

Project:
CHK_LAGOON

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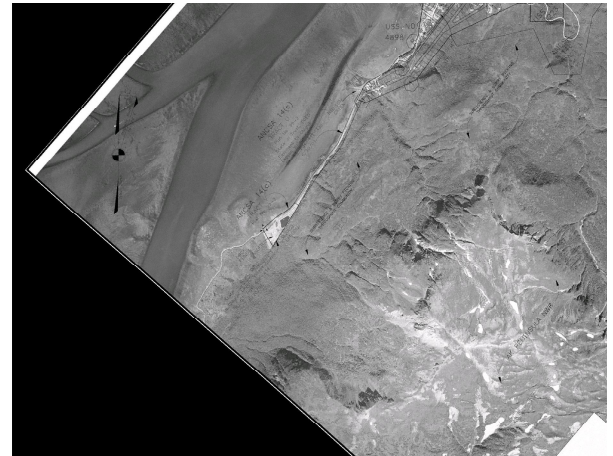
Meteo data report - Main results

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period: Full period: 8/29/2010 - 1/6/2011 (4.3 months)**

Mast position: UTM WGS 84 Zone: 4 East: 527,445 North: 6,238,891

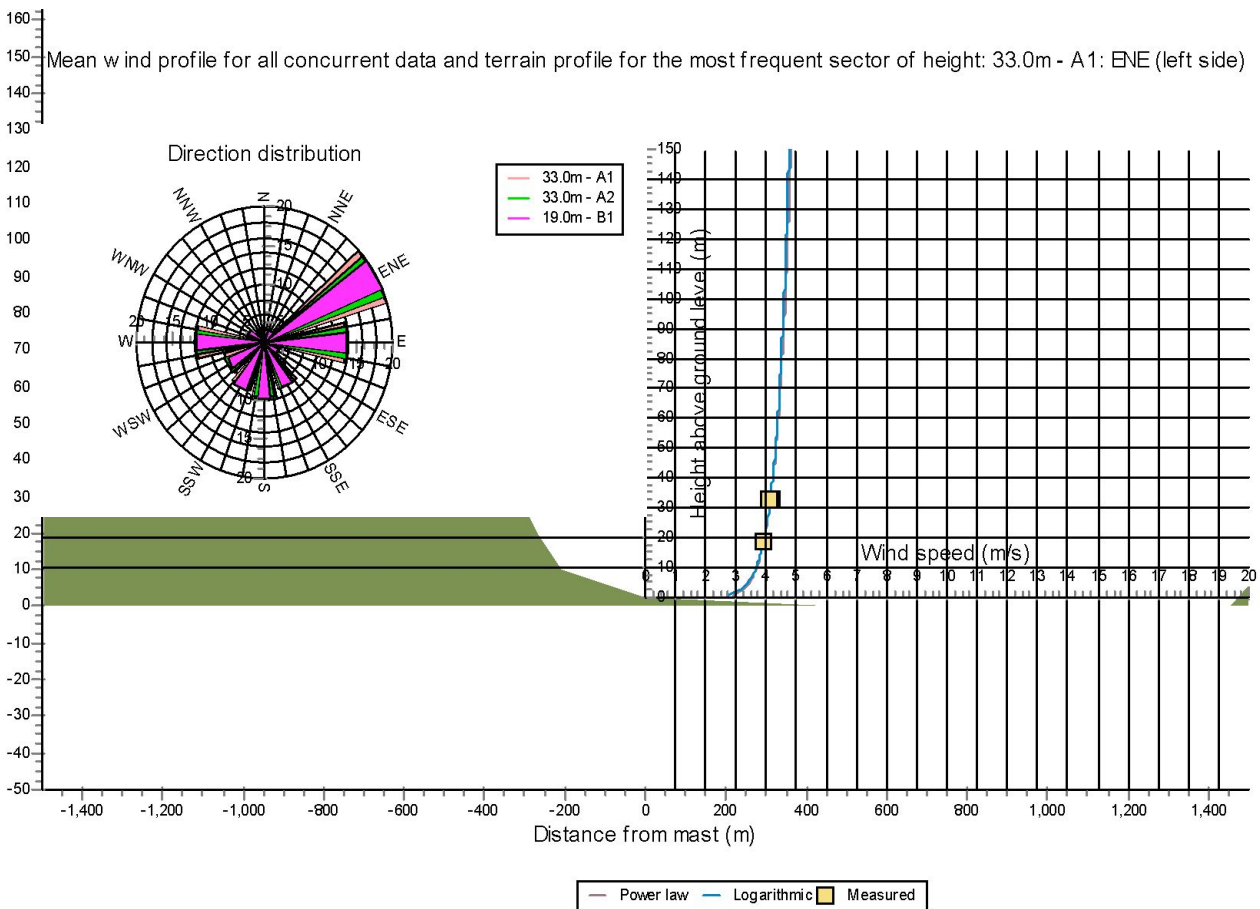
Measurement heights and wind speeds (in this report)
Disabled data not included in overview table below

ID	Height [m]	Data recovery [%]	Records	U_max [m/s]	U_mean *) [m/s]
33.0m - A1	33.0	97.3	18192	17.0	4.0
33.0m - A2	33.0	97.5	18226	16.8	3.9
19.0m - B1	19.0	96.7	18085	16.0	3.8



Scale: 50,000

*) U_mean is simple arithmetic average



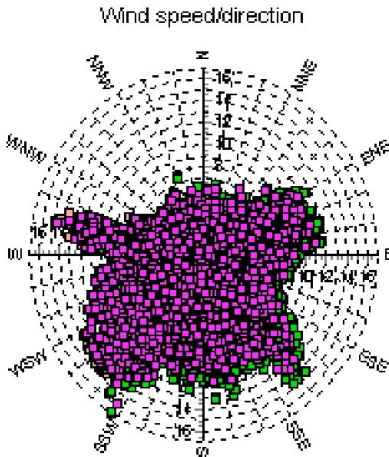
Profile characteristics for best curve fit through all data (Note: Values are only fully valid in flat terrain)
 Shear exponent 0.1001 (Power law profile)
 Roughness length 0.0011 m class 0.35 (Equivalent roughness for logarithmic profile)

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Meteo data report - Main results

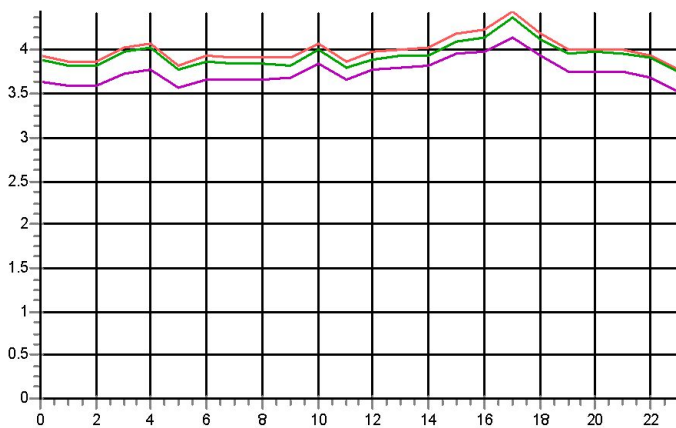
Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)



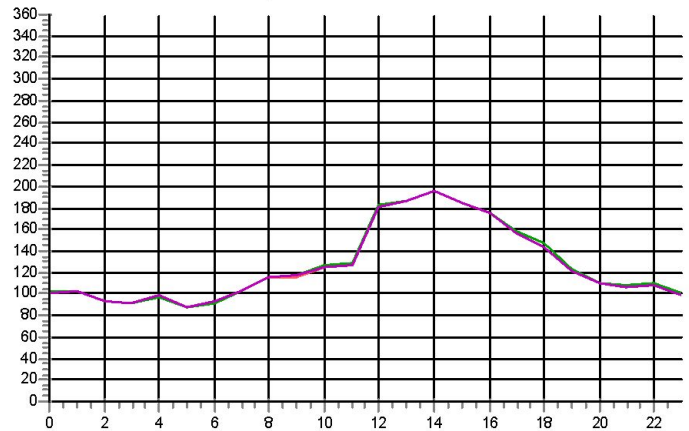
Statistics

Signal	Unit	Count	Of period	Mean	Weibull mean	Weibull A	Weibull k
				[%]			
33.0m - A1 WS, all	m/s	18694	100.0	3.92			
33.0m - A1 WS, enabled	m/s	18192	97.3	4.00	4.18	4.69	1.68
33.0m - A1 WD, all	Degrees	18694	100.0	125.85			
33.0m - A1 WD, enabled	Degrees	18192	97.3	128.46			
33.0m - A1 Tu, all		18694	100.0	0.30			
33.0m - A1 Tu, enabled		8084	43.2	0.24			
33.0m - A1 T, all	Deg C	18517	99.1	3.12			
33.0m - A1 T, enabled	Deg C	18442	98.7	3.09			
33.0m - A2 WS, all	m/s	18694	100.0	3.87			
33.0m - A2 WS, enabled	m/s	18226	97.5	3.95	4.13	4.62	1.69
33.0m - A2 WD, all	Degrees	18694	100.0	125.85			
33.0m - A2 WD, enabled	Degrees	18226	97.5	129.05			
33.0m - A2 Tu, all		18694	100.0	0.30			
33.0m - A2 Tu, enabled		7971	42.6	0.25			
19.0m - B1 WS, all	m/s	18694	100.0	3.66			
19.0m - B1 WS, enabled	m/s	18085	96.7	3.75	3.92	4.39	1.70
19.0m - B1 WD, all	Degrees	18694	100.0	125.85			
19.0m - B1 WD, enabled	Degrees	18085	96.7	127.74			
19.0m - B1 Tu, all		18694	100.0	0.31			
19.0m - B1 Tu, enabled		7453	39.9	0.25			

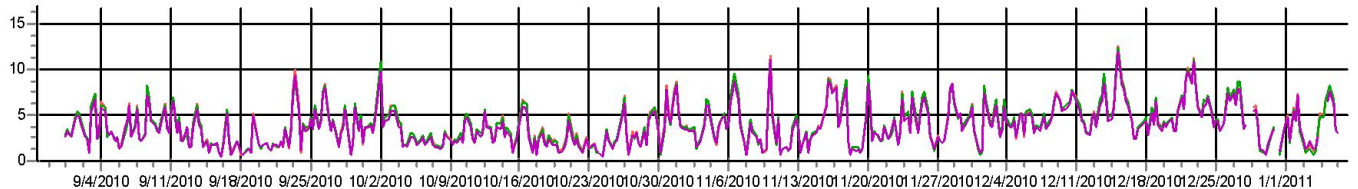
Hourly mean wind speed



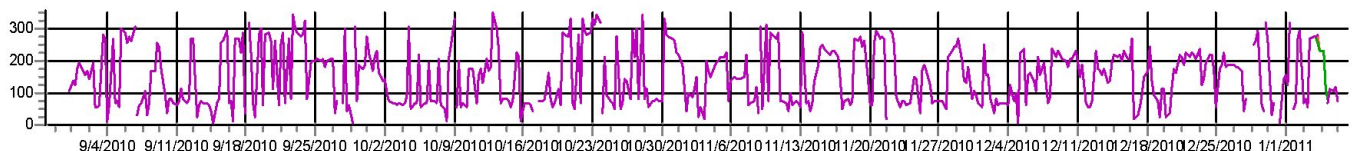
Hourly mean wind direction



Wind speed, Averaging: 6 hours



Wind direction, Averaging: 6 hours



— 33.0m - A1 — 33.0m - A2 — 19.0m - B1

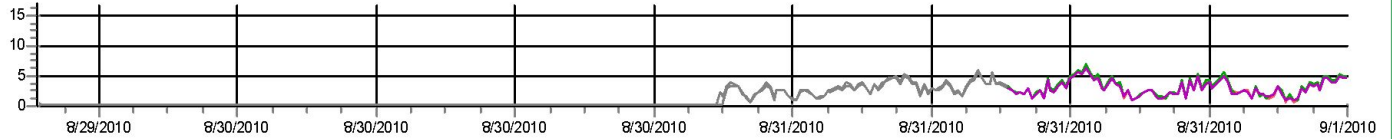
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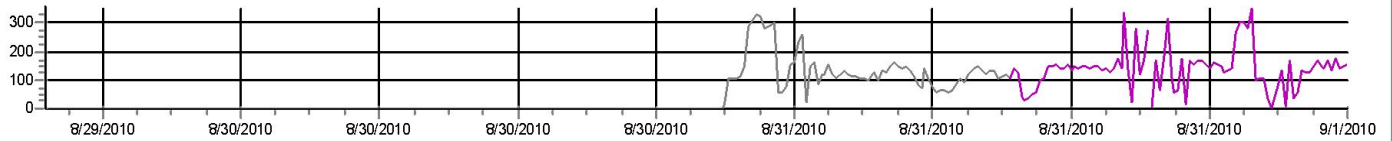
Meteo data report - Time series graphs

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period: Full period: 8/29/2010 - 1/6/2011 (4.3 months)**

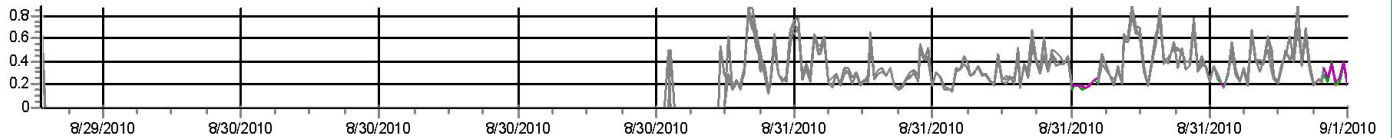
WS, Averaging: None



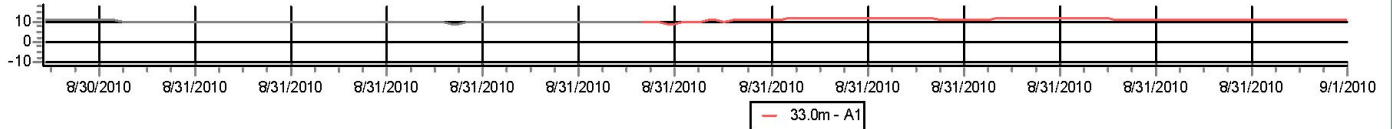
WD, Averaging: None



Tu, Averaging: None

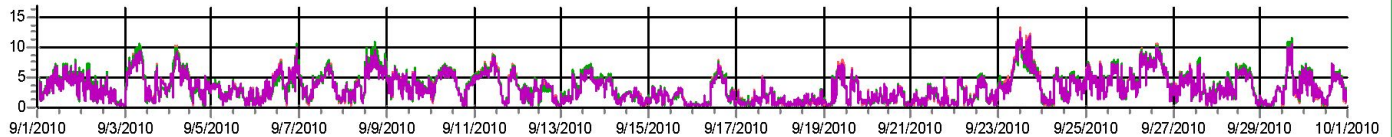


T, Averaging: None

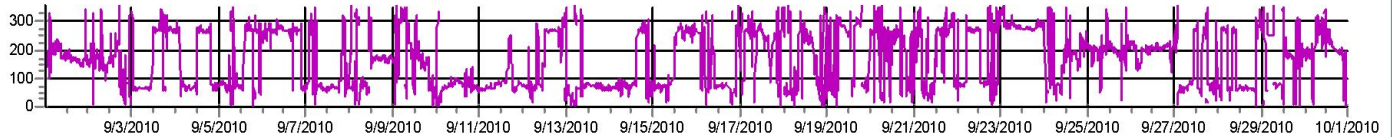


— 33.0m - A1

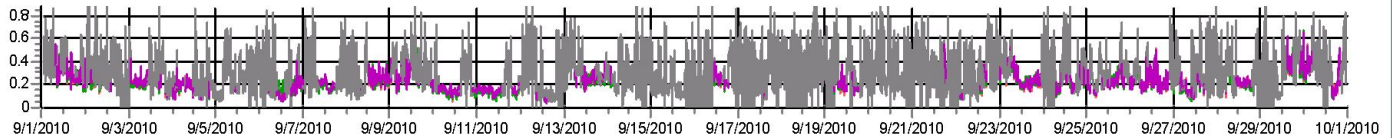
WS, Averaging: None



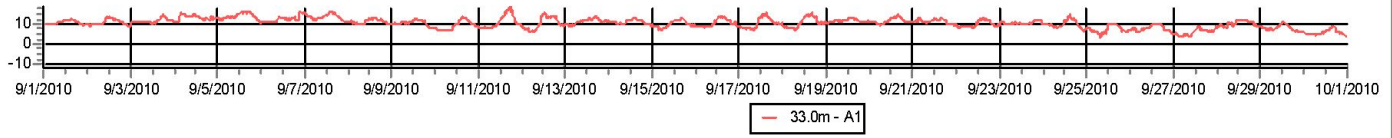
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Tu, Averaging: None



T, Averaging: None



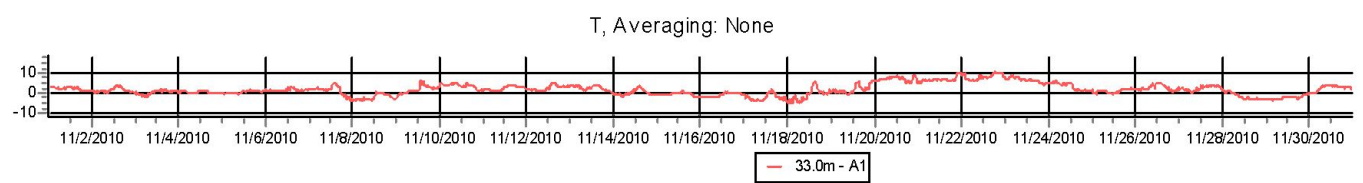
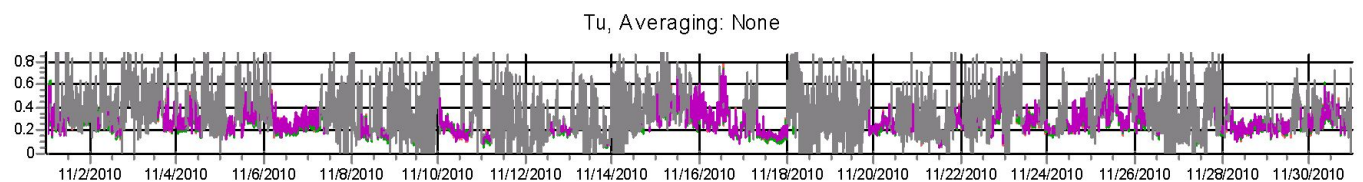
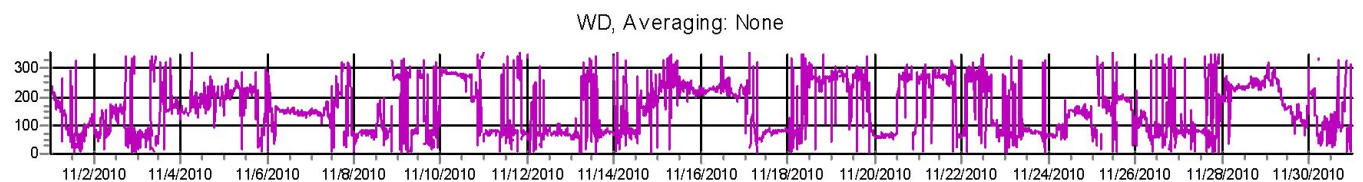
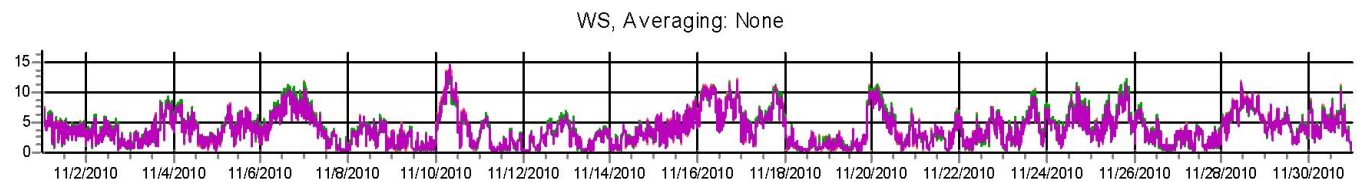
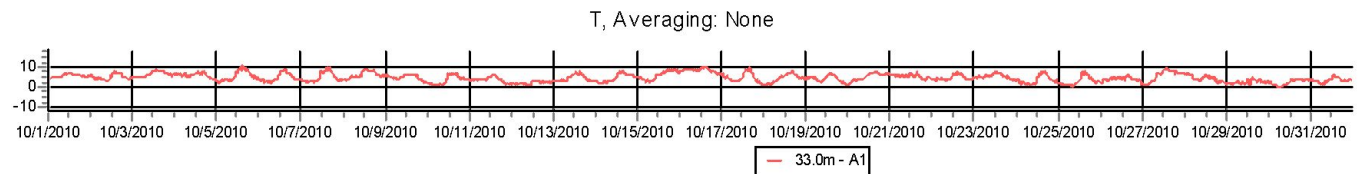
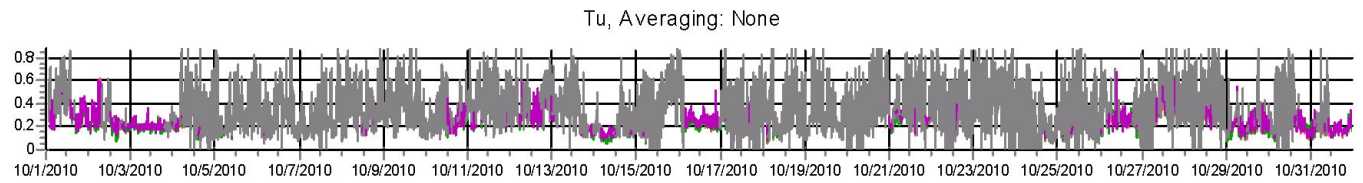
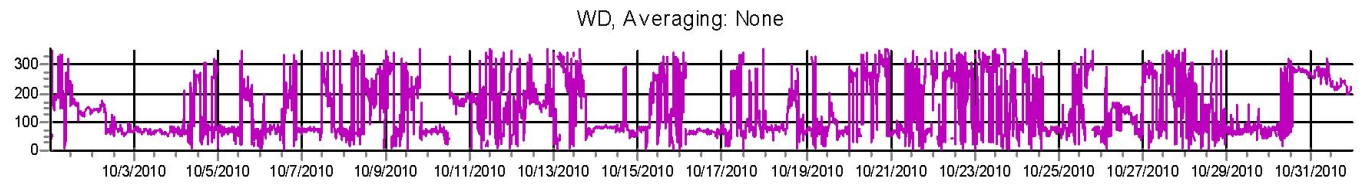
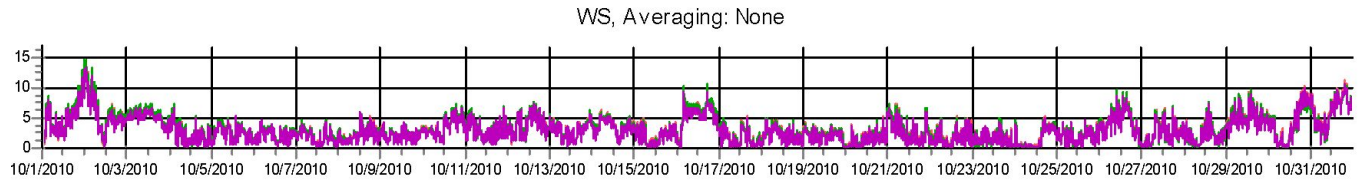
— 33.0m - A1

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Meteo data report - Time series graphs

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period: Full period: 8/29/2010 - 1/6/2011 (4.3 months)**



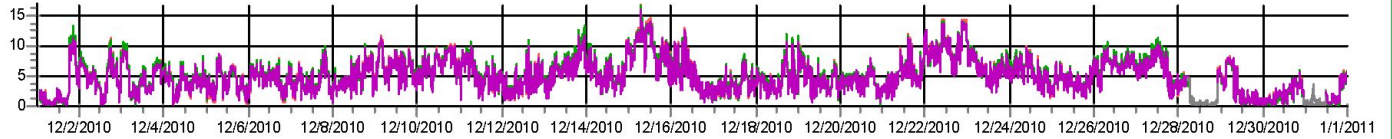
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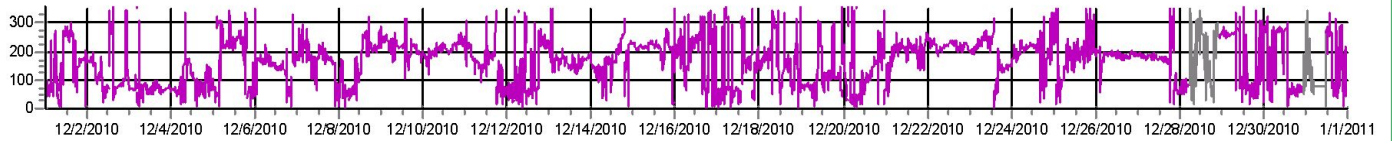
Meteo data report - Time series graphs

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period: Full period: 8/29/2010 - 1/6/2011 (4.3 months)**

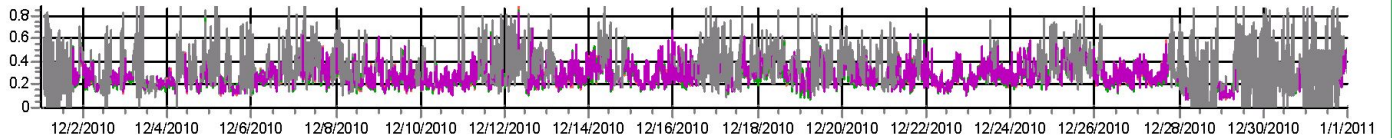
WS, Averaging: None



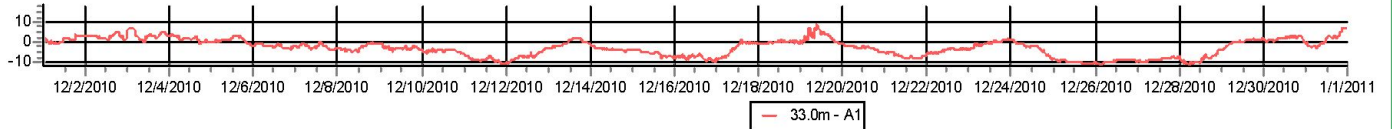
WD, Averaging: None



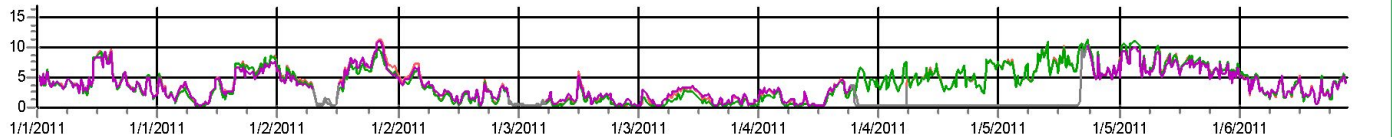
Tu, Averaging: None



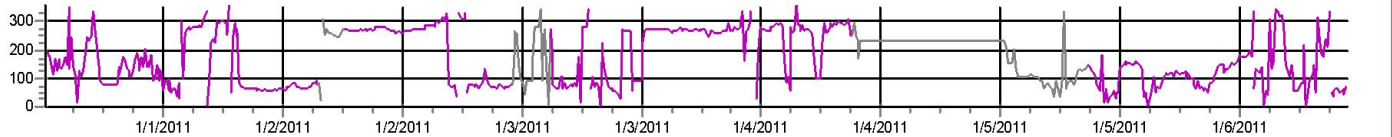
T, Averaging: None



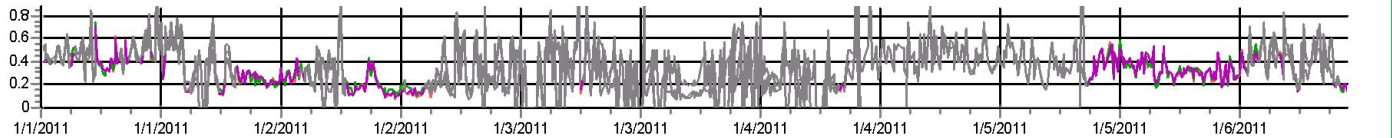
WS, Averaging: None



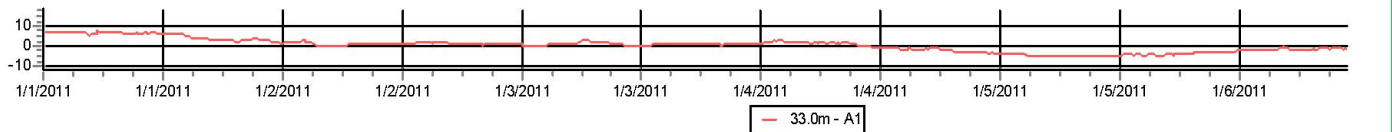
WD, Averaging: None



Tu, Averaging: None



T, Averaging: None



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Meteo data report - Monthly wind speeds**Mast:** CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)**Monthly wind speeds**

33.0m - A1

Month	2010	2011	Mean	Mean of month
January		4.21	4.21	4.21
February				
March				
April				
May				
June				
July				
August	3.13		3.13	3.13
September	3.45		3.45	3.45
October	3.28		3.28	3.28
November	4.07		4.07	4.07
December	5.23		5.23	5.23
mean, all data	4.00	4.21		
mean of months	3.83	4.21		3.89

Monthly wind speeds

33.0m - A2

Month	2010	2011	Mean	Mean of month
January		4.01	4.01	4.01
February				
March				
April				
May				
June				
July				
August	3.19		3.19	3.19
September	3.39		3.39	3.39
October	3.19		3.19	3.19
November	4.05		4.05	4.05
December	5.21		5.21	5.21
mean, all data	3.95	4.01		
mean of months	3.81	4.01		3.84

Monthly wind speeds

19.0m - B1

Month	2010	2011	Mean	Mean of month
January		3.78	3.78	3.78
February				
March				
April				
May				
June				
July				
August	2.97		2.97	2.97
September	3.26		3.26	3.26
October	2.96		2.96	2.96
November	3.86		3.86	3.86
December	4.97		4.97	4.97
mean, all data	3.75	3.78		
mean of months	3.60	3.78		3.63

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Meteo data report - Mean turbulence

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Mean turbulence

33.0m - A1

Bin	Start	End	Mean	0-N	1-NNE	2-NE	3-ENE	4-E	5-ESE	6-SE	7-SSE	8-S	9-SSW	10-SW	11-WSW	12-W	13-WNW	14-NW	15-NNW	
Mean			0.24	0.34	0.32	0.22	0.21	0.18	0.30	0.29	0.27	0.28	0.26	0.26	0.26	0.18	0.23	0.28	0.37	
0		0.49																		
1	0.50	1.49																		
2	1.50	2.49																		
3	2.50	3.49																		
4	3.50	4.49	0.26	0.32	0.35	0.24	0.21	0.19	0.32	0.33	0.31	0.33	0.30	0.38	0.30	0.18	0.24	0.31	0.38	
5	4.50	5.49	0.26	0.35	0.27	0.22	0.21	0.19	0.31	0.32	0.30	0.30	0.29	0.32	0.30	0.19	0.23	0.26	0.35	
6	5.50	6.49	0.24	0.35		0.22	0.20	0.18	0.31	0.31	0.27	0.28	0.27	0.27	0.26	0.19	0.24	0.26	0.38	
7	6.50	7.49	0.24		0.43	0.21	0.21	0.18	0.25	0.27	0.25	0.27	0.25	0.26	0.26	0.18	0.21			
8	7.50	8.49	0.23			0.21	0.22	0.19	0.26	0.26	0.24	0.25	0.23	0.24	0.23	0.18	0.23			
9	8.50	9.49	0.22			0.30	0.21	0.17	0.31	0.24	0.24	0.24	0.21	0.23	0.21	0.18	0.24			
10	9.50	10.49	0.22			0.21	0.21	0.16		0.24	0.25	0.23	0.21	0.22	0.20	0.19	0.23			
11	10.50	11.49	0.21				0.18	0.11		0.20	0.26	0.24	0.21	0.23	0.19	0.18	0.21			
12	11.50	12.49	0.20				0.09	0.09		0.23	0.21	0.25	0.23	0.20	0.15	0.17	0.20			
13	12.50	13.49	0.20							0.21	0.22	0.22	0.20	0.18	0.29	0.21	0.21			
14	13.50	14.49	0.18							0.18			0.20	0.16	0.18		0.20			
15	14.50	15.49	0.18							0.16				0.19			0.19			
16	15.50	16.49	0.17											0.17						
17	16.50	17.49	0.17										0.17							
18	17.50	18.49																		
19	18.50	19.49																		
20	19.50	20.49																		
21	20.50	21.49																		
22	21.50	22.49																		
23	22.50	23.49																		
24	23.50	24.49																		
25	24.50	25.49																		
26	25.50	26.49																		
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28	27.50	28.49																		
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36	35.50	36.49																		
37	36.50	37.49																		
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Meteo data report - Mean turbulence

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Mean turbulence

33.0m - A2

Bin	Start	End	Mean	0-N	1-NNE	2-NE	3-ENE	4-E	5-ESE	6-SE	7-SSE	8-S	9-SSW	10-SW	11-WSW	12-W	13-WNW	14-NW	15-NNW
Mean			0.25	0.32	0.29	0.22	0.20	0.19	0.30	0.29	0.27	0.28	0.26	0.26	0.26	0.21	0.25	0.27	0.36
0		0.49																	
1	0.50	1.49																	
2	1.50	2.49																	
3	2.50	3.49	0.46												0.46				
4	3.50	4.49	0.27	0.32	0.33	0.24	0.21	0.19	0.32	0.34	0.32	0.33	0.30	0.37	0.31	0.23	0.28	0.32	0.38
5	4.50	5.49	0.26	0.32	0.25	0.21	0.21	0.19	0.31	0.31	0.30	0.31	0.29	0.31	0.28	0.22	0.25	0.25	0.34
6	5.50	6.49	0.24	0.28	0.26	0.22	0.20	0.18	0.30	0.31	0.28	0.28	0.26	0.27	0.25	0.22	0.24	0.25	0.38
7	6.50	7.49	0.24	0.46	0.48	0.22	0.20	0.18	0.26	0.27	0.26	0.28	0.26	0.26	0.26	0.20	0.24		
8	7.50	8.49	0.24			0.21	0.22	0.20	0.26	0.26	0.24	0.26	0.23	0.23	0.24	0.20	0.24		
9	8.50	9.49	0.23			0.31	0.21	0.16	0.31	0.24	0.25	0.24	0.21	0.24	0.20	0.21	0.25		
10	9.50	10.49	0.22			0.21	0.20	0.15		0.25	0.25	0.24	0.22	0.22	0.21	0.21	0.22		
11	10.50	11.49	0.22				0.18	0.11		0.20	0.25	0.23	0.22	0.23	0.16	0.19	0.23		
12	11.50	12.49	0.22				0.09			0.23	0.22	0.25	0.21	0.21	0.19	0.20	0.22		
13	12.50	13.49	0.20							0.20	0.20	0.22	0.21	0.19	0.17		0.20		
14	13.50	14.49	0.17							0.19			0.21	0.16					
15	14.50	15.49	0.16							0.16				0.18					
16	15.50	16.49																	
17	16.50	17.49	0.17										0.17						
18	17.50	18.49																	
19	18.50	19.49																	
20	19.50	20.49																	
21	20.50	21.49																	
22	21.50	22.49																	
23	22.50	23.49																	
24	23.50	24.49																	
25	24.50	25.49																	
26	25.50	26.49																	
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33	32.50	33.49																	
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Meteo data report - Mean turbulence

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Mean turbulence

19.0m - B1

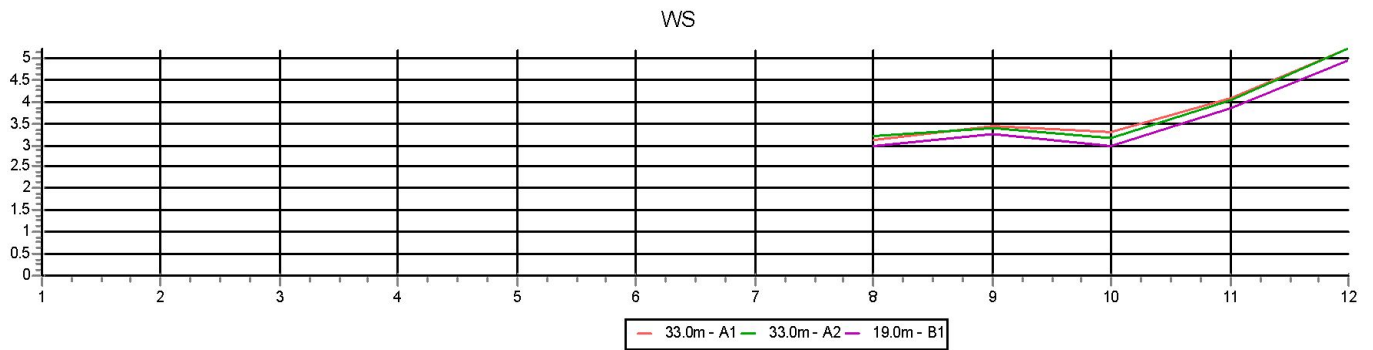
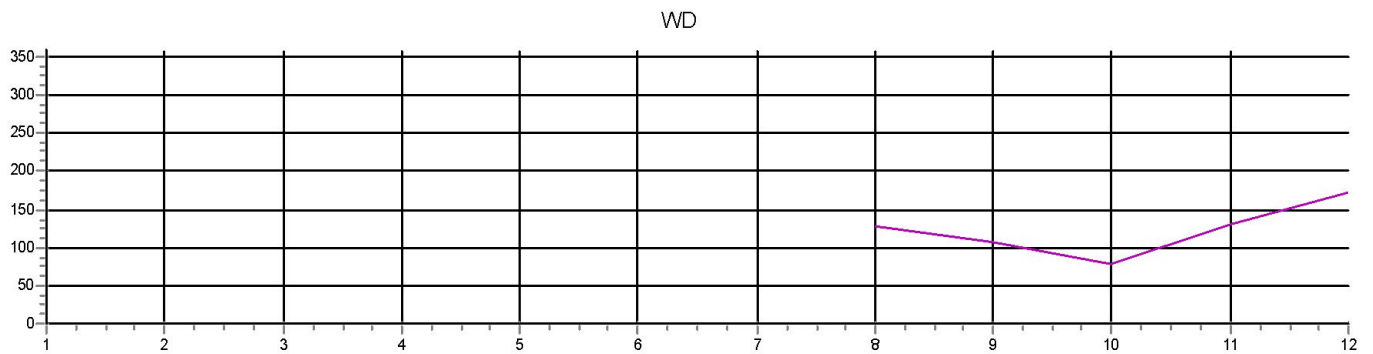
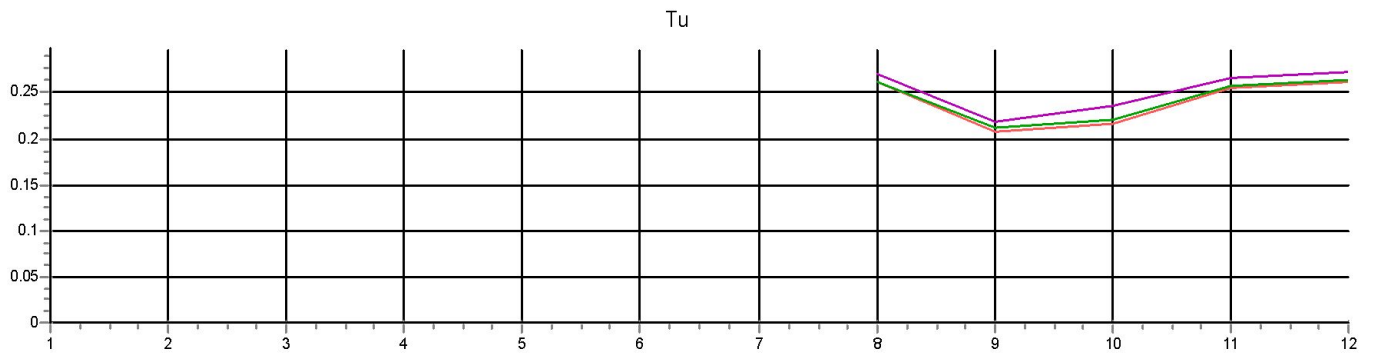
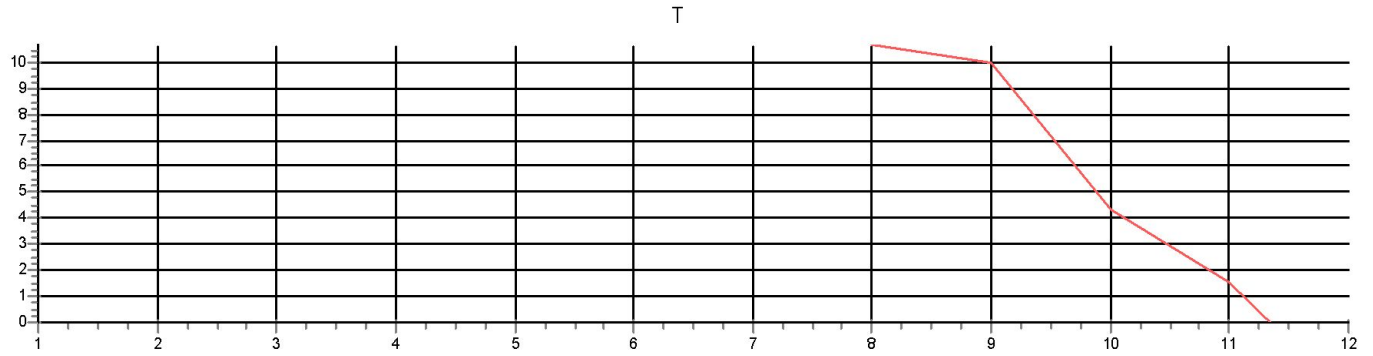
Bin	Start	End	Mean	0-N	1-NNE	2-NE	3-ENE	4-E	5-ESE	6-SE	7-SSE	8-S	9-SSW	10-SW	11-WSW	12-W	13-WNW	14-NW	15-NNW	
Mean			0.25	0.35	0.30	0.24	0.22	0.21	0.31	0.30	0.29	0.29	0.26	0.27	0.26	0.18	0.24	0.28	0.37	
0		0.49																		
1	0.50	1.49																		
2	1.50	2.49																		
3	2.50	3.49																		
4	3.50	4.49	0.28	0.36	0.34	0.24	0.23	0.21	0.31	0.34	0.33	0.35	0.30	0.39	0.29	0.16	0.26	0.34	0.34	
5	4.50	5.49	0.26	0.30	0.26	0.23	0.22	0.21	0.32	0.34	0.31	0.31	0.29	0.31	0.29	0.19	0.24	0.23	0.41	
6	5.50	6.49	0.25	0.38		0.24	0.22	0.20	0.31	0.30	0.28	0.29	0.27	0.27	0.27	0.18	0.25	0.29	0.38	
7	6.50	7.49	0.25		0.48	0.26	0.23	0.19	0.28	0.29	0.26	0.27	0.26	0.27	0.25	0.19	0.24			
8	7.50	8.49	0.24			0.25	0.23	0.21	0.27	0.27	0.27	0.25	0.23	0.25	0.25	0.19	0.27			
9	8.50	9.49	0.23			0.35	0.23	0.20	0.32	0.25	0.26	0.25	0.21	0.24	0.22	0.19	0.22			
10	9.50	10.49	0.23				0.19	0.14		0.22	0.27	0.25	0.23	0.23	0.21	0.21	0.25			
11	10.50	11.49	0.21				0.15	0.11		0.23	0.25	0.26	0.22	0.23	0.17	0.18	0.21			
12	11.50	12.49	0.21							0.23	0.17	0.26	0.24	0.21	0.18	0.16	0.23			
13	12.50	13.49	0.19							0.19			0.20	0.18	0.20	0.21	0.21			
14	13.50	14.49	0.17											0.16			0.20			
15	14.50	15.49	0.22														0.22			
16	15.50	16.49	0.18										0.18							
17	16.50	17.49																		
18	17.50	18.49																		
19	18.50	19.49																		
20	19.50	20.49																		
21	20.50	21.49																		
22	21.50	22.49																		
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37	36.50	37.49																		
38	37.50	38.49																		
39	38.50	39.49																		
40	39.50	40.49																		
41	40.50																			

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Meteo data report - Monthly graphs aggregated

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)



— 33.0m - A1 — 33.0m - A2 — 19.0m - B1

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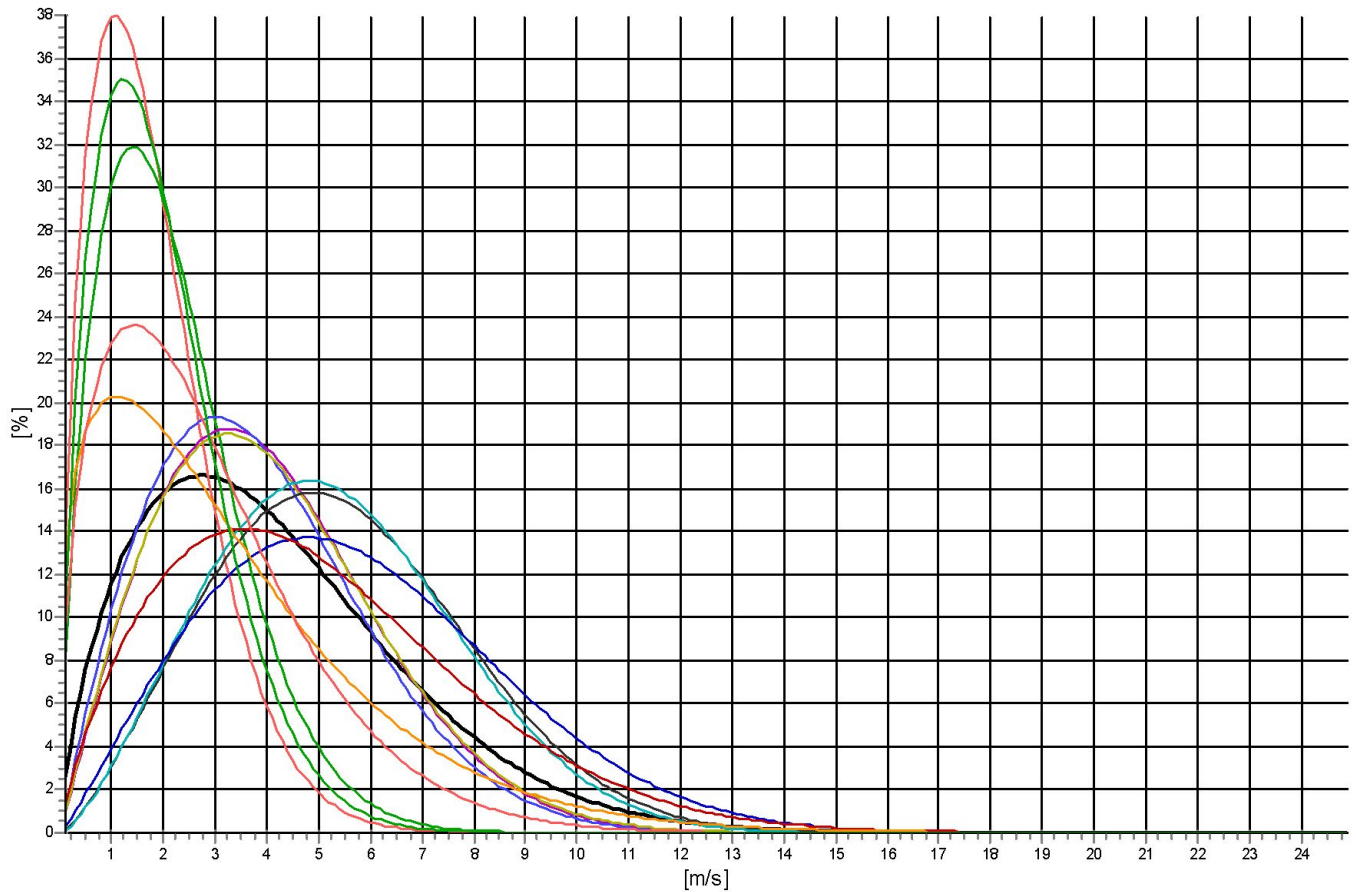
Meteo data report - Weibull data overview

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Height: 33.0m - A1

Weibull data

Sector	A	k	f	Mean wind speed
	[m/s]			[m/s]
0-N	2.00	1.589	2.72	1.79
1-NNE	2.43	1.676	4.04	2.17
2-ENE	4.59	2.014	19.99	4.07
3-E	4.37	1.952	13.84	3.88
4-ESE	4.61	1.991	4.62	4.09
5-SSE	6.15	2.381	8.75	5.45
6-S	6.02	2.417	9.65	5.33
7-SSW	6.50	2.119	9.06	5.76
8-WSW	5.66	1.784	8.17	5.03
9-W	3.64	1.279	11.83	3.37
10-WNW	3.14	1.464	4.89	2.84
11-NNW	2.19	1.637	2.43	1.96
Mean	4.69	1.684	100.00	4.18



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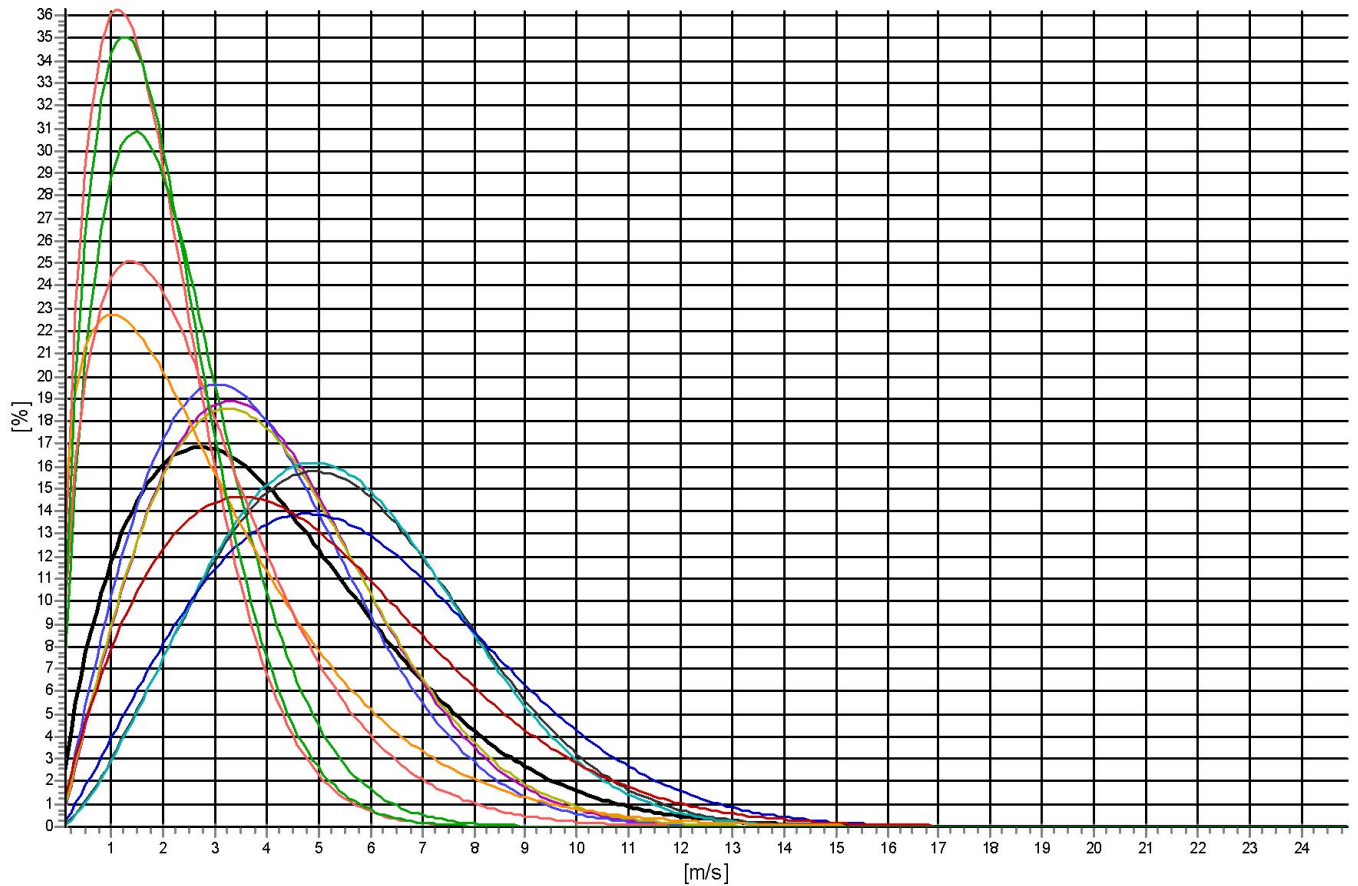
Meteo data report - Weibull data overview

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Height: 33.0m - A2

Weibull data

Sector	A [m/s]	k	f	Mean wind speed [m/s]
0-N	2.09	1.592	2.72	1.88
1-NNE	2.52	1.674	4.03	2.25
2-ENE	4.58	2.027	19.95	4.06
3-E	4.34	1.979	13.82	3.84
4-ESE	4.62	1.995	4.61	4.09
5-SSE	6.19	2.392	8.73	5.48
6-S	6.11	2.432	9.63	5.42
7-SSW	6.44	2.129	9.05	5.71
8-WSW	5.50	1.806	8.33	4.89
9-W	3.24	1.284	11.81	3.00
10-WNW	2.96	1.478	4.89	2.67
11-NNW	2.20	1.651	2.43	1.96
Mean	4.62	1.689	100.00	4.13



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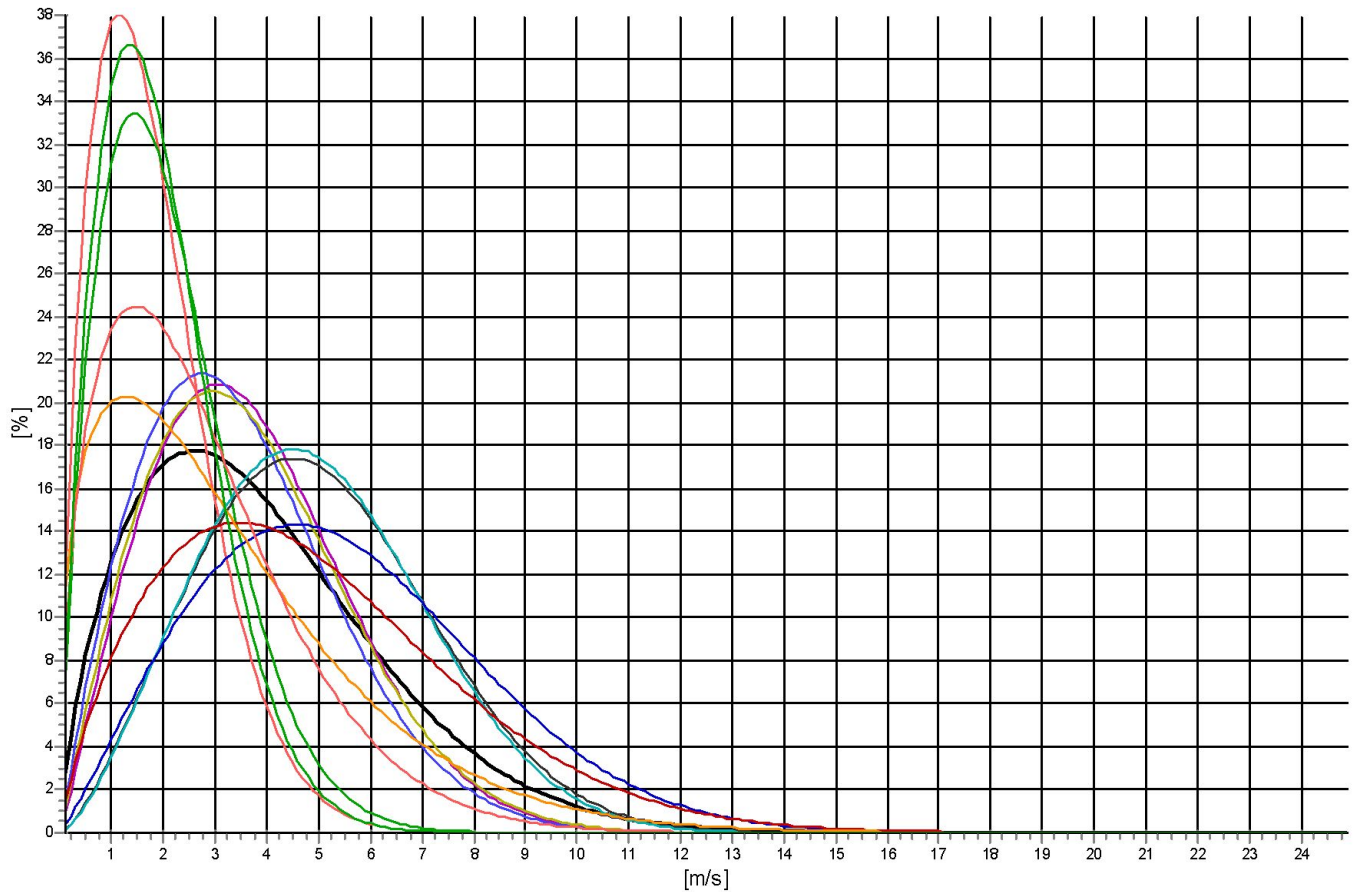
Meteo data report - Weibull data overview

Mast: CLG_met-tower; met-tower; Interim Met-Data Report **Period:** Full period: 8/29/2010 - 1/6/2011 (4.3 months)

Height: **19.0m - B1**

Weibull data

Sector	A	k	f	Mean wind speed
	[m/s]			[m/s]
0-N	2.02	1.646	2.74	1.81
1-NNE	2.36	1.739	4.05	2.10
2-ENE	4.20	2.067	20.08	3.72
3-E	3.95	1.952	13.84	3.51
4-ESE	4.17	1.998	4.55	3.70
5-SSE	5.64	2.414	8.76	5.00
6-S	5.58	2.457	9.70	4.95
7-SSW	6.20	2.109	9.11	5.49
8-WSW	5.52	1.773	7.91	4.92
9-W	3.62	1.330	11.90	3.33
10-WNW	3.04	1.497	4.92	2.74
11-NNW	2.17	1.769	2.44	1.93
Mean	4.39	1.699	100.00	3.92



— All A: 4.4 m/s k 1.70 Vm: 3.9 m/s	— N A: 2.0 m/s k 1.65 Vm: 1.8 m/s	— NNE A: 2.4 m/s k 1.74 Vm: 2.1 m/s	— ENE A: 4.2 m/s k 2.07 Vm: 3.7 m/s
— E A: 4.0 m/s k 1.95 Vm: 3.5 m/s	— ESE A: 4.2 m/s k 2.00 Vm: 3.7 m/s	— SSE A: 5.6 m/s k 2.41 Vm: 5.0 m/s	— S A: 5.6 m/s k 2.46 Vm: 4.9 m/s
— SSW A: 6.2 m/s k 2.11 Vm: 5.5 m/s	— WSW A: 5.5 m/s k 1.77 Vm: 4.9 m/s	— W A: 3.6 m/s k 1.33 Vm: 3.3 m/s	— WNW A: 3.0 m/s k 1.50 Vm: 2.7 m/s
— NNW A: 2.2 m/s k 1.77 Vm: 1.9 m/s			