.38
	1.15	1.45	1.92	1.72	1.86	1.85	1.45	1.83	1.88	1.55	1.10	1.14	1.31
50	3.06	5.03	5.68	3.02	2.15	2.44	3.08	6.01	6.53	4.96	2.58	2.63	4.01
	1.26	1.60	2.13	1.90	2.06	2.05	1.60	2.02	2.08	1.71	1.21	1.25	1.41
100	3.71	6.04	6.77	3.61	2.57	2.91	3.70	7.17	7.78	5.94	3.14	3.19	4.83
	1.38	1.76	2.34	2.09	2.26	2.25	1.75	2.22	2.28	1.88	1.33	1.37	1.51
200	4.54	7.43	8.36	4.45	3.17	3.59	4.55	8.84	9.60	7.32	3.84	3.90	5.93
	1.32	1.69	2.24	2.00	2.16	2.15	1.68	2.12	2.19	1.79	1.27	1.31	1.47
Freq	18.7	13.6	10.7	6.5	5.4	7.4	7.2	6.2	8.7	5.9	3.2	6.5	

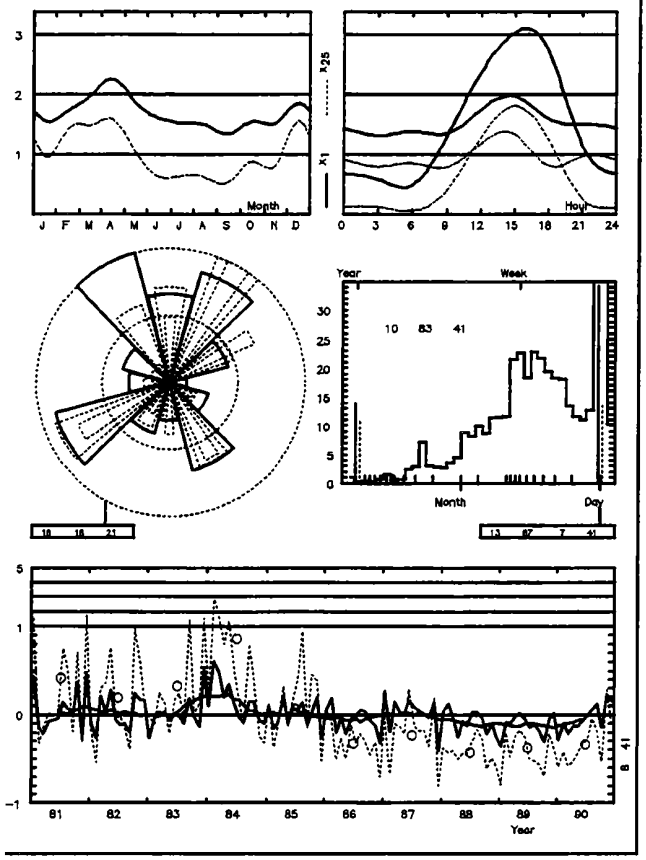
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.55	2.59	3.15	1.72	1.20	1.29	1.51	3.15	3.60	2.74	1.33	1.31	2.14
	1.09	1.32	1.83	1.69	1.62	1.81	1.62	1.67	1.79	1.51	1.02	1.06	1.26
25	2.08	3.44	4.15	2.28	1.59	1.71	1.99	4.16	4.75	3.63	1.79	1.76	2.85
	1.15	1.39	1.94	1.79	1.71	1.92	1.71	1.77	1.90	1.60	1.08	1.12	1.31
50	2.56	4.20	5.02	2.76	1.93	2.06	2.41	5.04	5.75	4.42	2.22	2.18	3.48
	1.24	1.51	2.11	1.94	1.86	2.08	1.86	1.93	2.06	1.73	1.16	1.21	1.39
100	3.16	5.13	6.05	3.33	2.34	2.49	2.92	6.09	6.94	5.36	2.76	2.70	4.25
	1.41	1.72	2.40	2.21	2.12	2.37	2.12	2.19	2.35	1.97	1.31	1.37	1.53
200	3.84	6.25	7.39	4.07	2.85	3.04	3.57	7.44	8.48	6.54	3.34	3.27	5.17
	1.36	1.65	2.31	2.13	2.04	2.28	2.04	2.12	2.27	1.90	1.27	1.31	1.49
Freq	20.0	13.5	11.7	6.5	5.0	7.4	7.5	5.9	9.1	6.4	2.9	4.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	4.1	125	2.9	55	2.5	36	2.0	17
25	4.5	158	3.4	84	3.1	62	2.6	37
50	4.8	191	4.0	113	3.7	88	3.2	59
100	5.2	252	4.7	176	4.4	135	3.8	90
200	5.7	364	5.9	358	5.4	266	4.7	171

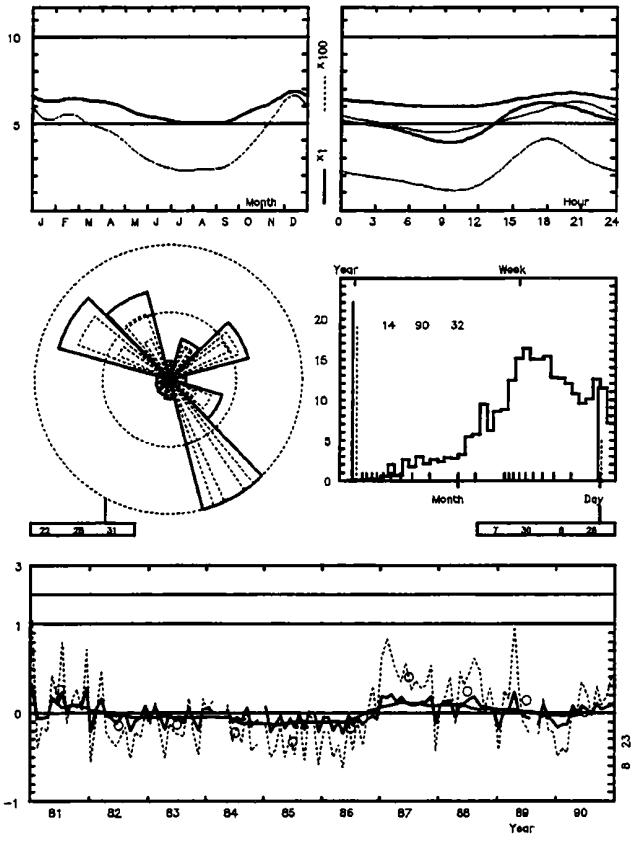
Gospic 1981–90

10.0 m agl, mean 1.7 m/s, st dev 1.7 m/s, cube 25. m^3/s^3



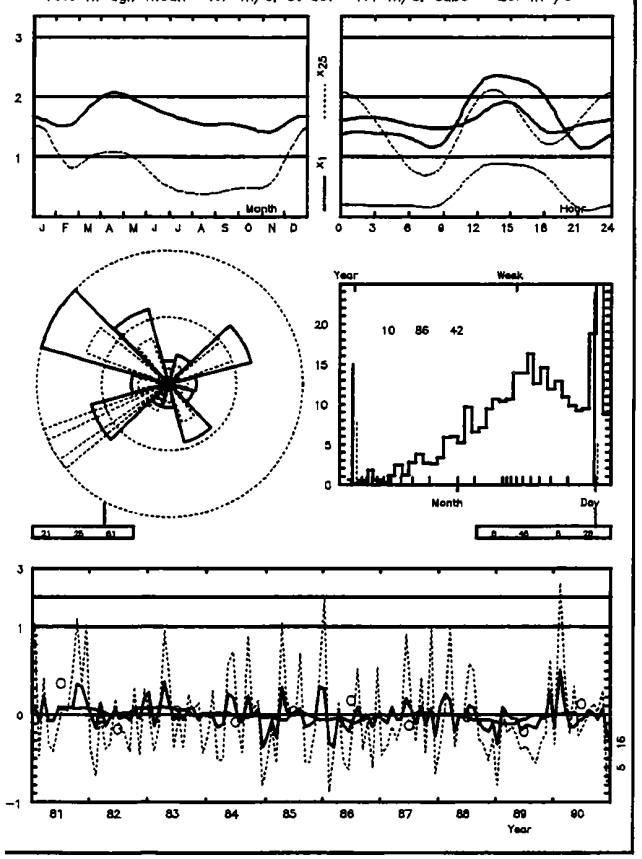
Lastovo 1981–90

15.0 m agl, mean 5.8 m/s, st dev 3.2 m/s, cube 408. m^3/s^3



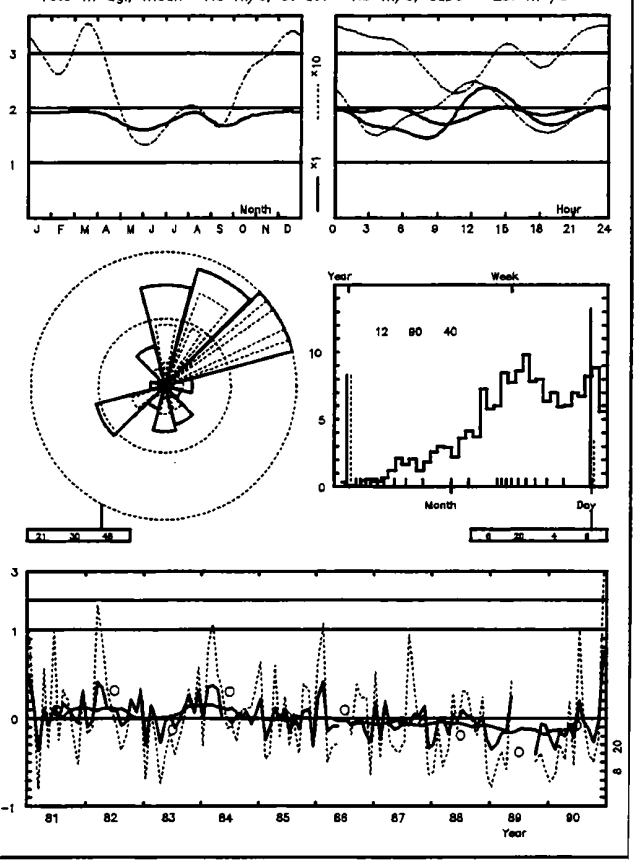
Ogulin 1981–90

10.0 m agl, mean 1.7 m/s, st dev 1.4 m/s, cube 20. m^3/s^3



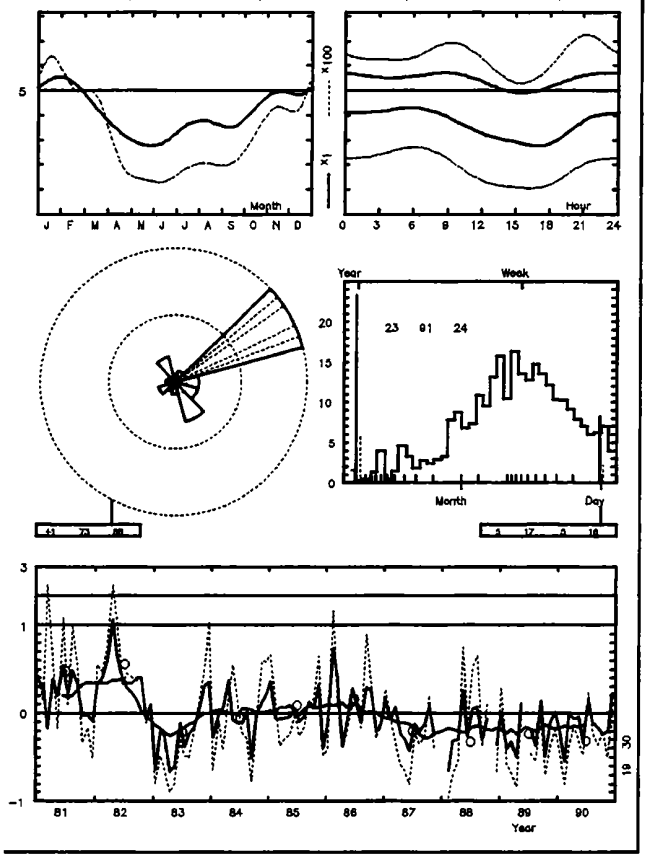
Rijeka 1981–90

10.0 m agl, mean 1.8 m/s, st dev 1.5 m/s, cube 25. m^3/s^3



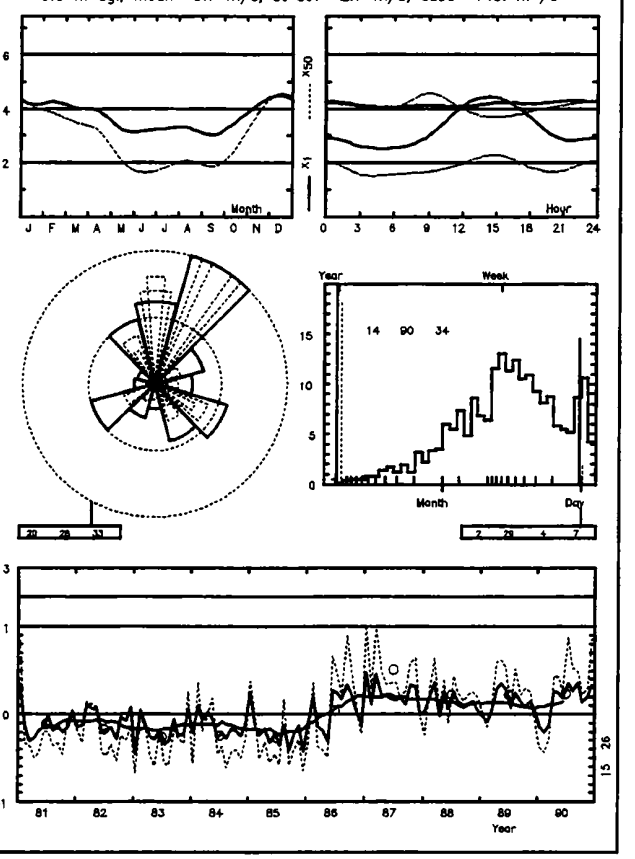
Senj 1981–90

10.0 m agl, mean 4.1 m/s, st dev 3.9 m/s, cube 321. m^3/s^3



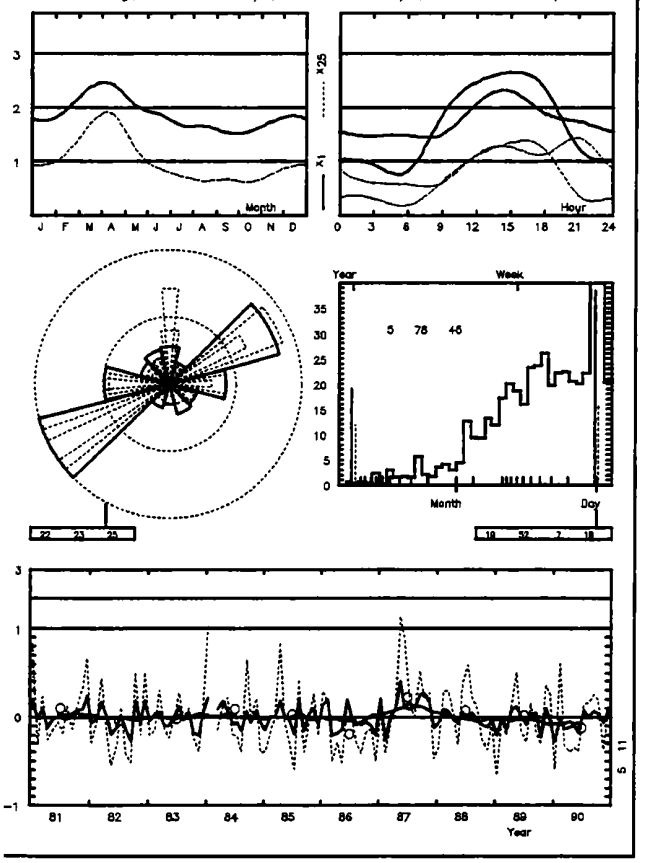
Sibenik 1981–90

9.0 m agl, mean 3.7 m/s, st dev 2.7 m/s, cube 145. m^3/s^3



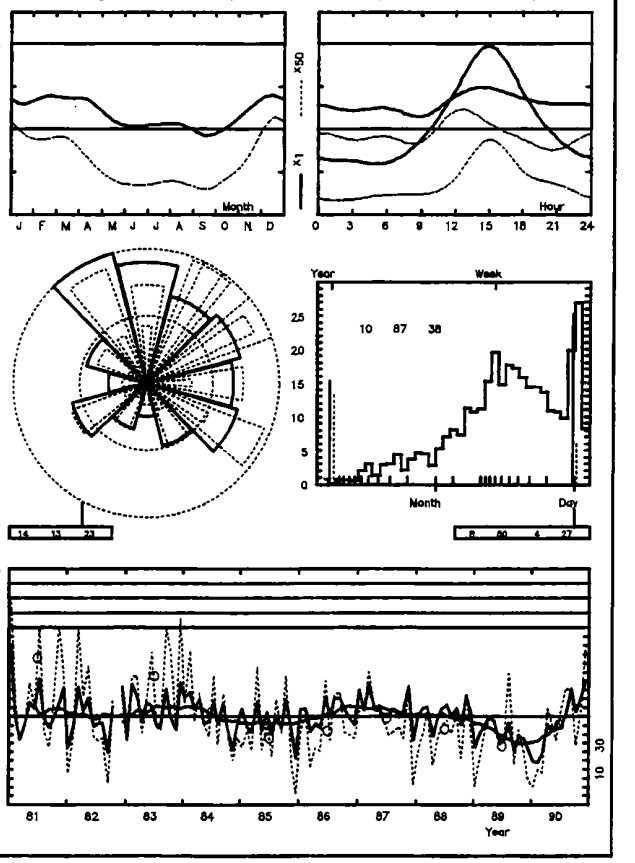
Slavonski Brod 1981–90

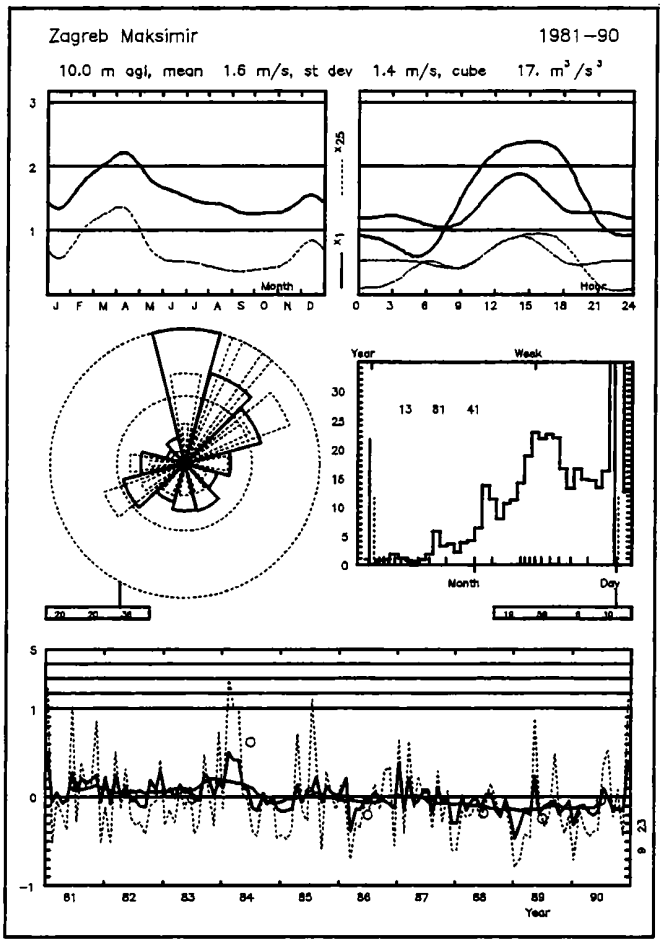
12.0 m agl, mean 1.9 m/s, st dev 1.5 m/s, cube 25. m^3/s^3



Split Aerodrom 1981–90

7.0 m agl, mean 2.4 m/s, st dev 2.2 m/s, cube 61. m^3/s^3




Zagreb Maksimir
1981–90
10.0 m agl, mean 1.6 m/s, st dev 1.4 m/s, cube 17. m³/s³
Month
Hour
Year
Week
Month
Day
Year

BRNO-TURANY

49°09'35" N 16°41'44" E UTM 33 E3623669 m N 5448871 m 241 m a.s.l.

The station is situated in the area of Brno-Turany airport at a plain. It is open in all directions except from 315 - 052 degrees. In these directions there are trees and a tower which may influence circulation at the station. Anemometer is located on a rod at a height of 5 m above the roof of a control tower and at a height of 15 m a.g.l.

Height of anemometer: 15 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.200	250	0.030	750	0.290	1150	0.050	1450	0.200		
30	0.200	150	0.030	2900	0.060	3950	0.050	4200	0.060		
60	0.300	2500	0.290	3500	0.050	0	0.0	0	0.0		
90	0.030	2550	0.160	3650	0.050	0	0.0	0	0.0		
120	0.030	1600	0.050	3000	0.600	4500	0.050	0	0.0		
150	0.030	1500	0.130	1950	0.050	4400	0.060	0	0.0		
180	0.030	3650	0.050	0	0.0	0	0.0	0	0.0		
210	0.030	1900	0.290	2800	0.060	3050	0.160	4400	0.050		
240	0.030	1000	0.130	1300	0.600	3500	0.060	3900	0.050		
270	0.030	1800	0.160	2950	0.100	4950	0.290	0	0.0		
300	0.030	1050	0.050	3100	0.160	4500	0.800	0	0.0		
330	0.030	1350	0.230	2050	0.060	3250	0.130	4650	0.700		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	6.6	162	140	136	135	110	96	86	77	36	17	4	0	0	0	4.4	1.70
30	6.6	162	180	172	117	74	69	71	73	40	27	8	5	2	0	4.0	1.33
60	12.3	87	126	149	154	118	101	88	81	53	31	9	2	0	0	4.9	1.76
90	7.8	136	146	188	174	134	101	60	38	17	6	0	0	0	0	3.9	1.83
120	8.8	121	117	138	132	103	104	87	90	63	30	10	3	2	0	5.0	1.73
150	7.1	150	113	137	125	94	83	76	80	58	50	19	6	6	2	5.0	1.50
180	9.2	116	180	205	157	109	80	50	46	27	19	7	3	0	0	3.9	1.45
210	6.3	170	153	206	172	115	76	48	33	16	8	2	0	0	0	3.6	1.61
240	5.8	186	137	185	149	101	77	62	54	30	15	3	1	0	0	3.8	1.50
270	8.4	127	133	164	141	91	92	77	75	50	30	11	5	3	0	4.6	1.50
300	12.1	89	124	179	149	104	90	88	81	50	33	9	2	1	0	4.7	1.65
330	9.1	118	122	155	157	111	96	92	73	45	25	5	2	0	0	4.6	1.69
Total	100.0	128	138	167	148	106	90	76	69	42	25	8	2	1	0	4.4	1.55

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.7	3.2	2.8	3.0	2.6	2.1	1.9	2.0	2.0	2.9	2.8	3.1	2.6
1	2.6	3.1	2.8	2.9	2.4	1.9	1.8	2.0	1.9	2.7	2.8	3.0	2.5
2	2.6	2.9	2.8	2.8	2.4	1.8	1.8	1.9	1.9	2.7	2.7	3.1	2.5
3	2.7	3.1	2.7	2.9	2.3	1.8	1.8	1.9	2.0	2.7	2.8	3.2	2.5
4	2.6	3.1	2.9	2.8	2.4	1.7	1.7	1.8	2.0	2.9	2.8	3.2	2.5
5	2.7	3.1	2.9	2.8	2.5	2.0	1.8	1.8	2.0	2.9	2.8	3.1	2.5
6	2.7	3.1	2.9	3.2	3.3	2.4	2.5	2.1	2.1	2.8	3.0	3.1	2.8
7	2.8	3.2	3.3	3.9	3.9	3.2	3.1	2.7	2.7	3.2	3.0	3.2	3.2
8	2.9	3.3	3.7	4.4	4.4	3.6	3.7	3.2	3.5	3.6	3.2	3.1	3.5
9	3.0	3.6	4.4	5.1	4.6	4.0	4.1	3.8	4.1	4.2	3.6	3.2	4.0
10	3.2	4.1	4.7	5.4	4.8	4.2	4.4	4.3	4.5	4.7	4.2	3.6	4.3
11	3.6	4.4	5.1	5.6	5.1	4.4	4.7	4.7	4.9	5.0	4.4	3.7	4.6
12	3.7	4.5	5.2	5.8	5.2	4.7	4.8	5.0	5.0	5.1	4.6	3.9	4.8
13	3.7	4.6	5.3	5.8	5.3	4.7	4.8	4.9	5.1	5.1	4.6	3.7	4.8
14	3.5	4.5	5.3	5.8	5.3	4.6	4.8	4.9	4.9	5.0	4.3	3.7	4.7
15	3.3	4.3	5.3	5.6	5.1	4.5	4.9	4.9	4.6	4.6	3.9	3.5	4.5
16	3.1	3.8	4.8	5.4	4.9	4.3	4.5	4.7	4.2	3.8	3.5	3.3	4.2
17	3.1	3.5	4.1	5.0	4.4	4.2	4.2	4.1	3.3	3.5	3.5	3.2	3.8
18	3.0	3.6	3.7	4.2	3.8	3.5	3.4	3.4	3.0	3.5	3.3	3.2	3.5
19	3.0	3.5	3.5	3.6	3.4	2.9	2.9	3.0	2.8	3.3	3.4	3.3	3.2
20	3.0	3.4	3.3	3.6	3.2	2.7	2.7	2.7	2.7	3.4	3.4	3.2	3.1
21	2.9	3.3	3.2	3.4	3.1	2.5	2.6	2.5	2.4	3.2	3.1	3.2	3.0
22	2.9	3.3	3.1	3.3	2.8	2.2	2.2	2.1	2.2	3.0	3.1	3.1	2.8
23	2.8	3.3	2.9	3.1	2.7	2.1	2.1	2.1	2.1	2.9	3.0	3.1	2.7
Day	3.0	3.6	3.8	4.1	3.7	3.2	3.2	3.2	3.2	3.6	3.4	3.3	3.4

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.28	6.53	8.55	5.18	6.78	7.19	5.81	5.47	5.92	6.54	7.09	8.22	6.90
	1.89	1.60	1.94	2.11	2.00	1.71	1.63	1.85	1.72	1.76	1.93	1.91	1.74
25	9.04	7.16	9.34	5.68	7.42	7.87	6.38	6.00	6.49	7.17	7.76	8.98	7.56
	1.93	1.64	1.98	2.17	2.06	1.75	1.69	1.90	1.77	1.82	1.99	1.96	1.78
50	9.68	7.69	9.99	6.10	7.97	8.44	6.87	6.45	6.98	7.71	8.34	9.61	8.11
	1.99	1.69	2.03	2.23	2.12	1.80	1.73	1.96	1.82	1.87	2.04	2.01	1.83
100	10.40	8.29	10.72	6.61	8.64	9.09	7.43	6.99	7.56	8.35	9.04	10.34	8.75
	1.94	1.64	1.99	2.16	2.05	1.75	1.68	1.89	1.76	1.81	1.98	1.96	1.79
200	11.31	9.07	11.65	7.30	9.54	9.92	8.17	7.70	8.32	9.20	9.98	11.26	9.59
	1.87	1.56	1.92	2.05	1.94	1.68	1.59	1.79	1.67	1.71	1.87	1.88	1.72
Freq	7.4	7.7	11.9	7.1	8.0	7.3	9.8	6.8	6.0	7.6	10.9	9.4	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.66	4.35	5.85	3.53	4.57	4.85	3.87	3.68	3.96	4.35	4.76	5.58	4.65
	1.65	1.35	1.69	1.76	1.67	1.47	1.38	1.54	1.44	1.46	1.61	1.65	1.49
25	6.74	5.25	6.95	4.24	5.50	5.82	4.68	4.44	4.79	5.26	5.72	6.65	5.58
	1.74	1.45	1.78	1.90	1.80	1.56	1.49	1.66	1.56	1.58	1.74	1.74	1.59
50	7.72	6.13	7.94	4.92	6.38	6.74	5.48	5.17	5.59	6.13	6.66	7.63	6.47
	1.90	1.61	1.94	2.13	2.03	1.73	1.67	1.87	1.74	1.77	1.95	1.90	1.75
100	8.98	7.28	9.22	5.84	7.58	7.94	6.53	6.15	6.66	7.30	7.91	8.90	7.64
	2.04	1.72	2.08	2.27	2.16	1.85	1.77	1.99	1.86	1.88	2.07	2.04	1.87
200	10.79	8.95	11.03	7.26	9.42	9.68	8.10	7.63	8.26	9.06	9.83	10.73	9.36
	1.96	1.65	2.00	2.17	2.06	1.77	1.69	1.90	1.77	1.80	1.98	1.96	1.82
Freq	7.4	7.7	11.9	7.1	8.0	7.3	9.8	6.8	6.0	7.6	10.9	9.4	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.92	3.80	5.09	3.06	3.98	4.22	3.38	3.20	3.44	3.83	4.15	4.87	4.05
	1.67	1.37	1.71	1.76	1.69	1.48	1.39	1.55	1.46	1.50	1.63	1.67	1.51
25	6.04	4.73	6.24	3.79	4.93	5.22	4.21	3.97	4.28	4.76	5.14	5.98	5.01
	1.76	1.46	1.79	1.89	1.81	1.57	1.49	1.66	1.55	1.61	1.75	1.76	1.60
50	7.04	5.61	7.25	4.45	5.80	6.14	4.99	4.69	5.07	5.62	6.06	6.98	5.89
	1.90	1.61	1.93	2.09	2.01	1.71	1.64	1.83	1.72	1.77	1.93	1.90	1.74
100	8.27	6.72	8.49	5.31	6.92	7.29	5.99	5.60	6.07	6.73	7.23	8.21	7.01
	2.09	1.77	2.12	2.30	2.20	1.88	1.80	2.01	1.88	1.95	2.12	2.09	1.91
200	9.94	8.24	10.17	6.55	8.53	8.88	7.37	6.91	7.47	8.28	8.92	9.89	8.55
	2.01	1.70	2.04	2.20	2.11	1.81	1.73	1.93	1.81	1.87	2.03	2.01	1.85
Freq	7.4	7.7	11.9	7.1	8.0	7.3	9.8	6.8	6.0	7.6	10.9	9.4	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.84	2.97	3.97	2.39	3.11	3.28	2.66	2.51	2.72	2.99	3.23	3.81	3.17
	1.69	1.38	1.72	1.77	1.71	1.48	1.42	1.57	1.48	1.52	1.63	1.69	1.52
25	5.04	3.94	5.20	3.16	4.11	4.33	3.53	3.33	3.60	3.97	4.26	5.01	4.18
	1.76	1.46	1.80	1.87	1.81	1.56	1.50	1.66	1.56	1.61	1.72	1.77	1.60
50	6.06	4.80	6.24	3.82	4.97	5.25	4.30	4.04	4.38	4.82	5.17	6.02	5.06
	1.88	1.58	1.92	2.03	1.97	1.68	1.62	1.80	1.70	1.74	1.87	1.90	1.72
100	7.24	5.85	7.45	4.62	6.01	6.35	5.23	4.89	5.31	5.84	6.26	7.21	6.12
	2.11	1.79	2.13	2.31	2.24	1.90	1.85	2.05	1.93	1.99	2.13	2.13	1.93
200	8.71	7.13	8.93	5.64	7.34	7.70	6.38	5.97	6.48	7.13	7.64	8.69	7.42
	2.06	1.73	2.09	2.23	2.16	1.84	1.78	1.98	1.86	1.91	2.05	2.08	1.88
Freq	7.4	7.7	11.9	7.1	8.0	7.3	9.8	6.8	6.0	7.6	10.9	9.4	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.1	317	4.2	124	3.7	80	2.9	37
25	6.7	403	5.0	192	4.5	137	3.7	80
50	7.2	482	5.8	258	5.3	197	4.5	127
100	7.8	624	6.8	390	6.2	295	5.4	193
200	8.6	867	8.3	745	7.6	556	6.6	356

CHEB

50°04'11" N 12°23'35" E UTM 33 E 3313371 m N 5551956 m 474m a.s.l.

The station is located on the east edge of the town of Cheb, on a gentle slope orented to the North, in an suburban area on top of a building 5 m above the roof. It is open for all directions except for 240 degrees.

Height of anemometer: 18.0 m a.g.l. *Period:* 1984010100 - 1993123123

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.240	1800	0.060	4500	0.130	0	0.0	0	0.0		
30	0.500	800	0.050	1150	0.230	2000	0.050	0	0.0		
60	0.500	200	0.050	600	0.230	800	0.050	1800	0.170		
90	0.100	250	0.050	750	0.130	1300	0.050	2800	0.020		
120	0.500	200	0.050	800	0.040	3000	0.020	5000	0.230		
150	0.500	500	0.180	1200	0.230	2200	0.020	3500	0.160		
180	0.500	1500	0.130	2200	0.060	2800	0.230	0	0.0		
210	0.800	1400	0.160	2300	0.230	0	0.0	0	0.0		
240	0.800	1600	0.060	3800	0.230	0	0.0	0	0.0		
270	0.800	2400	0.230	0	0.0	0	0.0	0	0.0		
300	0.800	2400	0.090	0	0.0	0	0.0	0	0.0		
330	0.800	1900	0.240	2600	0.640	4500	0.130	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	7.7	165	323	201	171	89	37	12	2	1	0	0	0	0	0	2.7	1.70
30	8.1	156	467	213	116	34	10	4	1	0	0	0	0	0	0	2.1	1.57
60	7.9	161	281	246	197	73	28	11	2	1	0	0	0	0	0	2.7	1.89
90	6.3	202	259	211	181	92	38	13	3	1	0	0	0	0	0	2.7	1.76
120	5.0	256	207	174	179	104	53	17	6	3	1	0	0	0	0	2.8	1.65
150	2.5	503	272	141	56	19	6	3	0	0	0	0	0	0	0	1.5	1.25
180	3.9	321	330	213	82	34	16	3	1	0	0	0	0	0	0	2.0	1.51
210	16.1	79	186	229	243	130	73	37	15	7	3	0	0	0	0	3.6	2.03
240	15.8	80	185	215	232	138	79	43	17	6	3	0	0	0	0	3.7	2.04
270	12.5	101	181	191	231	142	91	41	14	5	3	0	0	0	0	3.7	2.10
300	8.9	142	212	217	206	123	60	27	7	4	1	0	0	0	0	3.3	1.92
330	5.2	242	216	201	183	97	44	11	3	2	1	0	0	0	0	2.8	1.73
Total	100.0	152	243	211	196	105	55	25	9	4	2	0	0	0	0	3.1	1.78

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.5	2.0	1.9	1.4	1.4	1.3	1.2	1.1	1.4	1.6	2.2	2.6	1.7
1	2.5	2.0	1.9	1.3	1.3	1.3	1.1	1.0	1.4	1.6	2.1	2.6	1.7
2	2.5	2.0	1.9	1.4	1.3	1.2	1.1	1.0	1.4	1.6	2.2	2.6	1.7
3	2.6	2.0	2.0	1.5	1.2	1.2	1.1	1.0	1.5	1.6	2.1	2.6	1.7
4	2.6	2.0	2.0	1.5	1.2	1.2	1.1	1.0	1.4	1.7	2.2	2.7	1.7
5	2.6	2.1	1.9	1.4	1.3	1.3	1.1	0.9	1.5	1.6	2.2	2.5	1.7
6	2.7	2.0	2.0	1.6	1.5	1.5	1.4	1.1	1.5	1.7	2.4	2.6	1.8
7	2.7	2.1	2.0	1.9	1.9	1.9	1.8	1.5	1.7	1.8	2.3	2.5	2.0
8	2.7	2.2	2.3	2.3	2.3	2.3	2.2	1.9	2.0	2.1	2.3	2.6	2.3
9	2.8	2.4	2.7	2.6	2.7	2.5	2.4	2.2	2.3	2.4	2.5	2.7	2.5
10	2.9	2.6	3.0	2.9	2.9	2.7	2.7	2.5	2.5	2.6	2.7	2.8	2.7
11	3.0	2.7	3.1	3.1	3.0	2.9	2.9	2.7	2.8	2.7	2.8	2.9	2.9
12	3.1	2.8	3.3	3.2	3.1	3.0	2.9	2.8	2.9	2.8	2.9	2.9	3.0
13	3.0	3.0	3.3	3.2	3.1	3.0	3.1	2.8	2.8	2.8	2.8	2.9	3.0
14	2.9	2.9	3.2	3.2	3.1	2.9	3.0	2.8	2.7	2.7	2.7	2.8	2.9
15	2.8	2.8	3.2	3.2	3.0	2.9	2.9	2.8	2.7	2.5	2.6	2.7	2.8
16	2.6	2.6	3.0	3.0	2.9	2.7	2.6	2.5	2.4	2.2	2.4	2.7	2.6
17	2.7	2.4	2.6	2.7	2.6	2.6	2.5	2.2	2.0	2.0	2.4	2.7	2.4
18	2.7	2.4	2.4	2.3	2.4	2.2	2.2	1.8	1.9	2.0	2.4	2.7	2.3
19	2.6	2.3	2.2	2.0	2.0	1.8	1.8	1.5	1.7	1.8	2.3	2.7	2.1
20	2.6	2.2	2.1	1.8	1.7	1.6	1.6	1.4	1.6	1.8	2.2	2.7	1.9
21	2.6	2.2	2.0	1.7	1.6	1.5	1.5	1.3	1.5	1.7	2.3	2.7	1.9
22	2.4	2.1	2.0	1.5	1.4	1.4	1.3	1.1	1.5	1.7	2.2	2.6	1.8
23	2.5	2.1	1.9	1.4	1.4	1.2	1.3	1.1	1.4	1.6	2.2	2.6	1.7
Day	2.7	2.3	2.4	2.2	2.1	2.0	1.9	1.7	1.9	2.0	2.4	2.7	2.2

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.15	3.35	3.94	3.76	3.96	2.44	3.71	7.26	7.05	7.29	6.00	5.19	5.53
	1.91	1.76	2.12	1.98	1.87	1.41	1.71	2.29	2.30	2.37	2.17	1.96	1.78
25	4.55	3.68	4.31	4.11	4.34	2.68	4.07	7.95	7.72	7.97	6.57	5.69	6.07
	1.98	1.82	2.19	2.05	1.92	1.45	1.76	2.36	2.37	2.44	2.23	2.03	1.82
50	4.89	3.95	4.63	4.42	4.66	2.89	4.38	8.54	8.29	8.56	7.06	6.11	6.52
	2.03	1.87	2.25	2.10	1.98	1.49	1.80	2.42	2.43	2.51	2.29	2.08	1.85
100	5.30	4.28	5.02	4.79	5.05	3.12	4.74	9.26	8.99	9.29	7.65	6.62	7.06
	1.96	1.81	2.18	2.03	1.91	1.44	1.75	2.35	2.35	2.43	2.22	2.01	1.81
200	5.85	4.72	5.55	5.29	5.57	3.42	5.22	10.24	9.94	10.27	8.46	7.31	7.79
	1.86	1.71	2.06	1.92	1.81	1.37	1.65	2.22	2.22	2.30	2.10	1.90	1.74
Freq	7.5	8.2	8.1	6.4	4.9	2.4	3.9	15.9	16.2	12.7	8.8	5.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.85	2.39	2.68	2.57	2.68	1.66	2.54	4.92	4.79	4.96	4.08	3.51	3.75
	1.62	1.59	1.81	1.66	1.56	1.21	1.46	1.91	1.92	1.98	1.81	1.64	1.57
25	3.43	2.88	3.22	3.08	3.23	2.03	3.06	5.90	5.74	5.94	4.89	4.23	4.51
	1.74	1.72	1.95	1.79	1.68	1.30	1.57	2.06	2.07	2.14	1.96	1.77	1.67
50	3.98	3.35	3.73	3.58	3.76	2.39	3.57	6.83	6.64	6.86	5.67	4.91	5.25
	1.96	1.93	2.19	2.01	1.88	1.46	1.76	2.32	2.33	2.40	2.20	1.99	1.82
100	4.74	3.98	4.42	4.26	4.47	2.86	4.25	8.10	7.88	8.14	6.73	5.84	6.25
	2.09	2.05	2.33	2.14	2.01	1.55	1.88	2.47	2.47	2.56	2.34	2.12	1.90
200	5.88	4.95	5.50	5.29	5.55	3.53	5.28	10.08	9.81	10.13	8.37	7.26	7.76
	1.99	1.96	2.23	2.05	1.92	1.48	1.79	2.36	2.37	2.44	2.24	2.02	1.84
Freq	7.5	8.2	8.1	6.4	4.9	2.4	3.9	15.9	16.2	12.7	8.8	5.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.45	2.00	2.35	2.22	2.33	1.41	2.17	4.26	4.14	4.27	3.53	3.05	3.24
	1.60	1.52	1.76	1.65	1.56	1.21	1.41	1.92	1.91	1.96	1.80	1.64	1.56
25	3.04	2.49	2.90	2.75	2.89	1.77	2.70	5.26	5.11	5.27	4.37	3.79	4.01
	1.71	1.63	1.88	1.77	1.67	1.29	1.51	2.05	2.05	2.10	1.93	1.75	1.65
50	3.59	2.94	3.41	3.24	3.41	2.11	3.20	6.18	6.00	6.18	5.13	4.46	4.73
	1.89	1.80	2.08	1.96	1.85	1.42	1.67	2.27	2.26	2.33	2.13	1.94	1.78
100	4.29	3.51	4.07	3.87	4.07	2.54	3.83	7.35	7.14	7.36	6.12	5.32	5.66
	2.07	1.98	2.29	2.15	2.03	1.55	1.83	2.50	2.49	2.56	2.34	2.13	1.90
200	5.28	4.33	5.02	4.78	5.02	3.12	4.72	9.08	8.82	9.09	7.55	6.57	6.98
	1.99	1.90	2.19	2.06	1.94	1.49	1.75	2.39	2.38	2.45	2.24	2.04	1.85
Freq	7.5	8.2	8.1	6.4	4.9	2.4	3.9	15.9	16.2	12.7	8.8	5.1	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.96	1.72	1.85	1.77	1.84	1.13	1.75	3.33	3.23	3.34	2.76	2.38	2.55
	1.67	1.79	1.79	1.69	1.58	1.21	1.47	1.91	1.90	1.96	1.82	1.63	1.58
25	2.60	2.27	2.44	2.34	2.44	1.51	2.31	4.39	4.25	4.40	3.64	3.15	3.38
	1.77	1.90	1.90	1.79	1.67	1.27	1.56	2.02	2.01	2.08	1.93	1.73	1.66
50	3.14	2.75	2.95	2.83	2.96	1.85	2.81	5.30	5.14	5.32	4.40	3.82	4.09
	1.93	2.07	2.06	1.94	1.81	1.38	1.69	2.20	2.19	2.26	2.09	1.88	1.77
100	3.80	3.31	3.56	3.42	3.58	2.27	3.42	6.38	6.19	6.40	5.31	4.62	4.96
	2.19	2.35	2.35	2.21	2.06	1.56	1.92	2.50	2.49	2.57	2.38	2.14	1.95
200	4.64	4.05	4.34	4.18	4.37	2.77	4.17	7.80	7.57	7.83	6.49	5.64	6.05
	2.12	2.27	2.26	2.13	1.99	1.51	1.85	2.41	2.40	2.48	2.30	2.06	1.90
Freq	7.5	8.2	8.1	6.4	4.9	2.4	3.9	15.9	16.2	12.7	8.8	5.1	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.9	158	3.4	59	2.9	38	2.3	18
25	5.4	202	4.0	94	3.6	67	3.0	39
50	5.8	246	4.7	131	4.2	99	3.6	64
100	6.3	321	5.5	209	5.0	155	4.4	101
200	6.9	456	6.9	417	6.2	303	5.4	191

KOCELOVICE

49°28'01"N 13°50'27" E UTM 33 E 3415977 m N 5482301 m 519 m. a.s.l.

The station is situated on the top of a local terrain elevation to the NE of the village of Kocelovice at a distance of approx. 500 m. The station is open from all directions. The only obstacle for circulation at the station may be row of trees in the directions of 139 - 179 degrees at a distance of approx. 350 m from the station. The anemometer is located on a rod at a height of 3,5 m above the roof of the station building and at a height of 10 m above the ground.

Height of anemometer: 10 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	400	0.130	3750	0.050	0	0.0	0	0.0		
30	0.030	3750	0.160	5000	0.290	0	0.0	0	0.0		
60	0.030	900	0.700	2400	0.290	0	0.0	0	0.0		
90	0.030	1100	0.700	4000	0.290	0	0.0	0	0.0		
120	0.030	1500	0.600	4250	0.290	0	0.0	0	0.0		
150	0.030	900	0.290	2550	0.090	4500	0.290	0	0.0		
180	0.030	1200	0.290	1850	0.090	2650	0.010	4200	0.290		
210	0.030	3300	0.040	4350	0.030	0	0.0	0	0.0		
240	0.030	350	0.290	1100	0.050	3400	0.160	4500	0.050		
270	0.030	400	0.290	1000	0.050	2050	0.130	4000	0.100		
300	0.060	2850	0.050	0	0.0	0	0.0	0	0.0		
330	0.050	1150	0.290	3200	0.050	0	0.0	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.8	214	303	188	124	85	44	26	12	3	0	0	0	0	0	2.6	1.42
30	7.7	106	230	224	170	121	71	44	21	8	5	0	0	0	0	3.4	1.67
60	9.6	85	202	277	203	115	60	28	17	7	5	0	0	0	0	3.3	1.75
90	10.2	80	159	201	166	139	101	68	47	20	17	2	0	0	0	4.2	1.77
120	9.3	87	180	208	158	123	83	63	45	23	21	8	1	0	0	4.0	1.55
150	3.4	240	299	220	130	60	26	12	7	2	2	1	0	0	0	2.4	1.43
180	3.0	272	310	222	115	49	22	6	3	0	0	0	0	0	0	2.2	1.52
210	5.2	158	202	214	157	93	69	49	30	13	12	3	1	0	0	3.4	1.43
240	8.8	92	123	116	110	100	104	97	85	60	67	29	9	4	1	5.7	1.77
270	24.1	34	88	117	128	131	125	119	99	61	63	21	10	3	0	6.0	2.03
300	12.0	68	157	188	164	147	95	78	50	26	19	6	1	0	0	4.4	1.75
330	2.9	279	231	185	114	73	53	35	22	4	4	0	0	0	0	2.7	1.31
Total	100.0	98	169	183	149	118	88	71	53	30	29	9	3	1	0	4.3	1.51

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.9	3.6	3.1	2.8	2.4	2.0	1.9	1.7	2.2	2.6	3.2	4.0	2.8
1	3.8	3.5	3.0	2.7	2.4	2.0	2.0	1.7	2.2	2.6	3.2	4.0	2.7
2	3.7	3.4	3.1	2.7	2.3	2.0	1.9	1.7	2.3	2.6	3.1	4.0	2.7
3	3.9	3.4	3.2	2.6	2.3	2.0	1.9	1.7	2.3	2.6	3.1	4.1	2.7
4	3.8	3.3	3.1	2.5	2.2	2.0	1.8	1.6	2.2	2.6	3.1	4.0	2.7
5	3.9	3.4	3.1	2.5	2.2	2.0	1.7	1.5	2.2	2.5	3.2	3.9	2.7
6	4.0	3.4	3.1	2.6	2.5	2.3	2.0	1.6	2.3	2.7	3.1	3.9	2.8
7	3.9	3.4	3.3	3.2	3.1	3.1	2.6	2.0	2.5	2.8	3.2	3.8	3.1
8	3.9	3.4	3.7	3.8	3.5	3.6	3.1	2.6	3.1	3.1	3.3	3.9	3.4
9	4.2	3.7	4.2	4.2	3.9	3.9	3.6	3.2	3.7	3.6	3.6	4.2	3.8
10	4.4	4.1	4.7	4.6	4.2	4.2	3.8	3.5	4.0	3.8	3.9	4.3	4.1
11	4.7	4.4	5.0	4.7	4.3	4.2	3.9	3.8	4.1	4.1	4.1	4.4	4.3
12	4.8	4.6	5.1	4.7	4.4	4.3	4.0	3.9	4.2	4.2	4.1	4.5	4.4
13	4.9	4.6	5.1	4.8	4.4	4.5	4.1	3.9	4.2	4.2	4.0	4.5	4.4
14	4.7	4.6	5.1	4.8	4.4	4.4	4.0	3.9	4.1	4.3	3.9	4.3	4.4
15	4.5	4.4	4.9	4.8	4.4	4.2	3.9	3.9	4.0	3.9	3.7	4.0	4.2
16	4.2	3.9	4.5	4.6	4.4	4.2	3.6	3.5	3.5	3.3	3.4	4.0	3.9
17	4.0	3.8	3.9	4.1	4.2	3.8	3.4	3.0	2.9	3.1	3.4	4.0	3.6
18	4.0	3.7	3.5	3.5	3.6	3.1	2.9	2.5	2.6	3.1	3.4	4.0	3.3
19	4.0	3.6	3.3	3.2	2.9	2.7	2.4	2.1	2.5	3.1	3.3	4.0	3.1
20	4.0	3.7	3.2	3.0	2.9	2.5	2.2	2.0	2.4	3.0	3.3	3.9	3.0
21	4.0	3.7	3.2	3.0	2.8	2.2	2.1	1.9	2.4	2.9	3.2	3.8	2.9
22	3.9	3.7	3.1	2.9	2.6	2.0	2.0	1.9	2.3	2.8	3.1	3.9	2.8
23	3.8	3.7	3.1	2.8	2.4	2.0	2.0	1.7	2.3	2.7	3.1	4.0	2.8
Day	4.1	3.8	3.8	3.5	3.3	3.1	2.8	2.5	2.9	3.2	3.4	4.1	3.4

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.29	5.09	5.13	6.38	6.87	4.90	3.87	5.13	8.30	8.82	6.92	4.93	6.61
	1.69	1.99	2.09	2.10	1.86	1.60	1.67	1.63	2.03	2.37	2.06	1.61	1.81
25	4.70	5.58	5.62	6.98	7.52	5.37	4.24	5.63	9.07	9.64	7.58	5.41	7.24
	1.74	2.05	2.15	2.16	1.92	1.65	1.73	1.69	2.08	2.44	2.12	1.66	1.85
50	5.06	5.99	6.03	7.50	8.09	5.78	4.56	6.05	9.71	10.32	8.14	5.83	7.77
	1.79	2.10	2.21	2.22	1.96	1.69	1.77	1.73	2.14	2.50	2.18	1.70	1.89
100	5.47	6.49	6.54	8.13	8.76	6.26	4.94	6.55	10.46	11.15	8.83	6.30	8.41
	1.73	2.03	2.14	2.15	1.90	1.63	1.71	1.68	2.09	2.44	2.11	1.65	1.85
200	6.03	7.17	7.23	8.98	9.66	6.88	5.44	7.21	11.43	12.25	9.75	6.93	9.25
	1.64	1.93	2.03	2.03	1.80	1.55	1.62	1.59	2.00	2.32	2.00	1.56	1.78
Freq	4.3	7.9	8.9	9.4	9.4	4.1	3.3	5.5	8.2	22.2	12.9	3.8	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.90	3.44	3.48	4.31	4.62	3.27	2.65	3.43	5.66	6.01	4.67	3.29	4.46
	1.43	1.66	1.74	1.74	1.56	1.35	1.44	1.38	1.75	2.03	1.72	1.35	1.57
25	3.51	4.14	4.18	5.18	5.57	3.96	3.20	4.16	6.75	7.18	5.60	3.98	5.36
	1.54	1.79	1.87	1.88	1.69	1.45	1.54	1.49	1.87	2.18	1.85	1.45	1.67
50	4.10	4.81	4.85	6.01	6.48	4.64	3.74	4.86	7.76	8.27	6.50	4.66	6.23
	1.73	2.01	2.11	2.12	1.89	1.62	1.74	1.67	2.06	2.43	2.08	1.62	1.84
100	4.88	5.71	5.76	7.13	7.71	5.53	4.45	5.80	9.10	9.74	7.72	5.56	7.38
	1.84	2.14	2.24	2.25	2.01	1.73	1.85	1.77	2.20	2.59	2.22	1.73	1.94
200	6.05	7.10	7.16	8.87	9.57	6.86	5.52	7.19	11.09	12.03	9.60	6.90	9.13
	1.76	2.05	2.14	2.15	1.92	1.65	1.76	1.69	2.12	2.48	2.12	1.65	1.88
Freq	4.3	7.9	8.9	9.4	9.4	4.1	3.3	5.5	8.2	22.2	12.9	3.8	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.52	3.03	3.06	3.75	3.99	2.85	2.26	3.01	4.89	5.21	4.05	2.89	3.88
	1.43	1.70	1.78	1.77	1.57	1.35	1.41	1.40	1.75	2.03	1.73	1.37	1.58
25	3.14	3.75	3.79	4.65	4.95	3.55	2.81	3.74	6.02	6.42	5.01	3.60	4.80
	1.53	1.82	1.90	1.89	1.67	1.44	1.51	1.49	1.85	2.16	1.85	1.46	1.67
50	3.71	4.42	4.45	5.46	5.84	4.21	3.33	4.44	7.03	7.50	5.90	4.27	5.65
	1.69	2.01	2.10	2.09	1.85	1.59	1.67	1.65	2.02	2.38	2.05	1.62	1.81
100	4.45	5.27	5.30	6.51	6.98	5.06	3.99	5.32	8.30	8.89	7.03	5.12	6.74
	1.85	2.21	2.31	2.30	2.03	1.75	1.83	1.81	2.22	2.62	2.25	1.77	1.96
200	5.48	6.50	6.54	8.03	8.61	6.22	4.91	6.55	10.08	10.92	8.68	6.30	8.29
	1.77	2.12	2.21	2.20	1.95	1.67	1.75	1.74	2.13	2.51	2.15	1.70	1.90
Freq	4.3	7.9	8.9	9.4	9.4	4.1	3.3	5.5	8.2	22.2	12.9	3.8	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.99	2.35	2.38	2.93	3.12	2.22	1.83	2.34	3.80	4.06	3.16	2.23	3.03
	1.46	1.67	1.77	1.77	1.57	1.35	1.48	1.39	1.75	2.03	1.73	1.36	1.58
25	2.64	3.11	3.14	3.87	4.13	2.95	2.42	3.10	5.00	5.34	4.17	2.97	4.00
	1.54	1.77	1.87	1.88	1.67	1.43	1.56	1.48	1.84	2.15	1.83	1.44	1.66
50	3.21	3.76	3.80	4.68	5.01	3.60	2.94	3.78	6.03	6.43	5.05	3.62	4.84
	1.68	1.92	2.03	2.04	1.81	1.55	1.69	1.60	1.98	2.33	1.99	1.56	1.78
100	3.91	4.55	4.58	5.65	6.08	4.39	3.58	4.60	7.23	7.73	6.10	4.41	5.86
	1.91	2.19	2.32	2.33	2.06	1.76	1.93	1.82	2.24	2.65	2.26	1.77	1.98
200	4.76	5.56	5.60	6.91	7.42	5.34	4.36	5.61	8.75	9.43	7.45	5.38	7.14
	1.84	2.11	2.23	2.24	1.98	1.70	1.86	1.75	2.17	2.56	2.18	1.71	1.92
Freq	4.3	7.9	8.9	9.4	9.4	4.1	3.3	5.5	8.2	22.2	12.9	3.8	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	5.9	265	4.0	100	3.5	65	2.7	30
25	6.4	338	4.8	157	4.3	113	3.6	65
50	6.9	407	5.5	216	5.0	164	4.3	106
100	7.5	528	6.5	339	6.0	254	5.2	165
200	8.2	739	8.1	664	7.4	489	6.3	309

LIBEREC

50°46'09" N 15°01'30" E UTM 33 3501763 E 56265005 N 398 m a.s.l.

The station is situated on the east edge of Liberec airport at a plain. The station is open from all directions except from 310 - 110 degrees. In these directions there are trees which influence circulation at the station. Anemometer is located on a rod at a height of 2.5 m above the roof of the airport building and at a height of 12.5 m a.g.l.

Height of anemometer: 12.5 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	1200	0.160	2100	0.290	3000	0.160	0	0.0		
30	0.040	750	0.060	1100	0.230	1800	0.400	3300	0.230		
60	10.0	3600	0.700	0	0.0	0	0.0	0	0.0		
90	0.900	400	0.230	1000	10.0	3600	0.800	0	0.0		
120	0.900	400	0.230	1000	10.0	3600	0.160	0	0.0		
150	0.030	500	0.230	750	10.0	2500	0.160	3600	0.230		
180	0.030	750	0.290	1700	0.160	2250	0.290	3500	0.160		
210	0.030	500	0.290	1000	0.160	2300	0.290	4000	0.800		
240	0.030	800	0.130	2500	0.800	0	0.0	0	0.0		
270	0.030	1000	0.500	1200	0.060	2100	0.800	0	0.0		
300	0.030	700	0.500	1000	0.060	2100	0.290	3300	0.800		
330	0.030	1100	0.060	2400	0.290	4500	0.160	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.1	428	104	131	121	100	58	30	17	6	5	0	0	0	0	2.6	1.28
30	2.0	646	95	102	60	58	29	7	1	2	0	0	0	0	0	1.2	0.88
60	1.6	812	67	52	29	20	12	7	1	0	0	0	0	0	0	0.5	0.66
90	2.6	511	207	128	71	41	22	13	6	1	0	0	0	0	0	1.6	1.05
120	11.0	119	115	161	167	150	113	78	50	25	17	4	0	0	0	4.4	1.87
150	23.5	56	87	151	156	165	142	106	79	37	17	3	0	0	0	5.1	2.26
180	8.2	160	165	156	138	122	105	72	44	20	15	2	0	0	0	4.0	1.68
210	6.5	203	120	102	90	119	103	100	79	47	30	5	1	0	0	4.8	1.80
240	5.0	265	131	116	98	96	87	77	67	31	23	7	1	0	0	4.0	1.45
270	6.8	194	153	145	123	103	87	67	49	34	32	8	2	1	0	4.1	1.46
300	18.2	72	127	183	164	151	109	77	55	29	23	6	3	1	0	4.6	1.78
330	11.5	115	102	179	168	156	113	77	48	20	15	4	1	0	0	4.4	1.88
Total	100.0	158	118	153	142	136	107	79	56	28	18	4	1	0	0	4.4	1.76

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.9	3.5	3.0	2.2	1.9	1.6	1.5	1.6	2.2	3.1	3.7	4.2	2.7
1	3.9	3.7	3.0	2.2	1.9	1.7	1.5	1.5	2.1	3.1	3.7	4.2	2.7
2	3.9	3.6	3.0	2.3	1.8	1.8	1.7	1.5	2.2	3.1	3.6	4.1	2.7
3	4.1	3.6	3.1	2.3	1.9	1.8	1.8	1.6	2.2	3.1	3.7	4.1	2.8
4	4.1	3.6	3.1	2.4	1.9	2.0	1.9	1.8	2.2	3.0	3.6	4.1	2.8
5	4.1	3.6	3.2	2.5	2.1	2.1	2.0	1.8	2.2	3.1	3.7	4.1	2.9
6	4.1	3.6	3.3	2.8	2.6	2.6	2.3	2.1	2.3	3.1	3.6	3.9	3.0
7	4.1	3.8	3.5	3.3	3.2	3.0	2.9	2.6	2.7	3.4	3.7	4.1	3.4
8	4.1	3.9	3.9	3.9	3.7	3.5	3.4	3.1	3.2	3.7	3.8	4.1	3.7
9	4.3	4.2	4.1	4.3	4.0	3.8	3.6	3.4	3.5	4.2	4.2	4.2	4.0
10	4.4	4.4	4.4	4.4	4.2	3.8	3.6	3.6	3.8	4.3	4.2	4.3	4.1
11	4.6	4.3	4.5	4.5	4.2	3.9	3.7	3.8	3.8	4.4	4.4	4.3	4.2
12	4.7	4.6	4.6	4.5	4.2	3.8	3.8	3.7	4.0	4.5	4.4	4.5	4.3
13	4.6	4.5	4.5	4.4	4.3	3.8	3.8	3.7	3.8	4.3	4.2	4.3	4.2
14	4.4	4.4	4.4	4.3	4.1	3.7	3.6	3.5	3.7	4.1	4.1	4.1	4.0
15	4.3	4.2	4.2	4.2	4.0	3.5	3.3	3.1	3.4	3.8	3.9	4.1	3.8
16	4.0	3.9	3.8	3.7	3.6	3.2	3.0	2.8	2.9	3.2	3.6	4.0	3.5
17	3.9	3.7	3.4	3.2	3.1	2.7	2.6	2.2	2.3	3.1	3.7	4.0	3.2
18	4.1	3.5	3.0	2.6	2.5	2.3	2.1	1.9	2.1	3.2	3.8	4.1	2.9
19	4.1	3.6	3.0	2.2	2.2	1.8	1.8	1.5	2.0	3.1	3.7	4.1	2.7
20	4.0	3.5	3.0	2.2	1.9	1.5	1.5	1.4	2.1	3.1	3.7	4.2	2.7
21	4.1	3.4	3.0	2.3	1.8	1.5	1.3	1.4	2.1	3.1	3.7	4.3	2.7
22	3.9	3.4	3.0	2.2	1.8	1.4	1.3	1.5	2.1	3.1	3.6	4.2	2.6
23	4.0	3.4	3.0	2.2	1.7	1.5	1.4	1.5	2.0	3.1	3.7	4.2	2.6
Day	4.1	3.8	3.5	3.1	2.9	2.6	2.5	2.4	2.7	3.5	3.8	4.2	3.3

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	10.39	3.56	2.34	7.64	8.41	8.12	7.47	9.15	7.71	7.45	7.49	11.71	8.17
	1.63	1.09	0.76	1.44	2.13	2.64	2.22	1.92	1.60	1.79	2.06	1.96	1.75
25	11.31	3.93	2.57	8.33	9.19	8.88	8.17	9.97	8.42	8.15	8.20	12.73	8.93
	1.64	1.12	0.77	1.46	2.19	2.72	2.29	1.96	1.62	1.84	2.13	1.97	1.78
50	12.03	4.25	2.78	8.90	9.85	9.53	8.78	10.65	9.00	8.73	8.81	13.54	9.57
	1.66	1.15	0.78	1.49	2.25	2.80	2.35	2.01	1.67	1.89	2.18	2.00	1.82
100	12.79	4.56	2.95	9.49	10.63	10.34	9.52	11.40	9.63	9.41	9.55	14.40	10.30
	1.66	1.12	0.77	1.47	2.19	2.71	2.28	1.98	1.64	1.84	2.11	2.00	1.81
200	13.62	4.96	3.12	10.18	11.65	11.45	10.52	12.32	10.40	10.28	10.55	15.37	11.23
	1.63	1.06	0.76	1.44	2.09	2.56	2.15	1.91	1.59	1.76	2.00	1.97	1.78
Freq	4.7	2.6	2.1	4.2	8.7	19.2	11.3	7.9	6.3	9.0	14.4	9.5	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.27	2.28	1.77	5.26	5.74	5.53	5.06	6.31	5.27	5.06	5.07	8.22	5.58
	1.52	0.93	0.75	1.31	1.83	2.20	1.86	1.71	1.42	1.55	1.74	1.83	1.56
25	8.50	2.81	2.14	6.21	6.85	6.61	6.07	7.45	6.26	6.06	6.09	9.61	6.65
	1.55	0.99	0.77	1.35	1.96	2.38	2.01	1.79	1.48	1.65	1.87	1.87	1.64
50	9.52	3.39	2.52	7.05	7.89	7.62	7.02	8.46	7.15	7.01	7.06	10.74	7.63
	1.60	1.11	0.82	1.42	2.17	2.67	2.26	1.91	1.59	1.83	2.11	1.93	1.77
100	10.68	4.10	2.99	8.07	9.28	9.03	8.33	9.71	8.25	8.25	8.38	12.03	8.91
	1.69	1.17	0.87	1.52	2.32	2.85	2.40	2.05	1.71	1.96	2.24	2.06	1.92
200	12.02	5.03	3.46	9.31	11.38	11.25	10.37	11.41	9.71	10.09	10.43	13.60	10.75
	1.66	1.12	0.85	1.48	2.22	2.72	2.30	1.98	1.65	1.87	2.14	2.01	1.92
Freq	4.7	2.6	2.1	4.2	8.7	19.2	11.3	7.9	6.3	9.0	14.4	9.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.30	1.97	1.33	4.56	4.97	4.78	4.37	5.45	4.56	4.36	4.37	7.11	4.82
	1.53	0.93	0.70	1.31	1.84	2.19	1.86	1.71	1.42	1.54	1.73	1.84	1.56
25	7.62	2.51	1.65	5.57	6.13	5.90	5.40	6.66	5.60	5.39	5.42	8.60	5.93
	1.56	0.99	0.72	1.36	1.96	2.35	1.99	1.78	1.48	1.64	1.85	1.88	1.63
50	8.69	3.05	1.96	6.43	7.17	6.91	6.34	7.69	6.50	6.33	6.37	9.80	6.92
	1.60	1.08	0.75	1.42	2.15	2.60	2.20	1.89	1.58	1.79	2.04	1.94	1.74
100	9.88	3.73	2.39	7.46	8.49	8.21	7.55	8.92	7.59	7.52	7.60	11.12	8.14
	1.69	1.18	0.81	1.54	2.37	2.85	2.42	2.06	1.73	1.97	2.24	2.05	1.91
200	11.23	4.55	2.74	8.65	10.38	10.14	9.32	10.50	8.95	9.16	9.38	12.67	9.79
	1.69	1.13	0.79	1.50	2.27	2.73	2.31	2.00	1.67	1.89	2.15	2.04	1.92
Freq	4.7	2.6	2.1	4.2	8.7	19.2	11.3	7.9	6.3	9.0	14.4	9.5	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.89	1.57	1.39	3.56	3.87	3.73	3.41	4.23	3.55	3.40	3.41	5.53	3.76
	1.53	0.94	0.81	1.33	1.85	2.22	1.85	1.71	1.43	1.54	1.73	1.85	1.57
25	6.34	2.12	1.86	4.65	5.10	4.91	4.49	5.52	4.66	4.49	4.50	7.15	4.94
	1.56	0.99	0.84	1.36	1.96	2.35	1.97	1.76	1.48	1.63	1.83	1.88	1.63
50	7.48	2.63	2.29	5.55	6.15	5.91	5.43	6.59	5.58	5.43	5.45	8.44	5.94
	1.60	1.07	0.89	1.42	2.12	2.55	2.13	1.85	1.56	1.75	1.99	1.93	1.73
100	8.72	3.29	2.84	6.58	7.39	7.11	6.55	7.80	6.66	6.55	6.58	9.82	7.12
	1.67	1.21	0.97	1.52	2.40	2.91	2.43	2.02	1.71	1.99	2.27	2.02	1.90
200	10.07	3.98	3.38	7.72	9.00	8.69	8.00	9.24	7.90	7.94	8.03	11.35	8.54
	1.71	1.17	0.96	1.53	2.32	2.80	2.35	2.02	1.70	1.92	2.19	2.06	1.93
Freq	4.7	2.6	2.1	4.2	8.7	19.2	11.3	7.9	6.3	9.0	14.4	9.5	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	7.3	523	5.0	198	4.3	128	3.4	60
25	7.9	665	5.9	309	5.3	221	4.4	127
50	8.5	794	6.8	420	6.2	318	5.3	204
100	9.2	998	7.9	603	7.2	462	6.3	311
200	10.0	1325	9.5	1058	8.7	801	7.6	528

LYSA HORA

49°32'46" N 18°26'52" E UTM 33 E 3749670 m N 5496212 m 1324 m a.s.l.

The station is situated on the top of Lysá Hora mountain in Beskydy mountains. It is open from all directions. The only obstacle for circulation at the station may be a telecommunication building (approx. 30 m high) with a thin tower (approx. 80 m high), located eastwards from the station. Anemometer is situated on a rod at a height of 4 m above the roof of the station building and at a height of 10 m above the ground.

Height of anemometer: 10 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.800	0	0.0	0	0.0						
30	0.160	100	0.800	0	0.0						
60	0.160	150	0.800	0	0.0						
90	0.160	150	0.800	0	0.0						
120	0.160	150	0.800	0	0.0						
150	0.160	150	0.800	0	0.0						
180	0.800	3900	0.120	4400	0.800						
210	0.800	3900	0.030	4600	0.800						
240	0.800	4000	0.290	0	0.0						
270	0.800	3300	0.290	0	0.0						
300	0.800	4200	0.290	0	0.0						
330	0.800	4300	0.290	0	0.0						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	8.1	84	117	116	129	118	130	124	102	53	23	3	0	0	0	5.3	2.21
30	15.8	43	117	151	166	153	138	107	78	34	13	1	0	0	0	4.9	2.23
60	6.1	111	194	222	169	108	78	56	38	19	5	1	0	0	0	3.6	1.62
90	2.2	303	332	221	86	33	16	6	1	2	0	0	0	0	0	2.0	1.47
120	1.6	411	306	166	67	24	12	7	4	2	0	0	0	0	0	1.7	1.25
150	2.7	249	329	226	105	32	23	12	16	5	2	0	0	0	0	2.2	1.29
180	7.6	89	305	246	119	64	44	42	39	25	20	5	1	1	0	3.0	1.15
210	22.5	30	108	125	116	108	112	128	138	83	43	7	2	0	0	5.9	2.41
240	24.4	28	67	92	109	111	128	151	160	99	50	6	0	0	0	6.4	2.97
270	3.8	175	152	129	116	84	93	86	82	46	28	5	2	1	0	4.4	1.57
300	2.2	309	192	157	104	77	52	44	36	17	10	3	0	0	0	2.8	1.19
330	3.1	221	171	139	94	79	64	80	81	45	20	5	1	0	0	3.9	1.39
Total	100.0	81	140	142	124	106	105	106	103	59	30	4	1	0	0	5.1	1.94

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	7.6	7.3	6.8	6.4	6.5	5.6	5.4	5.7	6.6	7.4	7.2	7.5	6.7
1	7.7	7.1	6.8	6.4	6.4	5.6	5.5	5.7	6.6	7.4	7.1	7.5	6.7
2	7.6	7.1	6.9	6.4	6.3	5.4	5.5	5.7	6.4	7.5	7.0	7.4	6.6
3	7.5	7.1	6.7	6.4	6.2	5.3	5.4	5.6	6.3	7.3	6.9	7.3	6.5
4	7.6	7.1	6.6	6.4	6.1	5.3	5.3	5.5	6.3	7.3	6.8	7.3	6.5
5	7.5	7.1	6.6	6.3	5.9	5.1	5.0	5.4	6.1	7.3	6.8	7.2	6.3
6	7.5	6.7	6.5	6.1	5.5	4.7	4.7	5.1	5.9	7.0	6.6	7.0	6.1
7	7.4	6.7	6.4	5.8	5.0	4.5	4.4	4.9	5.7	6.8	6.5	7.0	5.9
8	7.3	6.7	6.2	5.5	4.7	4.2	4.2	4.5	5.5	6.7	6.6	6.9	5.7
9	7.2	6.5	5.8	5.1	4.4	4.2	4.1	4.4	5.3	6.2	6.4	6.9	5.5
10	7.1	6.3	5.6	4.8	4.2	4.1	4.0	4.3	5.0	5.9	6.3	6.7	5.3
11	6.9	6.0	5.3	4.7	4.3	4.0	4.1	4.2	4.9	5.5	6.2	6.8	5.2
12	6.8	5.8	5.1	4.6	4.4	4.0	4.2	4.2	4.9	5.4	6.1	6.8	5.2
13	6.7	5.7	5.0	4.8	4.3	4.3	4.3	4.3	4.9	5.4	6.0	6.7	5.2
14	6.8	6.0	5.1	4.8	4.5	4.5	4.4	4.3	4.9	5.4	6.0	6.6	5.3
15	7.0	6.0	5.3	4.9	4.6	4.6	4.3	4.3	5.0	5.5	6.4	6.8	5.4
16	7.2	6.3	5.5	4.9	4.6	4.6	4.3	4.4	5.1	5.9	6.7	7.0	5.5
17	7.3	6.8	5.9	5.2	4.7	4.8	4.3	4.7	5.8	6.5	6.9	6.9	5.8
18	7.4	6.9	6.2	5.6	5.2	4.9	4.5	5.1	6.3	6.9	7.1	7.1	6.1
19	7.5	7.0	6.5	6.0	5.8	5.3	5.1	5.6	6.5	7.2	7.1	7.2	6.4
20	7.5	7.0	6.7	6.2	6.3	5.7	5.5	5.8	6.6	7.3	7.1	7.1	6.6
21	7.5	7.1	6.7	6.4	6.3	5.8	5.5	5.9	6.7	7.3	7.2	7.3	6.6
22	7.6	7.1	6.8	6.5	6.5	5.9	5.6	6.0	6.7	7.4	7.3	7.4	6.7
23	7.6	7.1	6.8	6.5	6.5	5.7	5.4	5.8	6.6	7.4	7.3	7.5	6.7
Day	7.3	6.7	6.2	5.7	5.4	4.9	4.8	5.1	5.9	6.7	6.7	7.1	6.0

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.29	3.39	2.39	4.04	5.10	8.11	8.02	4.49	3.15	4.18	5.33	5.47	5.60
	2.62	2.23	2.10	2.13	2.20	2.54	2.64	2.27	2.42	2.65	2.60	2.56	1.96
25	5.78	3.71	2.61	4.42	5.58	8.87	8.77	4.92	3.45	4.57	5.83	5.99	6.13
	2.70	2.30	2.16	2.20	2.27	2.62	2.72	2.35	2.50	2.73	2.68	2.64	2.01
50	6.21	3.98	2.81	4.75	6.00	9.52	9.41	5.28	3.70	4.91	6.26	6.42	6.59
	2.77	2.37	2.22	2.26	2.33	2.69	2.80	2.41	2.56	2.81	2.75	2.71	2.04
100	6.74	4.32	3.04	5.15	6.50	10.33	10.21	5.73	4.01	5.33	6.79	6.97	7.14
	2.68	2.29	2.15	2.19	2.26	2.61	2.70	2.33	2.49	2.72	2.66	2.63	2.00
200	7.46	4.78	3.36	5.69	7.19	11.44	11.31	6.33	4.44	5.90	7.52	7.72	7.89
	2.54	2.17	2.04	2.07	2.13	2.47	2.56	2.20	2.35	2.57	2.52	2.49	1.92
Freq	11.9	4.3	1.5	2.9	4.2	9.4	16.3	6.8	4.1	11.1	15.1	12.4	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.63	2.33	1.71	2.79	3.47	5.50	5.44	3.08	2.17	2.88	3.66	3.75	3.80
	2.18	1.86	1.87	1.80	1.84	2.11	2.17	1.91	1.97	2.18	2.16	2.12	1.73
25	4.34	2.79	2.05	3.35	4.17	6.58	6.50	3.69	2.59	3.44	4.38	4.48	4.56
	2.35	2.01	2.02	1.94	1.99	2.28	2.34	2.06	2.13	2.35	2.33	2.30	1.83
50	5.01	3.23	2.37	3.88	4.83	7.60	7.50	4.27	3.00	3.97	5.05	5.17	5.29
	2.65	2.26	2.27	2.18	2.24	2.56	2.63	2.32	2.39	2.65	2.62	2.58	1.99
100	5.93	3.84	2.81	4.60	5.73	9.01	8.89	5.07	3.56	4.70	5.99	6.13	6.29
	2.82	2.41	2.42	2.32	2.38	2.72	2.81	2.47	2.55	2.82	2.80	2.75	2.08
200	7.39	4.78	3.50	5.72	7.12	11.22	11.07	6.31	4.43	5.86	7.46	7.63	7.81
	2.69	2.30	2.31	2.22	2.28	2.60	2.68	2.36	2.43	2.69	2.67	2.62	2.01
Freq	11.9	4.3	1.5	2.9	4.2	9.4	16.3	6.8	4.1	11.1	15.1	12.4	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.16	2.04	1.49	2.39	3.02	4.78	4.72	2.67	1.91	2.51	3.16	3.27	3.30
	2.18	1.88	1.90	1.77	1.84	2.13	2.20	1.90	2.05	2.21	2.13	2.14	1.74
25	3.89	2.53	1.84	2.96	3.73	5.90	5.82	3.30	2.35	3.10	3.90	4.03	4.09
	2.33	2.02	2.03	1.90	1.97	2.28	2.35	2.04	2.19	2.36	2.28	2.30	1.83
50	4.55	2.96	2.16	3.47	4.38	6.90	6.81	3.88	2.76	3.63	4.56	4.72	4.80
	2.58	2.23	2.25	2.10	2.18	2.52	2.61	2.26	2.43	2.62	2.53	2.54	1.97
100	5.41	3.53	2.57	4.14	5.22	8.21	8.10	4.61	3.28	4.31	5.43	5.61	5.73
	2.84	2.45	2.47	2.31	2.40	2.77	2.87	2.48	2.67	2.88	2.78	2.79	2.10
200	6.69	4.36	3.18	5.11	6.44	10.14	10.01	5.70	4.05	5.32	6.70	6.93	7.07
	2.72	2.35	2.37	2.21	2.30	2.65	2.74	2.37	2.55	2.75	2.66	2.67	2.04
Freq	11.9	4.3	1.5	2.9	4.2	9.4	16.3	6.8	4.1	11.1	15.1	12.4	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.46	1.66	1.13	1.91	2.36	3.73	3.69	2.10	1.51	1.96	2.48	2.54	2.59
	2.15	2.01	1.71	1.85	1.83	2.15	2.23	1.92	2.08	2.12	2.15	2.13	1.75
25	3.23	2.18	1.49	2.52	3.11	4.91	4.86	2.77	1.99	2.58	3.27	3.34	3.41
	2.29	2.13	1.81	1.96	1.94	2.28	2.37	2.03	2.21	2.25	2.28	2.26	1.83
50	3.90	2.63	1.80	3.05	3.76	5.92	5.85	3.34	2.40	3.11	3.94	4.03	4.13
	2.48	2.32	1.96	2.13	2.11	2.47	2.57	2.20	2.40	2.44	2.47	2.45	1.94
100	4.68	3.17	2.18	3.68	4.53	7.12	7.03	4.03	2.89	3.74	4.73	4.85	4.99
	2.83	2.64	2.23	2.43	2.40	2.82	2.93	2.51	2.74	2.78	2.82	2.80	2.12
200	5.73	3.87	2.66	4.49	5.54	8.70	8.60	4.92	3.53	4.57	5.79	5.93	6.09
	2.73	2.55	2.15	2.34	2.31	2.72	2.82	2.42	2.64	2.68	2.72	2.69	2.07
Freq	11.9	4.3	1.5	2.9	4.2	9.4	16.3	6.8	4.1	11.1	15.1	12.4	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	5.0	145	3.4	53	2.9	34	2.3	16
25	5.4	187	4.1	85	3.6	61	3.0	35
50	5.8	228	4.7	121	4.3	91	3.7	59
100	6.3	297	5.6	194	5.1	146	4.4	95
200	7.0	417	6.9	385	6.3	282	5.4	177

OSTRAVA-MOSNOV

49°41'39" N 18°07'12" E UTM 33 E 3725092 m N 5511603 m 251 m a.s.l.

The station is situated on the south edge of Ostrava-Mosnov airport at a plain. It is open from all directions except from 19 - 185 degrees. In these directions there are trees which influence circulation at the station. Anemometer is located on a rod at a height of 4 m above the roof of airport building and at a height of 10 m above the ground.

Height of anemometer: 10 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	250	0.290	450	0.030	2500	0.060	5000	0.050	0	0.0
30	0.030	200	0.300	550	0.030	2200	0.050	0	0.0	0	0.0
60	0.200	300	0.030	1400	0.230	3250	0.070	0	0.0	0	0.0
90	0.030	1150	0.300	1900	0.010	2700	0.060	4100	0.130	0	0.0
120	0.030	600	0.210	1500	0.160	4100	0.200	0	0.0	0	0.0
150	0.030	600	0.210	2000	0.130	3200	0.160	0	0.0	0	0.0
180	0.030	1000	0.060	1600	0.030	2400	0.110	5000	0.160	0	0.0
210	0.030	750	0.060	1300	0.030	2600	0.070	3650	0.160	5000	0.110
240	0.010	2700	0.050	3500	0.130	3900	0.050	5000	0.200	0	0.0
270	0.030	1300	0.130	1900	0.010	2500	0.090	3300	0.160	4100	0.060
300	0.200	250	0.030	1500	0.290	2300	0.060	4000	0.800	0	0.0
330	0.030	1900	0.060	3400	0.100	5000	0.030	0	0.0	0	0.0

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	8.1	84	117	116	129	118	130	124	102	53	23	3	0	0	0	5.3	2.21
30	15.8	43	117	151	166	153	138	107	78	34	13	1	0	0	0	4.9	2.23
60	6.1	111	194	222	169	108	78	56	38	19	5	1	0	0	0	3.6	1.62
90	2.2	303	332	221	86	33	16	6	1	2	0	0	0	0	0	2.0	1.47
120	1.6	411	306	166	67	24	12	7	4	2	0	0	0	0	0	1.7	1.25
150	2.7	249	329	226	105	32	23	12	16	5	2	0	0	0	0	2.2	1.29
180	7.6	89	305	246	119	64	44	42	39	25	20	5	1	1	0	3.0	1.15
210	22.5	30	108	125	116	108	112	128	138	83	43	7	2	0	0	5.9	2.41
240	24.4	28	67	92	109	111	128	151	160	99	50	6	0	0	0	6.4	2.97
270	3.8	175	152	129	116	84	93	86	82	46	28	5	2	1	0	4.4	1.57
300	2.2	309	192	157	104	77	52	44	36	17	10	3	0	0	0	2.8	1.19
330	3.1	221	171	139	94	79	64	80	81	45	20	5	1	0	0	3.9	1.39
Total	100.0	81	140	142	124	106	105	106	103	59	30	4	1	0	0	5.1	1.94

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.8	4.1	3.4	2.6	2.2	1.9	1.9	1.9	2.5	2.9	4.1	4.8	3.1
1	4.8	4.1	3.5	2.5	2.2	2.0	1.9	1.9	2.4	2.9	4.0	4.8	3.1
2	4.7	4.1	3.4	2.6	2.1	2.0	1.8	1.9	2.5	3.1	4.0	4.7	3.1
3	4.8	4.1	3.4	2.6	2.0	2.0	1.9	2.0	2.6	3.0	3.9	4.8	3.1
4	4.7	4.2	3.4	2.6	2.1	2.2	1.9	2.0	2.7	3.1	3.9	4.9	3.1
5	4.8	4.2	3.5	2.8	2.3	2.5	2.3	2.1	2.8	3.2	3.8	4.9	3.3
6	4.8	4.3	3.7	3.2	2.9	3.1	2.7	2.4	3.1	3.3	3.9	4.8	3.5
7	4.9	4.2	4.0	3.9	3.4	3.6	3.4	3.0	3.7	3.4	4.1	4.8	3.9
8	4.9	4.4	4.4	4.5	4.0	3.9	3.7	3.3	4.1	4.0	4.4	4.9	4.2
9	5.4	4.8	4.9	4.9	4.5	4.3	4.2	3.9	4.5	4.4	4.7	5.0	4.6
10	5.6	5.2	5.4	5.1	4.9	4.5	4.5	4.3	4.9	4.7	5.0	5.2	4.9
11	5.7	5.4	5.7	5.4	5.0	4.6	4.5	4.6	5.0	5.1	5.2	5.4	5.1
12	5.8	5.5	5.7	5.5	5.1	5.0	4.8	4.6	5.2	5.2	5.3	5.4	5.3
13	5.8	5.6	5.8	5.6	5.2	4.8	4.8	4.7	5.2	5.1	5.2	5.3	5.3
14	5.5	5.3	5.7	5.3	5.0	4.8	4.6	4.7	5.0	4.9	4.9	4.9	5.0
15	5.2	5.1	5.4	5.3	5.0	4.6	4.7	4.6	4.7	4.4	4.4	4.7	4.8
16	4.9	4.8	4.9	4.9	4.6	4.3	4.3	4.1	4.0	3.8	4.2	4.7	4.4
17	4.8	4.4	4.3	4.1	4.1	3.8	3.8	3.6	3.3	3.6	4.1	4.7	4.0
18	4.9	4.3	3.9	3.5	3.6	3.1	3.1	2.7	3.0	3.3	4.1	4.7	3.7
19	4.8	4.2	3.8	3.0	2.9	2.5	2.5	2.7	2.8	3.1	4.0	4.7	3.4
20	4.8	4.2	3.7	2.8	2.7	2.2	2.3	2.3	2.8	3.2	4.0	4.8	3.3
21	4.9	4.2	3.7	2.8	2.4	2.2	2.1	2.1	2.6	3.1	4.0	4.7	3.2
22	4.7	4.1	3.5	2.6	2.2	2.1	2.0	2.1	2.6	3.0	3.9	4.9	3.1
23	4.8	4.2	3.4	2.6	2.1	1.9	1.9	2.0	2.4	3.0	3.9	4.7	3.1
Day	5.0	4.5	4.3	3.8	3.4	3.2	3.2	3.1	3.5	3.7	4.3	4.9	3.9

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.61	9.31	7.58	3.19	3.25	4.54	6.92	13.09	10.99	6.79	5.22	6.00	9.66
	2.64	2.58	1.88	1.76	1.46	1.53	1.26	2.59	3.38	1.87	1.42	1.65	1.99
25	9.42	10.17	8.29	3.50	3.57	4.99	7.55	14.24	11.98	7.44	5.74	6.58	10.54
	2.72	2.65	1.93	1.81	1.50	1.58	1.27	2.61	3.45	1.93	1.46	1.70	2.02
50	10.10	10.89	8.89	3.76	3.85	5.37	8.07	15.14	12.80	7.99	6.19	7.08	11.27
	2.80	2.72	1.98	1.86	1.54	1.62	1.29	2.65	3.55	1.98	1.50	1.75	2.06
100	10.97	11.76	9.59	4.08	4.16	5.80	8.59	16.12	13.78	8.66	6.68	7.66	12.10
	2.70	2.65	1.93	1.80	1.49	1.56	1.29	2.65	3.47	1.92	1.45	1.69	2.06
200	12.14	12.91	10.51	4.49	4.57	6.38	9.17	17.25	15.05	9.55	7.32	8.43	13.14
	2.56	2.53	1.84	1.71	1.42	1.48	1.26	2.60	3.34	1.82	1.38	1.60	2.03
Freq	8.2	15.8	6.0	2.2	1.6	2.7	7.8	22.7	24.0	3.8	2.2	3.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.85	6.38	5.15	2.13	2.16	3.04	4.76	9.19	7.59	4.53	3.45	3.99	6.64
	2.20	2.20	1.62	1.44	1.23	1.30	1.16	2.39	2.92	1.55	1.20	1.38	1.81
25	6.99	7.60	6.17	2.58	2.63	3.69	5.61	10.74	8.98	5.46	4.20	4.83	7.87
	2.38	2.36	1.73	1.55	1.32	1.40	1.19	2.45	3.10	1.67	1.29	1.49	1.88
50	8.07	8.72	7.15	3.01	3.10	4.33	6.36	12.01	10.21	6.35	4.96	5.65	8.97
	2.68	2.62	1.93	1.74	1.48	1.57	1.24	2.55	3.38	1.87	1.45	1.67	2.01
100	9.56	10.24	8.44	3.59	3.70	5.17	7.26	13.45	11.83	7.56	5.93	6.74	10.37
	2.85	2.80	2.06	1.85	1.57	1.67	1.32	2.72	3.63	1.99	1.54	1.78	2.15
200	11.91	12.59	10.38	4.45	4.58	6.40	8.28	15.29	14.28	9.38	7.34	8.36	12.36
	2.72	2.69	1.97	1.77	1.50	1.60	1.29	2.65	3.49	1.90	1.47	1.70	2.17
Freq	8.2	15.8	6.0	2.2	1.6	2.7	7.8	22.7	24.0	3.8	2.2	3.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.06	5.51	4.43	1.90	1.89	2.65	4.11	7.94	6.55	3.96	2.96	3.46	5.74
	2.19	2.22	1.61	1.48	1.23	1.31	1.16	2.40	2.93	1.58	1.19	1.39	1.81
25	6.24	6.78	5.48	2.36	2.36	3.31	5.01	9.59	8.01	4.91	3.71	4.31	7.03
	2.34	2.36	1.71	1.58	1.31	1.39	1.19	2.45	3.09	1.69	1.27	1.48	1.88
50	7.31	7.91	6.45	2.79	2.82	3.94	5.78	10.93	9.26	5.79	4.44	5.11	8.14
	2.59	2.59	1.88	1.75	1.44	1.54	1.23	2.54	3.34	1.87	1.40	1.64	1.99
100	8.68	9.35	7.67	3.34	3.39	4.73	6.69	12.40	10.81	6.93	5.36	6.13	9.50
	2.85	2.85	2.06	1.92	1.58	1.69	1.32	2.70	3.67	2.06	1.53	1.80	2.15
200	10.73	11.45	9.39	4.11	4.17	5.82	7.69	14.20	13.03	8.54	6.57	7.54	11.32
	2.73	2.73	1.98	1.84	1.52	1.62	1.30	2.68	3.53	1.97	1.47	1.72	2.17
Freq	8.2	15.8	6.0	2.2	1.6	2.7	7.8	22.7	24.0	3.8	2.2	3.1	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.93	4.29	3.46	1.52	1.53	2.05	3.28	6.17	5.09	3.09	2.35	2.72	4.47
	2.19	2.22	1.62	1.54	1.27	1.29	1.19	2.41	2.91	1.59	1.21	1.40	1.83
25	5.17	5.64	4.57	2.01	2.03	2.72	4.28	7.99	6.65	4.09	3.13	3.61	5.85
	2.33	2.35	1.71	1.63	1.35	1.37	1.22	2.46	3.05	1.68	1.28	1.48	1.88
50	6.24	6.78	5.54	2.44	2.48	3.33	5.10	9.42	7.94	4.96	3.84	4.40	7.00
	2.53	2.54	1.85	1.76	1.46	1.48	1.26	2.53	3.26	1.82	1.38	1.61	1.97
100	7.49	8.13	6.69	2.96	3.04	4.07	6.03	10.96	9.42	6.01	4.71	5.36	8.32
	2.88	2.89	2.10	2.01	1.66	1.68	1.33	2.66	3.64	2.08	1.57	1.83	2.13
200	9.17	9.90	8.14	3.61	3.70	4.96	7.05	12.70	11.33	7.34	5.73	6.53	9.92
	2.77	2.79	2.02	1.94	1.60	1.62	1.35	2.72	3.56	2.00	1.52	1.76	2.17
Freq	8.2	15.8	6.0	2.2	1.6	2.7	7.8	22.7	24.0	3.8	2.2	3.1	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	8.6	736	5.9	268	5.1	172	4.0	80
25	9.3	943	7.0	424	6.2	301	5.2	174
50	10.0	1130	7.9	585	7.2	441	6.2	282
100	10.7	1401	9.2	844	8.4	650	7.4	440
200	11.6	1817	10.9	1423	10.0	1091	8.8	735

PRAHA-RUZYNE

50°06'03" N 14°15'28" E UTM 33 E 3446896 m N 5552424 m 369 m a.s.l.

The station is situated in the area of Praha-Ruzyne airport, 250 m from the take off and landing runway at a plain. The station is open from all directions. The nearest obstacles for circulation are at a distance of 1000 m in a direction of 030 degrees. Anemometer is located on a rod at a height of 2,5 m above the elevated part of station building and at a height of 11 m above the ground.

Height of anemometer: 11 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.010	1500	0.060	2050	0.130	2850	0.050	0	0.0		
30	0.030	1800	0.060	3000	0.130	4200	0.290	5000	0.050		
60	0.030	900	0.050	2500	0.130	0	0.0	0	0.0		
90	0.010	2200	0.290	4600	0.800	0	0.0	0	0.0		
120	0.030	3200	0.800	0	0.0	0	0.0	0	0.0		
150	0.010	1150	0.090	4150	0.290	0	0.0	0	0.0		
180	0.010	1650	0.290	2900	0.060	5000	0.130	0	0.0		
210	0.010	1550	0.290	3350	0.050	0	0.0	0	0.0		
240	0.010	2600	0.060	3900	0.050	0	0.0	0	0.0		
270	0.010	2550	0.050	0	0.0	0	0.0	0	0.0		
300	0.010	1850	0.050	2800	0.160	5000	0.050	0	0.0		
330	0.010	1350	0.030	3150	0.110	0	0.0	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	5.5	42	153	183	145	117	109	92	67	50	36	6	0	0	0	4.8	1.80
30	4.4	52	195	265	191	104	77	54	34	19	8	0	0	0	0	3.7	1.64
60	3.5	67	190	266	213	110	73	43	28	5	5	1	0	0	0	3.5	1.76
90	6.6	35	143	234	214	144	103	67	38	16	5	0	0	0	0	4.1	1.96
120	8.3	28	131	203	228	148	103	72	44	24	16	3	1	0	0	4.3	1.79
150	7.1	33	115	221	234	175	104	60	30	18	9	2	0	0	0	4.2	2.01
180	5.8	40	130	208	231	159	106	65	34	16	11	1	0	0	0	4.2	1.97
210	11.0	21	71	147	179	147	125	102	82	53	44	16	8	3	1	5.5	1.83
240	21.2	11	41	91	121	117	120	122	113	89	100	43	21	7	3	7.1	2.14
270	10.5	22	64	115	122	115	109	115	100	85	84	36	18	9	4	6.7	1.97
300	7.5	31	98	143	139	109	114	118	105	64	53	18	5	1	0	5.8	2.06
330	8.6	27	108	166	146	125	124	103	93	55	41	9	1	1	0	5.4	2.02
Total	100.0	28	100	164	168	130	111	94	76	52	48	18	8	3	1	5.4	1.72

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	6.8	4.7	3.0	3.0	3.1	3.6	3.2	2.1	4.0	3.7	4.1	0.0	3.8
1	5.4	3.9	2.5	2.3	2.5	2.9	2.7	1.8	3.9	3.8	4.0	0.0	3.2
2	5.6	4.2	2.4	2.4	2.2	3.0	2.5	2.0	3.7	4.2	4.1	0.0	3.3
3	6.7	5.3	3.1	3.1	3.2	3.8	3.4	1.9	4.4	3.6	3.9	0.0	3.9
4	5.4	4.2	2.6	2.5	2.5	2.7	2.8	1.8	4.0	4.3	4.3	0.0	3.4
5	5.3	4.2	2.4	2.0	2.2	3.2	2.6	1.5	3.5	3.7	4.4	0.0	3.2
6	6.5	4.4	3.0	3.1	3.8	4.4	3.7	1.8	4.0	3.9	4.4	0.0	3.9
7	5.0	3.5	2.7	2.5	3.1	3.8	3.1	1.9	3.8	4.0	4.1	0.0	3.4
8	5.4	3.7	3.1	2.8	3.0	4.3	3.3	1.8	4.3	4.4	4.0	0.0	3.6
9	6.5	4.3	4.4	4.3	4.4	5.6	4.5	2.5	4.9	4.8	4.5	0.0	4.6
10	5.7	4.1	3.7	3.4	3.0	4.3	3.3	2.4	4.4	4.5	4.8	0.0	4.0
11	5.8	3.8	3.7	3.0	3.4	4.3	3.4	2.6	4.9	5.1	5.3	0.0	4.1
12	7.0	5.2	4.8	4.3	4.4	5.4	4.9	3.3	5.6	5.1	5.1	0.0	5.0
13	5.5	4.4	3.8	3.6	3.3	4.4	3.8	3.2	4.7	5.1	4.5	0.0	4.2
14	5.3	4.7	4.2	3.1	3.7	4.4	4.1	3.4	4.7	4.8	4.4	0.0	4.2
15	6.4	4.9	4.9	4.9	4.5	5.7	4.8	3.3	5.4	4.4	4.3	0.0	4.9
16	5.1	4.3	3.5	3.7	3.4	4.1	3.2	2.9	4.2	3.5	4.4	0.0	3.8
17	5.3	4.0	2.9	3.4	3.6	3.8	3.4	2.7	3.7	3.3	3.7	0.0	3.6
18	6.2	4.3	3.2	3.5	3.8	4.8	3.8	2.2	3.7	3.8	3.4	0.0	3.9
19	5.4	4.0	2.4	2.1	2.8	2.9	2.4	1.9	3.6	3.3	3.8	0.0	3.1
20	5.2	3.7	2.4	2.4	2.7	2.7	2.4	1.8	3.8	3.7	4.0	0.0	3.2
21	5.6	4.5	3.4	2.8	3.7	3.6	3.1	1.7	4.0	3.6	4.2	0.0	3.6
22	5.3	3.5	2.6	2.2	2.1	3.1	2.4	1.8	3.6	3.6	3.9	0.0	3.1
23	5.5	3.8	2.5	2.4	2.2	3.0	2.4	2.0	3.4	3.5	4.0	0.0	3.1
Day	5.7	4.2	3.2	3.0	3.2	3.9	3.3	2.3	4.2	4.1	4.2	-1.0	3.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.77	5.66	5.43	6.15	6.88	6.20	5.98	7.91	9.59	9.03	8.06	7.54	7.68
	2.13	1.93	2.10	2.30	2.16	2.39	2.31	2.17	2.41	2.24	2.38	2.36	2.07
25	7.41	6.20	5.94	6.73	7.53	6.78	6.55	8.65	10.47	9.86	8.81	8.25	8.40
	2.19	1.99	2.16	2.37	2.23	2.47	2.39	2.24	2.46	2.29	2.45	2.43	2.12
50	7.96	6.67	6.38	7.23	8.09	7.28	7.03	9.29	11.19	10.55	9.46	8.85	9.01
	2.25	2.05	2.22	2.43	2.29	2.53	2.45	2.30	2.53	2.35	2.52	2.49	2.17
100	8.63	7.22	6.92	7.84	8.77	7.90	7.62	10.08	12.04	11.36	10.27	9.60	9.73
	2.18	1.98	2.15	2.35	2.21	2.45	2.37	2.22	2.47	2.30	2.44	2.42	2.13
200	9.53	7.97	7.64	8.67	9.70	8.74	8.43	11.13	13.12	12.40	11.36	10.63	10.70
	2.06	1.88	2.03	2.23	2.10	2.32	2.25	2.11	2.38	2.20	2.31	2.29	2.05
Freq	5.6	4.5	3.5	6.6	8.2	7.1	5.9	11.1	21.1	10.4	7.5	8.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.57	3.83	3.68	4.17	4.70	4.21	4.10	5.34	6.60	6.19	5.46	5.12	5.22
	1.76	1.62	1.75	1.90	1.83	2.01	1.97	1.81	2.10	1.94	1.98	1.97	1.79
25	5.49	4.61	4.42	5.00	5.64	5.04	4.91	6.41	7.83	7.36	6.54	6.14	6.25
	1.90	1.74	1.89	2.05	1.98	2.17	2.13	1.95	2.22	2.06	2.14	2.13	1.91
50	6.37	5.36	5.13	5.79	6.53	5.82	5.68	7.42	8.93	8.42	7.56	7.10	7.20
	2.14	1.96	2.12	2.31	2.22	2.43	2.39	2.19	2.42	2.25	2.40	2.39	2.10
100	7.56	6.37	6.09	6.86	7.75	6.90	6.74	8.81	10.36	9.81	8.97	8.41	8.49
	2.28	2.09	2.26	2.46	2.37	2.59	2.55	2.33	2.60	2.42	2.56	2.55	2.24
200	9.40	7.92	7.57	8.54	9.64	8.60	8.38	10.96	12.49	11.89	11.17	10.48	10.44
	2.17	1.99	2.16	2.35	2.26	2.47	2.43	2.23	2.50	2.32	2.44	2.43	2.19
Freq	5.6	4.5	3.5	6.6	8.2	7.1	5.9	11.1	21.1	10.4	7.5	8.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.98	3.32	3.20	3.65	4.08	3.69	3.57	4.62	5.70	5.35	4.72	4.43	4.53
	1.79	1.62	1.75	1.95	1.84	2.04	1.99	1.81	2.10	1.94	1.98	1.98	1.80
25	4.92	4.12	3.96	4.51	5.05	4.55	4.41	5.71	6.99	6.56	5.83	5.48	5.58
	1.91	1.73	1.87	2.09	1.97	2.18	2.13	1.94	2.21	2.05	2.12	2.12	1.91
50	5.78	4.85	4.66	5.29	5.92	5.33	5.17	6.71	8.10	7.64	6.84	6.42	6.53
	2.12	1.91	2.07	2.31	2.18	2.41	2.36	2.15	2.38	2.22	2.35	2.34	2.07
100	6.89	5.79	5.55	6.30	7.06	6.34	6.15	8.00	9.48	8.97	8.14	7.64	7.75
	2.32	2.10	2.28	2.54	2.40	2.65	2.60	2.36	2.62	2.44	2.58	2.57	2.26
200	8.50	7.14	6.85	7.78	8.71	7.83	7.59	9.87	11.41	10.84	10.05	9.44	9.47
	2.22	2.01	2.18	2.43	2.29	2.54	2.48	2.26	2.53	2.35	2.47	2.46	2.21
Freq	5.6	4.5	3.5	6.6	8.2	7.1	5.9	11.1	21.1	10.4	7.5	8.6	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.10	2.64	2.53	2.87	3.15	2.89	2.82	3.61	4.44	4.16	3.67	3.45	3.53
	1.79	1.68	1.80	1.98	1.82	2.06	2.05	1.83	2.10	1.94	1.99	1.97	1.81
25	4.10	3.48	3.33	3.78	4.16	3.80	3.71	4.77	5.81	5.46	4.84	4.54	4.65
	1.90	1.77	1.91	2.10	1.92	2.18	2.17	1.94	2.20	2.04	2.10	2.09	1.90
50	4.95	4.22	4.03	4.56	5.03	4.59	4.47	5.76	6.95	6.55	5.84	5.48	5.60
	2.06	1.93	2.07	2.28	2.09	2.37	2.35	2.11	2.35	2.18	2.29	2.27	2.04
100	5.98	5.10	4.87	5.49	6.07	5.52	5.38	6.95	8.27	7.83	7.03	6.60	6.74
	2.35	2.20	2.36	2.60	2.38	2.70	2.69	2.40	2.63	2.45	2.60	2.59	2.28
200	7.30	6.23	5.95	6.71	7.41	6.75	6.58	8.49	9.95	9.44	8.59	8.07	8.18
	2.27	2.12	2.28	2.50	2.30	2.60	2.58	2.32	2.57	2.39	2.51	2.49	2.24
Freq	5.6	4.5	3.5	6.6	8.2	7.1	5.9	11.1	21.1	10.4	7.5	8.6	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	6.8	356	4.6	132	4.0	85	3.1	40
25	7.4	455	5.5	208	5.0	149	4.1	86
50	8.0	549	6.4	289	5.8	219	5.0	140
100	8.6	706	7.5	447	6.9	337	6.0	220
200	9.5	970	9.2	849	8.4	629	7.2	401

PRIBYSLAV

49°34'58" N 15°45'45" E UTM 33 E 3555140 m N 5494817 m 530 m a.s.l.

The station is situated near the Pribyslav airport at a distance of 2 km NW from the town of Pribyslav. This station is located at an upper part of terrain elevation slope oriented to the west. It is open in all directions except of the sector of 0-80°. In these directions there are trees and buildings which influence circulation at the station. Anemometer is located on a rod at a height of 4 m above the roof of station building and at a height of 15 m above the ground.

Height of anemometer: 15 m a.g.l. *Period:* 1984010101 - 1993123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.050	0	0.0	0	0.0	0	0.0	0	0.0		
30	0.050	2000	0.060	2600	0.050	4300	0.130	0	0.0		
60	0.600	250	0.050	550	0.060	4300	0.200	5000	0.050		
90	0.050	2000	0.200	2600	0.130	6500	0.600	0	0.0		
120	0.050	2000	0.130	0	0.0	0	0.0	0	0.0		
150	0.050	1100	0.290	3300	0.050	4050	0.100	0	0.0		
180	0.010	650	0.200	1450	0.060	4550	0.300	0	0.0		
210	0.030	1400	0.130	0	0.0	0	0.0	0	0.0		
240	0.030	1400	0.290	2950	0.130	0	0.0	0	0.0		
270	0.030	1050	0.230	2550	0.130	0	0.0	0	0.0		
300	0.030	1500	0.110	0	0.0	0	0.0	0	0.0		
330	0.050	4250	0.110	0	0.0	0	0.0	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	6.3	108	145	184	180	116	92	73	47	29	20	5	1	0	0	4.1	1.62
30	3.9	176	189	214	160	90	62	41	31	22	13	1	0	0	0	3.3	1.42
60	1.7	394	256	174	99	32	21	10	8	4	1	0	0	0	0	1.9	1.21
90	9.1	75	238	245	183	109	68	40	24	12	5	0	0	0	0	3.4	1.65
120	24.1	28	104	129	137	112	108	99	84	73	75	33	14	5	0	6.1	1.83
150	7.8	88	98	118	115	92	98	90	80	80	89	35	11	4	1	6.1	1.82
180	3.2	213	152	180	152	97	68	58	36	23	18	2	0	0	0	3.6	1.45
210	3.4	204	226	161	137	71	59	44	36	25	26	6	5	0	0	3.3	1.21
240	4.0	172	147	146	142	92	69	76	56	41	40	14	4	2	1	4.2	1.37
270	11.7	58	119	144	138	99	100	87	78	63	64	32	13	4	1	5.6	1.68
300	16.3	42	128	158	154	114	97	91	77	58	50	21	8	2	0	5.3	1.68
330	8.5	80	113	159	159	115	98	93	69	56	41	13	3	1	0	5.0	1.70
Total	100.0	82	138	159	148	105	91	80	65	52	49	20	8	2	0	4.9	1.54

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.3	4.4	3.9	3.5	2.9	2.0	1.8	1.9	2.4	3.9	4.2	4.8	3.3
1	4.4	4.3	3.8	3.5	2.8	2.0	1.8	2.0	2.3	3.7	4.2	4.7	3.3
2	4.3	4.4	3.8	3.4	2.7	1.9	1.7	1.9	2.4	3.7	4.1	4.7	3.2
3	4.3	4.5	3.9	3.4	2.8	1.9	1.8	1.9	2.4	3.8	4.1	4.6	3.3
4	4.4	4.5	4.0	3.5	2.6	1.8	1.8	1.9	2.3	3.8	4.1	4.8	3.3
5	4.5	4.5	4.0	3.4	2.9	2.0	1.9	1.9	2.4	3.8	4.1	4.7	3.3
6	4.5	4.5	4.0	3.7	3.4	2.5	2.2	2.1	2.4	3.9	4.2	4.7	3.5
7	4.5	4.6	4.1	4.4	4.0	3.3	2.8	2.5	2.9	4.0	4.3	4.7	3.8
8	4.4	4.8	4.6	5.1	4.4	3.9	3.4	3.2	3.6	4.4	4.5	4.7	4.2
9	4.4	4.9	5.0	5.6	4.7	4.0	3.6	3.7	4.1	4.8	4.8	4.7	4.5
10	4.8	5.2	5.3	5.8	5.0	4.3	3.8	4.0	4.4	5.1	5.1	4.8	4.8
11	4.8	5.3	5.7	5.9	5.1	4.3	4.0	4.3	4.6	5.3	5.3	4.9	5.0
12	5.0	5.5	5.9	6.1	5.2	4.3	4.1	4.3	4.8	5.5	5.3	5.0	5.1
13	5.1	5.5	5.8	6.2	5.3	4.6	4.2	4.4	4.7	5.4	5.3	5.1	5.1
14	5.0	5.5	5.7	6.0	5.2	4.3	4.1	4.4	4.5	5.2	5.1	5.0	5.0
15	4.9	5.3	5.5	5.9	5.1	4.3	4.0	4.3	4.5	4.9	4.7	4.9	4.9
16	4.6	4.9	5.0	5.5	5.0	4.1	3.7	3.9	4.0	4.2	4.4	4.9	4.5
17	4.5	4.6	4.4	4.8	4.5	3.8	3.3	3.4	3.2	3.8	4.4	5.0	4.1
18	4.4	4.7	4.0	4.1	3.7	3.4	2.7	2.7	2.9	3.8	4.5	5.0	3.8
19	4.5	4.6	3.9	3.8	3.2	2.6	2.2	2.3	2.7	3.8	4.3	4.9	3.5
20	4.5	4.7	3.9	3.8	3.1	2.3	2.1	2.2	2.6	3.9	4.3	4.8	3.5
21	4.3	4.6	4.0	3.7	3.0	2.1	2.1	2.1	2.7	3.9	4.2	4.8	3.5
22	4.3	4.5	3.9	3.6	2.9	2.0	1.9	2.0	2.6	3.8	4.2	4.7	3.4
23	4.3	4.4	3.9	3.6	2.8	2.0	1.9	1.9	2.4	3.9	4.4	4.8	3.3
Day	4.5	4.8	4.5	4.5	3.8	3.1	2.8	2.9	3.2	4.3	4.5	4.8	4.0

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.56	6.55	4.53	5.71	8.17	8.71	6.46	5.41	7.19	7.96	6.90	7.03	7.16
	1.89	1.66	1.60	1.66	2.10	2.03	1.60	1.42	1.60	1.88	1.96	1.98	1.80
25	7.19	7.18	4.97	6.27	8.93	9.51	7.09	5.94	7.86	8.70	7.56	7.70	7.84
	1.95	1.71	1.65	1.72	2.15	2.08	1.65	1.46	1.63	1.92	2.02	2.04	1.85
50	7.73	7.72	5.35	6.74	9.58	10.17	7.61	6.41	8.42	9.32	8.12	8.27	8.41
	2.01	1.76	1.70	1.76	2.22	2.13	1.69	1.50	1.68	1.98	2.07	2.10	1.90
100	8.37	8.34	5.78	7.30	10.35	10.94	8.21	6.92	9.04	10.03	8.80	8.97	9.09
	1.94	1.71	1.64	1.71	2.15	2.09	1.64	1.46	1.64	1.93	2.01	2.03	1.85
200	9.24	9.16	6.36	8.03	11.36	11.91	8.99	7.59	9.81	10.94	9.71	9.90	9.97
	1.84	1.62	1.56	1.62	2.05	2.01	1.56	1.38	1.58	1.85	1.90	1.92	1.78
Freq	7.1	4.4	2.9	9.6	20.4	8.5	4.1	3.9	5.4	11.3	13.8	8.5	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.38	4.35	3.04	3.81	5.54	5.96	4.30	3.56	4.91	5.41	4.66	4.74	4.83
	1.56	1.39	1.36	1.40	1.78	1.77	1.35	1.20	1.41	1.62	1.64	1.65	1.54
25	5.27	5.26	3.68	4.61	6.64	7.09	5.19	4.33	5.87	6.46	5.60	5.70	5.80
	1.68	1.50	1.46	1.51	1.91	1.88	1.45	1.29	1.49	1.72	1.77	1.78	1.65
50	6.14	6.15	4.31	5.39	7.67	8.11	6.06	5.12	6.76	7.44	6.51	6.62	6.72
	1.88	1.68	1.64	1.69	2.13	2.05	1.62	1.44	1.62	1.89	1.99	2.00	1.83
100	7.30	7.33	5.14	6.43	9.05	9.43	7.21	6.12	7.89	8.70	7.73	7.87	7.95
	2.01	1.79	1.74	1.80	2.28	2.19	1.72	1.53	1.74	2.02	2.12	2.13	1.95
200	9.07	9.09	6.37	7.97	11.17	11.35	8.89	7.57	9.46	10.55	9.61	9.78	9.77
	1.92	1.71	1.67	1.72	2.18	2.11	1.65	1.47	1.67	1.94	2.03	2.04	1.88
Freq	7.1	4.4	2.9	9.6	20.4	8.5	4.1	3.9	5.4	11.3	13.8	8.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.85	3.81	2.62	3.33	4.79	5.15	3.77	3.07	4.24	4.68	4.03	4.11	4.19
	1.61	1.42	1.36	1.41	1.78	1.77	1.38	1.19	1.41	1.62	1.65	1.67	1.55
25	4.78	4.75	3.26	4.14	5.92	6.33	4.69	3.85	5.23	5.77	5.00	5.10	5.19
	1.72	1.52	1.46	1.51	1.90	1.86	1.47	1.27	1.49	1.72	1.76	1.78	1.65
50	5.63	5.62	3.87	4.91	6.94	7.36	5.56	4.60	6.12	6.75	5.89	6.00	6.10
	1.90	1.67	1.61	1.67	2.09	2.01	1.62	1.40	1.60	1.87	1.95	1.98	1.80
100	6.73	6.74	4.65	5.88	8.25	8.62	6.68	5.55	7.22	7.97	7.03	7.17	7.26
	2.09	1.84	1.76	1.83	2.30	2.20	1.78	1.54	1.76	2.05	2.14	2.17	1.97
200	8.29	8.30	5.72	7.24	10.13	10.36	8.21	6.81	8.66	9.64	8.67	8.84	8.88
	2.00	1.76	1.69	1.75	2.20	2.12	1.71	1.48	1.69	1.97	2.05	2.08	1.90
Freq	7.1	4.4	2.9	9.6	20.4	8.5	4.1	3.9	5.4	11.3	13.8	8.5	

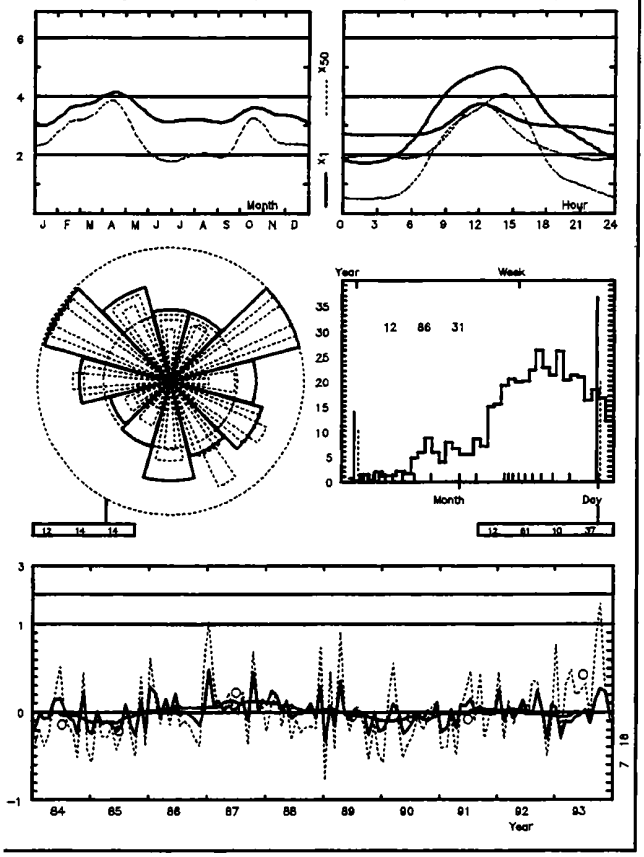
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.00	2.98	2.06	2.63	3.74	4.01	2.94	2.43	3.28	3.65	3.15	3.21	3.27
	1.61	1.42	1.36	1.45	1.79	1.77	1.38	1.22	1.40	1.63	1.65	1.67	1.56
25	3.97	3.95	2.74	3.49	4.93	5.26	3.90	3.24	4.32	4.80	4.16	4.24	4.32
	1.70	1.51	1.44	1.53	1.89	1.85	1.46	1.29	1.46	1.71	1.75	1.77	1.64
50	4.81	4.81	3.34	4.25	5.96	6.31	4.75	3.97	5.22	5.78	5.04	5.13	5.23
	1.85	1.63	1.56	1.66	2.05	1.98	1.58	1.39	1.56	1.83	1.90	1.92	1.77
100	5.82	5.85	4.07	5.17	7.18	7.53	5.79	4.87	6.27	6.95	6.10	6.21	6.32
	2.10	1.86	1.77	1.89	2.34	2.21	1.80	1.58	1.74	2.07	2.16	2.19	1.99
200	7.11	7.13	4.96	6.30	8.77	9.04	7.05	5.93	7.52	8.39	7.45	7.58	7.68
	2.03	1.79	1.71	1.82	2.25	2.16	1.74	1.52	1.70	2.01	2.08	2.11	1.94
Freq	7.1	4.4	2.9	9.6	20.4	8.5	4.1	3.9	5.4	11.3	13.8	8.5	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	6.4	337	4.3	130	3.8	84	2.9	39
25	7.0	428	5.2	203	4.6	145	3.9	84
50	7.5	513	6.0	275	5.4	208	4.7	134
100	8.1	666	7.0	420	6.4	316	5.6	206
200	8.9	929	8.7	815	7.9	602	6.8	382

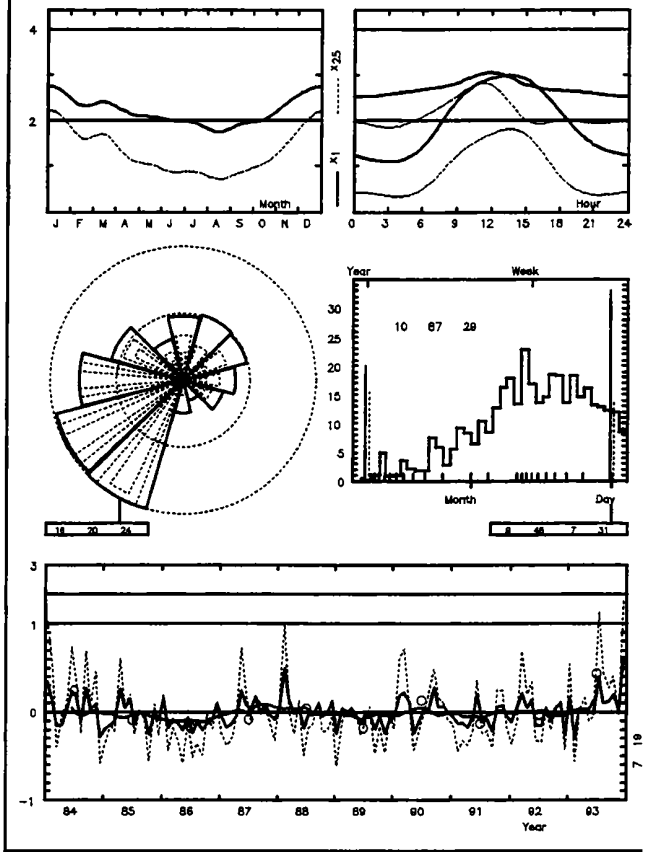
Brno– Turany 1984–93

15.0 m agl, mean 3.4 m/s, st dev 2.7 m/s, cube 130. m^3/s^3



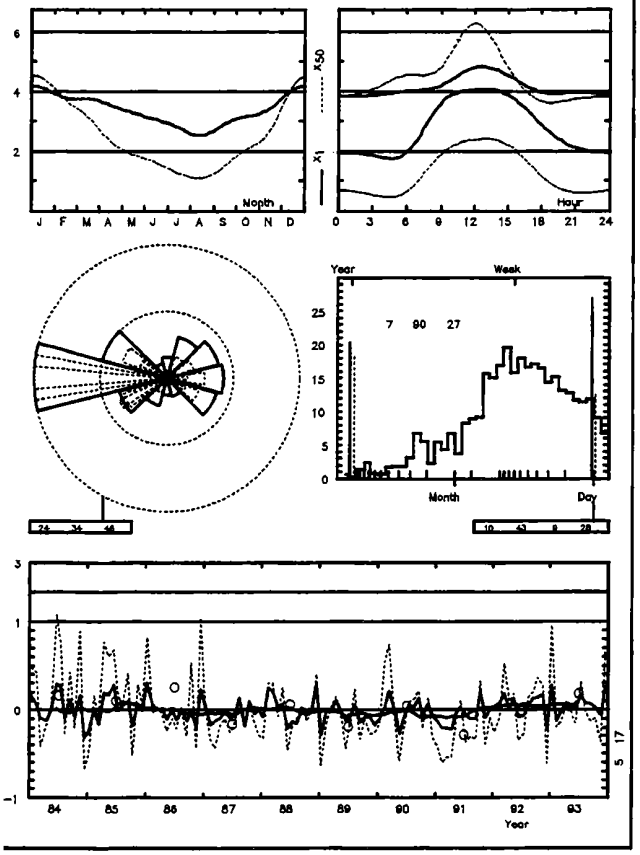
Cheb 1984–93

18.0 m agl, mean 2.2 m/s, st dev 1.7 m/s, cube 33. m^3/s^3



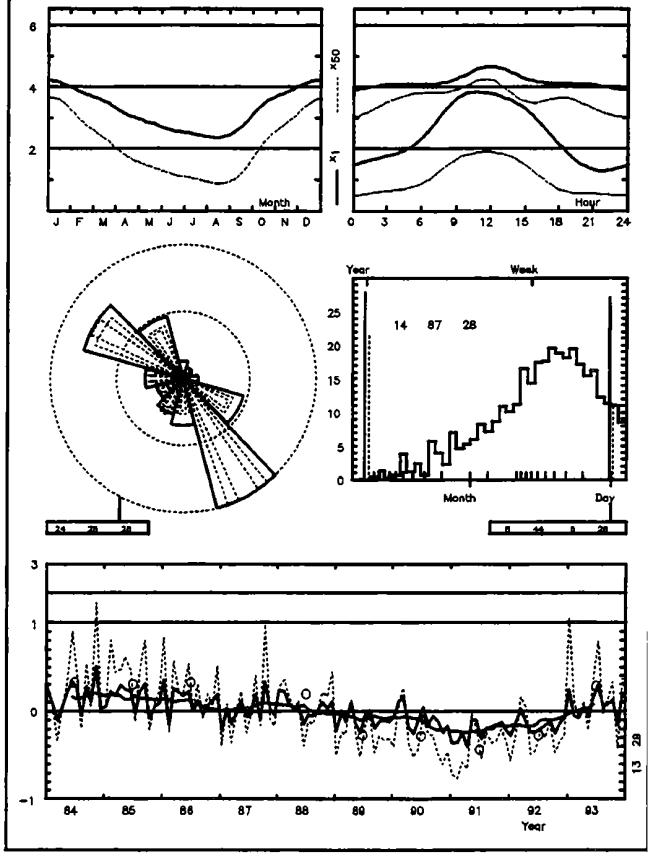
Kocelovice 1984–93

10.0 m agl, mean 3.4 m/s, st dev 2.6 m/s, cube 124. m^3/s^3



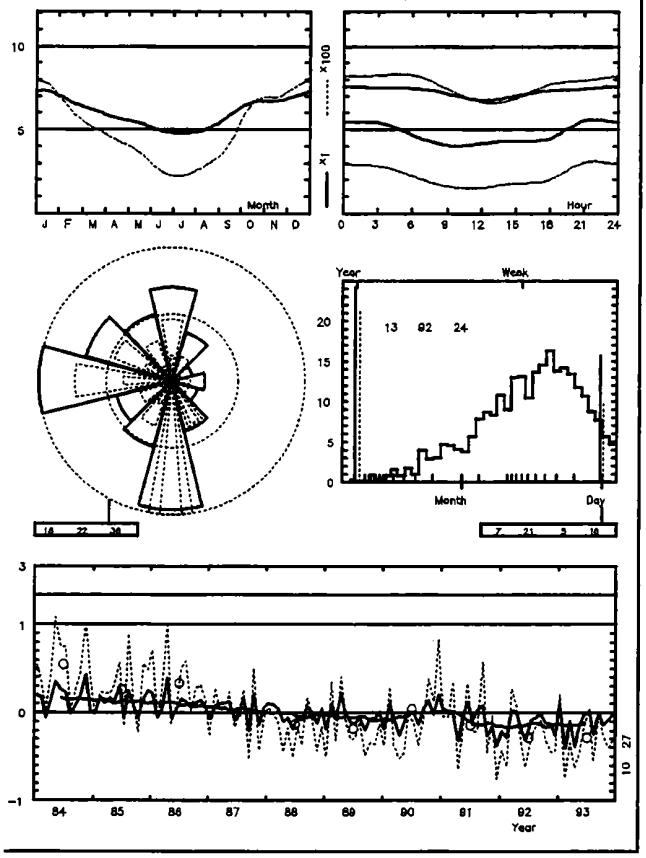
Liberec 1984–93

12.5 m agl, mean 3.3 m/s, st dev 2.5 m/s, cube 103. m^3/s^3



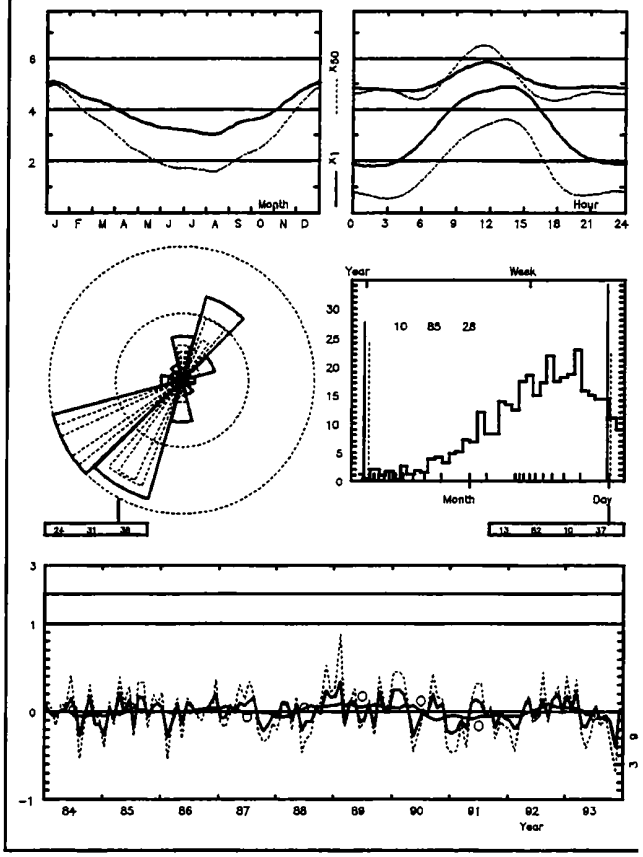
Lysa Hora 1984–93

10.0 m agl, mean 6.0 m/s, st dev 3.7 m/s, cube 500. m^3/s^3



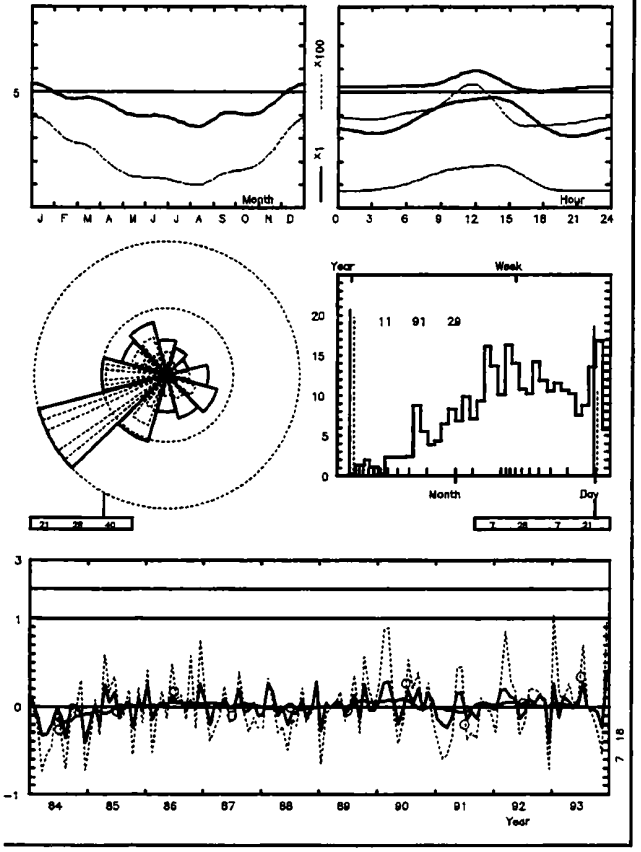
Ostrava– Mosnov 1984–93

10.0 m agl, mean 3.9 m/s, st dev 2.6 m/s, cube 146. m^3/s^3



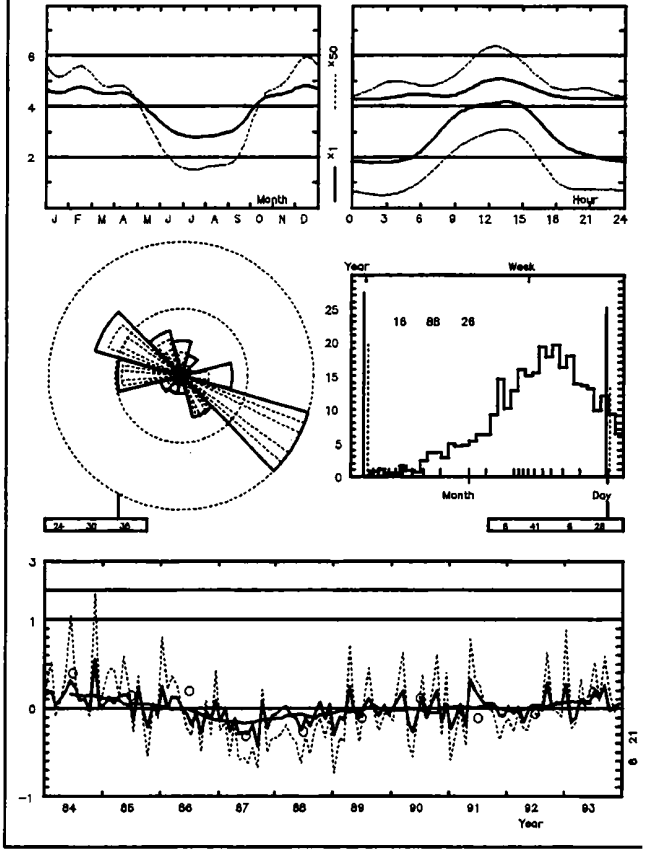
Praha Ruznye 1984–93

11.0 m agl, mean 4.4 m/s, st dev 2.8 m/s, cube 209. m^3/s^3



Pribyslav 1984–93

15.0 m agl, mean 4.0 m/s, st dev 3.0 m/s, cube 191. m^3/s^3



BUDAPEST

47°25'56" N 19°10'44" E UTM 34 E 362665 m N 5254907 m 139 m a.s.l.

Location is in the north part of Hungary, situated southeast of the city centre within the borders of the capital in a village-like suburban area.

Height of anemometer: 10.3 m a.g.l. *Period:* 1981010101 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.600	0	0.0	0	0.0	0	0.0				
30	0.600	0	0.0	0	0.0	0	0.0				
60	0.600	3500	0.400	0	0.0	0	0.0				
90	0.600	4000	0.100	0	0.0	0	0.0				
120	0.600	3000	0.400	0	0.0	0	0.0				
150	0.600	0	0.0	0	0.0	0	0.0				
180	0.600	4000	0.100	0	0.0	0	0.0				
210	0.400	2000	0.200	0	0.0	0	0.0				
240	0.050	600	0.400	2000	0.100	4000	0.200				
270	0.050	500	0.400	0	0.0	0	0.0				
300	0.050	500	0.600	0	0.0	0	0.0				
330	0.600	0	0.0	0	0.0	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	9.6	85	430	254	131	54	31	10	2	2	1	0	0	0	0	2.5	1.59
30	8.0	101	541	209	94	30	17	7	1	0	0	0	0	0	0	2.0	1.42
60	8.3	95	553	212	88	31	14	6	1	0	0	0	0	0	0	2.0	1.45
90	9.8	62	416	309	131	47	19	11	4	0	0	0	0	0	0	2.5	1.81
120	6.3	47	345	412	156	34	4	2	0	0	0	0	0	0	0	2.6	2.65
150	8.9	73	332	311	150	77	31	22	3	1	0	0	0	0	0	2.8	1.79
180	6.6	58	302	255	163	101	69	37	12	2	0	0	0	0	0	3.1	1.69
210	5.6	71	398	242	139	71	44	28	5	1	0	0	0	0	0	2.7	1.58
240	6.5	66	352	272	170	75	43	16	3	3	0	0	0	0	0	2.8	1.77
270	4.8	78	403	239	141	87	33	10	5	3	1	0	0	0	0	2.6	1.62
300	4.9	64	250	186	161	123	91	55	37	16	13	3	0	0	0	3.8	1.63
330	20.8	38	146	138	165	148	131	109	53	28	30	11	3	0	0	5.0	1.95
Total	100.0	66	349	240	142	80	53	36	15	7	7	2	1	0	0	2.9	1.37

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.1	2.8	2.9	2.8	2.1	2.2	2.0	2.0	2.0	2.1	2.6	2.6	2.4
1	3.0	2.9	2.8	2.7	2.2	2.2	1.9	1.9	1.9	2.0	2.7	2.8	2.4
2	2.9	2.9	2.7	2.6	2.1	2.0	1.9	1.9	2.0	2.0	2.6	2.8	2.4
3	2.9	2.8	2.7	2.6	2.2	2.1	2.0	1.9	2.0	1.9	2.6	2.7	2.4
4	3.0	3.0	2.8	2.5	2.2	2.1	2.0	1.9	1.9	2.0	2.6	2.8	2.4
5	3.0	3.0	2.7	2.6	2.2	2.1	2.1	1.9	1.9	2.0	2.6	2.8	2.4
6	2.9	3.0	2.8	2.6	2.1	2.0	2.0	1.9	1.9	2.0	2.5	2.9	2.4
7	2.9	2.9	2.8	2.6	2.2	2.2	2.1	1.9	1.9	2.0	2.4	2.8	2.4
8	2.8	2.8	2.8	3.0	2.6	2.6	2.4	2.1	2.0	2.0	2.4	2.7	2.5
9	2.8	3.0	3.1	3.4	2.8	3.0	2.8	2.4	2.4	2.2	2.5	2.8	2.8
10	2.9	3.2	3.5	3.8	3.1	3.2	3.1	2.7	2.8	2.6	2.6	2.8	3.0
11	3.2	3.5	3.9	3.9	3.3	3.4	3.2	2.9	3.2	3.0	2.9	2.9	3.3
12	3.4	3.6	4.1	4.2	3.5	3.5	3.4	3.0	3.4	3.3	3.1	3.1	3.5
13	3.5	3.6	4.2	4.3	3.6	3.5	3.5	3.1	3.5	3.4	3.2	3.2	3.6
14	3.5	3.6	4.2	4.4	3.7	3.7	3.5	3.1	3.6	3.3	3.2	3.1	3.6
15	3.5	3.6	4.1	4.4	3.7	3.6	3.4	3.1	3.5	3.1	3.0	3.1	3.5
16	3.4	3.6	4.0	4.3	3.7	3.6	3.4	3.0	3.3	2.9	2.8	2.9	3.4
17	3.2	3.2	3.7	4.3	3.5	3.5	3.3	3.0	3.0	2.5	2.6	2.9	3.2
18	3.2	3.1	3.3	3.8	3.0	3.2	3.0	2.7	2.6	2.4	2.7	2.9	3.0
19	3.0	3.0	2.9	3.3	2.5	2.8	2.7	2.3	2.3	2.4	2.6	2.8	2.7
20	3.0	2.9	2.8	3.1	2.3	2.4	2.2	2.2	2.2	2.4	2.6	2.9	2.6
21	3.0	2.9	2.9	3.0	2.2	2.3	2.1	2.1	2.1	2.4	2.5	2.8	2.5
22	3.0	2.9	2.9	2.9	2.2	2.3	2.1	2.1	2.2	2.3	2.5	2.7	2.5
23	3.0	2.8	2.9	2.9	2.2	2.2	2.0	2.0	2.1	2.2	2.6	2.7	2.5
Day	3.1	3.1	3.2	3.3	2.7	2.7	2.6	2.4	2.5	2.4	2.7	2.9	2.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.96	5.00	4.81	5.58	6.01	6.68	6.93	5.62	4.80	4.82	7.31	11.57	6.86
	1.83	1.81	1.79	2.09	2.99	2.10	1.98	1.85	2.08	1.89	1.90	2.06	1.52
25	6.53	5.48	5.27	6.11	6.57	7.31	7.59	6.16	5.26	5.28	8.00	12.59	7.50
	1.89	1.86	1.85	2.16	3.08	2.17	2.04	1.91	2.15	1.95	1.96	2.08	1.54
50	7.02	5.89	5.67	6.56	7.05	7.85	8.15	6.62	5.65	5.68	8.59	13.40	8.05
	1.94	1.91	1.90	2.21	3.16	2.22	2.09	1.96	2.20	2.00	2.01	2.11	1.57
100	7.61	6.38	6.14	7.12	7.66	8.51	8.84	7.17	6.12	6.15	9.30	14.26	8.67
	1.88	1.85	1.84	2.14	3.06	2.15	2.03	1.90	2.13	1.94	1.96	2.10	1.58
200	8.39	7.03	6.76	7.86	8.48	9.41	9.76	7.91	6.76	6.79	10.24	15.25	9.48
	1.78	1.75	1.74	2.03	2.90	2.04	1.92	1.80	2.02	1.83	1.85	2.06	1.57
Freq	9.6	8.0	8.3	9.8	6.3	8.9	6.6	5.6	6.5	4.8	4.9	20.8	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.05	3.37	3.22	3.79	4.12	4.53	4.74	3.78	3.27	3.26	4.92	8.11	4.67
	1.56	1.51	1.49	1.75	2.48	1.76	1.71	1.55	1.74	1.58	1.60	1.90	1.38
25	4.88	4.07	3.89	4.55	4.92	5.44	5.69	4.55	3.92	3.93	5.93	9.49	5.58
	1.69	1.63	1.61	1.89	2.68	1.90	1.84	1.67	1.88	1.71	1.73	1.95	1.44
50	5.68	4.74	4.53	5.27	5.67	6.30	6.60	5.30	4.55	4.57	6.89	10.62	6.43
	1.89	1.83	1.81	2.12	3.01	2.14	2.07	1.88	2.11	1.92	1.94	2.03	1.54
100	6.75	5.64	5.40	6.26	6.71	7.48	7.84	6.31	5.40	5.43	8.19	11.93	7.55
	2.01	1.95	1.92	2.26	3.20	2.28	2.20	2.00	2.24	2.04	2.07	2.16	1.67
200	8.38	7.00	6.70	7.79	8.37	9.31	9.75	7.83	6.72	6.75	10.18	13.56	9.15
	1.92	1.87	1.84	2.16	3.06	2.18	2.10	1.91	2.14	1.95	1.98	2.11	1.73
Freq	9.6	8.0	8.3	9.8	6.3	8.9	6.6	5.6	6.5	4.8	4.9	20.8	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.47	2.95	2.91	3.28	3.58	3.91	4.08	3.29	2.83	2.86	4.26	7.00	4.05
	1.54	1.54	1.60	1.75	2.51	1.76	1.69	1.56	1.77	1.60	1.61	1.91	1.39
25	4.31	3.66	3.61	4.06	4.40	4.84	5.05	4.08	3.50	3.54	5.29	8.47	4.99
	1.64	1.65	1.72	1.87	2.69	1.88	1.80	1.67	1.89	1.71	1.72	1.95	1.45
50	5.09	4.32	4.26	4.78	5.15	5.69	5.95	4.82	4.11	4.18	6.23	9.67	5.84
	1.82	1.82	1.90	2.07	2.97	2.08	1.99	1.84	2.09	1.89	1.90	2.02	1.53
100	6.09	5.17	5.09	5.69	6.11	6.78	7.10	5.76	4.90	4.99	7.44	11.00	6.91
	1.99	2.00	2.08	2.28	3.26	2.29	2.19	2.03	2.30	2.08	2.09	2.15	1.67
200	7.50	6.37	6.27	7.03	7.55	8.37	8.75	7.10	6.05	6.15	9.18	12.59	8.34
	1.91	1.92	1.99	2.18	3.12	2.19	2.10	1.94	2.20	1.99	2.00	2.13	1.72
Freq	9.6	8.0	8.3	9.8	6.3	8.9	6.6	5.6	6.5	4.8	4.9	20.8	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.77	2.33	2.23	2.56	2.79	3.05	3.15	2.58	2.22	2.22	3.32	5.45	3.16
	1.58	1.55	1.53	1.78	2.41	1.74	1.68	1.58	1.74	1.58	1.61	1.92	1.40
25	3.66	3.08	2.95	3.38	3.66	4.03	4.16	3.41	2.93	2.93	4.39	7.06	4.16
	1.68	1.64	1.62	1.89	2.55	1.85	1.77	1.67	1.84	1.68	1.71	1.96	1.44
50	4.44	3.74	3.58	4.09	4.41	4.87	5.04	4.14	3.54	3.56	5.32	8.34	5.01
	1.82	1.78	1.76	2.05	2.77	2.01	1.93	1.81	1.99	1.82	1.85	2.02	1.52
100	5.38	4.53	4.34	4.94	5.29	5.88	6.10	5.02	4.28	4.31	6.44	9.72	6.03
	2.08	2.03	2.00	2.34	3.16	2.28	2.20	2.06	2.27	2.08	2.11	2.13	1.64
200	6.56	5.53	5.29	6.03	6.48	7.19	7.45	6.12	5.23	5.26	7.86	11.28	7.25
	2.00	1.96	1.93	2.25	3.05	2.20	2.12	1.99	2.19	2.00	2.03	2.17	1.69
Freq	9.6	8.0	8.3	9.8	6.3	8.9	6.6	5.6	6.5	4.8	4.9	20.8	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.2	386	4.3	146	3.7	94	2.9	44
25	6.8	492	5.1	228	4.5	162	3.8	94
50	7.2	589	5.8	309	5.3	234	4.5	151
100	7.8	732	6.7	439	6.2	338	5.4	229
200	8.5	959	8.2	745	7.4	569	6.5	382

DEBRECEN

47°30'35" N 21°38'3" E UTM 34 E 547561 m N 5260253 m 111 m a.s.l.

Location is in the eastern part of the country on the Hungarian Great Plain, situated south to Debrecen, a medium-size town, on flat surface. The anemometer is situated at an airport. Except one building of the airport and a few trees, there are no other obstacles near the station.

Height of anemometer: 10.0 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.200	200	0.030	1000	0.100						
30	0.200	450	0.030	0	0.0						
60	0.030	200	0.100	400	0.030						
90	0.030	1000	0.200	0	0.0						
120	0.030	1500	0.200	0	0.0						
150	0.030	1000	0.200	0	0.0						
180	0.030	1000	0.200	0	0.0						
210	0.030	400	0.100	0	0.0						
240	0.030	1600	0.200	0	0.0						
270	0.030	1200	0.200	0	0.0						
300	0.030	750	0.400	1500	0.200						
330	0.200	100	0.030	1000	0.400						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	9.1	62	158	196	184	141	100	75	41	24	19	1	0	0	0	4.2	1.81
30	7.5	73	226	237	188	111	72	51	20	13	6	3	0	0	0	3.5	1.67
60	14.7	129	304	220	169	91	45	24	11	4	2	0	0	0	0	2.9	1.62
90	8.8	230	439	203	79	29	12	5	1	1	0	0	0	0	0	2.0	1.51
120	4.9	250	486	170	58	25	6	2	1	2	0	0	0	0	0	1.9	1.53
150	13.0	228	463	187	70	31	14	5	1	0	0	0	0	0	0	1.9	1.49
180	12.6	140	336	226	141	80	45	22	6	3	1	0	0	0	0	2.7	1.55
210	6.7	121	261	220	161	101	71	43	11	6	5	1	0	0	0	3.2	1.58
240	9.5	95	218	199	170	115	87	64	28	14	8	1	0	0	0	3.7	1.68
270	4.6	109	206	201	144	105	86	74	37	15	17	5	0	0	0	3.8	1.54
300	2.7	121	255	198	151	94	60	52	32	17	16	3	0	0	0	3.4	1.41
330	6.0	101	244	241	174	100	64	41	19	8	7	1	0	0	0	3.3	1.56
Total	100.0	141	310	210	140	83	52	34	15	8	5	1	0	0	0	2.9	1.42

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.5	2.7	2.7	2.6	2.1	1.9	1.9	1.8	1.7	1.9	2.4	2.7	2.2
1	2.5	2.7	2.7	2.5	2.1	1.8	1.7	1.7	1.7	1.9	2.3	2.7	2.2
2	2.4	2.6	2.6	2.6	2.1	1.8	1.7	1.7	1.7	1.8	2.3	2.7	2.2
3	2.5	2.6	2.6	2.5	2.1	1.8	1.7	1.7	1.7	1.8	2.4	2.7	2.2
4	2.5	2.6	2.6	2.5	2.1	1.8	1.7	1.7	1.7	1.8	2.3	2.6	2.2
5	2.5	2.6	2.7	2.5	2.1	1.9	1.7	1.7	1.6	1.8	2.3	2.6	2.2
6	2.4	2.6	2.7	2.6	2.3	2.2	1.9	1.8	1.7	1.8	2.3	2.6	2.2
7	2.4	2.6	2.9	2.9	2.6	2.4	2.2	2.0	1.8	1.9	2.3	2.6	2.4
8	2.5	2.7	3.1	3.3	3.0	2.6	2.6	2.3	2.2	2.0	2.3	2.7	2.6
9	2.6	3.0	3.6	3.7	3.1	2.8	2.7	2.5	2.6	2.4	2.5	2.7	2.8
10	2.8	3.2	3.8	3.8	3.2	3.1	3.0	2.7	2.9	2.7	2.8	3.0	3.1
11	3.1	3.5	4.0	4.0	3.3	3.3	3.2	2.9	3.0	2.9	3.0	3.1	3.3
12	3.1	3.6	4.2	4.2	3.4	3.5	3.2	2.9	3.2	3.0	3.1	3.2	3.4
13	3.3	3.6	4.2	4.3	3.5	3.6	3.3	3.1	3.3	3.1	3.0	3.3	3.5
14	3.2	3.6	4.2	4.3	3.6	3.6	3.4	3.1	3.4	3.1	3.0	3.1	3.5
15	3.0	3.5	4.2	4.2	3.6	3.7	3.4	3.2	3.3	2.9	2.7	2.9	3.4
16	2.7	3.3	4.0	4.2	3.6	3.7	3.3	3.1	3.1	2.6	2.4	2.7	3.2
17	2.6	2.9	3.6	3.9	3.4	3.5	3.1	3.0	2.6	2.0	2.3	2.6	3.0
18	2.6	2.7	3.0	3.3	3.0	3.0	2.7	2.5	2.1	1.9	2.3	2.7	2.7
19	2.6	2.7	2.7	2.8	2.4	2.4	2.2	2.0	1.9	1.9	2.3	2.7	2.4
20	2.6	2.7	2.6	2.7	2.1	2.0	1.9	1.9	2.0	2.0	2.4	2.7	2.3
21	2.6	2.7	2.6	2.7	2.0	2.0	1.9	1.9	1.9	2.0	2.4	2.7	2.3
22	2.5	2.7	2.6	2.7	2.1	1.9	1.9	1.8	1.8	2.0	2.4	2.7	2.3
23	2.5	2.7	2.7	2.7	2.1	1.9	1.9	1.8	1.8	2.0	2.4	2.7	2.3
Day	2.7	2.9	3.2	3.2	2.7	2.6	2.4	2.3	2.3	2.2	2.5	2.8	2.6

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.38	6.22	6.60	5.22	3.55	3.16	3.72	4.56	5.59	5.77	5.65	5.53	5.06
	2.05	2.00	1.91	1.65	1.68	1.77	1.65	1.79	1.96	1.87	1.72	1.85	1.65
25	6.99	6.81	7.23	5.72	3.89	3.47	4.08	5.00	6.13	6.33	6.20	6.06	5.55
	2.12	2.06	1.97	1.71	1.73	1.82	1.71	1.85	2.01	1.92	1.77	1.90	1.70
50	7.51	7.31	7.77	6.16	4.19	3.73	4.39	5.38	6.58	6.80	6.67	6.52	5.97
	2.17	2.12	2.02	1.75	1.78	1.87	1.75	1.90	2.07	1.98	1.82	1.95	1.74
100	8.14	7.93	8.42	6.66	4.53	4.04	4.75	5.82	7.13	7.37	7.21	7.06	6.46
	2.10	2.05	1.96	1.69	1.72	1.81	1.69	1.84	2.00	1.91	1.76	1.89	1.69
200	8.99	8.75	9.29	7.33	4.99	4.45	5.23	6.42	7.88	8.13	7.95	7.78	7.12
	1.99	1.94	1.85	1.61	1.63	1.72	1.61	1.74	1.90	1.81	1.67	1.79	1.62
Freq	8.1	8.1	11.7	11.0	6.5	9.7	12.9	9.1	8.5	6.4	3.4	4.7	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.59	4.20	4.62	3.07	2.36	2.14	2.88	3.38	3.98	4.08	3.83	3.81	3.51
	1.77	1.65	1.61	1.36	1.48	1.43	1.51	1.54	1.66	1.54	1.42	1.58	1.44
25	5.51	5.05	5.56	3.72	2.84	2.59	3.48	4.07	4.78	4.91	4.63	4.59	4.24
	1.92	1.78	1.74	1.47	1.60	1.54	1.63	1.66	1.79	1.66	1.53	1.71	1.54
50	6.39	5.87	6.47	4.35	3.32	3.02	4.05	4.74	5.55	5.72	5.41	5.34	4.95
	2.15	2.00	1.96	1.65	1.79	1.73	1.83	1.87	2.01	1.86	1.72	1.92	1.69
100	7.58	6.97	7.69	5.19	3.95	3.60	4.82	5.64	6.60	6.81	6.44	6.35	5.90
	2.29	2.13	2.08	1.75	1.90	1.83	1.95	1.99	2.14	1.98	1.83	2.04	1.79
200	9.43	8.66	9.56	6.43	4.90	4.47	5.98	7.00	8.20	8.46	7.99	7.89	7.31
	2.19	2.03	1.99	1.67	1.82	1.75	1.86	1.90	2.04	1.89	1.75	1.95	1.72
Freq	8.8	7.7	13.5	9.6	5.5	12.0	12.8	7.4	9.2	5.1	2.9	5.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.06	3.61	4.03	2.64	1.95	1.90	2.58	3.05	3.49	3.59	3.28	3.25	3.08
	1.80	1.63	1.61	1.51	1.45	1.50	1.54	1.58	1.65	1.52	1.39	1.55	1.45
25	5.02	4.47	5.00	3.28	2.42	2.36	3.21	3.79	4.32	4.46	4.08	4.03	3.82
	1.92	1.75	1.72	1.61	1.54	1.60	1.64	1.69	1.77	1.63	1.49	1.66	1.53
50	5.90	5.27	5.90	3.87	2.87	2.79	3.79	4.47	5.09	5.27	4.84	4.76	4.52
	2.13	1.93	1.90	1.78	1.71	1.77	1.82	1.87	1.96	1.80	1.64	1.83	1.67
100	7.03	6.29	7.05	4.63	3.43	3.34	4.53	5.34	6.08	6.30	5.80	5.69	5.41
	2.34	2.12	2.09	1.95	1.87	1.95	1.99	2.05	2.15	1.98	1.80	2.01	1.80
200	8.67	7.76	8.69	5.71	4.23	4.12	5.58	6.58	7.49	7.76	7.14	7.01	6.67
	2.24	2.03	2.00	1.87	1.79	1.87	1.91	1.96	2.06	1.89	1.73	1.93	1.74
Freq	9.1	7.5	14.1	9.1	5.1	12.8	12.7	6.8	9.5	4.6	2.7	5.9	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.16	2.91	3.11	1.94	1.63	1.68	2.09	2.47	2.78	2.85	2.61	2.72	2.46
	1.77	1.65	1.58	1.52	1.64	1.62	1.55	1.61	1.68	1.55	1.46	1.64	1.48
25	4.17	3.84	4.11	2.56	2.15	2.21	2.77	3.27	3.67	3.77	3.46	3.60	3.25
	1.88	1.74	1.67	1.61	1.74	1.71	1.64	1.71	1.78	1.64	1.54	1.74	1.55
50	5.04	4.65	4.99	3.11	2.61	2.69	3.36	3.97	4.45	4.58	4.21	4.36	3.95
	2.05	1.89	1.81	1.75	1.89	1.86	1.78	1.85	1.93	1.78	1.67	1.88	1.67
100	6.08	5.63	6.04	3.78	3.15	3.25	4.07	4.81	5.38	5.55	5.12	5.27	4.80
	2.33	2.15	2.06	1.99	2.15	2.12	2.03	2.11	2.20	2.03	1.90	2.15	1.86
200	7.43	6.87	7.38	4.61	3.85	3.97	4.97	5.87	6.57	6.77	6.24	6.44	5.85
	2.24	2.08	1.99	1.92	2.07	2.04	1.96	2.03	2.12	1.95	1.83	2.07	1.80
Freq	8.9	7.9	14.4	8.5	6.0	12.8	11.9	7.1	8.9	4.3	3.1	6.3	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.5	134	3.2	57	2.8	38	2.2	18
25	5.0	170	3.8	89	3.4	65	2.9	39
50	5.3	206	4.4	121	4.0	94	3.5	63
100	5.8	271	5.2	190	4.8	146	4.3	97
200	6.4	389	6.5	384	5.9	285	5.2	184

PECS

46°00'23" N 18°15'55" E UTM 34 E 288261 m N 5098490 m 201 m a.s.l.

Location is in the SW part of Hungary in a hilly area, situated south of Pecs, a medium-size town. The station is near an airport. The environment is free (no buildings).

Height of anemometer: 9.6 m a.g.l. *Period:* 1981010101 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	600	0.050	1500	0.100	0	0.0				
30	0.030	1000	0.100	0	0.0	0	0.0				
60	0.030	800	0.400	1600	0.030	0	0.0				
90	0.030	0	0.0	0	0.0	0	0.0				
120	0.030	2500	0.200	0	0.0	0	0.0				
150	0.030	1300	0.100	0	0.0	0	0.0				
180	0.030	1000	0.200	3000	0.070	0	0.0				
210	0.030	500	0.100	0	0.0	0	0.0				
240	0.030	500	0.100	2000	0.030	0	0.0				
270	0.030	1000	0.100	4000	0.400	0	0.0				
300	0.030	2000	0.100	0	0.0	0	0.0				
330	0.030	500	0.100	1000	0.030	2000	0.400				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	8.4	60	118	122	144	127	137	113	62	50	40	18	8	0	0	5.4	1.94
30	6.6	72	173	211	182	121	94	76	29	25	16	0	0	0	0	4.0	1.73
60	9.3	98	291	232	170	110	54	27	9	7	1	0	0	0	0	3.1	1.69
90	9.1	81	330	267	169	84	48	18	3	0	0	0	0	0	0	2.9	1.82
120	9.0	61	289	259	201	94	48	31	11	4	2	0	0	0	0	3.1	1.76
150	10.3	105	310	259	168	84	38	19	8	5	4	0	0	0	0	2.9	1.62
180	5.1	156	307	236	165	90	32	11	3	0	0	0	0	0	0	2.7	1.78
210	3.8	125	243	194	174	123	98	32	8	2	0	0	0	0	0	3.3	1.86
240	6.2	97	241	211	193	108	73	35	11	13	16	3	0	0	0	3.5	1.57
270	6.9	70	230	232	175	115	88	51	20	13	5	0	0	0	0	3.5	1.71
300	9.3	60	202	228	220	140	82	41	15	7	4	0	0	0	0	3.7	1.99
330	16.0	87	256	213	138	96	79	57	28	23	16	5	1	0	0	3.5	1.40
Total	100.0	86	252	224	172	106	72	44	18	14	9	3	1	0	0	3.4	1.53

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.4	3.3	3.5	3.4	2.4	2.5	2.1	2.2	2.1	2.4	2.9	3.4	2.8
1	3.1	3.4	3.3	3.5	2.4	2.5	2.1	2.2	2.0	2.3	2.9	3.6	2.8
2	3.2	3.4	3.3	3.3	2.3	2.4	2.1	2.1	2.0	2.3	2.9	3.4	2.7
3	3.2	3.4	3.4	3.5	2.4	2.4	2.2	2.2	2.1	2.3	2.8	3.4	2.8
4	3.3	3.5	3.5	3.4	2.4	2.4	2.2	2.3	2.1	2.3	2.8	3.2	2.8
5	3.5	3.4	3.5	3.4	2.3	2.4	2.2	2.2	2.0	2.3	2.8	3.3	2.8
6	3.4	3.4	3.4	3.4	2.4	2.4	2.1	2.1	2.0	2.3	2.8	3.3	2.8
7	3.3	3.4	3.4	3.6	2.6	2.5	2.2	1.9	1.9	2.2	2.8	3.4	2.8
8	3.6	3.6	3.8	4.0	3.0	2.9	2.5	2.3	1.9	2.3	3.0	3.7	3.1
9	3.2	3.5	3.8	4.1	3.1	2.9	2.8	2.4	2.3	2.5	2.9	3.5	3.1
10	3.3	3.7	4.1	4.7	3.4	3.1	3.1	2.7	2.7	2.9	3.1	3.6	3.4
11	3.5	3.8	4.3	5.0	3.6	3.4	3.2	2.9	2.9	3.2	3.3	3.8	3.6
12	3.6	4.0	4.3	5.1	3.8	3.4	3.3	3.1	3.1	3.4	3.3	3.9	3.7
13	3.7	4.1	4.4	5.1	3.8	3.5	3.3	3.2	3.3	3.6	3.4	3.9	3.8
14	3.8	4.2	4.4	5.1	3.7	3.5	3.3	3.3	3.3	3.6	3.5	4.0	3.8
15	3.7	4.1	4.5	5.1	3.7	3.5	3.3	3.3	3.3	3.7	3.4	3.9	3.8
16	3.5	3.9	4.5	5.1	3.6	3.5	3.3	3.2	3.2	3.4	3.1	3.6	3.7
17	3.4	3.7	4.2	4.8	3.6	3.4	3.1	3.0	2.8	2.8	2.8	3.5	3.4
18	3.3	3.4	3.7	4.4	3.4	3.1	3.0	2.7	2.2	2.5	2.8	3.5	3.2
19	3.2	3.2	3.4	3.6	2.9	2.6	2.4	2.2	1.9	2.6	2.9	3.5	2.9
20	3.3	3.3	3.3	3.2	2.5	2.3	2.0	2.0	2.0	2.5	2.9	3.6	2.7
21	3.4	3.3	3.4	3.2	2.5	2.3	1.9	2.1	2.0	2.5	3.0	3.5	2.7
22	3.4	3.3	3.5	3.3	2.6	2.3	2.0	2.1	2.1	2.4	3.0	3.4	2.8
23	3.4	3.3	3.4	3.3	2.4	2.4	2.0	2.1	2.2	2.4	3.0	3.4	2.8
Day	3.4	3.6	3.8	4.0	2.9	2.8	2.6	2.5	2.4	2.7	3.0	3.6	3.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.88	6.41	4.74	4.25	4.64	4.57	4.14	4.36	4.97	5.54	5.65	6.01	5.27
	1.91	2.01	1.97	2.07	2.03	1.96	1.98	2.09	1.92	1.97	2.20	1.74	1.79
25	7.54	7.02	5.19	4.65	5.09	5.01	4.54	4.77	5.45	6.07	6.19	6.59	5.78
	1.97	2.08	2.03	2.14	2.09	2.02	2.04	2.15	1.98	2.03	2.27	1.79	1.84
50	8.10	7.54	5.57	5.00	5.46	5.38	4.88	5.13	5.85	6.52	6.64	7.08	6.21
	2.02	2.13	2.08	2.20	2.15	2.08	2.10	2.21	2.03	2.08	2.33	1.84	1.88
100	8.78	8.17	6.04	5.42	5.92	5.83	5.29	5.56	6.34	7.06	7.21	7.67	6.72
	1.96	2.06	2.02	2.13	2.08	2.01	2.03	2.14	1.97	2.01	2.26	1.78	1.83
200	9.68	9.02	6.67	5.98	6.54	6.44	5.84	6.14	7.00	7.80	7.97	8.45	7.41
	1.85	1.96	1.91	2.01	1.97	1.90	1.92	2.03	1.87	1.91	2.13	1.69	1.74
Freq	11.0	6.6	7.8	9.2	9.7	10.1	6.8	4.0	5.0	6.7	9.2	14.0	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.25	4.05	3.12	2.94	3.38	3.10	2.81	3.23	3.45	3.98	3.93	4.16	3.66
	1.79	1.70	1.67	1.78	1.72	1.61	1.73	1.83	1.59	1.69	1.87	1.43	1.54
25	6.30	4.86	3.76	3.52	4.06	3.73	3.38	3.88	4.15	4.78	4.71	5.03	4.40
	1.94	1.83	1.81	1.92	1.86	1.73	1.87	1.98	1.71	1.83	2.03	1.54	1.65
50	7.30	5.65	4.36	4.08	4.71	4.34	3.92	4.49	4.83	5.55	5.45	5.88	5.13
	2.18	2.06	2.03	2.16	2.09	1.95	2.10	2.22	1.92	2.05	2.28	1.73	1.83
100	8.67	6.71	5.18	4.85	5.60	5.16	4.65	5.33	5.74	6.59	6.47	7.00	6.10
	2.32	2.19	2.16	2.30	2.22	2.07	2.23	2.36	2.05	2.19	2.42	1.83	1.93
200	10.78	8.34	6.44	6.03	6.96	6.41	5.79	6.63	7.14	8.20	8.05	8.69	7.58
	2.22	2.09	2.06	2.19	2.12	1.98	2.13	2.26	1.96	2.09	2.31	1.75	1.85
Freq	8.8	6.2	8.6	9.4	9.7	10.2	5.3	3.6	5.7	7.0	10.0	15.4	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.75	3.41	2.74	2.60	3.00	2.71	2.45	2.91	3.03	3.48	3.42	3.62	3.20
	1.89	1.72	1.71	1.80	1.75	1.63	1.75	1.84	1.58	1.69	1.87	1.42	1.54
25	5.87	4.23	3.39	3.22	3.71	3.36	3.03	3.60	3.77	4.31	4.23	4.51	3.98
	2.02	1.84	1.83	1.93	1.87	1.74	1.87	1.97	1.69	1.81	2.01	1.51	1.64
50	6.89	4.97	3.99	3.78	4.36	3.96	3.56	4.23	4.44	5.07	4.96	5.34	4.69
	2.24	2.03	2.03	2.13	2.07	1.93	2.07	2.18	1.87	2.00	2.22	1.67	1.80
100	8.20	5.93	4.76	4.50	5.20	4.73	4.25	5.03	5.31	6.05	5.91	6.40	5.61
	2.46	2.23	2.23	2.35	2.28	2.12	2.27	2.40	2.05	2.20	2.44	1.84	1.96
200	10.13	7.31	5.87	5.56	6.42	5.83	5.24	6.21	6.54	7.46	7.29	7.88	6.91
	2.35	2.14	2.13	2.24	2.18	2.03	2.17	2.30	1.96	2.11	2.33	1.76	1.88
Freq	8.0	6.1	8.8	9.5	9.8	10.3	4.8	3.5	5.8	7.2	10.2	16.1	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.63	2.60	2.12	2.08	2.33	2.12	1.98	2.30	2.46	2.76	2.73	2.97	2.53
	1.85	1.71	1.68	1.77	1.74	1.62	1.77	1.76	1.61	1.75	1.76	1.48	1.56
25	4.78	3.44	2.80	2.74	3.08	2.80	2.61	3.03	3.25	3.64	3.60	3.94	3.35
	1.96	1.81	1.77	1.87	1.84	1.72	1.88	1.87	1.71	1.86	1.87	1.56	1.64
50	5.78	4.16	3.39	3.32	3.72	3.39	3.16	3.67	3.94	4.41	4.36	4.79	4.07
	2.12	1.97	1.93	2.03	2.00	1.87	2.04	2.03	1.85	2.02	2.03	1.69	1.77
100	6.97	5.03	4.09	4.01	4.50	4.11	3.82	4.43	4.77	5.32	5.26	5.82	4.93
	2.42	2.25	2.20	2.32	2.28	2.12	2.33	2.31	2.11	2.30	2.31	1.93	1.98
200	8.52	6.14	5.00	4.90	5.49	5.02	4.66	5.41	5.83	6.50	6.43	7.10	6.02
	2.33	2.17	2.12	2.23	2.20	2.05	2.24	2.22	2.03	2.21	2.22	1.86	1.92
Freq	7.8	6.5	8.9	9.5	9.9	9.5	4.6	3.8	6.0	7.6	11.0	15.0	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	4.7	135	3.3	57	2.9	38	2.3	18
25	5.1	172	3.9	89	3.6	66	3.0	39
50	5.5	208	4.6	122	4.2	95	3.6	63
100	6.0	274	5.4	192	5.0	147	4.4	98
200	6.6	391	6.7	386	6.1	288	5.3	185

SZEGED

46°15'24" N 20°5'30" E UTM 34 E 429988 m N 5123064 m 82 m a.s.l.

Location is in the SE part of Hungary, situated E of Szeged, a medium-size town. The anemometer is situated at an airport. Except one building of the airport and a few trees, there are no other buildings or obstacles near the station.

Height of anemometer: 8.0 m a.g.l. *Period:* 1981010101 - 1985123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	1500	0.200	2500	0.400						
30	0.030	2000	0.400	0	0.0						
60	0.030	1000	0.400	0	0.0						
90	0.030	1200	0.400	0	0.0						
120	0.030	800	0.200	1600	0.400						
150	0.030	2000	0.400	0	0.0						
180	0.030	0	0.0	0	0.0						
210	0.030	0	0.0	0	0.0						
240	0.030	0	0.0	0	0.0						
270	0.030	0	0.0	0	0.0						
300	0.030	0	0.0	0	0.0						
330	0.030	1500	0.200	0	0.0						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	11.3	110	249	196	146	115	79	46	26	17	9	4	2	0	0	3.5	1.46
30	9.1	84	239	208	144	107	70	51	40	24	24	6	2	1	0	3.7	1.40
60	5.7	133	304	228	160	87	39	22	14	8	6	0	0	0	0	2.9	1.50
90	3.0	184	390	248	134	28	11	4	2	0	0	0	0	0	0	2.2	1.70
120	3.4	139	353	265	148	53	29	9	0	2	1	0	0	0	0	2.5	1.71
150	19.5	54	204	229	188	121	67	47	35	23	27	5	1	0	0	3.8	1.49
180	8.7	70	241	256	181	89	72	39	24	17	9	1	1	0	0	3.4	1.50
210	4.7	85	311	260	157	94	53	27	6	5	2	0	0	0	0	3.0	1.64
240	6.1	85	268	247	169	99	68	30	21	8	5	0	0	0	0	3.2	1.59
270	5.2	87	265	237	188	112	64	25	13	7	1	0	0	0	0	3.2	1.77
300	5.5	84	214	195	163	120	87	52	39	24	18	3	0	0	0	3.9	1.59
330	17.8	80	177	178	152	129	94	72	45	34	27	10	1	0	0	4.3	1.61
Total	100.0	87	240	219	164	108	70	44	29	19	16	4	1	0	0	3.5	1.46

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	3.1	3.2	3.5	3.3	2.6	2.4	1.9	1.9	2.0	2.5	3.0	3.4	2.7
1	3.0	3.3	3.6	3.2	2.5	2.4	1.8	1.9	1.8	2.4	2.9	3.4	2.7
2	3.1	3.3	3.4	3.3	2.5	2.3	1.8	1.9	1.8	2.4	2.9	3.4	2.7
3	3.1	3.3	3.4	3.2	2.5	2.3	1.8	1.9	1.9	2.4	3.0	3.5	2.7
4	3.1	3.3	3.5	3.2	2.6	2.3	1.9	1.9	1.9	2.4	3.0	3.7	2.7
5	3.1	3.3	3.5	3.2	2.6	2.2	1.8	2.0	1.9	2.4	3.0	3.7	2.7
6	3.1	3.4	3.6	3.2	2.7	2.5	2.0	1.9	1.9	2.4	3.0	3.6	2.8
7	3.0	3.3	3.6	3.6	3.4	3.0	2.5	2.2	2.0	2.3	3.0	3.6	3.0
8	3.1	3.5	4.1	4.3	4.0	3.4	2.8	2.5	2.6	2.7	3.0	3.8	3.3
9	3.2	3.7	4.7	4.7	4.3	3.6	3.1	2.7	2.9	3.2	3.2	3.7	3.6
10	3.5	4.2	5.0	5.0	4.6	3.7	3.3	2.9	3.1	3.5	3.6	4.0	3.9
11	3.9	4.4	5.3	5.2	4.7	3.8	3.4	3.0	3.2	3.8	3.9	4.2	4.1
12	4.1	4.5	5.3	5.2	4.7	3.8	3.5	3.0	3.3	4.0	4.1	4.2	4.1
13	4.1	4.7	5.2	5.2	4.6	3.9	3.6	3.0	3.3	4.0	4.2	4.2	4.2
14	4.1	4.6	5.1	5.1	4.6	4.0	3.7	3.0	3.3	3.9	4.2	4.1	4.2
15	4.0	4.5	5.0	5.0	4.5	4.0	3.7	3.1	3.3	3.7	3.7	3.9	4.0
16	3.6	4.2	4.8	4.9	4.5	4.1	3.6	3.1	3.0	3.1	3.1	3.7	3.8
17	3.4	3.7	4.4	4.8	4.2	4.0	3.6	2.9	2.6	2.7	2.8	3.6	3.6
18	3.4	3.4	3.8	4.1	3.7	3.7	3.0	2.4	2.0	2.6	2.8	3.6	3.2
19	3.2	3.2	3.5	3.6	3.1	3.0	2.4	2.1	1.9	2.4	2.8	3.6	2.9
20	3.2	3.3	3.6	3.2	2.8	2.5	2.0	2.0	1.9	2.5	2.9	3.6	2.8
21	3.2	3.2	3.6	3.3	2.7	2.4	1.9	2.0	2.0	2.5	2.8	3.5	2.8
22	3.1	3.2	3.6	3.3	2.6	2.3	1.8	2.0	2.0	2.5	2.9	3.5	2.7
23	3.1	3.3	3.5	3.3	2.6	2.3	1.8	1.9	1.9	2.5	2.9	3.4	2.7
Day	3.4	3.7	4.1	4.0	3.5	3.1	2.6	2.4	2.4	2.9	3.2	3.7	3.2

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.79	6.17	5.49	4.38	4.19	6.34	5.72	4.71	4.72	4.81	5.52	7.51	5.91
	1.81	1.67	1.65	1.80	2.01	1.77	1.76	1.83	1.89	2.00	1.88	1.87	1.69
25	7.44	6.77	6.03	4.80	4.58	6.95	6.27	5.16	5.18	5.26	6.05	8.21	6.48
	1.87	1.72	1.70	1.86	2.08	1.83	1.82	1.88	1.95	2.06	1.94	1.92	1.74
50	8.00	7.28	6.48	5.16	4.92	7.47	6.75	5.54	5.56	5.66	6.50	8.81	6.97
	1.91	1.76	1.75	1.91	2.13	1.88	1.87	1.93	2.00	2.12	1.99	1.98	1.78
100	8.67	7.88	7.01	5.59	5.34	8.09	7.31	6.01	6.03	6.13	7.04	9.51	7.54
	1.85	1.71	1.69	1.85	2.06	1.82	1.81	1.87	1.94	2.05	1.92	1.92	1.73
200	9.56	8.67	7.72	6.16	5.89	8.92	8.05	6.62	6.65	6.77	7.77	10.41	8.30
	1.76	1.62	1.60	1.75	1.96	1.73	1.71	1.77	1.83	1.94	1.82	1.83	1.65
Freq	13.5	10.0	6.9	4.0	3.3	13.7	12.6	6.1	5.6	5.5	5.4	13.3	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.38	4.26	3.58	2.87	3.04	4.41	3.71	3.16	3.35	3.37	4.00	5.29	4.09
	1.48	1.39	1.46	1.66	1.73	1.51	1.51	1.58	1.60	1.72	1.58	1.61	1.45
25	5.28	5.15	4.32	3.45	3.65	5.32	4.47	3.81	4.03	4.04	4.81	6.32	4.92
	1.60	1.49	1.57	1.79	1.86	1.63	1.62	1.71	1.72	1.85	1.71	1.72	1.55
50	6.16	6.03	5.05	4.00	4.23	6.20	5.21	4.43	4.69	4.69	5.60	7.28	5.74
	1.79	1.68	1.76	2.02	2.09	1.83	1.82	1.92	1.93	2.08	1.92	1.89	1.72
100	7.33	7.18	6.01	4.76	5.03	7.38	6.20	5.27	5.57	5.57	6.66	8.54	6.81
	1.91	1.78	1.88	2.15	2.22	1.94	1.94	2.05	2.06	2.22	2.04	2.02	1.83
200	9.10	8.91	7.46	5.91	6.25	9.16	7.70	6.54	6.93	6.93	8.27	10.39	8.42
	1.82	1.71	1.79	2.05	2.13	1.85	1.85	1.95	1.96	2.12	1.95	1.94	1.76
Freq	12.0	9.4	6.1	3.3	3.3	17.8	9.9	5.1	6.0	5.3	5.5	16.3	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.71	3.72	3.03	2.37	2.66	3.85	3.13	2.77	2.99	2.98	3.55	4.63	3.57
	1.47	1.39	1.48	1.70	1.71	1.52	1.53	1.67	1.64	1.77	1.60	1.62	1.46
25	4.62	4.63	3.77	2.94	3.30	4.78	3.88	3.44	3.70	3.69	4.40	5.71	4.43
	1.57	1.48	1.58	1.82	1.83	1.63	1.63	1.79	1.76	1.89	1.71	1.71	1.54
50	5.46	5.49	4.45	3.45	3.88	5.64	4.59	4.05	4.36	4.34	5.19	6.67	5.23
	1.74	1.64	1.75	2.01	2.02	1.79	1.81	1.98	1.94	2.10	1.88	1.86	1.69
100	6.54	6.59	5.33	4.12	4.63	6.75	5.49	4.83	5.21	5.17	6.20	7.87	6.25
	1.91	1.80	1.92	2.21	2.22	1.97	1.98	2.17	2.13	2.30	2.07	2.04	1.84
200	8.05	8.11	6.56	5.08	5.71	8.32	6.76	5.96	6.42	6.38	7.65	9.53	7.67
	1.83	1.72	1.84	2.12	2.12	1.89	1.90	2.08	2.04	2.20	1.98	1.96	1.78
Freq	11.4	9.2	5.7	3.0	3.4	19.3	8.9	4.8	6.1	5.2	5.5	17.5	

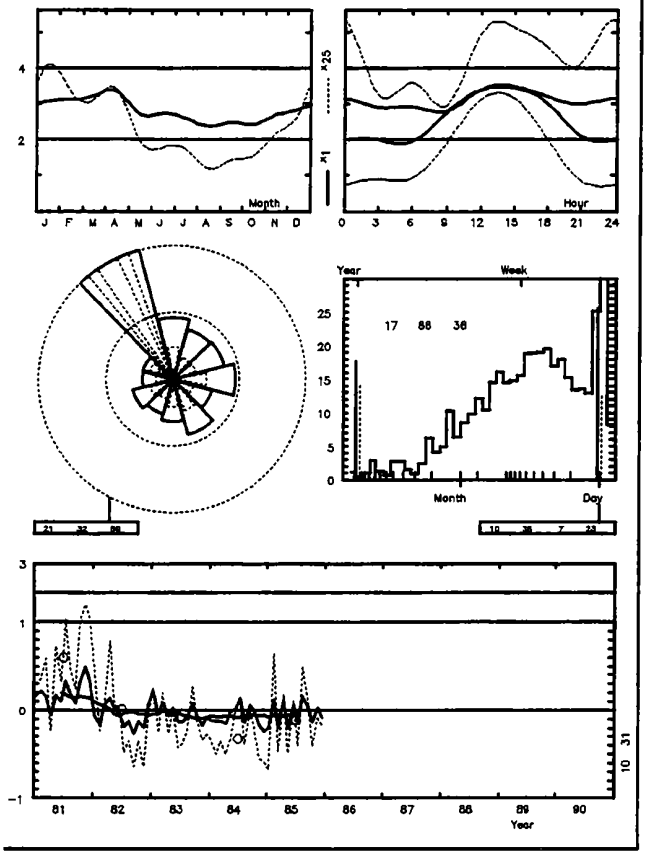
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.95	2.93	2.37	1.95	2.47	3.02	2.48	2.17	2.35	2.40	2.99	3.60	2.83
	1.49	1.40	1.51	1.80	1.51	1.52	1.58	1.62	1.65	1.71	1.56	1.62	1.47
25	3.90	3.89	3.14	2.57	3.27	4.00	3.28	2.87	3.10	3.16	3.96	4.74	3.74
	1.58	1.49	1.60	1.91	1.60	1.62	1.68	1.71	1.74	1.81	1.65	1.70	1.55
50	4.74	4.74	3.82	3.11	3.97	4.86	3.98	3.47	3.76	3.83	4.80	5.71	4.54
	1.72	1.61	1.73	2.08	1.73	1.75	1.82	1.86	1.89	1.97	1.79	1.82	1.67
100	5.76	5.77	4.64	3.75	4.82	5.90	4.82	4.21	4.55	4.63	5.82	6.87	5.52
	1.96	1.83	1.97	2.37	1.97	1.99	2.08	2.12	2.15	2.24	2.04	2.06	1.88
200	7.02	7.03	5.66	4.58	5.88	7.20	5.88	5.13	5.56	5.66	7.10	8.29	6.71
	1.88	1.77	1.90	2.28	1.90	1.92	2.00	2.04	2.08	2.16	1.97	2.00	1.83
Freq	11.1	8.7	5.4	3.0	5.3	18.3	8.1	4.9	6.0	5.2	6.7	17.1	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	5.3	208	3.7	89	3.2	59	2.6	28
25	5.8	263	4.4	137	4.0	101	3.4	60
50	6.2	316	5.1	185	4.7	144	4.1	96
100	6.7	417	6.1	286	5.6	218	4.9	146
200	7.4	595	7.5	567	6.8	422	6.0	273

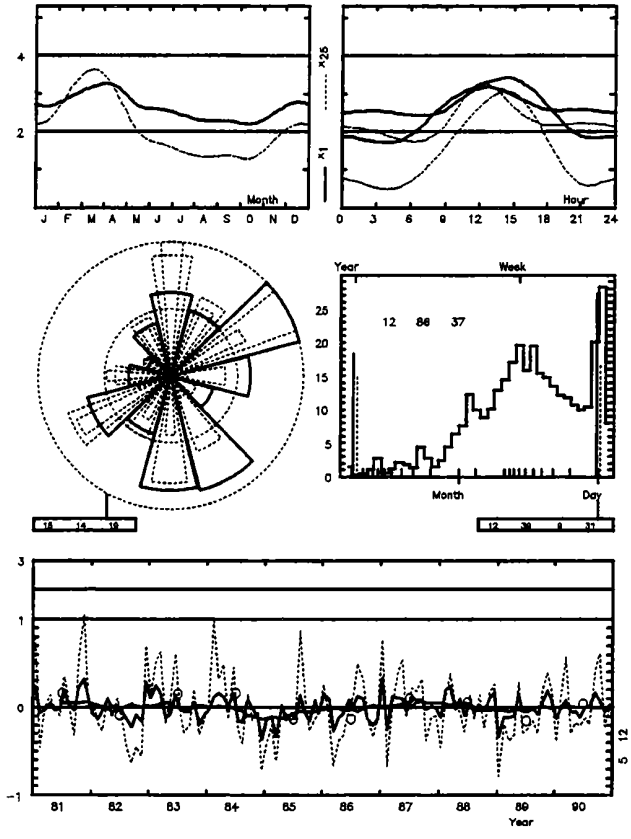
Budapest 1981–85

10.3 m agl, mean 2.8 m/s, st dev 1.8 m/s, cube 59. m^3/s^3



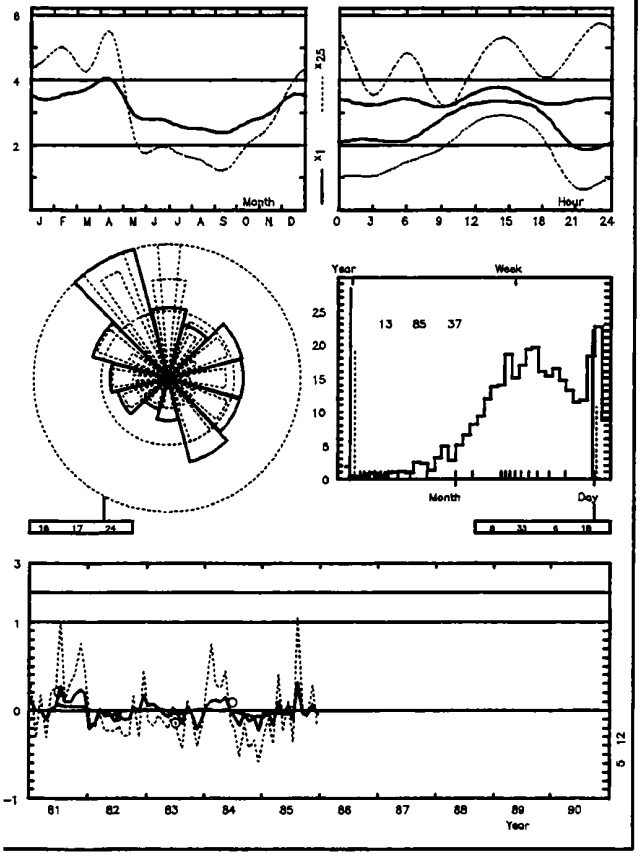
Debrecen 1981–90

10.0 m agl, mean 2.6 m/s, st dev 1.8 m/s, cube 53. m^3/s^3



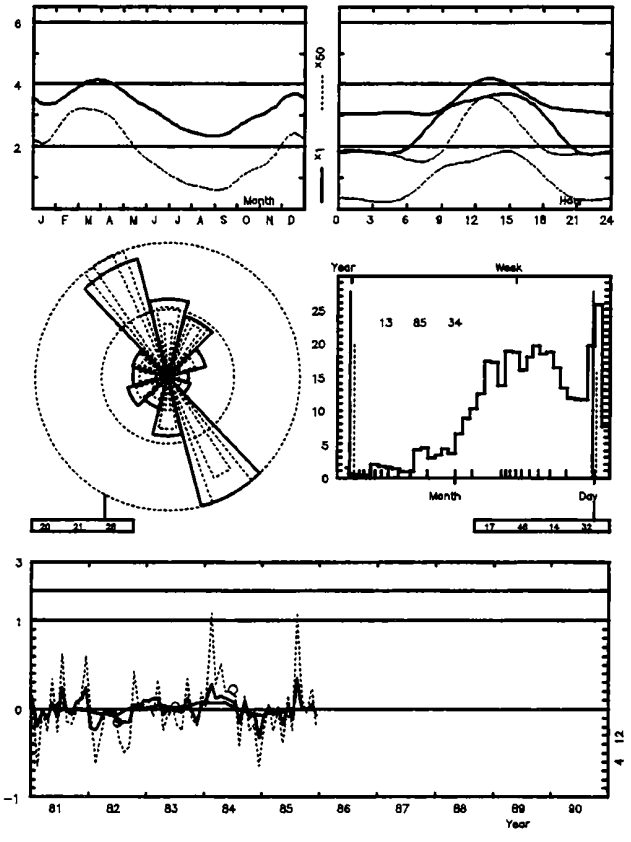
Pecs 1981–85

9.6 m agl, mean 3.1 m/s, st dev 2.0 m/s, cube 76. m^3/s^3



Szeged 1981–85

8.0 m agl, mean 3.2 m/s, st dev 2.1 m/s, cube 91. m^3/s^3



CHOPOK

48°56'38" N 19°35'32" E UTM 34 E396913 m N 5422281 m 2008 m a.s.l.

Located on the E-W orientated ridge of Low Tatras Mountains. The summit of Chopok (2024 m) is situated to the SE of the station at a distance of 100 m. The terrain is rather complex in all sectors. The ridge is covered by grass and stones, the forests reach up to 1400-1500 m altitude. The anemometer is situated on the roof of an observatory building.

Height of anemometer: 14.0 m a.g.l. *Period:* 1990110101 - 1993083124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.100	1500	0.700								
30	0.100	1200	0.700								
60	0.100	800	0.600								
90	0.100	0	0.0								
120	0.100	0	0.0								
150	0.100	0	0.0								
180	0.100	0	0.0								
210	0.100	0	0.0								
240	0.100	0	0.0								
270	0.100	0	0.0								
300	0.100	0	0.0								
330	0.100	0	0.0								

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	9.8	44	90	8	113	4	70	130	7	113	60	97	73	90	101	10.0	1.56
30	5.6	71	142	11	169	13	94	178	6	134	38	69	42	25	7	7.2	1.84
60	3.0	118	170	26	227	22	103	148	3	84	24	34	27	11	1	5.4	1.49
90	2.1	166	238	8	219	21	124	122	4	51	4	25	13	6	0	4.1	1.28
120	2.9	131	180	8	265	30	123	142	4	68	9	10	18	10	1	4.6	1.37
150	5.1	76	145	15	162	15	120	161	8	110	48	51	46	23	21	7.0	1.57
180	18.9	18	69	5	90	12	76	136	10	109	58	109	97	106	104	11.3	1.98
210	8.4	43	107	13	116	11	80	151	9	119	60	113	81	61	33	9.1	1.89
240	4.0	81	146	10	181	5	89	187	10	105	30	69	45	28	13	7.2	1.72
270	4.5	76	183	9	201	9	81	160	8	83	25	75	39	34	18	6.9	1.49
300	9.1	37	134	14	165	10	105	183	14	143	48	69	35	31	12	7.4	1.73
330	26.5	18	64	5	95	7	80	143	11	138	61	118	92	81	86	10.5	1.77
Total	100.0	45	105	9	131	10	87	150	9	118	50	92	70	64	59	9.2	1.67

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	10.4	9.2	8.3	6.4	7.7	7.2	6.4	7.0	8.6	8.3	9.8	10.7	8.3
1	10.7	9.2	8.4	6.6	7.6	7.4	6.3	6.7	8.7	8.8	9.9	10.6	8.4
2	10.8	9.1	8.6	7.0	7.9	7.3	6.3	6.5	8.6	8.6	9.8	10.6	8.4
3	11.2	9.3	8.3	7.2	7.7	7.2	6.3	6.4	8.8	8.8	9.6	10.7	8.4
4	11.5	9.2	8.5	7.2	7.9	7.2	6.3	6.2	8.8	8.8	9.1	11.0	8.5
5	11.2	9.4	8.6	7.3	7.8	7.0	6.2	6.3	8.7	8.9	9.3	11.1	8.4
6	10.9	9.3	8.6	7.4	7.5	7.0	6.4	6.5	8.3	9.0	9.3	10.7	8.4
7	10.6	9.3	8.2	7.0	7.1	6.4	5.9	6.0	8.3	8.8	9.2	10.9	8.1
8	10.6	9.4	7.9	6.6	6.7	6.2	5.5	5.5	7.9	8.6	9.3	10.5	7.9
9	10.4	9.3	7.4	6.6	6.5	5.8	5.2	5.0	7.8	8.5	9.1	10.4	7.6
10	10.4	9.1	7.3	6.4	6.0	5.5	5.4	4.5	7.5	8.3	8.8	10.0	7.4
11	10.1	9.1	7.0	6.0	6.0	5.3	5.4	4.6	6.9	8.0	8.9	10.0	7.3
12	9.8	8.9	6.6	5.8	5.9	5.3	5.5	4.6	6.7	7.7	8.9	10.1	7.1
13	9.9	8.0	6.4	5.8	6.1	5.7	5.5	4.8	6.6	7.3	9.0	10.1	7.1
14	9.6	8.6	6.5	5.7	6.2	5.9	5.4	5.0	6.6	7.4	8.8	10.1	7.1
15	9.7	8.6	6.4	5.6	6.1	5.9	5.4	5.1	6.9	7.2	9.1	10.3	7.2
16	9.7	8.7	6.7	5.8	6.1	6.0	5.3	5.0	7.1	7.2	9.4	10.5	7.3
17	10.2	9.0	6.8	5.8	6.0	5.9	5.7	5.4	7.1	7.4	9.6	10.9	7.5
18	10.5	9.5	7.3	5.9	6.3	5.9	6.1	5.8	7.9	7.8	9.7	10.9	7.8
19	10.5	9.2	7.5	6.4	7.0	6.2	6.0	6.1	8.0	8.4	9.9	10.7	8.0
20	10.9	8.9	7.6	6.4	7.2	6.6	6.2	6.2	8.4	8.5	9.8	10.7	8.1
21	10.6	9.3	7.9	6.3	7.7	7.2	6.4	6.3	8.4	8.4	9.8	10.7	8.2
22	10.5	9.1	8.1	6.5	7.6	7.3	6.3	6.5	8.4	8.4	10.1	10.5	8.3
23	10.3	9.2	8.3	6.3	7.8	7.2	6.2	6.9	8.7	8.4	9.7	10.9	8.3
Day	10.5	9.1	7.6	6.4	6.9	6.4	5.9	5.8	7.9	8.2	9.4	10.6	7.9

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	16.23	13.35	10.82	7.54	6.97	10.18	16.18	14.50	11.03	10.43	11.05	15.03	13.66
	1.69	1.47	1.74	1.44	1.48	1.63	1.88	1.78	1.55	1.60	1.77	1.72	1.60
25	17.62	14.50	11.77	8.23	7.61	11.08	17.57	15.75	11.99	11.35	12.02	16.33	14.84
	1.70	1.47	1.76	1.46	1.51	1.64	1.89	1.79	1.56	1.61	1.79	1.73	1.61
50	18.68	15.38	12.53	8.80	8.16	11.79	18.64	16.71	12.75	12.07	12.79	17.32	15.75
	1.70	1.48	1.78	1.49	1.55	1.66	1.90	1.80	1.58	1.62	1.81	1.73	1.62
100	19.78	16.29	13.32	9.39	8.73	12.54	19.74	17.71	13.53	12.83	13.60	18.34	16.71
	1.71	1.49	1.78	1.48	1.52	1.66	1.91	1.81	1.58	1.63	1.81	1.74	1.63
200	20.90	17.22	14.21	10.07	9.43	13.37	20.88	18.75	14.37	13.65	14.50	19.41	17.71
	1.71	1.48	1.75	1.44	1.47	1.63	1.90	1.79	1.56	1.60	1.78	1.73	1.62
Freq	14.9	6.8	3.8	2.4	2.6	4.4	14.8	11.5	5.3	4.3	7.7	21.3	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	11.99	8.92	7.12	4.88	5.12	7.39	11.94	10.01	7.73	7.24	7.85	11.10	9.84
	1.61	1.52	1.55	1.33	1.43	1.52	1.90	1.79	1.57	1.45	1.68	1.72	1.57
25	13.91	10.38	8.33	5.81	6.10	8.64	13.87	11.64	9.02	8.46	9.18	12.90	11.46
	1.62	1.53	1.58	1.39	1.50	1.55	1.92	1.81	1.60	1.47	1.72	1.73	1.59
50	15.39	11.54	9.34	6.65	6.99	9.66	15.36	12.93	10.08	9.46	10.27	14.29	12.73
	1.63	1.56	1.64	1.49	1.62	1.60	1.94	1.84	1.64	1.51	1.77	1.75	1.61
100	16.92	12.79	10.51	7.70	8.11	10.82	16.93	14.32	11.28	10.59	11.50	15.76	14.12
	1.65	1.61	1.75	1.59	1.73	1.69	1.98	1.90	1.73	1.59	1.88	1.79	1.65
200	18.54	14.15	11.89	9.07	9.64	12.17	18.62	15.86	12.65	11.86	12.97	17.34	15.66
	1.67	1.62	1.71	1.54	1.67	1.66	2.00	1.91	1.71	1.57	1.85	1.81	1.68
Freq	11.4	6.0	3.3	2.2	2.8	4.9	17.6	9.4	4.5	4.5	8.6	24.8	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	10.68	7.60	5.87	4.11	4.30	6.46	10.44	8.37	6.58	6.22	6.86	9.87	8.60
	1.64	1.64	1.48	1.34	1.36	1.53	1.95	1.77	1.60	1.43	1.72	1.81	1.60
25	12.83	9.17	7.12	5.06	5.28	7.81	12.54	10.09	7.96	7.51	8.30	11.87	10.37
	1.65	1.67	1.51	1.40	1.42	1.55	1.96	1.79	1.63	1.45	1.75	1.83	1.62
50	14.48	10.40	8.14	5.92	6.15	8.90	14.17	11.43	9.07	8.56	9.46	13.41	11.75
	1.66	1.70	1.56	1.51	1.51	1.60	1.98	1.83	1.67	1.49	1.80	1.85	1.64
100	16.17	11.73	9.28	6.97	7.21	10.10	15.86	12.86	10.30	9.71	10.74	15.01	13.21
	1.68	1.76	1.65	1.65	1.65	1.67	2.02	1.88	1.76	1.55	1.90	1.88	1.68
200	17.94	13.19	10.60	8.30	8.52	11.45	17.65	14.43	11.70	10.99	12.22	16.72	14.83
	1.71	1.77	1.65	1.59	1.60	1.68	2.05	1.91	1.76	1.56	1.90	1.92	1.72
Freq	10.2	5.7	3.1	2.2	2.9	5.0	18.5	8.7	4.1	4.5	9.0	26.0	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.34	5.96	4.46	3.05	3.53	5.19	8.09	6.45	5.03	4.89	5.44	7.76	6.67
	1.65	1.82	1.48	1.29	1.35	1.36	1.94	1.79	1.58	1.46	1.52	1.83	1.59
25	10.73	7.69	5.79	4.02	4.61	6.70	10.42	8.32	6.52	6.33	7.03	10.00	8.60
	1.66	1.85	1.51	1.34	1.39	1.37	1.95	1.81	1.60	1.48	1.54	1.85	1.60
50	12.56	9.06	6.86	4.85	5.52	7.88	12.20	9.77	7.69	7.47	8.27	11.71	10.10
	1.67	1.88	1.55	1.42	1.46	1.39	1.97	1.84	1.64	1.51	1.56	1.86	1.62
100	14.42	10.50	8.02	5.84	6.56	9.12	14.03	11.29	8.96	8.68	9.58	13.47	11.66
	1.69	1.95	1.63	1.57	1.57	1.42	2.00	1.89	1.71	1.56	1.61	1.89	1.66
200	16.34	12.07	9.32	6.97	7.73	10.45	15.94	12.91	10.35	10.01	11.00	15.31	13.32
	1.71	2.00	1.66	1.55	1.58	1.46	2.05	1.94	1.75	1.60	1.65	1.94	1.70
Freq	9.6	5.4	3.0	2.2	3.1	6.1	18.2	8.1	4.0	4.8	10.3	25.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	12.2	2780	8.8	1079	7.7	695	6.0	327
25	13.3	3552	10.3	1668	9.3	1196	7.7	694
50	14.1	4216	11.4	2235	10.5	1708	9.0	1102
100	15.0	4970	12.6	2921	11.8	2338	10.4	1640
200	15.9	5965	14.0	3889	13.2	3194	11.9	2356

HURBANOVO

47°52'24" N 18°11'40" E UTM 34 E 290205 m N 5306136 m 115 m a.s.l.

Located in the southern part of the country in the lowlands. The anemometer is situated on top of the observatory building tower in a high of 27 m above terrain. The observatory is in the centre of the town surrounded by houses and trees.

Height of anemometer: 27.0 m a.g.l. *Period:* 1981010101 - 1988123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.400	1500	0.146								
30	0.400	2250	0.100								
60	0.400	1250	0.146								
90	0.400	1000	0.100								
120	0.400	1000	0.100								
150	0.400	800	0.100								
180	0.400	1200	0.100								
210	0.600	1500	0.146								
240	0.400	1200	0.146								
270	0.400	800	0.100								
300	0.600	1500	0.100								
330	0.400	250	0.146								

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.2	195	369	183	114	58	42	24	10	4	0	0	0	0	0	2.4	1.31
30	3.1	244	526	161	52	14	2	1	0	0	0	0	0	0	0	1.8	1.83
60	2.9	172	503	219	82	18	5	1	0	0	0	0	0	0	0	2.0	1.81
90	3.9	197	376	219	138	43	19	7	0	0	0	0	0	0	0	2.2	1.60
120	18.0	94	270	251	226	86	50	18	3	1	0	0	0	0	0	3.1	2.02
150	10.9	108	365	225	168	66	49	17	3	0	0	0	0	0	0	2.7	1.69
180	6.0	127	387	202	149	68	52	13	2	1	0	0	0	0	0	2.6	1.57
210	7.0	210	460	157	91	38	29	12	3	1	0	0	0	0	0	1.9	1.23
240	4.9	221	464	181	96	26	10	2	0	0	0	0	0	0	0	1.9	1.59
270	6.9	128	370	232	159	57	36	13	5	1	0	0	0	0	0	2.6	1.64
300	24.7	67	234	215	217	110	88	47	15	7	0	0	0	0	0	3.5	1.93
330	8.6	108	240	163	168	102	110	70	27	14	0	0	0	0	0	3.7	1.76
Total	100.0	123	327	210	171	75	56	26	8	3	0	0	0	0	0	2.9	1.62

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.2	2.2	2.2	2.3	2.0	1.7	1.7	1.7	1.8	1.9	2.3	2.4	2.0
1	2.2	2.2	2.2	2.3	1.9	1.7	1.6	1.6	1.7	1.9	2.2	2.4	2.0
2	2.2	2.2	2.2	2.2	1.9	1.7	1.6	1.6	1.6	1.9	2.2	2.4	2.0
3	2.3	2.2	2.1	2.1	1.9	1.7	1.6	1.5	1.6	1.8	2.1	2.4	1.9
4	2.2	2.1	2.1	2.1	1.9	1.6	1.5	1.4	1.5	1.8	2.1	2.4	1.9
5	2.2	2.1	2.1	2.1	1.8	1.6	1.4	1.4	1.5	1.8	2.0	2.4	1.9
6	2.2	2.2	2.1	2.1	1.8	1.5	1.3	1.4	1.5	1.8	2.1	2.4	1.9
7	2.1	2.1	2.1	2.0	1.8	1.7	1.4	1.4	1.4	1.7	2.1	2.4	1.9
8	2.2	2.2	2.1	2.3	2.1	2.0	1.8	1.7	1.4	1.7	2.0	2.4	2.0
9	2.1	2.2	2.4	2.7	2.3	2.2	2.0	1.9	1.8	1.9	2.1	2.3	2.2
10	2.1	2.3	2.6	2.9	2.4	2.4	2.3	2.1	2.0	2.2	2.3	2.4	2.3
11	2.3	2.4	2.9	3.1	2.6	2.5	2.5	2.3	2.3	2.5	2.5	2.6	2.5
12	2.4	2.5	3.0	3.3	2.7	2.7	2.6	2.5	2.5	2.7	2.8	2.7	2.7
13	2.5	2.5	3.1	3.3	2.8	2.8	2.7	2.6	2.6	2.7	2.8	2.8	2.8
14	2.6	2.6	3.1	3.4	2.9	2.7	2.8	2.6	2.7	2.8	2.9	2.8	2.8
15	2.6	2.6	3.1	3.4	2.9	2.8	2.8	2.7	2.6	2.6	2.8	2.7	2.8
16	2.4	2.5	3.0	3.3	2.9	2.8	2.7	2.6	2.5	2.5	2.5	2.6	2.7
17	2.3	2.4	2.7	3.2	2.8	2.7	2.7	2.5	2.3	2.2	2.4	2.5	2.6
18	2.3	2.3	2.4	3.0	2.6	2.6	2.5	2.2	1.9	2.0	2.4	2.5	2.4
19	2.3	2.2	2.3	2.6	2.3	2.2	2.2	1.8	1.7	2.0	2.4	2.4	2.2
20	2.2	2.2	2.2	2.5	2.0	1.9	1.8	1.8	1.8	2.0	2.3	2.4	2.1
21	2.2	2.1	2.2	2.4	2.0	1.8	1.7	1.7	1.8	2.0	2.4	2.5	2.1
22	2.3	2.2	2.2	2.4	2.0	1.8	1.7	1.7	1.8	2.0	2.3	2.4	2.1
23	2.2	2.2	2.2	2.3	2.0	1.8	1.7	1.7	1.7	2.0	2.3	2.4	2.1
Day	2.3	2.3	2.4	2.6	2.3	2.1	2.0	1.9	1.9	2.1	2.3	2.5	2.2

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.65	3.09	4.23	3.77	5.76	3.90	3.76	3.13	2.97	3.81	7.10	5.53	4.99
	1.43	1.92	1.92	1.76	2.20	1.83	1.72	1.33	1.79	1.79	2.11	1.94	1.65
25	4.01	3.38	4.64	4.14	6.31	4.27	4.13	3.44	3.25	4.18	7.77	6.05	5.47
	1.48	1.98	1.98	1.82	2.27	1.89	1.77	1.37	1.85	1.84	2.18	2.00	1.69
50	4.32	3.64	4.98	4.45	6.77	4.59	4.44	3.72	3.50	4.50	8.35	6.51	5.89
	1.51	2.03	2.03	1.87	2.33	1.94	1.82	1.40	1.89	1.89	2.24	2.05	1.72
100	4.66	3.94	5.40	4.82	7.35	4.97	4.81	4.01	3.79	4.87	9.05	7.05	6.37
	1.47	1.96	1.97	1.81	2.25	1.88	1.76	1.36	1.83	1.83	2.17	1.99	1.68
200	5.12	4.35	5.96	5.31	8.12	5.48	5.30	4.39	4.18	5.37	10.00	7.78	7.02
	1.39	1.86	1.87	1.71	2.13	1.78	1.67	1.29	1.74	1.74	2.05	1.88	1.61
Freq	3.2	3.1	2.9	3.9	18.0	10.8	6.0	7.0	4.9	6.9	24.7	8.5	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.48	2.09	2.88	2.62	3.92	2.65	2.56	2.28	1.95	2.60	4.80	3.74	3.38
	1.24	1.56	1.62	1.54	1.84	1.56	1.46	1.25	1.41	1.52	1.76	1.61	1.45
25	3.02	2.52	3.47	3.15	4.70	3.19	3.09	2.77	2.36	3.14	5.76	4.50	4.07
	1.33	1.69	1.75	1.66	1.98	1.68	1.58	1.34	1.52	1.63	1.90	1.74	1.54
50	3.55	2.93	4.03	3.67	5.45	3.71	3.61	3.26	2.76	3.66	6.68	5.23	4.75
	1.49	1.89	1.97	1.87	2.23	1.88	1.77	1.51	1.71	1.84	2.14	1.96	1.69
100	4.25	3.49	4.79	4.37	6.46	4.41	4.30	3.89	3.28	4.35	7.93	6.21	5.66
	1.59	2.02	2.10	1.99	2.37	2.01	1.88	1.60	1.81	1.96	2.28	2.08	1.77
200	5.26	4.33	5.95	5.43	8.04	5.48	5.34	4.81	4.07	5.40	9.86	7.72	7.02
	1.52	1.92	2.00	1.90	2.27	1.92	1.80	1.53	1.73	1.87	2.18	1.99	1.71
Freq	3.2	3.1	2.9	3.9	18.0	10.8	6.0	7.0	4.9	6.9	24.7	8.5	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.11	1.82	2.59	2.19	3.40	2.31	2.21	1.81	1.79	2.25	4.15	3.24	2.92
	1.21	1.57	1.74	1.48	1.84	1.54	1.44	1.15	1.53	1.50	1.76	1.61	1.45
25	2.64	2.25	3.21	2.73	4.20	2.87	2.76	2.27	2.22	2.80	5.13	4.02	3.63
	1.29	1.68	1.87	1.58	1.97	1.65	1.53	1.23	1.64	1.60	1.89	1.73	1.53
50	3.15	2.66	3.77	3.22	4.94	3.38	3.26	2.71	2.62	3.31	6.04	4.73	4.29
	1.42	1.85	2.06	1.74	2.18	1.82	1.69	1.35	1.81	1.77	2.09	1.91	1.65
100	3.80	3.18	4.49	3.86	5.88	4.05	3.91	3.28	3.14	3.96	7.20	5.65	5.14
	1.56	2.04	2.27	1.91	2.39	2.00	1.86	1.48	1.99	1.94	2.30	2.10	1.78
200	4.67	3.92	5.54	4.75	7.26	4.99	4.81	4.02	3.86	4.88	8.88	6.97	6.32
	1.49	1.95	2.17	1.83	2.29	1.92	1.78	1.41	1.90	1.86	2.20	2.01	1.72
Freq	3.2	3.1	2.9	3.9	18.0	10.8	6.0	7.0	4.9	6.9	24.7	8.5	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.77	1.53	1.94	1.82	2.67	1.85	1.82	1.67	1.47	1.82	3.24	2.54	2.33
	1.33	1.76	1.62	1.60	1.84	1.63	1.57	1.38	1.66	1.60	1.76	1.65	1.49
25	2.35	2.02	2.57	2.40	3.52	2.45	2.41	2.22	1.94	2.41	4.28	3.36	3.08
	1.40	1.86	1.72	1.69	1.95	1.73	1.66	1.46	1.76	1.70	1.87	1.74	1.56
50	2.87	2.44	3.12	2.91	4.25	2.97	2.92	2.71	2.35	2.93	5.17	4.07	3.74
	1.52	2.02	1.87	1.83	2.12	1.87	1.81	1.58	1.91	1.84	2.03	1.89	1.67
100	3.51	2.95	3.77	3.53	5.13	3.60	3.54	3.30	2.84	3.54	6.25	4.92	4.55
	1.73	2.30	2.13	2.09	2.41	2.13	2.06	1.80	2.17	2.10	2.31	2.15	1.85
200	4.27	3.60	4.61	4.31	6.27	4.39	4.32	4.02	3.47	4.32	7.63	6.01	5.54
	1.66	2.22	2.05	2.01	2.32	2.06	1.98	1.73	2.09	2.02	2.23	2.08	1.80
Freq	3.2	3.1	2.9	3.9	18.0	10.8	6.0	7.0	4.9	6.9	24.7	8.5	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.5	129	3.1	50	2.6	32	2.1	15
25	4.9	164	3.7	78	3.3	56	2.8	33
50	5.2	200	4.2	107	3.8	82	3.3	53
100	5.7	262	5.0	170	4.6	127	4.0	83
200	6.3	374	6.3	341	5.6	248	4.9	157

KOSICE

48°40'20" N 21°13'21" E UTM 34 E 504111 m N 5391127 m 230 m a.s.l.

Location is in the eastern part of the country in a basin. The anemograph is positioned at the airport approximately 1 km to the south of the Kosice city centre. Northwest and southeast of the station there are mountains with altitudes of 800-1000 m. In NE direction the hills are lower and in S-SW direction lies a plain.

Height of anemometer: 13.7 m a.g.l. *Period:* 1981010101 - 1990123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	1600	0.113	3200	0.400						
30	0.030	1800	0.162	3600	0.292						
60	0.030	1300	0.162	4500	0.077						
90	0.030	1800	0.113	0	0.0						
120	0.030	2400	0.113	0	0.0						
150	0.030	3500	0.086	0	0.0						
180	0.030	2900	0.163	7500	0.042						
210	0.030	3000	0.163	9000	0.042						
240	0.030	2300	0.113	0	0.0						
270	0.030	1000	0.113	0	0.0						
300	0.030	1800	0.292	0	0.0						
330	0.030	2000	0.292	0	0.0						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	34.7	67	136	129	153	82	93	95	61	64	70	34	13	5	0	5.6	1.62
30	6.4	130	199	140	163	99	98	69	32	28	20	11	6	3	0	4.1	1.41
60	1.6	313	297	191	127	46	19	4	1	1	0	0	0	1	0	2.1	1.35
90	1.6	399	360	131	82	15	9	1	1	1	0	1	0	0	0	1.7	1.31
120	2.9	356	430	126	60	18	10	0	0	0	0	0	0	0	0	1.7	1.51
150	4.4	289	433	159	81	24	12	2	0	0	0	0	0	0	0	1.8	1.52
180	13.2	127	260	182	174	92	80	46	19	14	5	1	0	0	0	3.3	1.58
210	14.3	117	226	176	202	119	88	44	16	7	3	1	0	0	0	3.6	1.85
240	4.3	260	319	147	129	54	44	23	12	7	4	0	0	0	0	2.3	1.21
270	2.1	409	397	102	49	22	14	3	2	2	1	0	0	0	0	1.6	1.21
300	2.3	411	379	94	49	23	12	11	4	8	8	1	0	0	0	1.6	0.95
330	12.3	186	330	213	126	38	31	24	15	16	13	4	2	1	0	2.5	1.11
Total	100.0	151	239	155	147	74	69	54	31	29	29	13	5	2	0	3.6	1.23

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.8	3.5	3.4	3.7	3.2	2.7	2.5	2.6	2.6	2.7	2.8	2.8	2.9
1	2.7	3.5	3.4	3.6	3.2	2.7	2.4	2.6	2.6	2.7	2.7	2.9	2.9
2	2.8	3.4	3.4	3.5	3.1	2.7	2.4	2.5	2.4	2.6	2.7	2.9	2.9
3	2.8	3.3	3.4	3.5	3.2	2.6	2.3	2.4	2.4	2.6	2.6	2.9	2.8
4	2.8	3.3	3.3	3.4	3.2	2.5	2.3	2.4	2.4	2.6	2.6	2.9	2.8
5	2.7	3.2	3.3	3.5	3.1	2.4	2.2	2.5	2.3	2.6	2.6	2.8	2.8
6	2.7	3.3	3.4	3.5	3.1	2.5	2.3	2.4	2.3	2.6	2.6	2.9	2.8
7	2.7	3.4	3.3	3.7	3.4	2.9	2.8	2.5	2.3	2.5	2.5	2.9	2.9
8	2.8	3.4	3.4	4.1	4.0	3.2	3.3	3.0	2.6	2.5	2.5	2.9	3.1
9	2.9	3.6	3.7	4.5	4.2	3.5	3.5	3.2	3.0	2.8	2.6	3.1	3.4
10	2.8	3.8	4.1	4.8	4.3	3.9	3.9	3.6	3.4	3.2	2.8	3.0	3.6
11	3.0	4.0	4.3	5.0	4.5	4.1	4.1	3.9	3.8	3.4	3.1	3.1	3.9
12	3.2	4.3	4.6	5.3	4.8	4.4	4.2	4.2	4.1	3.7	3.3	3.2	4.1
13	3.3	4.3	4.8	5.4	4.8	4.5	4.2	4.3	4.3	3.9	3.4	3.4	4.2
14	3.3	4.4	4.9	5.6	4.8	4.4	4.3	4.5	4.4	4.1	3.5	3.3	4.3
15	3.2	4.3	4.9	5.5	4.7	4.4	4.3	4.4	4.3	4.0	3.4	3.3	4.2
16	3.0	4.2	4.9	5.5	4.7	4.4	4.3	4.3	4.2	3.7	3.1	3.1	4.1
17	3.0	4.0	4.6	5.2	4.5	4.1	4.2	4.0	3.7	3.2	3.0	3.2	3.9
18	3.0	3.8	4.3	4.9	4.2	3.9	3.9	3.6	3.1	2.8	2.9	3.1	3.6
19	3.0	3.8	3.9	4.3	3.8	3.4	3.4	3.1	2.9	2.6	2.9	3.1	3.3
20	3.0	3.8	3.7	4.0	3.4	3.0	3.0	2.8	2.8	2.7	2.9	3.1	3.2
21	2.9	3.6	3.6	3.9	3.4	3.1	2.9	2.7	2.9	2.7	2.9	3.0	3.1
22	2.8	3.6	3.6	3.8	3.4	3.0	2.9	2.7	2.7	2.6	2.9	2.9	3.1
23	2.8	3.5	3.5	3.7	3.3	2.9	2.8	2.7	2.6	2.6	2.8	2.9	3.0
Day	2.9	3.7	3.9	4.3	3.8	3.4	3.3	3.2	3.1	3.0	2.9	3.0	3.4

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	7.99	7.37	4.92	3.40	2.72	2.75	4.89	8.78	9.41	5.31	3.90	4.65	6.69
	1.63	1.59	1.47	1.46	1.58	1.63	1.71	1.60	1.71	1.17	1.15	1.21	1.38
25	8.72	8.05	5.41	3.74	2.99	3.02	5.36	9.56	10.25	5.81	4.31	5.11	7.31
	1.66	1.62	1.51	1.50	1.63	1.68	1.76	1.62	1.73	1.19	1.18	1.23	1.40
50	9.33	8.62	5.82	4.03	3.22	3.25	5.77	10.20	10.93	6.24	4.65	5.50	7.84
	1.70	1.67	1.55	1.54	1.67	1.73	1.81	1.64	1.76	1.22	1.21	1.26	1.44
100	9.98	9.24	6.29	4.35	3.48	3.52	6.24	10.88	11.65	6.66	5.01	5.91	8.40
	1.67	1.63	1.51	1.49	1.62	1.67	1.75	1.63	1.74	1.20	1.17	1.23	1.42
200	10.76	10.00	6.91	4.78	3.82	3.87	6.87	11.65	12.49	7.15	5.45	6.41	9.07
	1.62	1.58	1.43	1.41	1.54	1.58	1.66	1.60	1.71	1.16	1.12	1.18	1.39
Freq	27.1	15.3	3.3	1.7	2.5	4.1	10.0	13.1	8.1	3.2	2.5	9.3	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.96	4.53	2.72	2.33	1.76	1.87	3.59	7.42	5.94	3.20	2.46	3.16	4.72
	1.55	1.35	1.17	1.26	1.39	1.33	1.52	1.73	1.40	1.06	0.94	1.06	1.27
	25	7.05	5.43	3.31	2.83	2.13	2.27	4.33	8.69	6.99	3.89	3.03	3.85
	1.62	1.44	1.26	1.36	1.50	1.43	1.64	1.77	1.44	1.12	1.01	1.13	1.32
50	8.00	6.30	3.91	3.32	2.50	2.66	5.04	9.76	7.89	4.58	3.65	4.55	6.44
	1.72	1.57	1.41	1.52	1.68	1.60	1.84	1.84	1.50	1.24	1.12	1.25	1.40
100	9.17	7.40	4.69	3.97	2.98	3.17	6.00	10.99	8.97	5.46	4.41	5.43	7.48
	1.85	1.68	1.50	1.62	1.79	1.70	1.96	1.97	1.61	1.32	1.19	1.33	1.50
200	10.71	8.96	5.79	4.92	3.69	3.93	7.45	12.53	10.26	6.62	5.41	6.62	8.85
	1.79	1.62	1.44	1.54	1.71	1.63	1.87	1.92	1.56	1.27	1.13	1.27	1.49
Freq	32.1	8.5	2.1	1.6	2.9	4.5	12.0	13.0	5.9	2.6	2.7	12.0	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.28	3.65	2.09	1.99	1.58	1.78	3.17	6.77	4.79	2.60	2.23	2.74	4.13
	1.58	1.40	1.19	1.25	1.49	1.37	1.54	1.82	1.31	1.09	0.96	1.05	1.28
25	6.44	4.55	2.62	2.50	1.97	2.22	3.94	8.19	5.83	3.27	2.82	3.44	5.07
	1.64	1.50	1.26	1.34	1.59	1.46	1.64	1.86	1.35	1.16	1.02	1.11	1.32
50	7.43	5.39	3.14	2.97	2.33	2.63	4.65	9.35	6.71	3.93	3.42	4.11	5.90
	1.73	1.65	1.39	1.48	1.76	1.62	1.82	1.93	1.40	1.27	1.12	1.21	1.39
100	8.61	6.47	3.79	3.58	2.79	3.16	5.56	10.65	7.74	4.76	4.17	4.95	6.93
	1.89	1.82	1.52	1.62	1.93	1.77	1.99	2.05	1.51	1.39	1.23	1.32	1.50
200	10.07	7.96	4.65	4.40	3.43	3.88	6.85	12.20	8.92	5.84	5.10	5.98	8.21
	1.83	1.74	1.46	1.55	1.85	1.70	1.91	2.04	1.48	1.34	1.18	1.27	1.50
Freq	33.4	6.2	1.7	1.7	3.1	4.7	12.6	13.1	5.1	2.4	2.7	13.3	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.14	2.85	1.73	1.52	1.29	1.71	2.67	5.25	3.44	1.93	1.77	2.61	3.24
	1.59	1.40	1.26	1.29	1.48	1.33	1.40	1.81	1.24	1.11	0.96	1.14	1.28
25	5.40	3.78	2.30	2.02	1.71	2.27	3.55	6.81	4.48	2.58	2.39	3.45	4.25
	1.64	1.48	1.33	1.37	1.57	1.40	1.48	1.84	1.26	1.17	1.01	1.19	1.32
50	6.44	4.61	2.81	2.47	2.08	2.77	4.32	8.04	5.34	3.18	2.96	4.17	5.10
	1.71	1.60	1.44	1.48	1.70	1.52	1.60	1.90	1.31	1.26	1.09	1.25	1.38
100	7.61	5.61	3.44	3.02	2.53	3.38	5.27	9.38	6.31	3.92	3.70	5.05	6.10
	1.85	1.82	1.64	1.68	1.94	1.73	1.82	1.99	1.38	1.43	1.23	1.38	1.47
200	8.96	6.84	4.19	3.68	3.09	4.12	6.42	10.88	7.38	4.76	4.48	6.02	7.25
	1.86	1.76	1.58	1.62	1.87	1.66	1.76	2.04	1.40	1.38	1.19	1.36	1.50
Freq	29.9	5.6	1.7	2.0	3.3	5.8	11.8	13.2	4.5	2.3	4.2	15.8	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	6.1	430	4.4	183	3.8	122	3.0	58
25	6.7	545	5.2	281	4.7	207	3.9	122
50	7.1	641	5.9	374	5.4	293	4.7	193
100	7.6	802	6.8	513	6.3	409	5.5	287
200	8.3	1060	8.0	864	7.4	680	6.5	468

TREBISOV-MILHOSTOV 48°50'05" N 21°44'05" E UTM 34 E 553919 m N 5409450 m 104 m a.s.l.

Location is in the eastern part of the country in the lowlands. The N-S orientated ridge of Slanske mountains, which reaches 800-1000 m a.s.l is in the W of the station. The anemometer is situated in a field with three buildings and full-grown trees in sector NW-N at a distance of about 100 m.

Height of anemometer: 12.0 m a.g.l. *Period:* 1981010101 - 1989123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.077	0	0.0	0	0.0						
30	0.077	5000	0.113	0	0.0						
60	0.077	6000	0.113	0	0.0						
90	0.056	0	0.0	0	0.0						
120	0.056	0	0.0	0	0.0						
150	0.056	0	0.0	0	0.0						
180	0.113	0	0.0	0	0.0						
210	0.077	1800	0.163	5700	0.056						
240	0.077	700	0.056	1600	0.086						
270	0.077	600	0.292	1400	0.077						
300	0.077	1000	0.209	2000	0.077						
330	0.077	1000	0.163	2400	0.077						

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	29.7	133	137	98	126	95	118	95	53	54	55	25	8	2	0	5.2	1.66
30	10.1	415	289	117	96	42	23	9	5	4	1	0	0	0	0	1.8	1.11
60	5.1	607	292	61	25	8	4	2	1	0	0	0	0	0	0	1.1	1.10
90	6.8	459	326	127	68	13	6	1	1	0	0	0	0	0	0	1.5	1.34
120	13.0	331	296	157	129	49	28	8	2	0	0	0	0	0	0	2.0	1.35
150	8.6	263	213	151	174	83	74	28	9	4	0	0	0	0	0	2.9	1.56
180	5.0	310	172	120	122	86	99	52	26	11	3	0	0	0	0	3.1	1.40
210	3.4	441	192	106	109	60	43	30	9	6	3	0	0	0	0	2.0	1.06
240	2.1	569	142	63	85	41	39	23	21	10	6	1	0	0	0	1.5	0.85
270	2.1	597	175	85	67	29	21	13	5	4	2	0	1	1	0	1.3	0.83
300	2.9	488	184	100	86	45	40	25	9	10	10	2	0	0	0	1.8	0.93
330	11.3	193	132	85	101	76	104	99	60	57	64	22	6	2	0	5.1	1.61
Total	100.0	300	206	111	112	65	69	49	27	25	24	10	3	1	0	3.1	1.14

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.8	3.1	3.0	3.0	2.4	2.1	2.0	1.9	2.0	1.9	2.5	2.5	2.4
1	2.8	3.1	3.0	3.0	2.6	2.3	1.9	2.0	1.9	2.0	2.4	2.5	2.4
2	2.8	3.0	3.1	3.0	2.6	2.2	2.0	2.0	1.9	1.9	2.4	2.5	2.5
3	2.6	3.0	3.1	3.0	2.7	2.3	2.0	2.0	2.0	2.0	2.4	2.5	2.4
4	2.7	2.9	3.0	3.0	2.8	2.3	2.1	2.0	2.0	2.0	2.4	2.5	2.5
5	2.6	2.9	3.0	3.1	2.8	2.2	2.1	2.0	1.9	2.0	2.3	2.5	2.5
6	2.7	3.0	3.0	3.1	2.9	2.4	2.3	2.1	2.1	1.9	2.3	2.5	2.5
7	2.7	3.0	3.0	3.3	3.1	2.6	2.7	2.3	2.1	1.9	2.3	2.4	2.6
8	2.6	2.9	2.9	3.5	3.1	2.5	2.5	2.2	2.2	1.9	2.1	2.3	2.5
9	2.7	3.3	3.5	3.9	3.5	3.0	3.1	2.7	2.6	2.4	2.4	2.6	3.0
10	2.8	3.5	3.8	4.1	3.6	3.1	3.1	2.8	2.8	2.6	2.7	2.7	3.1
11	2.8	3.6	4.0	4.3	3.7	3.2	3.3	2.9	3.0	2.7	2.8	2.7	3.2
12	2.9	3.7	4.1	4.4	4.1	3.3	3.3	3.1	3.1	2.9	2.9	2.9	3.4
13	2.9	3.7	4.1	4.6	4.2	3.5	3.4	3.3	3.2	3.0	2.9	2.8	3.5
14	2.9	3.8	4.2	4.8	4.2	3.6	3.5	3.4	3.3	3.1	2.9	2.9	3.5
15	2.9	3.7	4.4	5.0	4.2	3.7	3.5	3.5	3.4	3.1	2.8	2.8	3.6
16	2.9	3.5	4.3	4.8	4.1	3.6	3.6	3.4	3.2	2.8	2.6	2.7	3.4
17	2.9	3.3	4.0	4.7	3.9	3.3	3.4	3.1	2.8	2.4	2.5	2.6	3.2
18	2.9	3.3	3.6	4.2	3.5	3.1	2.9	2.7	2.5	2.3	2.4	2.5	3.0
19	2.9	3.2	3.2	3.6	3.0	2.6	2.4	2.3	2.3	2.0	2.3	2.6	2.7
20	2.7	3.2	3.2	3.4	2.8	2.5	2.3	2.1	2.1	2.1	2.3	2.6	2.6
21	2.8	3.2	3.1	3.2	2.6	2.5	2.0	2.0	2.1	2.0	2.3	2.6	2.5
22	2.7	3.1	3.1	3.1	2.6	2.3	2.0	2.0	2.0	1.9	2.5	2.6	2.5
23	2.7	3.1	3.1	3.1	2.5	2.2	2.0	2.0	2.0	1.9	2.4	2.6	2.5
Day	2.8	3.3	3.5	3.7	3.2	2.8	2.6	2.5	2.4	2.3	2.5	2.6	2.8

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	12.48	8.15	2.70	2.24	3.05	3.77	4.73	3.95	2.90	2.29	2.93	7.78	6.11
	1.64	1.19	1.06	1.49	1.59	1.65	1.65	1.37	1.09	0.96	1.04	1.72	1.04
25	13.56	8.87	2.98	2.46	3.34	4.14	5.18	4.35	3.20	2.54	3.24	8.50	6.67
	1.65	1.20	1.10	1.54	1.64	1.70	1.70	1.42	1.12	0.99	1.08	1.75	1.04
50	14.40	9.43	3.23	2.65	3.60	4.45	5.58	4.69	3.47	2.75	3.51	9.10	7.13
	1.66	1.21	1.12	1.58	1.68	1.74	1.74	1.45	1.15	1.01	1.10	1.80	1.05
100	15.27	10.02	3.47	2.86	3.89	4.82	6.04	5.06	3.73	2.95	3.77	9.76	7.63
	1.67	1.21	1.09	1.53	1.63	1.69	1.69	1.41	1.12	0.98	1.07	1.76	1.06
200	16.20	10.62	3.77	3.14	4.28	5.30	6.64	5.54	4.05	3.19	4.08	10.59	8.22
	1.65	1.20	1.04	1.45	1.54	1.60	1.60	1.33	1.06	0.94	1.02	1.70	1.06
Freq	23.7	15.8	6.9	6.4	11.1	10.0	6.0	3.8	2.5	2.1	2.7	8.9	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	9.31	3.60	1.43	1.58	2.08	2.88	3.39	2.35	1.71	1.47	2.03	5.58	4.28
	1.63	0.94	0.95	1.30	1.30	1.50	1.38	1.10	0.86	0.84	0.92	1.58	0.99
25	10.83	4.24	1.77	1.92	2.53	3.47	4.11	2.87	2.12	1.82	2.51	6.63	5.07
	1.65	0.96	1.02	1.40	1.40	1.62	1.49	1.18	0.92	0.90	0.99	1.66	1.01
50	12.03	4.81	2.12	2.25	2.97	4.04	4.81	3.41	2.58	2.22	3.02	7.58	5.77
	1.68	0.99	1.14	1.56	1.57	1.81	1.67	1.32	1.02	0.99	1.10	1.79	1.04
100	13.34	5.52	2.56	2.69	3.54	4.81	5.73	4.09	3.12	2.69	3.65	8.79	6.66
	1.73	1.05	1.21	1.67	1.67	1.93	1.77	1.40	1.08	1.05	1.17	1.92	1.10
200	14.78	6.21	3.15	3.33	4.39	5.97	7.11	5.05	3.83	3.30	4.48	10.48	7.79
	1.74	1.03	1.16	1.59	1.60	1.85	1.69	1.34	1.04	1.01	1.12	1.85	1.13
Freq	27.4	12.0	5.8	6.8	12.6	8.8	5.1	3.5	2.2	2.1	2.9	10.7	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	8.11	2.52	1.07	1.44	1.92	2.58	2.99	1.92	1.47	1.24	1.92	4.87	3.75
	1.65	0.99	1.06	1.32	1.37	1.52	1.38	1.06	0.85	0.83	0.93	1.58	1.01
25	9.76	3.16	1.35	1.80	2.39	3.21	3.72	2.42	1.88	1.58	2.44	5.98	4.59
	1.66	1.05	1.13	1.41	1.46	1.62	1.47	1.13	0.91	0.88	0.99	1.65	1.03
50	11.06	3.78	1.62	2.14	2.83	3.79	4.41	2.92	2.30	1.94	2.97	6.94	5.32
	1.69	1.13	1.25	1.56	1.61	1.79	1.62	1.24	0.99	0.96	1.08	1.77	1.05
100	12.44	4.57	1.97	2.57	3.40	4.53	5.30	3.54	2.84	2.40	3.63	8.12	6.22
	1.74	1.24	1.37	1.71	1.77	1.97	1.78	1.36	1.08	1.04	1.18	1.94	1.10
200	13.94	5.49	2.41	3.16	4.18	5.58	6.52	4.33	3.45	2.92	4.43	9.66	7.33
	1.76	1.19	1.31	1.63	1.69	1.88	1.71	1.30	1.04	1.00	1.13	1.88	1.14
Freq	28.9	10.8	5.3	7.1	12.8	8.4	4.9	3.4	2.1	2.2	3.2	10.9	

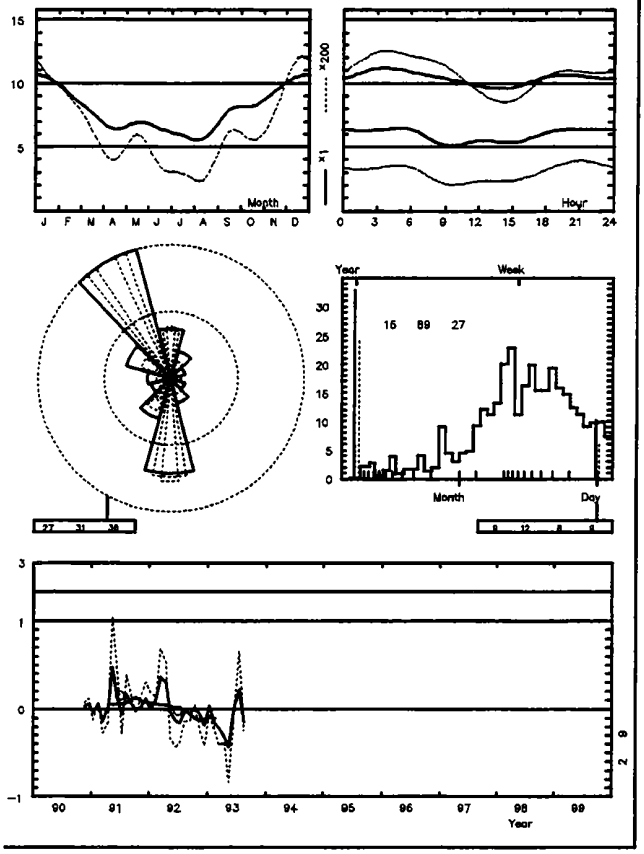
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	6.16	1.77	0.93	1.21	1.61	2.09	2.29	1.59	1.20	1.08	2.12	4.29	2.97
	1.60	1.03	1.16	1.32	1.44	1.54	1.35	1.11	0.88	0.87	1.06	1.48	1.02
25	7.94	2.38	1.25	1.61	2.13	2.76	3.05	2.12	1.63	1.46	2.84	5.57	3.87
	1.62	1.09	1.23	1.39	1.53	1.63	1.43	1.17	0.93	0.91	1.11	1.52	1.03
50	9.33	2.94	1.53	1.97	2.59	3.35	3.71	2.61	2.03	1.82	3.49	6.61	4.62
	1.63	1.17	1.33	1.51	1.66	1.77	1.55	1.26	1.00	0.98	1.19	1.57	1.05
100	10.77	3.66	1.88	2.40	3.15	4.06	4.53	3.22	2.56	2.31	4.31	7.76	5.50
	1.67	1.33	1.50	1.72	1.89	2.02	1.76	1.43	1.13	1.10	1.35	1.66	1.10
200	12.31	4.44	2.29	2.92	3.84	4.96	5.52	3.92	3.10	2.78	5.21	9.05	6.52
	1.72	1.28	1.45	1.65	1.82	1.94	1.70	1.38	1.09	1.06	1.30	1.69	1.14
Freq	28.0	9.9	5.5	7.8	12.2	7.9	4.8	3.2	2.1	2.2	4.1	12.3	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	6.0	733	4.3	295	3.7	190	2.9	89
25	6.6	929	5.0	454	4.5	324	3.8	189
50	7.0	1105	5.7	602	5.2	460	4.5	301
100	7.5	1323	6.4	788	6.0	634	5.3	443
200	8.0	1634	7.4	1133	7.0	923	6.2	656

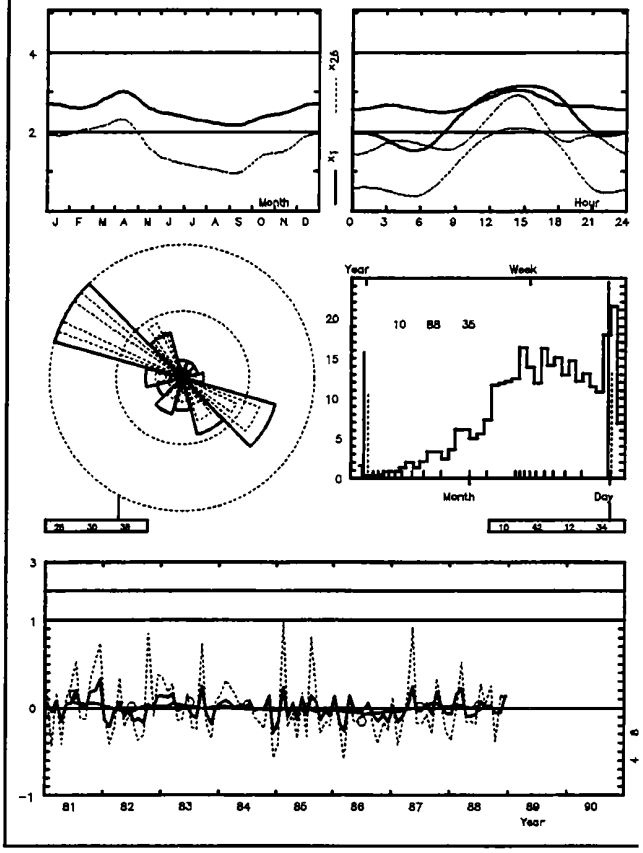
Chopok 1990–93

14.0 m agl, mean 7.9 m/s, st dev 5.3 m/s, cube 1276. m^3/s^3



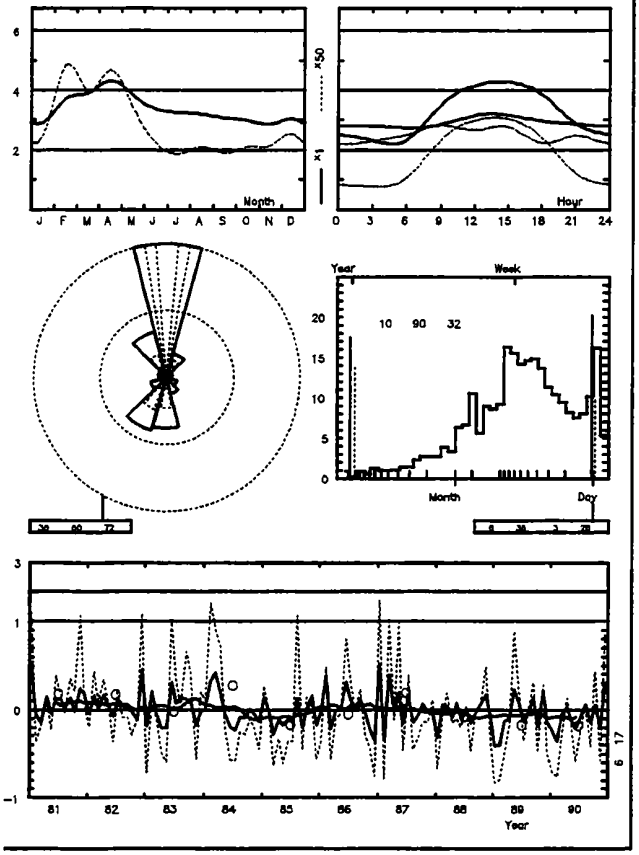
Hurbanovo 1981–88

27.0 m agl, mean 2.5 m/s, st dev 1.6 m/s, cube 40. m^3/s^3



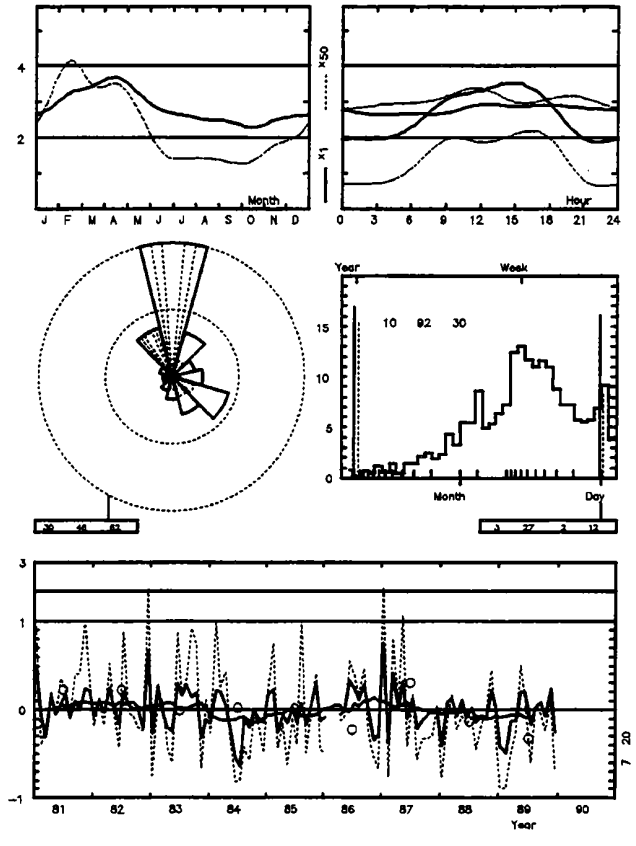
Kosice 1981–90

13.7 m agl, mean 3.4 m/s, st dev 2.7 m/s, cube 142. m^3/s^3



Trebisov– Milhostov 1981–89

12.0 m agl, mean 2.8 m/s, st dev 2.7 m/s, cube 114. m^3/s^3



AJDOVSCINA

45°53'14" N 13°53'48" E UTM 33 E 5414385 m N 5083113 m 111 m a.s.l.

Located at the small airport, 1300 m W of centre of Ajdovcina. Very steep slope of Trnovski gozd begin 2 km from the site in direction NE and is oriented NW-SE. The anemometer is located 1 m above the roof of a 6 m high building which has a base of 28 x 14 m.

Height of anemometer: 7.0 m a.g.l. *Period:* 75010101 - 88081024

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	500	0.146	2500	0.400	0	0.0				
30	0.030	450	0.292	0	0.0	0	0.0				
60	0.100	125	0.209	550	0.400	0	0.0				
90	0.100	350	0.400	0	0.0	0	0.0				
120	0.030	100	0.113	850	0.146	2050	0.292				
150	0.030	200	0.100	1000	0.209	2600	0.400				
180	0.030	220	0.100	1450	0.400	0	0.0				
210	0.100	1300	0.400	0	0.0	0	0.0				
240	0.030	400	0.100	1100	0.292	2100	0.400				
270	0.030	750	0.146	1950	0.292	0	0.0				
300	0.030	650	0.100	1500	0.292	0	0.0				
330	0.030	600	0.146	1700	0.400	0	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	7.4	486	256	109	55	26	17	12	6	6	9	11	3	2	2	1.5	0.75
30	11.9	290	161	82	66	47	47	44	35	40	66	53	33	21	15	4.6	1.05
60	25.2	239	109	63	74	66	66	58	47	52	86	62	35	27	17	6.1	1.30
90	10.3	410	172	87	99	71	50	30	19	16	23	13	7	2	1	2.6	0.95
120	7.9	386	232	105	107	74	47	23	10	6	5	2	1	0	0	2.1	1.06
150	7.5	383	273	119	94	55	39	22	7	4	3	0	0	0	0	1.9	1.06
180	2.9	442	259	115	92	50	28	10	2	1	0	0	0	0	0	1.7	1.14
210	2.6	433	256	131	101	52	19	5	2	0	0	0	0	0	0	1.8	1.22
240	6.7	287	283	191	141	67	24	5	1	0	0	0	0	0	0	2.2	1.52
270	7.1	255	273	238	163	55	13	2	0	0	0	0	0	0	0	2.4	1.80
300	4.2	351	261	182	147	46	10	2	0	0	0	0	0	0	0	2.1	1.53
330	6.2	585	279	76	39	13	4	2	1	0	0	0	0	0	0	1.2	0.87
Total	100.0	345	203	109	91	55	40	28	20	21	33	24	14	10	6	2.8	0.86

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	2.6	3.8	2.5	2.4	2.1	2.0	1.8	2.0	2.1	3.1	3.4	3.3	2.6
1	2.5	3.8	2.7	2.3	2.0	2.0	1.8	2.0	2.2	3.1	3.4	3.3	2.6
2	2.4	3.9	2.6	2.4	2.0	1.8	1.8	2.0	2.1	3.1	3.4	3.4	2.6
3	2.4	3.8	2.6	2.3	2.0	1.8	1.7	1.9	2.1	3.1	3.4	3.3	2.5
4	2.4	3.9	2.7	2.3	2.1	1.7	1.8	2.0	2.0	3.1	3.4	3.3	2.6
5	2.5	3.9	2.7	2.3	2.1	1.8	1.8	2.2	2.0	3.0	3.5	3.3	2.6
6	2.6	3.9	2.6	2.3	2.1	1.8	1.7	2.1	2.0	2.9	3.3	3.3	2.6
7	2.6	4.1	2.7	2.5	2.1	1.9	1.7	2.2	2.1	3.0	3.4	3.3	2.6
8	2.6	4.2	2.5	2.5	2.3	2.0	1.8	2.3	2.1	3.0	3.4	3.3	2.7
9	3.0	4.4	2.6	3.0	2.6	2.4	2.1	2.5	2.5	3.2	3.5	3.6	2.9
10	2.9	4.2	2.8	3.0	2.6	2.5	2.4	2.8	2.8	3.2	3.6	3.5	3.0
11	2.9	4.2	3.0	3.3	3.0	2.6	2.9	3.0	2.9	3.4	3.8	3.5	3.2
12	3.1	4.3	3.4	3.8	3.3	2.9	3.1	3.2	3.2	3.6	3.9	3.6	3.5
13	3.2	4.5	3.7	4.0	3.6	3.1	3.3	3.3	3.4	3.7	4.0	3.6	3.6
14	3.1	4.5	3.8	4.1	3.8	3.3	3.4	3.3	3.5	3.8	3.8	3.5	3.7
15	3.2	4.6	3.9	4.3	3.7	3.2	3.4	3.2	3.5	3.7	3.9	3.6	3.7
16	3.2	4.6	3.8	4.2	3.6	3.3	3.3	3.3	3.3	3.6	3.8	3.6	3.6
17	3.1	4.4	3.6	3.9	3.6	3.2	3.1	3.2	3.1	3.4	3.7	3.5	3.5
18	2.9	4.1	3.2	3.5	3.2	2.8	2.9	2.9	2.6	3.1	3.8	3.4	3.2
19	2.9	3.8	2.8	3.0	2.8	2.4	2.5	2.6	2.4	3.0	3.8	3.4	3.0
20	2.8	3.6	2.5	2.7	2.5	2.3	2.4	2.6	2.2	2.9	3.5	3.4	2.8
21	2.7	3.7	2.5	2.5	2.3	2.0	2.2	2.2	2.0	3.0	3.4	3.5	2.7
22	2.6	3.7	2.4	2.4	2.1	1.8	1.9	2.1	2.0	2.9	3.3	3.3	2.5
23	2.6	3.7	2.5	2.5	2.1	2.0	1.9	2.0	2.1	3.0	3.5	3.4	2.6
Day	2.8	4.1	2.9	3.0	2.7	2.3	2.4	2.5	2.5	3.2	3.6	3.4	2.9

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.71	8.28	13.08	6.56	5.39	3.97	3.43	3.70	4.34	6.51	6.97	2.74	6.74
	0.82	1.08	1.31	0.99	1.19	1.31	1.35	1.46	1.87	2.15	1.81	1.06	0.96
25	2.98	9.00	14.19	7.13	5.90	4.37	3.77	4.06	4.76	7.13	7.64	3.03	7.34
	0.83	1.09	1.31	0.99	1.21	1.35	1.39	1.51	1.92	2.22	1.87	1.09	0.97
50	3.22	9.57	15.05	7.58	6.34	4.71	4.07	4.38	5.11	7.66	8.20	3.28	7.84
	0.85	1.10	1.32	1.00	1.24	1.39	1.42	1.54	1.98	2.28	1.92	1.12	0.97
100	3.42	10.15	15.94	8.06	6.77	5.08	4.39	4.73	5.54	8.30	8.87	3.51	8.38
	0.84	1.10	1.33	1.01	1.23	1.35	1.38	1.50	1.91	2.21	1.86	1.08	0.98
200	3.63	10.73	16.84	8.53	7.27	5.56	4.81	5.19	6.11	9.18	9.76	3.82	9.01
	0.82	1.09	1.32	1.00	1.19	1.28	1.31	1.42	1.81	2.09	1.76	1.03	0.99
Freq	7.4	11.9	25.2	10.3	7.9	7.5	2.9	2.6	6.7	7.1	4.2	6.2	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.90	5.84	9.32	4.59	3.71	2.65	2.31	2.48	2.96	4.43	4.70	1.88	4.71
	0.77	1.05	1.29	0.95	1.09	1.13	1.16	1.25	1.58	1.81	1.54	0.95	0.94
25	2.30	6.81	10.82	5.37	4.43	3.23	2.82	3.02	3.57	5.32	5.66	2.32	5.56
	0.80	1.06	1.29	0.96	1.14	1.21	1.25	1.34	1.71	1.96	1.66	1.02	0.95
50	2.70	7.58	11.99	6.00	5.12	3.83	3.33	3.55	4.15	6.16	6.60	2.78	6.29
	0.85	1.07	1.31	0.98	1.22	1.36	1.40	1.50	1.91	2.20	1.86	1.14	0.97
100	3.20	8.44	13.21	6.73	5.97	4.59	3.99	4.24	4.93	7.31	7.85	3.36	7.20
	0.90	1.10	1.33	1.01	1.30	1.44	1.49	1.60	2.04	2.34	1.98	1.21	1.01
200	3.71	9.34	14.51	7.46	7.01	5.67	4.94	5.25	6.13	9.10	9.75	4.13	8.36
	0.88	1.11	1.34	1.01	1.26	1.38	1.42	1.52	1.94	2.23	1.89	1.16	1.05
Freq	7.4	11.9	25.2	10.3	7.9	7.5	2.9	2.6	6.7	7.1	4.2	6.2	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.56	5.06	8.04	3.97	3.13	2.27	1.97	2.12	2.56	3.84	4.06	1.66	4.06
	0.76	1.05	1.29	0.95	1.07	1.12	1.14	1.23	1.55	1.81	1.54	0.97	0.94
25	1.94	6.11	9.66	4.81	3.86	2.86	2.47	2.65	3.17	4.75	5.05	2.10	4.95
	0.78	1.06	1.30	0.97	1.11	1.19	1.21	1.31	1.66	1.94	1.65	1.03	0.95
50	2.32	6.93	10.92	5.47	4.53	3.42	2.96	3.16	3.75	5.57	5.96	2.55	5.70
	0.82	1.08	1.31	0.98	1.17	1.31	1.34	1.44	1.84	2.15	1.82	1.13	0.97
100	2.80	7.82	12.22	6.22	5.36	4.14	3.58	3.81	4.48	6.64	7.13	3.11	6.59
	0.88	1.10	1.33	1.01	1.28	1.44	1.46	1.58	2.02	2.36	2.00	1.24	1.00
200	3.24	8.77	13.60	7.00	6.29	5.08	4.39	4.68	5.52	8.20	8.78	3.80	7.68
	0.86	1.12	1.35	1.02	1.24	1.38	1.40	1.51	1.93	2.26	1.92	1.19	1.04
Freq	7.4	11.9	25.2	10.3	7.9	7.5	2.9	2.6	6.7	7.1	4.2	6.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.36	3.95	6.25	3.11	2.55	1.81	1.61	1.70	2.02	3.00	3.16	1.19	3.19
	0.81	1.06	1.30	0.96	1.12	1.14	1.19	1.26	1.58	1.84	1.53	0.92	0.95
25	1.81	5.10	8.05	4.02	3.36	2.42	2.15	2.26	2.67	3.95	4.18	1.61	4.16
	0.83	1.07	1.31	0.97	1.15	1.21	1.26	1.33	1.67	1.95	1.62	0.97	0.96
50	2.23	6.00	9.43	4.74	4.06	2.97	2.63	2.77	3.24	4.78	5.07	2.00	4.95
	0.87	1.08	1.31	0.98	1.22	1.30	1.36	1.44	1.81	2.12	1.76	1.04	0.97
100	2.76	6.95	10.85	5.52	4.90	3.66	3.23	3.39	3.92	5.76	6.15	2.51	5.84
	0.94	1.10	1.33	1.01	1.33	1.48	1.54	1.63	2.06	2.41	2.01	1.18	1.00
200	3.27	7.97	12.33	6.37	5.83	4.45	3.93	4.12	4.79	7.04	7.51	3.04	6.87
	0.94	1.13	1.35	1.03	1.32	1.42	1.49	1.57	1.99	2.32	1.93	1.14	1.04
Freq	7.4	11.9	25.2	10.3	7.9	7.5	2.9	2.6	6.7	7.1	4.2	6.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	6.9	1301	4.9	501	4.2	320	3.3	148
25	7.5	1657	5.7	768	5.1	543	4.2	311
50	7.9	1955	6.4	1025	5.8	774	5.0	491
100	8.4	2316	7.2	1322	6.6	1043	5.8	725
200	9.0	2791	8.2	1784	7.6	1439	6.8	1045

BRNIK

46°13'05" N 14°28'37" E UTM 33 E 5459650 m N 5119425 m 364 m a.s.l.

Located at the airport, 19 km N of centre of Ljubljana and 10 km E of centre of Kranj. The anemometer is placed at the eastern edge of the runway area surrounded by the forest on the N and S. The airport buildings appear in the NW sector.

Height of anemometer: 10.0 m a.g.l. *Period:* 81010101 - 90123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	250	0.232	550	0.064	2600	0.163	0	0.0		
30	0.030	225	0.232	700	0.100	1400	0.163	4800	0.400		
60	0.030	200	0.232	600	0.050	1325	0.059	4050	0.400		
90	0.030	400	0.086	2200	0.209	0	0.0	0	0.0		
120	0.030	0	0.0	0	0.0	0	0.0	0	0.0		
150	0.030	500	0.292	1300	0.400	0	0.0	0	0.0		
180	0.030	350	0.400	0	0.0	0	0.0	0	0.0		
210	0.030	300	0.400	0	0.0	0	0.0	0	0.0		
240	0.030	325	0.400	1950	0.292	0	0.0	0	0.0		
270	0.030	450	0.400	1600	0.232	0	0.0	0	0.0		
300	0.030	725	0.127	3050	0.400	0	0.0	0	0.0		
330	0.030	375	0.232	1350	0.400	3400	0.163	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	4.2	710	131	57	42	26	17	7	5	5	1	0	0	0	0	0.8	0.72
30	2.5	876	100	19	4	1	0	0	0	0	0	0	0	0	0	0.7	1.35
60	10.3	622	291	71	12	3	2	0	0	0	0	0	0	0	0	1.0	1.22
90	9.9	475	288	150	49	22	11	4	1	0	0	0	0	0	0	1.5	1.24
120	7.3	438	247	152	80	45	23	9	3	2	0	0	0	0	0	1.8	1.17
150	9.8	432	274	172	71	35	10	5	2	0	0	0	0	0	0	1.7	1.30
180	5.1	672	205	88	25	7	2	1	0	0	0	0	0	0	0	0.9	0.99
210	3.5	687	143	84	50	25	7	4	0	0	0	0	0	0	0	0.9	0.85
240	11.1	576	172	92	69	54	28	7	2	0	0	0	0	0	0	1.4	0.97
270	16.5	614	233	78	39	22	10	2	1	0	0	0	0	0	0	1.1	0.98
300	11.2	616	235	82	37	18	7	3	1	0	1	0	0	0	0	1.1	0.98
330	8.6	624	192	80	48	23	17	8	3	3	2	0	0	0	0	1.1	0.86
Total	100.0	583	227	100	46	25	12	4	2	1	0	0	0	0	0	1.2	1.00

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	0.9	0.9	0.9	1.1	0.9	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.8
1	0.8	0.9	0.9	1.0	0.8	0.7	0.6	0.5	0.6	0.7	0.7	0.8	0.8
2	0.8	0.8	0.8	0.9	0.8	0.6	0.5	0.5	0.6	0.7	0.7	0.8	0.7
3	0.8	0.9	0.8	0.9	0.7	0.6	0.5	0.5	0.5	0.6	0.6	0.8	0.7
4	0.8	0.8	0.8	0.8	0.7	0.5	0.4	0.5	0.5	0.6	0.6	0.8	0.6
5	0.8	0.8	0.8	0.8	0.6	0.5	0.4	0.5	0.4	0.5	0.6	0.8	0.6
6	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.7	0.8	0.6
7	0.7	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.6	0.7	0.8	0.6
8	0.7	0.7	0.7	0.8	0.8	0.6	0.5	0.5	0.5	0.6	0.6	0.7	0.6
9	0.7	0.8	0.7	1.1	1.1	1.0	0.8	0.6	0.6	0.7	0.7	0.8	0.8
10	0.8	0.9	0.9	1.5	1.5	1.3	1.2	1.0	0.8	0.7	0.8	0.8	1.0
11	0.8	1.0	1.2	2.0	2.0	1.7	1.6	1.4	1.1	1.1	0.9	0.9	1.3
12	0.9	1.1	1.5	2.3	2.3	2.0	1.9	1.8	1.4	1.3	1.0	0.9	1.5
13	1.0	1.3	1.8	2.6	2.5	2.3	2.1	2.1	1.7	1.5	1.1	1.0	1.8
14	1.1	1.6	2.0	2.8	2.7	2.4	2.3	2.3	1.9	1.6	1.2	1.0	1.9
15	1.1	1.6	2.2	2.7	2.8	2.5	2.3	2.3	2.0	1.7	1.2	1.0	2.0
16	1.0	1.6	2.2	2.7	2.8	2.6	2.4	2.3	2.0	1.5	1.0	0.9	2.0
17	0.9	1.4	2.0	2.7	2.8	2.6	2.4	2.5	1.8	1.2	0.8	0.8	1.8
18	0.8	1.2	1.7	2.4	2.5	2.4	2.3	2.1	1.3	0.9	0.8	0.9	1.6
19	0.8	1.2	1.4	1.9	2.0	2.0	1.8	1.4	0.8	0.8	0.8	0.8	1.3
20	0.8	1.1	1.2	1.4	1.4	1.4	1.2	0.9	0.7	0.7	0.7	0.8	1.0
21	0.8	1.1	1.2	1.2	1.1	1.0	0.8	0.7	0.7	0.7	0.7	0.8	0.9
22	0.9	0.9	1.1	1.1	1.0	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.9
23	0.9	1.0	1.0	1.1	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.9	0.8
Day	0.9	1.1	1.2	1.6	1.5	1.3	1.2	1.1	0.9	0.9	0.8	0.8	1.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.67	1.39	2.01	2.58	2.72	3.09	1.97	1.86	2.63	2.09	2.04	2.06	2.26
	0.87	1.52	1.59	1.46	1.40	1.52	1.31	1.02	1.14	1.20	1.21	1.00	1.19
25	1.86	1.52	2.21	2.83	2.99	3.39	2.17	2.06	2.90	2.30	2.25	2.28	2.49
	0.90	1.57	1.64	1.50	1.45	1.56	1.35	1.04	1.17	1.24	1.24	1.03	1.22
50	2.02	1.64	2.37	3.05	3.22	3.66	2.34	2.24	3.14	2.48	2.43	2.48	2.69
	0.92	1.61	1.69	1.54	1.49	1.60	1.39	1.07	1.20	1.27	1.27	1.06	1.26
100	2.16	1.77	2.57	3.30	3.48	3.95	2.52	2.40	3.38	2.67	2.62	2.66	2.90
	0.89	1.56	1.63	1.49	1.44	1.56	1.35	1.04	1.16	1.23	1.23	1.02	1.22
200	2.32	1.95	2.82	3.62	3.82	4.34	2.76	2.60	3.68	2.92	2.86	2.87	3.16
	0.85	1.48	1.55	1.41	1.37	1.48	1.28	0.99	1.11	1.17	1.17	0.98	1.16
Freq	4.2	2.5	10.3	9.9	7.3	9.8	5.1	3.5	11.1	16.5	11.2	8.6	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.15	0.89	1.35	1.75	1.78	2.08	1.33	1.39	1.75	1.41	1.34	1.45	1.52
	0.79	1.18	1.30	1.24	1.18	1.28	1.13	0.96	0.99	1.04	1.02	0.91	1.03
25	1.43	1.08	1.64	2.13	2.17	2.52	1.63	1.71	2.16	1.74	1.64	1.79	1.86
	0.85	1.26	1.40	1.33	1.27	1.38	1.21	1.03	1.06	1.12	1.09	0.98	1.11
50	1.76	1.28	1.93	2.50	2.56	2.96	1.93	2.05	2.58	2.07	1.96	2.16	2.22
	0.94	1.42	1.57	1.49	1.42	1.54	1.35	1.15	1.18	1.25	1.22	1.08	1.23
100	2.14	1.53	2.30	2.99	3.07	3.54	2.31	2.48	3.11	2.48	2.36	2.61	2.66
	0.99	1.50	1.67	1.58	1.51	1.65	1.44	1.22	1.25	1.33	1.29	1.15	1.31
200	2.61	1.90	2.85	3.71	3.79	4.38	2.86	3.05	3.83	3.06	2.90	3.20	3.28
	0.95	1.44	1.60	1.52	1.44	1.57	1.38	1.17	1.20	1.27	1.23	1.10	1.25
Freq	4.2	2.5	10.3	9.9	7.3	9.8	5.1	3.5	11.1	16.5	11.2	8.6	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	0.82	0.79	1.10	1.51	1.60	1.80	1.06	1.11	1.51	1.13	1.07	1.16	1.26
	0.72	1.23	1.23	1.24	1.20	1.28	1.04	0.91	0.98	0.99	0.97	0.87	1.00
25	1.05	0.98	1.38	1.88	2.00	2.25	1.34	1.41	1.92	1.43	1.36	1.48	1.59
	0.76	1.31	1.32	1.33	1.28	1.37	1.10	0.96	1.04	1.05	1.03	0.92	1.06
50	1.32	1.17	1.65	2.24	2.39	2.68	1.61	1.72	2.32	1.73	1.65	1.81	1.92
	0.83	1.45	1.45	1.47	1.41	1.51	1.21	1.06	1.15	1.15	1.13	1.01	1.17
100	1.65	1.41	1.98	2.70	2.88	3.22	1.96	2.11	2.83	2.11	2.01	2.23	2.34
	0.90	1.59	1.59	1.61	1.55	1.65	1.33	1.15	1.25	1.26	1.24	1.10	1.27
200	1.99	1.73	2.44	3.32	3.54	3.96	2.39	2.57	3.46	2.58	2.46	2.71	2.86
	0.86	1.52	1.52	1.54	1.48	1.58	1.27	1.10	1.20	1.21	1.19	1.06	1.22
Freq	4.2	2.5	10.3	9.9	7.3	9.8	5.1	3.5	11.1	16.5	11.2	8.6	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	0.66	0.71	0.93	1.21	1.26	1.45	0.88	0.78	1.19	0.89	0.89	0.92	1.01
	0.73	1.48	1.30	1.25	1.22	1.32	1.08	0.85	0.99	0.98	0.99	0.87	1.02
25	0.90	0.95	1.24	1.61	1.68	1.93	1.18	1.06	1.60	1.20	1.20	1.24	1.36
	0.76	1.56	1.38	1.32	1.29	1.39	1.14	0.89	1.04	1.03	1.05	0.92	1.07
50	1.14	1.15	1.52	1.97	2.06	2.35	1.45	1.33	1.98	1.49	1.48	1.55	1.68
	0.81	1.70	1.49	1.43	1.39	1.51	1.24	0.96	1.13	1.12	1.13	0.99	1.15
100	1.47	1.40	1.85	2.41	2.53	2.88	1.80	1.69	2.47	1.85	1.84	1.96	2.09
	0.91	1.93	1.70	1.62	1.58	1.72	1.40	1.08	1.27	1.26	1.28	1.11	1.30
200	1.77	1.70	2.26	2.93	3.08	3.50	2.18	2.03	3.00	2.25	2.24	2.36	2.54
	0.88	1.86	1.63	1.56	1.52	1.65	1.35	1.04	1.23	1.21	1.24	1.07	1.26
Freq	4.2	2.5	10.3	9.9	7.3	9.8	5.1	3.5	11.1	16.5	11.2	8.6	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2	m/s	W/m^2
10	2.1	23	1.5	11	1.3	7	1.0	3
25	2.3	29	1.8	16	1.6	11	1.3	7
50	2.5	35	2.1	20	1.8	15	1.6	10
100	2.7	47	2.5	30	2.2	22	1.9	15
200	3.0	71	3.1	64	2.7	45	2.4	29

KRSKO

45°56'25" N 15°31'05" E UTM 33 E 5540164 m N 5088552 m 150 m a.s.l.

Located at the nuclear power-plant 3 km NW of centre of Krsko. The anemometer is located NW of the power-plant buildings and in the sector from E-SE several high power-plant buildings shelter the anemometer. Surrounding area is cultivated.

Height of anemometer: 10.0 m a.g.l. *Period:* 86060601 - 94122024

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	15	0.400	350	0.056	1000	0.400	2050	0.292		
30	0.030	15	0.400	400	0.056	960	0.209	2000	0.400		
60	0.030	20	0.400	650	0.292	1900	0.400	0	0.0		
90	0.030	40	0.292	1150	0.146	3000	0.292	0	0.0		
120	0.400	1400	0.292	0	0.0	0	0.0	0	0.0		
150	0.400	400	0.059	2000	0.113	0	0.0	0	0.0		
180	0.400	320	0.100	3200	0.030	0	0.0	0	0.0		
210	0.030	25	0.400	350	0.100	1950	0.292	0	0.0		
240	0.400	500	0.113	1350	0.209	3550	0.163	0	0.0		
270	0.400	450	0.163	1650	0.400	0	0.0	0	0.0		
300	0.400	450	0.163	950	0.400	0	0.0	0	0.0		
330	0.030	25	0.400	500	0.209	1000	0.400	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	3.9	599	141	101	74	39	26	7	6	2	3	0	0	0	0	1.3	0.89
30	4.3	337	220	159	132	86	40	18	5	3	1	0	0	0	0	2.4	1.36
60	13.8	247	361	237	110	32	9	4	1	0	0	0	0	0	0	2.1	1.68
90	14.4	250	414	247	73	12	3	1	0	0	0	0	0	0	0	1.9	1.90
120	4.6	355	409	189	41	5	1	0	0	0	0	0	0	0	0	1.7	1.83
150	3.6	480	393	110	14	3	0	0	0	0	0	0	0	0	0	1.3	1.69
180	5.2	552	383	50	12	2	0	0	0	0	0	0	0	0	0	1.2	1.51
210	6.5	448	390	89	36	16	10	6	4	1	0	0	0	0	0	1.5	1.19
240	16.4	333	356	131	84	50	27	14	5	1	1	0	0	0	0	1.8	1.16
270	15.1	359	406	141	47	23	13	6	3	1	0	0	0	0	0	1.7	1.32
300	7.0	465	387	108	26	8	4	1	0	0	0	0	0	0	0	1.4	1.45
330	5.1	600	283	76	23	7	6	2	1	1	1	0	0	0	0	1.1	1.05
Total	100.0	372	364	154	64	25	12	5	2	1	0	0	0	0	0	1.7	1.32

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.4	1.2	1.5	1.4	1.2	1.3	1.2	1.1	1.1	1.1	1.1	1.3	1.2
1	1.4	1.2	1.6	1.4	1.2	1.3	1.2	1.1	1.0	1.0	1.1	1.3	1.2
2	1.4	1.2	1.5	1.4	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.3	1.2
3	1.4	1.1	1.5	1.3	1.1	1.2	1.0	1.0	1.0	1.0	1.0	1.3	1.2
4	1.4	1.1	1.4	1.2	1.1	1.2	1.0	1.0	1.0	1.0	1.1	1.2	1.1
5	1.4	1.2	1.4	1.2	1.0	1.1	0.9	1.0	1.0	1.0	1.1	1.2	1.1
6	1.3	1.2	1.4	1.2	0.9	1.1	0.9	0.9	0.9	1.0	1.0	1.3	1.1
7	1.3	1.2	1.3	1.1	1.1	1.2	1.0	0.9	0.9	1.0	1.1	1.2	1.1
8	1.3	1.1	1.3	1.4	1.3	1.4	1.0	1.0	1.0	1.1	1.1	1.3	1.2
9	1.3	1.2	1.6	1.8	1.6	1.5	1.3	1.2	1.1	1.2	1.1	1.3	1.3
10	1.4	1.4	2.0	2.3	2.0	1.7	1.5	1.4	1.4	1.4	1.3	1.4	1.6
11	1.5	1.6	2.2	2.6	2.3	2.0	1.8	1.7	1.7	1.7	1.4	1.4	1.8
12	1.7	2.0	2.5	2.8	2.5	2.2	2.0	1.9	1.9	1.7	1.5	1.6	2.0
13	1.8	2.2	2.7	2.8	2.6	2.2	2.2	2.0	2.1	1.8	1.6	1.7	2.1
14	2.0	2.4	2.7	2.8	2.7	2.4	2.3	2.1	2.1	1.8	1.5	1.7	2.2
15	1.9	2.5	2.8	2.9	2.7	2.3	2.4	2.2	2.2	1.9	1.6	1.6	2.2
16	1.8	2.3	2.8	2.8	2.8	2.4	2.3	2.2	2.0	1.8	1.5	1.5	2.2
17	1.7	2.1	2.7	2.6	2.6	2.3	2.3	2.3	1.8	1.5	1.4	1.4	2.1
18	1.6	1.8	2.5	2.4	2.3	2.3	2.1	1.9	1.6	1.3	1.3	1.4	1.9
19	1.5	1.6	2.1	1.9	1.8	1.8	1.7	1.5	1.3	1.2	1.2	1.2	1.6
20	1.5	1.5	2.0	1.7	1.6	1.5	1.4	1.3	1.1	1.1	1.2	1.2	1.4
21	1.5	1.3	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.3
22	1.5	1.3	1.6	1.5	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.3
23	1.4	1.2	1.6	1.4	1.3	1.3	1.1	1.1	1.1	1.1	1.0	1.3	1.2
Day	1.5	1.5	1.9	1.9	1.7	1.7	1.5	1.4	1.4	1.3	1.2	1.4	1.5

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.81	4.97	4.55	4.03	4.81	5.41	2.24	3.03	3.90	3.66	3.03	2.45	3.79
	1.06	1.60	1.96	2.22	2.12	1.94	1.86	1.38	1.42	1.52	1.72	1.24	1.54
25	3.11	5.45	4.99	4.42	5.27	5.92	2.45	3.33	4.29	4.02	3.33	2.70	4.16
	1.09	1.65	2.03	2.28	2.19	2.00	1.92	1.42	1.46	1.56	1.77	1.27	1.58
50	3.37	5.87	5.36	4.74	5.66	6.36	2.64	3.59	4.62	4.33	3.58	2.92	4.48
	1.12	1.69	2.08	2.35	2.24	2.05	1.97	1.46	1.50	1.60	1.81	1.31	1.62
100	3.62	6.35	5.81	5.14	6.14	6.90	2.86	3.88	4.99	4.68	3.87	3.14	4.84
	1.09	1.64	2.01	2.27	2.17	1.99	1.90	1.42	1.45	1.56	1.76	1.27	1.58
200	3.93	6.98	6.41	5.69	6.78	7.61	3.15	4.25	5.47	5.14	4.26	3.43	5.33
	1.03	1.56	1.90	2.15	2.06	1.88	1.80	1.34	1.38	1.48	1.67	1.21	1.50
Freq	3.9	4.3	13.8	14.4	4.6	3.6	5.2	6.5	16.4	15.1	7.0	5.1	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.80	3.31	3.10	2.78	3.28	3.66	1.56	2.02	2.63	2.47	2.07	1.76	2.57
	0.90	1.35	1.64	1.87	1.78	1.62	1.58	1.17	1.22	1.29	1.45	1.14	1.33
25	2.22	4.01	3.73	3.33	3.93	4.40	1.87	2.46	3.20	2.99	2.50	2.15	3.10
	0.97	1.45	1.77	2.02	1.92	1.75	1.70	1.26	1.31	1.40	1.56	1.23	1.42
50	2.69	4.70	4.34	3.85	4.56	5.11	2.18	2.90	3.77	3.52	2.92	2.55	3.64
	1.08	1.63	1.99	2.27	2.16	1.97	1.91	1.41	1.47	1.56	1.75	1.37	1.58
100	3.25	5.61	5.15	4.57	5.41	6.08	2.59	3.48	4.50	4.20	3.47	3.05	4.34
	1.14	1.73	2.12	2.42	2.30	2.10	2.03	1.50	1.56	1.66	1.87	1.46	1.68
200	3.99	6.95	6.40	5.69	6.73	7.55	3.22	4.30	5.57	5.20	4.31	3.77	5.38
	1.09	1.65	2.03	2.31	2.19	2.00	1.94	1.44	1.49	1.59	1.78	1.39	1.61
Freq	3.9	4.3	13.8	14.4	4.6	3.6	5.2	6.5	16.4	15.1	7.0	5.1	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.64	2.91	2.73	2.40	2.84	3.17	1.34	1.75	2.26	2.11	1.81	1.53	2.23
	0.94	1.37	1.70	1.85	1.77	1.64	1.52	1.17	1.21	1.27	1.45	1.14	1.33
25	2.08	3.63	3.38	2.97	3.52	3.94	1.66	2.20	2.83	2.63	2.25	1.93	2.78
	0.99	1.47	1.81	1.99	1.89	1.75	1.63	1.25	1.29	1.35	1.54	1.21	1.42
50	2.52	4.30	3.98	3.49	4.13	4.64	1.96	2.63	3.38	3.14	2.66	2.31	3.30
	1.09	1.62	2.01	2.20	2.09	1.94	1.80	1.37	1.42	1.49	1.71	1.34	1.55
100	3.09	5.16	4.75	4.16	4.93	5.54	2.34	3.17	4.08	3.78	3.19	2.79	3.96
	1.19	1.78	2.20	2.42	2.30	2.13	1.98	1.51	1.56	1.64	1.88	1.46	1.69
200	3.77	6.35	5.86	5.13	6.08	6.83	2.89	3.89	5.01	4.64	3.92	3.42	4.87
	1.14	1.70	2.11	2.31	2.20	2.04	1.89	1.44	1.49	1.57	1.79	1.40	1.62
Freq	3.9	4.3	13.8	14.4	4.6	3.6	5.2	6.5	16.4	15.1	7.0	5.1	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	1.23	2.24	2.09	1.88	2.21	2.47	1.05	1.41	1.79	1.68	1.40	1.09	1.74
	0.91	1.35	1.67	1.89	1.77	1.62	1.51	1.21	1.22	1.32	1.48	1.06	1.33
25	1.66	2.98	2.76	2.48	2.92	3.27	1.38	1.88	2.39	2.24	1.85	1.46	2.31
	0.96	1.42	1.76	2.01	1.87	1.71	1.60	1.28	1.29	1.39	1.56	1.12	1.40
50	2.07	3.64	3.34	3.00	3.54	3.96	1.68	2.30	2.92	2.73	2.25	1.81	2.81
	1.03	1.54	1.92	2.18	2.03	1.86	1.74	1.38	1.40	1.51	1.70	1.21	1.52
100	2.61	4.44	4.04	3.62	4.27	4.80	2.04	2.83	3.59	3.34	2.74	2.24	3.44
	1.17	1.75	2.18	2.48	2.32	2.12	1.98	1.57	1.59	1.72	1.93	1.38	1.71
200	3.15	5.40	4.94	4.42	5.22	5.86	2.49	3.44	4.36	4.06	3.34	2.72	4.18
	1.13	1.69	2.10	2.39	2.23	2.04	1.90	1.52	1.53	1.65	1.86	1.33	1.65
Freq	3.9	4.3	13.8	14.4	4.6	3.6	5.2	6.5	16.4	15.1	7.0	5.1	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	3.4	63	2.4	26	2.0	17	1.6	8
25	3.7	80	2.8	40	2.5	29	2.1	17
50	4.0	96	3.3	53	3.0	41	2.5	26
100	4.3	127	3.9	83	3.5	62	3.1	40
200	4.8	184	4.8	169	4.4	123	3.7	76

MARIBOR

46°28'22" N 15°41'45" E UTM 33 E 5553425 m N 5147835 m 260 m a.s.l.

Located at the airport, 18 km S of centre of Maribor. The anemometer is placed at the SE edge of the runway area. The airport is mainly surrounded by meadows, cultivated areas and woodland. Row of trees is appearing in the S sector at a distance of approx. 250 m. The airport buildings are NW of the anemometer.

Height of anemometer: 8.0 m a.g.l. *Period:* 76070101 - 87123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.030	400	0.064	1200	0.232	2350	0.400	0	0.0		
30	0.030	350	0.064	625	0.232	1500	0.086	3150	0.209		
60	0.030	350	0.400	700	0.292	1500	0.209	0	0.0		
90	0.030	700	0.163	1800	0.127	0	0.0	0	0.0		
120	0.030	1000	0.400	0	0.0	0	0.0	0	0.0		
150	0.030	550	0.064	1500	0.086	0	0.0	0	0.0		
180	0.030	700	0.086	1850	0.400	0	0.0	0	0.0		
210	0.030	650	0.017	1250	0.146	2500	0.292	0	0.0		
240	0.030	900	0.292	3000	0.209	0	0.0	0	0.0		
270	0.030	600	0.042	1600	0.400	0	0.0	0	0.0		
300	0.030	650	0.112	1250	0.100	3200	0.400	0	0.0		
330	0.030	1800	0.113	0	0.0	0	0.0	0	0.0		

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	17.3	172	191	215	177	111	69	35	17	7	4	1	0	0	0	3.3	1.64
30	7.2	321	184	223	153	66	31	12	6	2	1	0	0	0	0	2.5	1.58
60	7.5	339	258	236	114	35	10	5	2	0	0	0	0	0	0	2.1	1.59
90	4.6	511	242	169	63	13	2	0	0	0	0	0	0	0	0	1.4	1.33
120	4.4	522	232	176	53	13	3	1	0	0	0	0	0	0	0	1.4	1.30
150	9.4	297	276	238	110	47	23	7	1	0	0	0	0	0	0	2.2	1.57
180	17.1	176	221	226	167	103	65	26	11	4	2	0	0	0	0	3.1	1.67
210	9.8	239	126	146	133	115	100	65	40	20	14	1	0	0	0	3.8	1.58
240	8.1	297	137	93	79	88	91	74	62	39	34	6	1	0	0	4.0	1.39
270	3.0	755	151	60	15	7	6	3	0	0	1	0	0	0	0	0.8	0.84
300	3.3	706	167	64	23	15	12	6	3	1	1	0	0	0	0	0.8	0.76
330	8.2	385	278	144	68	49	37	19	10	6	2	0	0	0	0	1.9	1.05
Total	100.0	308	207	185	121	73	49	27	15	8	6	1	0	0	0	2.6	1.29

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	1.8	1.8	2.2	2.4	1.8	1.5	1.2	1.1	1.4	1.5	1.8	1.9	1.7
1	1.9	1.9	2.1	2.1	1.7	1.3	1.1	1.0	1.2	1.5	1.9	1.9	1.6
2	1.9	1.8	2.0	2.0	1.6	1.1	0.9	0.9	1.2	1.5	1.8	1.8	1.5
3	1.8	1.8	2.0	1.8	1.4	1.0	0.8	0.9	1.1	1.3	1.7	1.8	1.4
4	1.7	1.7	2.1	1.8	1.4	0.9	0.7	0.9	1.0	1.3	1.8	1.8	1.4
5	1.7	1.7	2.0	1.7	1.3	0.8	0.7	0.9	1.0	1.4	1.7	1.8	1.4
6	1.8	1.7	1.8	1.7	1.3	0.7	0.7	0.8	1.0	1.2	1.7	1.8	1.4
7	1.9	1.7	1.8	1.7	1.4	0.7	0.7	0.8	1.0	1.2	1.8	1.8	1.4
8	1.9	1.6	1.7	1.8	1.5	1.1	0.9	0.9	1.0	1.3	1.7	1.8	1.4
9	1.8	1.7	1.9	2.2	2.0	1.6	1.4	1.1	1.2	1.3	1.7	1.8	1.6
10	1.9	1.7	2.5	2.9	2.5	2.1	1.8	1.7	1.7	1.7	1.9	1.8	2.0
11	2.0	1.9	2.9	3.3	3.0	2.6	2.2	2.2	2.2	2.1	2.0	2.1	2.4
12	2.1	2.3	3.3	3.7	3.3	2.9	2.6	2.6	2.5	2.5	2.4	2.3	2.7
13	2.3	2.6	3.7	3.9	3.5	3.1	2.7	2.7	2.8	2.8	2.6	2.6	2.9
14	2.5	2.8	3.9	4.0	3.5	3.2	2.9	2.8	2.9	3.0	2.7	2.7	3.1
15	2.8	3.0	3.9	4.2	3.5	3.3	3.0	2.8	2.9	3.1	2.9	2.8	3.2
16	2.9	3.0	4.0	4.1	3.6	3.4	3.0	2.7	2.9	3.0	2.7	2.9	3.2
17	2.8	2.9	3.9	4.1	3.5	3.4	2.9	2.7	2.8	2.7	2.5	2.7	3.1
18	2.5	2.6	3.6	3.8	3.3	3.2	2.7	2.5	2.4	2.3	2.2	2.4	2.8
19	2.3	2.2	3.1	3.4	2.9	2.9	2.3	2.0	1.8	2.0	2.0	2.3	2.4
20	2.2	2.1	2.7	2.8	2.3	2.4	1.8	1.7	1.5	1.8	2.0	2.2	2.1
21	2.1	2.0	2.4	2.6	2.0	2.0	1.4	1.5	1.5	1.8	2.0	2.0	1.9
22	1.8	2.0	2.4	2.4	1.9	1.8	1.3	1.4	1.5	1.7	1.9	2.1	1.8
23	1.8	1.9	2.2	2.4	1.9	1.6	1.3	1.3	1.5	1.6	1.9	1.9	1.8
Day	2.1	2.1	2.7	2.8	2.4	2.1	1.8	1.7	1.8	2.0	2.1	2.1	2.1

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.96	4.43	3.80	2.61	2.70	3.62	5.48	6.98	6.92	1.70	1.81	3.19	4.71
	1.95	1.86	1.87	1.57	1.53	1.87	1.99	1.90	1.62	1.18	1.01	1.27	1.47
25	6.53	4.86	4.16	2.87	2.97	3.97	6.01	7.65	7.58	1.87	2.00	3.51	5.17
	2.01	1.92	1.93	1.62	1.58	1.93	2.05	1.96	1.66	1.21	1.03	1.31	1.51
50	7.02	5.22	4.47	3.09	3.19	4.27	6.45	8.22	8.13	2.03	2.17	3.79	5.57
	2.06	1.97	1.98	1.67	1.62	1.98	2.10	2.01	1.71	1.24	1.06	1.34	1.54
100	7.60	5.66	4.85	3.34	3.45	4.62	7.00	8.91	8.74	2.18	2.33	4.09	6.02
	2.00	1.91	1.92	1.61	1.57	1.92	2.04	1.94	1.67	1.21	1.03	1.30	1.51
200	8.39	6.24	5.35	3.67	3.79	5.10	7.72	9.83	9.51	2.38	2.52	4.47	6.61
	1.89	1.81	1.82	1.53	1.49	1.81	1.93	1.84	1.60	1.15	0.98	1.24	1.46
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.05	2.98	2.59	1.82	1.88	2.47	3.72	4.68	4.68	0.99	1.15	2.12	3.17
	1.65	1.54	1.58	1.37	1.34	1.56	1.67	1.58	1.40	0.92	0.86	1.08	1.30
25	4.87	3.59	3.12	2.20	2.27	2.98	4.48	5.64	5.61	1.22	1.43	2.59	3.83
	1.78	1.67	1.71	1.48	1.44	1.68	1.81	1.71	1.49	0.98	0.92	1.17	1.38
50	5.66	4.18	3.63	2.57	2.66	3.47	5.20	6.56	6.49	1.48	1.73	3.08	4.48
	2.00	1.87	1.92	1.66	1.62	1.89	2.03	1.92	1.64	1.09	1.02	1.30	1.51
100	6.72	4.98	4.32	3.07	3.18	4.12	6.18	7.80	7.62	1.79	2.10	3.69	5.34
	2.13	1.99	2.04	1.76	1.72	2.01	2.16	2.04	1.75	1.15	1.08	1.38	1.58
200	8.36	6.18	5.36	3.80	3.94	5.12	7.68	9.69	9.23	2.19	2.58	4.56	6.60
	2.04	1.90	1.95	1.69	1.65	1.92	2.06	1.95	1.68	1.11	1.03	1.32	1.54
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.49	2.60	2.24	1.54	1.61	2.14	3.20	4.06	4.04	0.79	0.82	1.84	2.73
	1.63	1.56	1.56	1.34	1.31	1.57	1.65	1.58	1.40	0.88	0.77	1.09	1.29
25	4.33	3.22	2.78	1.92	2.01	2.66	3.97	5.04	5.00	1.00	1.06	2.32	3.39
	1.74	1.67	1.67	1.43	1.40	1.68	1.76	1.69	1.49	0.93	0.82	1.16	1.36
50	5.10	3.80	3.28	2.28	2.39	3.13	4.68	5.94	5.87	1.23	1.31	2.79	4.03
	1.93	1.85	1.85	1.58	1.54	1.86	1.95	1.87	1.61	1.02	0.89	1.28	1.47
100	6.09	4.55	3.93	2.74	2.88	3.75	5.58	7.10	6.97	1.51	1.63	3.38	4.84
	2.12	2.03	2.03	1.73	1.69	2.05	2.14	2.06	1.77	1.11	0.97	1.40	1.58
200	7.51	5.60	4.84	3.37	3.54	4.62	6.88	8.76	8.42	1.84	1.97	4.14	5.93
	2.03	1.95	1.94	1.66	1.62	1.96	2.05	1.97	1.70	1.06	0.93	1.34	1.53
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.75	2.02	1.77	1.22	1.25	1.70	2.53	3.17	3.17	0.80	0.77	1.54	2.16
	1.67	1.54	1.57	1.33	1.28	1.60	1.69	1.60	1.42	1.04	0.85	1.16	1.32
25	3.63	2.67	2.34	1.62	1.67	2.25	3.34	4.19	4.18	1.07	1.04	2.06	2.87
	1.77	1.63	1.67	1.40	1.36	1.69	1.79	1.69	1.49	1.10	0.89	1.23	1.38
50	4.40	3.24	2.84	1.98	2.04	2.72	4.05	5.08	5.06	1.32	1.30	2.53	3.49
	1.92	1.77	1.81	1.52	1.47	1.84	1.94	1.83	1.60	1.18	0.96	1.33	1.47
100	5.32	3.93	3.44	2.42	2.49	3.30	4.90	6.16	6.12	1.64	1.65	3.11	4.26
	2.19	2.01	2.06	1.73	1.67	2.09	2.21	2.09	1.80	1.34	1.08	1.51	1.62
200	6.50	4.79	4.20	2.94	3.03	4.03	5.98	7.51	7.39	1.99	1.99	3.79	5.19
	2.11	1.94	1.98	1.67	1.61	2.02	2.13	2.01	1.75	1.29	1.04	1.46	1.58
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.3	132	2.9	52	2.5	34	2.0	16
25	4.7	167	3.5	81	3.1	58	2.6	34
50	5.0	201	4.0	109	3.6	83	3.2	54
100	5.4	263	4.8	169	4.3	126	3.8	82
200	6.0	375	5.9	337	5.3	246	4.7	155

PORTOROZ

45°31'14" N 13°34'52" E UTM 33 E 5389160 m N 5042770 m 92 m a.s.l.

Location is on a peninsula of the coast of the Adriatic Sea. Anemometer is located on the hill which slopes down to the coastline in directions N, W and S and distance to the see is 600-1400 m. Anemometer is located 1 m above the platform of a 13 m high building which has a base of 7 x 8 m. There are many buildings close to the anemometer.

Height of anemometer: 13.0 m a.g.l. *Period:* 82010101 - 90123124

Sect	z_{01}	x_1	z_{02}	x_2	z_{03}	x_3	z_{04}	x_4	z_{05}	x_5	z_{06}
0	0.100	290	0.400	1000	0.0	0	0.0				
30	0.100	170	0.400	750	0.0	0	0.0				
60	0.100	90	0.400	1150	0.003	2500	0.117				
90	0.100	210	0.400	0	0.0	0	0.0				
120	0.400	1150	0.117	2600	0.400	0	0.0				
150	0.400	500	0.127	1100	0.0	2200	0.064				
180	0.400	600	0.0	3850	0.079	0	0.0				
210	0.400	750	0.0	3750	0.292	0	0.0				
240	0.100	100	0.400	630	0.0	3800	0.052				
270	0.100	95	0.400	650	0.0	0	0.0				
300	0.100	95	0.400	850	0.0	0	0.0				
330	0.100	185	0.400	750	0.117	1450	0.0				

Sect	Freq	<1	2	3	4	5	6	7	8	9	11	13	15	17	>17	A	k
0	2.8	163	318	233	130	64	38	24	13	7	3	2	1	1	1	2.7	1.24
30	8.3	129	357	257	102	60	33	20	14	9	10	4	3	1	0	2.6	1.11
60	37.5	59	168	138	90	82	78	69	67	64	89	53	27	11	5	6.1	1.50
90	1.4	156	303	219	136	79	42	27	19	7	13	0	0	0	0	2.8	1.33
120	1.9	220	413	226	83	31	14	6	3	1	2	0	0	1	0	2.1	1.34
150	20.2	97	252	223	129	78	63	47	34	23	28	15	7	3	1	3.5	1.15
180	5.6	96	174	123	98	96	74	81	68	58	71	38	16	6	2	5.4	1.48
210	5.1	64	131	145	138	135	118	88	74	46	41	12	6	2	0	5.1	1.77
240	7.0	75	222	297	237	94	34	14	10	6	6	2	1	0	0	3.2	1.69
270	2.1	121	244	343	235	41	11	3	1	1	0	1	0	0	0	2.8	2.40
300	3.0	98	245	359	217	59	16	1	1	1	2	0	0	0	0	2.9	2.10
330	5.2	135	304	264	150	86	31	14	8	4	2	1	0	1	0	2.8	1.53
Total	100.0	90	225	198	124	81	61	49	43	36	47	26	13	5	2	4.0	1.14

LST	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0	4.0	4.4	4.6	4.2	3.7	3.4	3.2	3.3	3.7	4.3	4.3	4.2	3.9
1	3.9	4.5	4.5	4.1	3.6	3.3	3.1	3.3	3.6	4.0	4.1	4.3	3.9
2	3.9	4.3	4.5	4.2	3.6	3.4	3.0	3.2	3.4	4.1	4.3	4.2	3.8
3	3.8	4.3	4.5	4.2	3.6	3.3	3.0	3.2	3.4	4.1	4.2	4.3	3.8
4	3.8	4.3	4.4	4.1	3.6	3.2	2.9	3.1	3.3	4.0	4.1	4.2	3.8
5	3.9	4.4	4.6	4.3	3.7	3.2	3.0	3.1	3.4	4.0	4.2	4.2	3.8
6	3.9	4.3	4.5	4.3	3.7	3.2	2.9	3.1	3.2	4.0	4.2	4.3	3.8
7	3.9	4.1	4.5	4.4	3.8	3.0	2.8	3.1	3.2	3.9	4.2	4.3	3.8
8	3.9	4.2	4.5	4.4	3.7	2.9	2.8	3.1	3.1	3.9	4.1	4.4	3.7
9	3.8	4.2	4.5	4.4	3.8	3.0	2.9	3.1	3.2	3.8	4.2	4.5	3.8
10	3.8	4.4	4.6	4.5	3.9	3.2	3.1	3.3	3.2	3.9	4.0	4.5	3.9
11	3.9	4.5	4.8	4.8	4.2	3.5	3.5	3.7	3.5	4.0	4.2	4.5	4.1
12	3.9	4.7	5.1	5.0	4.6	3.8	3.8	3.9	3.7	4.1	4.2	4.5	4.3
13	3.9	4.8	5.2	5.2	4.8	4.1	4.0	4.2	3.9	4.3	4.3	4.6	4.4
14	3.9	4.9	5.3	5.4	5.0	4.3	4.2	4.4	4.1	4.4	4.5	4.6	4.6
15	3.9	4.8	5.2	5.1	4.9	4.4	4.2	4.3	4.1	4.4	4.5	4.5	4.5
16	3.8	4.7	5.2	4.9	4.7	4.3	4.2	4.1	4.0	4.4	4.4	4.5	4.4
17	3.9	4.6	5.1	4.7	4.5	4.1	4.0	3.7	3.9	4.2	4.4	4.5	4.3
18	4.0	4.4	4.8	4.5	4.3	3.8	3.6	3.4	3.5	4.0	4.5	4.4	4.1
19	4.0	4.3	4.5	4.3	4.0	3.5	3.2	3.0	3.5	4.0	4.5	4.4	3.9
20	4.1	4.3	4.5	4.3	3.8	3.5	3.1	3.0	3.5	4.1	4.5	4.3	3.9
21	4.0	4.3	4.5	4.3	3.8	3.4	3.1	3.0	3.5	4.2	4.4	4.2	3.9
22	4.0	4.4	4.7	4.3	3.8	3.3	3.2	3.0	3.5	4.3	4.4	4.4	3.9
23	4.0	4.5	4.8	4.2	3.9	3.4	3.2	3.2	3.7	4.3	4.4	4.3	4.0
Day	3.9	4.4	4.7	4.5	4.0	3.5	3.3	3.4	3.5	4.1	4.3	4.4	4.0

Roughness Class 0 (0.0002 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	5.96	4.43	3.80	2.61	2.70	3.62	5.48	6.98	6.92	1.70	1.81	3.19	4.71
	1.95	1.86	1.87	1.57	1.53	1.87	1.99	1.90	1.62	1.18	1.01	1.27	1.47
25	6.53	4.86	4.16	2.87	2.97	3.97	6.01	7.65	7.58	1.87	2.00	3.51	5.17
	2.01	1.92	1.93	1.62	1.58	1.93	2.05	1.96	1.66	1.21	1.03	1.31	1.51
50	7.02	5.22	4.47	3.09	3.19	4.27	6.45	8.22	8.13	2.03	2.17	3.79	5.57
	2.06	1.97	1.98	1.67	1.62	1.98	2.10	2.01	1.71	1.24	1.06	1.34	1.54
100	7.60	5.66	4.85	3.34	3.45	4.62	7.00	8.91	8.74	2.18	2.33	4.09	6.02
	2.00	1.91	1.92	1.61	1.57	1.92	2.04	1.94	1.67	1.21	1.03	1.30	1.51
200	8.39	6.24	5.35	3.67	3.79	5.10	7.72	9.83	9.51	2.38	2.52	4.47	6.61
	1.89	1.81	1.82	1.53	1.49	1.81	1.93	1.84	1.60	1.15	0.98	1.24	1.46
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

Roughness Class 1 (0.0300 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	4.05	2.98	2.59	1.82	1.88	2.47	3.72	4.68	4.68	0.99	1.15	2.12	3.17
	1.65	1.54	1.58	1.37	1.34	1.56	1.67	1.58	1.40	0.92	0.86	1.08	1.30
25	4.87	3.59	3.12	2.20	2.27	2.98	4.48	5.64	5.61	1.22	1.43	2.59	3.83
	1.78	1.67	1.71	1.48	1.44	1.68	1.81	1.71	1.49	0.98	0.92	1.17	1.38
50	5.66	4.18	3.63	2.57	2.66	3.47	5.20	6.56	6.49	1.48	1.73	3.08	4.48
	2.00	1.87	1.92	1.66	1.62	1.89	2.03	1.92	1.64	1.09	1.02	1.30	1.51
100	6.72	4.98	4.32	3.07	3.18	4.12	6.18	7.80	7.62	1.79	2.10	3.69	5.34
	2.13	1.99	2.04	1.76	1.72	2.01	2.16	2.04	1.75	1.15	1.08	1.38	1.58
200	8.36	6.18	5.36	3.80	3.94	5.12	7.68	9.69	9.23	2.19	2.58	4.56	6.60
	2.04	1.90	1.95	1.69	1.65	1.92	2.06	1.95	1.68	1.11	1.03	1.32	1.54
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

Roughness Class 2 (0.1000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	3.49	2.60	2.24	1.54	1.61	2.14	3.20	4.06	4.04	0.79	0.82	1.84	2.73
	1.63	1.56	1.56	1.34	1.31	1.57	1.65	1.58	1.40	0.88	0.77	1.09	1.29
25	4.33	3.22	2.78	1.92	2.01	2.66	3.97	5.04	5.00	1.00	1.06	2.32	3.39
	1.74	1.67	1.67	1.43	1.40	1.68	1.76	1.69	1.49	0.93	0.82	1.16	1.36
50	5.10	3.80	3.28	2.28	2.39	3.13	4.68	5.94	5.87	1.23	1.31	2.79	4.03
	1.93	1.85	1.85	1.58	1.54	1.86	1.95	1.87	1.61	1.02	0.89	1.28	1.47
100	6.09	4.55	3.93	2.74	2.88	3.75	5.58	7.10	6.97	1.51	1.63	3.38	4.84
	2.12	2.03	2.03	1.73	1.69	2.05	2.14	2.06	1.77	1.11	0.97	1.40	1.58
200	7.51	5.60	4.84	3.37	3.54	4.62	6.88	8.76	8.42	1.84	1.97	4.14	5.93
	2.03	1.95	1.94	1.66	1.62	1.96	2.05	1.97	1.70	1.06	0.93	1.34	1.53
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

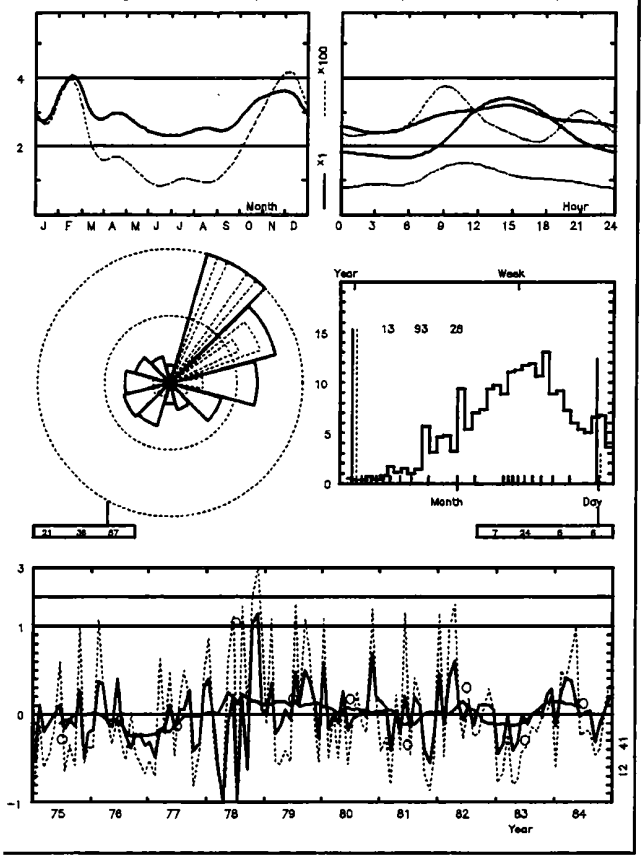
Roughness Class 3 (0.4000 m)

z	0	30	60	90	120	150	180	210	240	270	300	330	Total
10	2.75	2.02	1.77	1.22	1.25	1.70	2.53	3.17	3.17	0.80	0.77	1.54	2.16
	1.67	1.54	1.57	1.33	1.28	1.60	1.69	1.60	1.42	1.04	0.85	1.16	1.32
25	3.63	2.67	2.34	1.62	1.67	2.25	3.34	4.19	4.18	1.07	1.04	2.06	2.87
	1.77	1.63	1.67	1.40	1.36	1.69	1.79	1.69	1.49	1.10	0.89	1.23	1.38
50	4.40	3.24	2.84	1.98	2.04	2.72	4.05	5.08	5.06	1.32	1.30	2.53	3.49
	1.92	1.77	1.81	1.52	1.47	1.84	1.94	1.83	1.60	1.18	0.96	1.33	1.47
100	5.32	3.93	3.44	2.42	2.49	3.30	4.90	6.16	6.12	1.64	1.65	3.11	4.26
	2.19	2.01	2.06	1.73	1.67	2.09	2.21	2.09	1.80	1.34	1.08	1.51	1.62
200	6.50	4.79	4.20	2.94	3.03	4.03	5.98	7.51	7.39	1.99	1.99	3.79	5.19
	2.11	1.94	1.98	1.67	1.61	2.02	2.13	2.01	1.75	1.29	1.04	1.46	1.58
Freq	17.3	7.2	7.5	4.6	4.4	9.4	17.1	9.8	8.1	3.0	3.3	8.2	

z	Class 0		Class 1		Class 2		Class 3	
m	m/s	W/m²	m/s	W/m²	m/s	W/m²	m/s	W/m²
10	4.3	132	2.9	52	2.5	34	2.0	16
25	4.7	167	3.5	81	3.1	58	2.6	34
50	5.0	201	4.0	109	3.6	83	3.2	54
100	5.4	263	4.8	169	4.3	126	3.8	82
200	6.0	375	5.9	337	5.3	246	4.7	155

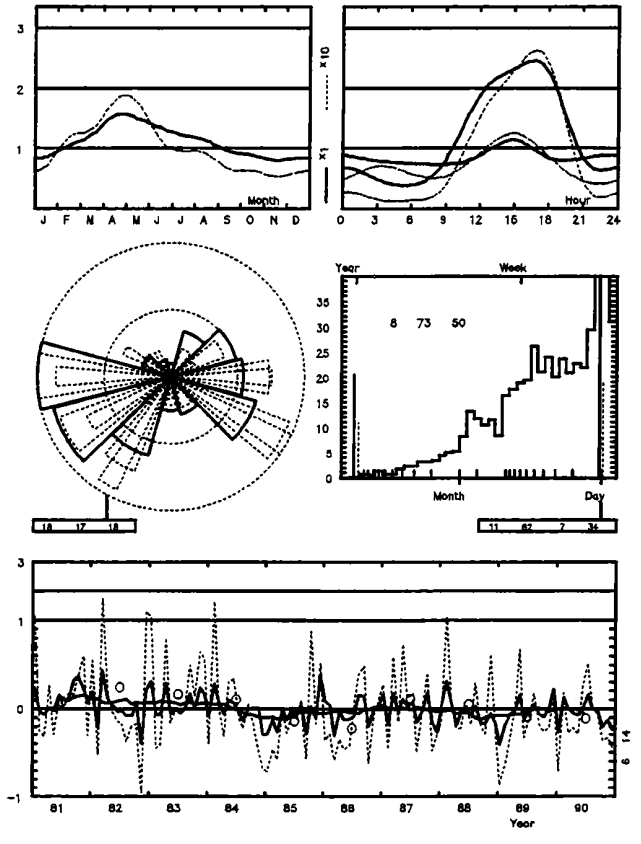
Ajdovscina 1975–84

7.0 m agl, mean 2.9 m/s, st dev 3.5 m/s, cube 216. m^3/s^3



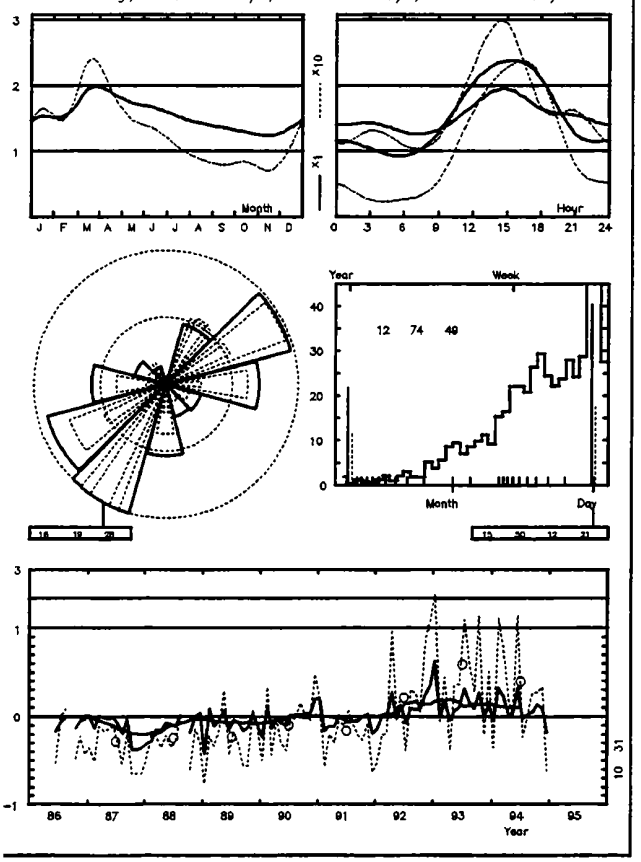
Bmik 1981–90

10.0 m agl, mean 1.1 m/s, st dev 1.2 m/s, cube 10. m^3/s^3



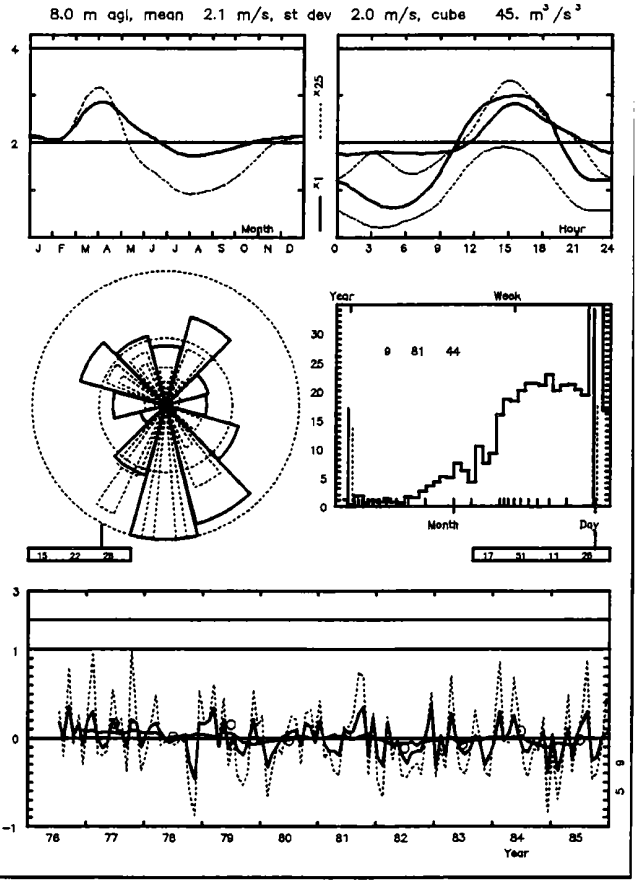
Krsko 1986–94

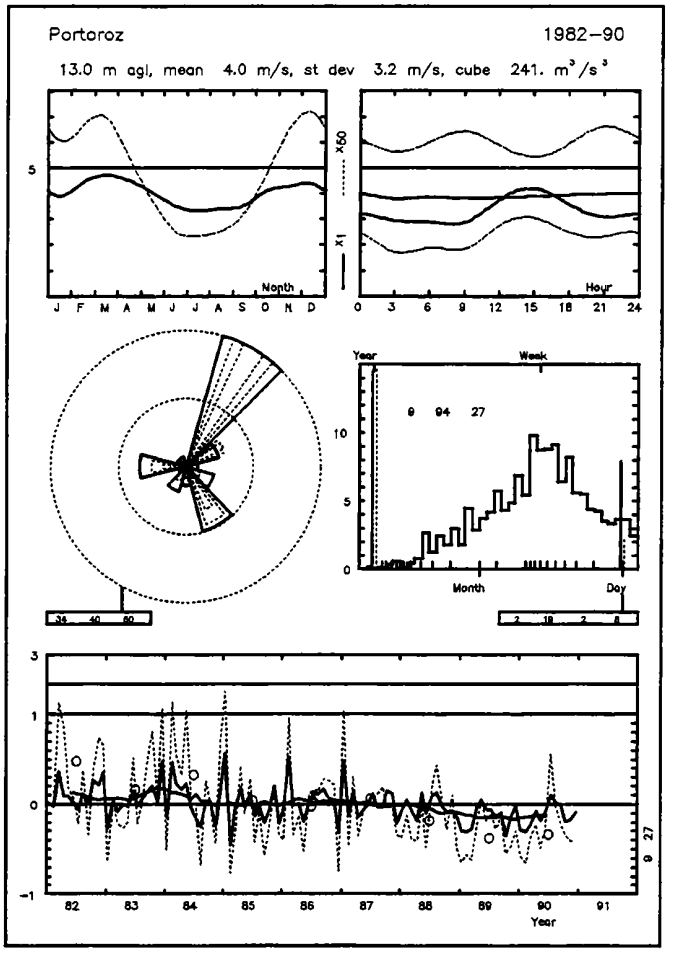
10.0 m agl, mean 1.5 m/s, st dev 1.2 m/s, cube 13. m^3/s^3



Maribor 1976–85

8.0 m agl, mean 2.1 m/s, st dev 2.0 m/s, cube 45. m^3/s^3




Portoroz
1982–90
13.0 m agl, mean 4.0 m/s, st dev 3.2 m/s, cube 241. m³/s³
5
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Month
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