

## **APPENDIX F: BUOY DATA**

23 NM South of Montauk, NY

	2002												2003												2004												2005											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Wind Direction (Deg)	Average																																															
Wind Speed	Average (m/s)																																															
	Maximum (m/s)																																															
	Average (mph)																																															
	Maximum (mph)																																															
Wind Gust	Average (m/s)																																															
	Maximum (m/s)																																															
	Average (mph)																																															
	Maximum (mph)																																															
Wave Height	Average (m)																																															
	Maximum (m)																																															
	Average (ft)																																															
	Maximum (ft)																																															
Dominant Wave Period (s)	Average																																															
	Maximum																																															
	Minimum																																															
Average Wave Period (s)	Average																																															
	Maximum																																															
	Minimum																																															
Pressure (mBar)	Average																																															
	Maximum																																															
	Minimum																																															
Air Temperature	Average (°C)																																															
	Maximum (°C)																																															
	Minimum (°C)																																															
	Average (°F)																																															
	Maximum (°F)																																															
	Minimum (°F)																																															
Surface Temperature	Average (°C)																																															
	Maximum (°C)																																															
	Minimum (°C)																																															
	Average (°F)																																															
	Maximum (°F)																																															
	Minimum (°F)																																															
Dewpoint	Average (°C)																																															
	Maximum (°C)																																															
	Minimum (°C)																																															
	Average (°F)																																															
	Maximum (°F)																																															
	Minimum (°F)																																															

International System of Units:



US Standard Units:



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

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
<b>Wind Direction</b>																										
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	<b>168.9</b>	168.8	187.0	218.2	189.2	157.4	204.1	170.1	173.1	200.9	186.2	250.1		<b>191.4</b>
<b>Wind Speed</b>																										
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	<b>4.3</b>	5.8	4.7	4.9	4.5	3.9	3.4	3.4	3.3	4.8	6.0	4.9		<b>4.5</b>
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	<b>12.7</b>	14.4	14.9	17.0	14.4	12.9	11.3	12.9	10.8	11.3	16.5	11.3		<b>13.4</b>
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	<b>9.7</b>	12.9	10.6	11.0	10.1	8.7	7.6	7.3	10.7	13.5	10.9			<b>10.1</b>
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	<b>28.4</b>	32.2	33.3	38.0	32.2	28.9	25.3	28.9	24.2	25.3	36.9	25.3		<b>30.0</b>
<b>Gust</b>																										
Average (m/s)												7.1	<b>7.1</b>	7.0	4.6	5.0	5.6	4.8	4.1	4.2	4.0	5.8	7.7	6.1		<b>5.4</b>
Maximum (m/s)												23.2	<b>23.2</b>	17.0	14.9	23.7	22.7	14.9	12.4	24.7	12.9	14.4	18.5	12.9		<b>17.2</b>
Average (mph)												16.0	<b>16.0</b>	15.8	10.3	11.1	12.5	10.8	9.2	9.4	9.0	13.1	17.2	13.6		<b>12.0</b>
Maximum (mph)												51.9	<b>51.9</b>	38.0	33.3	53.0	50.8	33.3	27.7	55.3	28.9	32.2	41.4	28.9		<b>38.4</b>
<b>Air Temperature</b>																										
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	<b>11.2</b>	-0.8	-0.8	1.9	9.4	12.5	20.1	23.2	24.0	21.6	14.2	14.0		<b>12.7</b>
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	<b>3.0</b>	-15.3	-8.3	-8.4	2.9	6.0	13.0	17.5	17.8	12.1	4.6	8.9		<b>4.6</b>
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	<b>20.9</b>	13.5	8.2	14.2	20.6	21.0	27.6	29.8	29.9	27.3	23.8	18.7		<b>21.3</b>
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	<b>52.1</b>	30.5	30.5	35.4	48.9	54.5	68.3	73.7	75.3	70.8	57.6	57.3		<b>54.8</b>
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	<b>37.5</b>	4.5	17.1	16.9	37.2	42.8	55.4	63.5	64.0	53.8	40.3	48.0		<b>40.3</b>
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	<b>69.6</b>	56.3	46.8	57.6	69.1	69.8	81.7	85.6	85.8	81.1	74.8	65.7		<b>70.4</b>
<b>Surface Temperature</b>																										
Average (°C)	2.3	0.0	3.2	7.1	13.6	18.3	21.1	22.0	21.4	19.8		6.3	<b>12.3</b>	3.3	1.0	1.9	8.0	11.4	18.8	22.8	24.4	23.0	18.5	13.8		<b>13.3</b>
Minimum (°C)	0.0	0.0	1.9	3.7	0.0	14.7	18.2	20.2	19.9	18.5		4.0	<b>9.2</b>	0.0	0.0	0.7	3.7	8.5	15.6	19.2	22.3	21.5	14.2	8.9		<b>10.4</b>
Maximum (°C)	5.4	0.1	6.2	12.2	18.5	23.7	24.8	26.2	24.7	27.0		8.3	<b>16.1</b>	5.2	3.1	4.9	11.9	17.3	22.4	28.4	28.4	24.7	22.7	14.8		<b>16.7</b>
Average (°F)	36.2	32.1	37.8	44.8	56.6	65.0	70.0	71.7	70.5	67.7		43.3	<b>54.1</b>	37.9	33.8	35.5	46.3	52.4	65.8	73.1	75.8	73.3	65.2	56.9		<b>56.0</b>
Minimum (°F)	32.0	32.0	35.4	38.7	32.0	58.5	64.8	68.4	67.8	65.3		39.2	<b>48.5</b>	32.0	32.0	33.3	38.7	47.3	60.1	66.6	72.1	70.7	57.6	48.0		<b>50.8</b>
Maximum (°F)	41.7	32.2	43.2	54.0	65.3	74.7	76.6	79.2	76.5	80.6		46.9	<b>61.0</b>	41.4	37.6	40.8	53.4	63.1	72.3	83.1	83.1	76.5	72.9	58.6		<b>62.1</b>
<b>Dew Point</b>																										
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	<b>2.8</b>	-5.7	-6.6	-3.9	3.1	7.1	16.3	18.5	18.7	16.2	9.3	8.0		<b>7.4</b>
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	<b>-22.4</b>	-21.8	-16.7	-16.9	-10.0	-7.3	8.5	0.0	0.0	1.9	-3.1	-0.9		<b>-6.0</b>
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	<b>1.0</b>	12.2	4.8	5.7	12.0	13.7	21.2	24.7	25.3	23.3	21.9	14.6		<b>16.3</b>
<b>Pressure (mbar)</b>																										
Average		1022.8	1027.6	1014.9	1017.5	1016.3	1015.2	1017.0	1021.0	1017.8	1019.5	1019.9	<b>1019.1</b>	1023.6	1022.6	1011.4	1014.2	1014.9	1015.7	1016.3	1017.1	1018.2	1016.1	1016.8		<b>1017.0</b>
Minimum		1019.1	1011.0	996.5	995.8	1004.4	1001.8	1005.4	1005.4	993.6	99.6	996.9	<b>920.9</b>	996.6	1002.4	983.1	989.4	1002.0	1000.6	1005.9	1008.4	1004.1	993.4	1000.1		<b>998.7</b>
Maximum		1024.6	1036.2	1029.8	1031.5	1025.2	1026.9	1028.1	1029.9	1031.5	1040.4	1035.4	<b>1030.9</b>	1043.8	1035.4	1025.4	1037.5	1035.1	1026.4	1025.4	1025.4	1029.0	1031.5	1023.8		<b>1030.8</b>

International System of Units:



US Standard Units:

