APPENDIX F: BUOY DATA

23 NM South of Montauk, NY

	2002					2003												2004												2005											
	Sep	Oct	Nov	Dec	Yr Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yr Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yr Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yr Avg
Wind Direction (Deg)																																										
Average	173.5	173.7	216.6	245.9	202.4	244.5	200.7	193.4	147.8	154.0	176.5	195.6	204.5	150.5	217.2	204.8	232.5	193.5	250.1	237.4	168.4	185.5	176.3	193.2	183.9	161.9	154.3	172.4	212.1	223.7	193.3	205.5	187.3	223.6	167.4	175.8	175.5	179.5	178.9	195.8	179.9	224.6	239.9	194.5
Wind Speed																																											
Average (m/s)	5.1	7.7	8.8	9.2	7.7	9.5	8.9	6.4	7.2	5.2	4.4	5.0	5.2	6.1	7.7	7.5	9.7	6.9	10.1	7.5	7.4	6.0	5.0	4.9	5.1	4.7	5.9	6.9	7.8	6.7	6.7	8.6	7.7	7.0	6.1	5.5	5.1	4.8	4.6	5.5	8.4	8.0	9.2	6.7
Maximum (m/s)	17.5	18.5	18.3	17.9	18.1	19.0	20.8	15.0	16.2	13.0	11.5	11.1	11.9	14.1	17.8	19.7	20.1	15.9	18.4	15.4	17.2	14.7	12.8	13.7	14.1	8.5	19.0	14.3	16.7	18.1	15.2	21.0	15.3	21.2	12.7	16.3	9.0	13.2	11.7	16.1	20.8	17.8	20.8	16.3
Average (mph)	11.4	17.2	19.7	20.5	17.2	21.2	20.0	14.3	16.1	11.6	9.8	11.2	11.5	13.7	17.1	16.8	21.6	15.4	22.6	16.7	16.7	13.4	11.1	11.0	11.4	10.4	13.2	15.5	17.4	19.4	14.9	19.2	17.1	15.8	13.5	12.3	11.4	10.7	10.3	12.2	18.7	17.8	20.7	15.0
Maximum (mph)	39.1	41.4	40.9	40.0	40.4	42.5	46.5	33.6	36.2	29.1	25.7	24.8	26.6	31.5	39.8	44.1	45.0	35.5	41.2	34.4	38.5	32.9	28.6	30.6	31.5	19.0	42.5	32.0	37.4	40.5	34.1	47.0	34.2	47.4	28.4	36.5	20.1	29.5	26.2	36.0	46.5	39.8	46.5	36.5
Wind Gust																																											
Average (m/s)	6.3	9.6	10.9	11.4	9.5	11.8	11.0	7.9	8.7	6.3	5.2	5.9	6.1	7.4	9.5	9.2	12.0	8.4	12.5	9.1	9.0	7.2	5.9	5.8	6.1	5.5	7.1	8.4	9.6	10.7	8.1	10.7	9.3	8.6	7.2	6.6	5.9	5.7	5.5	6.7	10.3	9.8	11.7	8.2
Maximum (m/s)	22.6	23.7	23.4	22.9	23.2	23.5	25.8	20.1	20.2	16.1	13.6	13.4	14.5	17.7	22.9	25.2	24.1	19.8	24.3	18.7	21.3	18.9	16.2	16.4	16.6	10.5	24.7	17.0	21.3	24.4	19.2	28.0	18.9	28.9	16.2	20.0	11.2	15.5	13.9	19.4	26.0	22.8	24.6	20.5
Average (mph)	14.0	21.4	24.5	25.5	21.4	26.5	24.7	17.6	19.4	14.0	11.7	13.2	13.7	16.6	21.3	20.7	26.7	18.8	28.0	20.3	20.1	16.0	13.2	13.0	13.7	12.4	15.9	18.8	21.4	24.0	18.1	23.8	20.8	19.2	16.2	14.8	13.3	12.6	12.3	14.9	23.0	21.9	26.1	18.2
Maximum (mph)	50.6	53.0	52.3	51.2	51.8	52.6	57.7	45.0	45.2	36.0	30.4	30.0	32.4	39.6	51.2	56.4	53.9	44.2	54.4	41.8	47.6	42.3	36.2	36.7	37.1	23.5	55.3	38.0	47.6	54.6	42.9	62.6	42.3	64.6	36.2	44.7	25.1	34.7	31.1	43.4	58.2	51.0	55.0	45.7
Wave Height																																											
Average (m)	1.0	1.5	1.8	1.7	1.5	1.6	1.6	1.3	1.7	1.2	0.9	1.1	1.0	1.6	1.5	1.4	1.9	1.4	1.6	1.2	1.6	1.3	0.9	0.9	1.0	0.9	1.3	1.5	1.4	1.8	1.3	1.5	1.6	1.5	1.5	1.2	0.8	0.8	0.9	1.3	1.8	1.5	1.7	1.3
Maximum (m)	3.3	5.5	4.7	5.2	4.7	4.7	5.9	3.3	4.3	3.1	2.3	2.6	2.1	5.1	4.7	5.5	5.8	4.1	3.8	3.3	4.3	3.8	2.4	2.4	2.6	3.3	4.3	4.2	4.3	4.6	3.6	6.2	3.4	4.6	4.6	4.2	1.4	1.9	2.6	3.1	6.8	6.4	3.8	4.1
Average (ft)	3.2	4.9	5.8	5.7	4.9	5.4	5.4	4.4	5.6	3.8	3.0	3.7	3.3	5.4	5.0	4.7	6.4	4.7	5.2	4.1	5.3	4.2	3.0	2.8	3.3	2.9	4.2	4.9	4.7	5.8	4.2	5.0	5.2	4.8	4.9	3.8	2.8	2.7	2.9	4.2	5.9	4.9	5.4	4.4
Maximum (ft)	11.0	18.2	15.3	17.1	15.4	15.5	19.4	10.9	14.0	10.3	7.6	8.6	6.7	16.6	15.5	18.2	19.0	13.5	12.3	10.7	14.1	12.4	7.7	7.7	8.6	11.0	14.0	13.7	14.1	15.0	11.8	20.5	11.2	15.0	15.1	13.9	4.5	6.1	8.4	10.1	22.2	20.9	12.5	13.4
Dominant Wave Period (s)																																											
Average	7.1	8.1	6.9	7.1	7.3	6.7	7.2	7.6	8.1	7.4	7.3	7.0	6.3	10.1	7.7	7.7	7.6	7.6	5.8	6.6	7.9	7.5	6.9	6.5	6.9	6.6	9.0	9.1	7.3	7.5	7.3	7.2	8.1	8.4	8.3	7.9	6.7	7.1	7.8	8.8	7.8	7.2	7.0	7.7
Maximum	23.5	16.0	12.1	12.9	16.1	12.1	12.1	14.8	12.9	12.1	12.9	10.8	10.8	17.4	13.8	12.9	14.8	13.1	9.1	14.8	13.8	12.1	12.1	12.1	9.1	12.1	17.4	14.8	12.9	13.8	12.8	12.9	13.8	17.4	12.9	14.8	14.8	13.8	11.4	13.8	14.8	12.9	12.9	13.9
Minimum	0.0	2.9	2.5	2.7	2.0	2.9	2.9	3.0	3.2	3.1	2.7	3.0	2.9	2.9	2.9	2.7	3.1	3.0	2.7	2.9	2.9	3.1	2.9	0.0	3.0	3.2	3.6	3.2	2.5	3.1	2.8	2.9	2.6	2.6	3.2	2.9	2.9	2.9	2.9	3.3	2.6	3.2	2.9	2.9
Average Wave Period (s)																																											
Average	4.8	5.0	5.0	4.9	4.9	4.8	4.9	5.2	5.5	5.3	5.1	5.1	4.7	6.1	5.2	5.0	5.2	5.2	4.5	4.6	5.3	5.0	4.6	4.6	4.8	4.5	5.7	5.5	5.0	5.2	4.9	4.8	5.3	5.3	5.5	5.2	4.6	4.7	4.9	5.8	5.3	4.8	4.9	5.1
Maximum	21.9	8.4	7.2	8.0	11.4	7.3	7.8	8.3	8.3	8.1	7.3	6.5	6.3	11.9	10.2	8.6	8.4	8.2	6.3	8.3	9.6	7.7	6.6	6.5	6.9	8.0	10.0	8.4	8.0	8.0	7.9	7.7	8.4	8.7	8.8	8.4	7.2	6.8	6.6	9.3	10.2	8.6	6.8	8.1
Minimum	0.0	3.0	3.0	2.0	2.0	3.0	3.0	3.0	3.3	3.4	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0	3.0	3.0	2.0	2.7	3.0	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.2	3.0
Pressure (mBar)																																											
Average	1017.6	1018.5	1013.2	1014.4	1016.0	1013.2	1015.7	1016.3	1016.9	1015.2	1012.6	1014.6	1016.1	1018.9	1014.9	1017.2	1015.0	1015.5	1013.6	1019.5	1020.3	1013.6	1016.9	1015.6	1013.6	1019.5	1019.8	1016.4	1019.5	1016.9	1017.1	1021.7	1018.9	1009.7	1013.8	1013.8	1015.7	1015.5	1016.2	1018.2	1014.4	1016.8	1016.0	1015.9
Maximum	1034.5	1029.7	1027.8	1036.2	1032.1	1031.7	1038.4	1030.5	1036.1	1029.2	1026.9	1024.5	1026.9	1026.7	1033.0	1038.7	1031.4	1031.2	1028.9	1038.7	1036.7	1029.5	1031.3	1025.4	1024.6	1027.7	1029.2	1030.2	1037.0	1035.5	1031.2	1040.7	1035.0	1025.0	1035.6	1034.8	1026.7	1024.6	1023.2	1030.6	1030.4	1029.3	1037.6	1031.1
Minimum	990.5	993.3	989.4	973.8	986.8	981.4	983.4	993.8	995.5	996.7	989.0	1005.9	1007.2	1004.1	987.5	988.5	987.9	993.4	992.3	996.7	998.0	990.5	999.5	1001.6	1000.0	1009.9	1000.3	992.0	988.7	993.8	996.9	987.5	994.0	974.3	992.7	995.8	1000.8	1006.2	1000.4	1000.5	987.0	971.5	998.9	992.5
Air Temperature																																											
Average (°C)	19.6	14.2	9.9	4.9	12.1	-0.1	0.4	3.6	5.3	10.1	15.4	21.0	22.9	19.8	14.3	10.7	5.4	10.7	-1.8	1.6	3.6	6.4	12.0	16.7	20.9	21.3	21.2			4.5	10.6	1.5	2.0	2.4	7.0	9.8	16.3	21.0	23.3	21.2	15.3	11.4	4.0	11.3
Maximum (°C)	23.0	21.7	17.5	14.7	19.2	10.9	10.5	10.4	11.9	15.6	24.4	23.4	26.2	22.9	19.3	16.7	13.4	17.1	9.9	7.4	8.6	11.5	17.2	23.0	24.7	23.3	26.7			13.9	16.6	13.3	7.9	8.4	12.1	15.9	21.8	26.3	26.7	25.3	22.6	16.7	13.2	17.5
Minimum (°C)	14.3	5.6	-1.7	-4.6	3.4	-11.1	-9.8	-8.9	0.2	7.5	10.5	17.3	17.7	14.7	4.9	2.8	-4.5	3.4	-13.8	-5.9	-2.8	0.1	7.4	11.0	18.0	18.9	17.3			-7.9	4.2	-10.2	-7.1	-6.6	3.0	6.6	9.3	15.4	18.7	13.6	5.9	-1.0	-1.9	3.8
Average (°F)	67.2	57.6	49.8	40.8	53.9	31.8	32.8	38.5	41.6	50.2	59.7	69.8	73.2	67.6	57.7	51.3	41.7	51.3	28.7	34.8	38.5	43.5	53.6	62.1	69.5	70.4	70.2			40.1	51.1	34.7	35.6	36.4	44.5	49.7	61.4	69.8	73.9	70.2	59.5	52.5	39.1	52.3
Maximum (°F)	73.4	71.1	63.5	58.5	66.6	51.6	50.9	50.7	53.4	60.1	75.9	74.1	79.2	73.2	66.7	62.1	56.1	62.8	49.8	45.3	47.5	52.7	63.0	73.4	76.5	73.9	80.1			57.0	61.9	55.9	46.2	47.1	53.8	60.6	71.2	79.3	80.1	77.5	72.7	62.1	55.8	63.5
Minimum (°F)	57.7	42.1	28.9	23.7	38.1	12.0	14.4	16.0	32.4	45.5	50.9	63.1	63.9	58.5	40.8	37.0	23.9	38.2	7.2	21.4	27.0	32.2	45.3	51.8	64.4	66.0	63.1			17.8	39.6	13.6	19.2	20.1	37.4	43.9	48.7	59.7	65.7	56.5	42.6	30.2	28.6	38.8
Surface Temperature																																											
Average (°C)	20.0	17.4	13.6	10.2	15.3	7.5	5.4	4.9	5.0	9.8	15.0	20.3	22.8	20.4	17.0	13.1	9.4	12.5	6.1	3.1	4.0	5.3	11.4	16.1	21.0					9.4	9.5	7.2	4.0	3.1	5.8	9.5	15.7	20.7	23.4	21.7	17.5	13.5	11.5	12.8
Maximum (°C)	22.1	20.6	14.8	12.5	17.5	10.1	7.0	7.3	9.6	14.1	22.4	22.8	26.6	22.8	20.4	15.8	11.9	15.9	8.7	5.0	5.5	8.1	16.6	20.2	25.2					11.4	12.6	8.8	5.6	4.8	8.6	13.8	18.9	26.2	26.5	23.4	20.1	14.7	12.6	15.3
Minimum (°C)	17.7	14.5	12.3	8.0	13.1	5.2	3.5	2.9	3.7	8.1	11.0	18.6	19.0	19.0	14.5	11.4	7.7	10.4	4.0	2.3	3.1	3.6	7.7	13.0	18.6					8.0	7.5	5.0	2.6	2.6	3.6	7.3	11.1	17.5	20.9	19.4	14.3	11.9	10.5	10.6
Average (°F)	68.0	63.3	56.5	50.3	59.5	45.5	41.7	40.9	40.9	49.6	59.0	68.5	73.0	68.7	62.6	55.6	49.0	54.6	42.9	37.6	39.3	41.6	52.5	60.9	69.7					49.0	49.2	44.9	39.2	37.7	42.5	49.0	60.3	69.3	74.1	71.1	63.6	56.4	52.6	55.1
Maximum (°F)	71.8	69.1	58.6	54.5	63.5	50.2	44.6	45.1	49.3	57.4	72.3	73.0	79.9	73.0	68.7	60.4	53.4	60.6	47.7	41.0	41.9	46.6	61.9	68.4	77.4					52.5	54.7	47.8	42.1	40.6	47.5	56.8	66.0	79.2	79.7	74.1	68.2	58.5	54.7	59.6
Minimum (°F)	63.9	58.1	54.1	46.4	55.6	41.4	38.3	37.2	38.7	46.6	51.8	65.5	66.2	66.2	58.1	52.5	45.9	50.7	39.2	36.1	37.6	38.5	45.9	55.4	65.5					46.4	45.6	41.0	37.0	36.7	38.5	45.1	52.0	63.5	69.6	66.9	57.7	53.4	50.9	51.0
Dewpoint																																											
Average (°C)	16.8	8.9	5.1	-0.6	7.6	-5.2	-4.5	0.4	3.0	8.7	14.2	19.4	20.8	16.7	8.4	5.9	0.1	7.3	-7.2	-4.5	-0.1	3.8	9.8							0.1	0.3	-2.1	-2.1	-1.5	4.5	8.3	15.5	19.6	21.1	17.1	11.1	6.3	-2.5	7.9
Maximum (°C)	22.2	20.9	17.1	13.8	18.5	9.3	10.3	10.0	10.2	13.0	22.1	22.8	23.9	21.7	17.4	16.1	12.2	15.8	8.5	6.8	8.4	9.6	11.8							13.7	9.8	12.7	7.6	8.1	11.0	12.9	20.5	24.3	26.0	24.0	21.4	14.8	11.4	16.2
Minimum (°C)	5.2	-3.0	-10.1	-14.0	-5.5	-15.9	-18.1	-18.1	-8.8	2.5	7.7	13.3	8.1	6.9	-4.0	-10.4	-11.5	-4.0	-18.8	-18.0	-14.9	-8.3	7.8							-11.7	-10.7	-15.1	-13.4	-12.4	-6.5	-2.5	9.1	14.1	14.0	4.2	-2.2	-8.9	-8.9	-2.4
Average (°F)	62.3	48.0	41.2	30.9	45.6	22.6	23.9	32.8	37.3	47.7	57.6	67.0	69.4	62.0	47.2	42.6	32.2	45.2	19.0	24.0	31.9	38.9	49.6							32.1	32.6	28.2	28.2	29.3	40.2	46.9	60.0	67.2	69.9	62.7	52.0	43.4	27.5	46.3
Maximum (°F)	72.0	69.6	62.8	56.8	65.3	48.7	50.5	50.0	50.4	55.4	71.8	73.0	75.0	71.1	63.3	61.0	54.0	60.4	47.3	44.2	47.1	49.3	53.2							56.7	49.6	54.9	45.7	46.6	51.8	55.2	68.9	75.7	78.8	75.2	70.5	58.6	52.5	61.2
Minimum (°F)	41.4	26.6	13.8	6.8	22.1	3.4	-0.6	-0.6	16.2	36.5	45.9	55.9	46.6	44.4	24.8	13.3	11.3	24.8	-1.8	-0.4	5.2	17.1	46.0							10.9	12.8	4.8	7.9	9.7	20.3	27.5	48.4	57.4	57.2	39.6	28.0	16.0	16.0	27.7

International System of Units:

US Standard Units:

BW007946

Ledge Light

	2004													2005											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Yr Ave**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Yr Ave**
Wind Direction																										
Average	266.3	251.0	174.4	168.7	176.6	201.2	181.2	188.1	158.8	175.6	206.3	226.8	**197.9**	206.5	212.6	226.8	173.6	40.0	190.2	186.3	186.5	206.4	191.0	222.7	245.5	**190.7**
Wind Speed																										
Average (m/s)	8.3	7.1	6.5	6.1	5.0	5.3	4.7	4.8	5.4	6.4	6.8	7.3	**6.1**	6.5	6.0	6.3	6.3	6.7	4.3	4.3	4.0	5.4	5.9	6.9	6.9	**5.8**
Maximum (m/s)	20.6	15.4	16.5	19.6	15.4	12.4	13.4	11.8	16.0	16.0	16.5	18.5	**16.0**	20.1	14.4	22.1	15.4	6.7	10.3	14.4	12.4	16.5	16.5	17.5	19.6	**15.5**
Average (mph)	18.5	15.8	14.5	13.7	11.2	11.8	10.4	10.8	12.0	14.3	15.1	16.4	**13.7**	14.6	13.5	14.1	14.0	15.0	9.6	9.6	8.9	12.0	13.3	15.4	15.3	**12.9**
Maximum (mph)	46.1	34.4	36.9	43.8	34.4	27.7	30.0	26.4	35.8	35.8	36.9	41.4	**35.8**	45.0	32.2	49.4	34.4	15.0	23.0	32.2	27.7	36.9	36.9	39.1	43.8	**34.7**
Gust																										
Average (m/s)												8.4	**8.4**	8.0	7.4	7.7	7.6	12.4	4.9	5.1	4.7	6.4	7.7	8.3	8.5	**7.4**
Maximum (m/s)												22.1	**22.1**	23.7	18.0	30.4	18.5	12.4	11.8	18.0	14.4	20.6	20.6	19.6	25.2	**19.4**
Average (mph)												18.8	**18.8**	17.8	16.6	17.3	17.0	27.7	11.0	11.4	10.4	14.2	17.3	18.6	19.0	**16.5**
Maximum (mph)												49.4	**49.4**	53.0	40.3	68.0	41.4	27.7	26.4	40.3	32.2	46.1	46.1	43.8	56.4	**43.5**
Air Temperature																										
Average (ºC)	-4.3	0.8	4.2				20.4	20.2	19.0	12.5	9.0	3.6	**9.5**	-1.0	0.3	2.1	7.1	10.2	17.8	21.3	22.3	20.0	16.4	8.3	2.1	**10.6**
Minimum (ºC)	-15.8	-10.0	-3.6				16.8	13.9	10.1	-7.8	-1.7	-13.9	**-1.3**	-16.8	-9.6	-10.1	2.4	10.2	11.7	15.1	16.5	10.4	10.9	-4.5	-10.2	**2.2**
Maximum (ºC)	18.2	11.2	18.8				24.6	26.3	26.4	19.8	16.7	14.8	**19.6**	13.2	13.0	13.9	17.4	10.2	30.0	30.5	29.2	27.6	21.9	19.4	12.1	**19.9**
Average (ºF)	24.2	33.4	39.6				68.7	68.3	66.2	54.4	48.2	38.4	**49.0**	30.2	32.5	35.8	44.7	50.4	64.1	70.3	72.2	68.0	61.6	47.0	35.8	**51.0**
Minimum (ºF)	3.6	14.0	25.5				62.2	57.0	50.2	18.0	28.9	7.0	**29.6**	1.8	14.7	13.8	36.3	50.4	53.1	59.2	61.7	50.7	51.6	23.9	13.6	**35.9**
Maximum (ºF)	64.8	52.2	65.8				76.3	79.3	79.5	67.6	62.1	58.6	**67.4**	55.8	55.4	57.0	63.3	50.4	86.0	86.9	84.6	81.7	71.4	66.9	53.8	**67.8**
Dew Point																										
Average	-9.1	-2.6	2.0	6.6	11.6	15.2	17.9	17.9	16.4	8.0	3.1	-2.2	**7.1**	-6.3	-6.0	-4.3	1.2	-11.2	15.3	17.7	18.6	16.1	8.9	4.0	-3.9	**4.2**
Minimum	-22.8	-14.0	-8.2	-27.3	3.6	8.5	13.4	11.5	8.0	-13.4	-12.5	-21.7	**-6.2**	-23.1	-20.4	-20.4	-11.2	-11.2	8.0	10.6	8.8	3.0	-4.1	-17.6	-18.9	**-8.0**
Maximum	16.4	5.9	17.8	25.6	28.1	31.4	21.6	23.6	21.4	16.5	14.0	12.9	**19.6**	12.5	5.3	9.7	11.0	-11.2	20.7	23.7	24.2	21.9	21.0	15.2	11.0	**13.8**
Pressure (mbar)																										
Average				1018.3	1014.2						1020.4	1016.2	**1017.2**	1020.4	1016.1	1009.2	1013.7	1030.6	1014.1	1015.0	1016.0	1016.9	1016.3	1015.7	1012.5	**1016.4**
Minimum				1002.0	1004.0						1007.7	992.4	**1001.5**	991.7	992.8	974.2	992.2	1030.6	999.5	1005.8	1006.8	1001.4	989.0	971.5	986.0	**995.1**
Maximum				1027.0	1040.0						1025.3	1029.3	**1030.4**	1039.7	1033.6	1024.4	1030.6	1030.6	1024.7	1024.4	1022.8	1027.2	1030.4	1029.3	1031.3	**1029.1**

International System of Units:

US Standard Units:

Western Sound

	2004													2005											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Yr Ave**	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	**Yr Ave**
Wind Direction																										
Average (°T)	241.2	90.6	168.0	176.7	166.3	178.3	132.2	150.9	167.0	153.3	197.3	205.3	**168.9**	168.8	187.0	218.2	189.2	157.4	204.1	170.1	173.1	200.9	186.2	250.1		**191.4**
Wind Speed																										
Average (m/s)	6.7	1.7	4.9	4.7	3.9	3.4	2.4	3.0	4.2	5.3	5.4	6.3	**4.3**	5.8	4.7	4.9	4.5	3.9	3.4	3.4	3.3	4.8	6.0	4.9		**4.5**
Maximum (m/s)	16.0	10.3	13.4	14.4	10.8	11.3	9.3	8.8	13.9	11.8	15.4	17.0	**12.7**	14.4	14.9	17.0	14.4	12.9	11.3	12.9	10.8	11.3	16.5	11.3		**13.4**
Average (mph)	15.0	3.9	11.1	10.6	8.8	7.6	5.4	6.6	9.3	11.9	12.2	14.1	**9.7**	12.9	10.6	11.0	10.1	8.7	7.6	7.6	7.3	10.7	13.5	10.9		**10.1**
Maximum (mph)	35.8	23.0	30.0	32.2	24.2	25.3	20.8	19.7	31.1	26.4	34.4	38.0	**28.4**	32.2	33.3	38.0	32.2	28.9	25.3	28.9	24.2	25.3	36.9	25.3		**30.0**
Gust																										
Average (m/s)												7.1	**7.1**	7.0	4.6	5.0	5.6	4.8	4.1	4.2	4.0	5.8	7.7	6.1		**5.4**
Maximum (m/s)												23.2	**23.2**	17.0	14.9	23.7	22.7	14.9	12.4	24.7	12.9	14.4	18.5	12.9		**17.2**
Average (mph)												16.0	**16.0**	15.8	10.3	11.1	12.5	10.8	9.2	9.4	9.0	13.1	17.2	13.6		**12.0**
Maximum (mph)												51.9	**51.9**	38.0	33.3	53.0	50.8	33.3	27.7	55.3	28.9	32.2	41.4	28.9		**38.4**
Air Temperature																										
Average (°C)	-3.1	1.9	3.4	8.6	14.5	18.9	21.8	21.9	20.6	13.5	8.8	3.3	**11.2**	-0.8	-0.8	1.9	9.4	12.5	20.1	23.2	24.0	21.6	14.2	14.0		**12.7**
Minimum (°C)	-12.7	-7.3	-3.7	-0.9	6.6	12.4	17.4	15.6	13.7	7.0	-0.4	-11.3	**3.0**	-15.3	-8.3	-8.4	2.9	6.0	13.0	17.5	17.8	12.1	4.6	8.9		**4.6**
Maximum (°C)	9.6	18.1	14.4	19.5	23.9	25.6	28.3	28.5	27.1	22.1	19.1	14.7	**20.9**	13.5	8.2	14.2	20.6	21.0	27.6	29.8	29.9	27.3	23.8	18.7		**21.3**
Average (°F)	26.3	35.5	38.1	47.4	58.1	66.0	71.3	71.4	69.0	56.3	47.9	38.0	**52.1**	30.5	30.5	35.4	48.9	54.5	68.3	73.7	75.3	70.8	57.6	57.3		**54.8**
Minimum (°F)	9.1	18.9	25.3	30.4	43.9	54.3	63.3	60.1	56.7	44.6	31.3	11.7	**37.5**	4.5	17.1	16.9	37.2	42.8	55.4	63.5	64.0	53.8	40.3	48.0		**40.3**
Maximum (°F)	49.3	64.6	57.9	67.1	75.0	78.1	82.9	83.3	80.8	71.8	66.4	58.5	**69.6**	56.3	46.8	57.6	69.1	69.8	81.7	85.6	85.8	81.1	74.8	65.7		**70.4**
Surface Temperature																										
Average (°C)	2.3	0.0	3.2	7.1	13.6	18.3	21.1	22.0	21.4	19.8		6.3	**12.3**	3.3	1.0	1.9	8.0	11.4	18.8	22.8	24.4	23.0	18.5	13.8		**13.3**
Minimum (°C)	0.0	0.0	1.9	3.7	0.0	14.7	18.2	20.2	19.9	18.5		4.0	**9.2**	0.0	0.0	0.7	3.7	8.5	15.6	19.2	22.3	21.5	14.2	8.9		**10.4**
Maximum (°C)	5.4	0.1	6.2	12.2	18.5	23.7	24.8	26.2	24.7	27.0		8.3	**16.1**	5.2	3.1	4.9	11.9	17.3	22.4	28.4	28.4	24.7	22.7	14.8		**16.7**
Average (°F)	36.2	32.1	37.8	44.8	56.6	65.0	70.0	71.7	70.5	67.7		43.3	**54.1**	37.9	33.8	35.5	46.3	52.4	65.8	73.1	75.8	73.3	65.2	56.9		**56.0**
Minimum (°F)	32.0	32.0	35.4	38.7	32.0	58.5	64.8	68.4	67.8	65.3		39.2	**48.5**	32.0	32.0	33.3	38.7	47.3	60.1	66.6	72.1	70.7	57.6	48.0		**50.8**
Maximum (°F)	41.7	32.2	43.2	54.0	65.3	74.7	76.6	79.2	76.5	80.6		46.9	**61.0**	41.4	37.6	40.8	53.4	63.1	72.3	83.1	83.1	76.5	72.9	58.6		**62.1**
Dew Point																										
Average	-9.8	-41.6	-1.5	3.1	10.9	13.7	17.8	17.5	15.7	8.1	2.8	-2.6	**2.8**	-5.7	-6.6	-3.9	3.1	7.1	16.3	18.5	18.7	16.2	9.3	8.0		**7.4**
Minimum	-21.0	-96.7	-27.3	-27.3	-50.9	1.7	-27.3	7.3	5.1	-0.6	-11.3	-19.9	**-22.4**	-21.8	-16.7	-16.9	-10.0	-7.3	8.5	0.0	0.0	1.9	-3.1	-0.9		**-6.0**
Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	**1.0**	12.2	4.8	5.7	12.0	13.7	21.2	24.7	25.3	23.3	21.9	14.6		**16.3**
Pressure (mbar)																										
Average		1022.8	1027.6	1014.9	1017.5	1016.3	1015.2	1017.0	1021.0	1017.8	1019.5	1019.9	**1019.1**	1023.6	1022.6	1011.4	1014.2	1014.9	1015.7	1016.3	1017.1	1018.2	1016.1	1016.8		**1017.0**
Minimum		1019.1	1011.0	996.5	995.8	1004.4	1001.8	1005.4	1005.4	993.6	99.6	996.9	**920.9**	996.6	1002.4	983.1	989.4	1002.0	1000.6	1005.9	1008.4	1004.1	993.4	1000.1		**998.7**
Maximum		1024.6	1036.2	1029.8	1031.5	1025.2	1026.9	1028.1	1029.9	1031.5	1040.4	1035.4	**1030.9**	1043.8	1035.4	1025.4	1037.5	1035.1	1026.4	1025.4	1025.4	1029.0	1031.5	1023.8		**1030.8**

International System of Units:

US Standard Units: