

March 2012

Global Solar Radiation on a Horizontal Surface
 Hourly Integrated and Daily Totals
 Instrument: Eppley PSP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	15	96	283	455	589	663	709	677	559	386	179	51	0	0	0	0	0	0	4663
2	0	0	0	0	0	0	16	117	265	264	238	307	283	275	192	119	112	13	0	0	0	0	0	0	2200
3	0	0	0	0	0	0	1	6 ?	59 ?	75	213	172	152	80 ?	70 ?	35 ?	22 ?	6	0	0	0	0	0	0	890 ?
4	0	0	0	0	0	0	1	10 ?	30 ?	45 ?	74	101	119	185	188	469	75	44	0	0	0	0	0	0	1341 ?
5	0	0	0	0	0	0	46	62	86	123	101	89	319	523	308 ?	131	149	61	0	0	0	0	0	0	1998
6	0	0	0	0	0	0	22	148	355	541	685	768	782	729	616	451	252	64	0	0	0	0	0	0	5415
7	0	0	0	0	0	0	22	141	345	470	669	579	616	548	498	380	245	60	0	0	0	0	0	0	4574
8	0	0	0	0	0	0	24	147	385	519	611	745	799	744	600	361	173	33	0	0	0	0	0	0	5142
9	0	0	0	0	0	0	3	21	36 ?	47 ?	84	112	150	194	284	188	126	42	5	0	0	0	0	0	1290 ?
10	0	0	0	0	0	0	26	161	374	568	715	808	832	782	662	489	278	74	3	0	0	0	0	0	5772
11	0	0	0	0	0	0	29	169	380	568	713	801	823	771	653	483	274	70	0	0	0	0	0	0	5733
12	0	0	0	0	0	0	33	181	369	559	694	789	796	743	633	452	267	65	2	0	0	0	0	0	5582
13	0	0	0	0	0	0	3	19	81	157	246	562	709	679	597	448	259	49	5	0	0	0	0	0	3814
14	0	0	0	0	0	0	19	172	367	546	690	782	806	756	639	464	243	71	3	0	0	0	0	0	5558
15	0	0	0	0	0	0	26	141	297	538	625	716	805	729	618	461	257	59	1	0	0	0	0	0	5273
16	0	0	0	0	0	0	16	25 ?	154	439	683	781	803	717	616	414	189	40	3	0	0	0	0	0	4880
17	0	0	0	0	0	0	15	134	277	204	329	475	744	703	416	510	172	38	4	0	0	0	0	0	4021
18	0	0	0	0	0	0	16	70	192	437	533	743	691	587	472	297	206	63	6	0	0	0	0	0	4315
19	0	0	0	0	0	0	27	123	329	566	719	757	740	528	662	382	209	58	14	0	0	0	0	0	5112
20	0	0	0	0	0	0	29	160 ?	394	557	687	637	708	779	145	48 ?	197	20	3	0	0	0	0	0	4363 ?
21	0	0	0	0	0	0	21	98	225	382	501	481	536	416	257	237	121	75	6	0	0	0	0	0	3356
22	0	0	0	0	0	0	35	110	320	427	640	676	567	815	659	488	281	62	8	0	0	0	0	0	5088
23	0	0	0	0	0	0	41	123	291	576	725	787	734	706	542	467	263	91	10	0	0	0	0	0	5354
24	0	0	0	0	0	0	41	105	162	434	525	466	272	172	221	87	45 ?	5 ?	4	0	0	0	0	0	2540
25	0	0	0	0	0	0	23	100	147	106	185	325	550	87 ?	249	140	30 ?	5 ?	1	0	0	0	0	0	1948 ?
26	0	0	0	0	0	0	28	141	437	632	778	857	875	807	681	508	306	108	15	0	0	0	0	0	6174
27	0	0	0	0	0	1	61	254	469	666	811	892	902	846	716	540	327	110	14	0	0	0	0	0	6610
28	0	0	0	0	0	3	60	249	443	618	760	858	859	803	685	510	300	103	12	0	0	0	0	0	6263
29	0	0	0	0	0	2	58	255	467	656	800	880	884	818	696	497	314	111	14	0	0	0	0	0	6454
30	0	0	0	0	0	3	67	254	441	633	713	798	492	628	678	485	250	69	13	0	0	0	0	0	5523
31	0	0	0	0	0	2	26	63	141	135	300	443	330	198	392	419	88	11 ?	2	0	0	0	0	0	2551
Avg	0	0	0	0	0	0	27	124	277	417	537	608	625	581	491	366	200	56	5	0	0	0	0	0	4316
S D	0	0	0	0	0	1	17	71	135	203	237	248	242	248	199	157	88	31	5	0	0	0	0	0	1675
S/A	0	0	0	0	0	2.59	0.63	0.57	0.49	0.49	0.44	0.41	0.39	0.43	0.41	0.43	0.44	0.55	1.06	0	0	0	0	0	0.39
Min	0	0	0	0	0	0	1	6	30	45	74	89	119	80	70	35	22	5	0	0	0	0	0	0	890
Max	0	0	0	0	0	3	67	255	469	666	811	892	902	846	716	540	327	111	15	0	0	0	0	0	6610
n	0	0	0	0	0	7	289	348	350	360	372	371	372	365	363	354	346	356	61	0	0	0	0	0	4314

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.0% exceed the 15% QC threshold -- 4448 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

March 2012

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
4	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
27	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
31	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 4448 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 μV/W/m² Calibration Date: 07/2007

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	15	96	298 ?	422 ?	483 ?	564 ?	?	?	?	360 ?	137 ?	51	0	0	0	0	0	0	2426 ?
2	0	0	0	0	0	0	18	109	249 ?	264	238	307	283	275	192	119	112	13	0	0	0	0	0	0	2179
3	0	0	0	0	0	0	1	9	50 ?	75	213	172	152	70	59	27 ?	16 ?	6	0	0	0	0	0	0	849 ?
4	0	0	0	0	0	0	1	10	27	42	74	101	119	185	188	?	75	39	0	0	0	0	0	0	861 ?
5	0	0	0	0	0	0	?	62	86	123	101	85	319	384 ?	167	123	130	61	0	0	0	0	0	0	1642 ?
6	0	0	0	0	0	0	26	106 ?	?	?	?	?	?	?	?	?	164 ?	64	0	0	0	0	0	0	360 ?
7	0	0	0	0	0	0	26	125	?	414 ?	?	534 ?	528 ?	524	477 ?	352 ?	173 ?	60	0	0	0	0	0	0	3212 ?
8	0	0	0	0	0	0	28	122 ?	?	462 ?	513 ?	?	?	?	513 ?	284 ?	141 ?	33	0	0	0	0	0	0	2096 ?
9	0	0	0	0	0	0	3	21	27	40 ?	84	112	150	194	284	188	126	42	5	0	0	0	0	0	1275
10	0	0	0	0	0	0	29	118 ?	?	?	?	?	?	?	?	?	?	74	3	0	0	0	0	0	224 ?
11	0	0	0	0	0	0	29	118 ?	?	?	?	?	?	?	?	?	?	70	0	0	0	0	0	0	217 ?
12	0	0	0	0	0	0	37	116 ?	?	?	?	?	?	?	?	?	235 ?	56	2	0	0	0	0	0	445 ?
13	0	0	0	0	0	0	3	18	81	157	246	479 ?	602 ?	333 ?	452 ?	416 ?	211 ?	49	5	0	0	0	0	0	3052 ?
14	0	0	0	0	0	0	22	108 ?	367 ?	?	?	?	?	?	?	364 ?	238	71	3	0	0	0	0	0	1174 ?
15	0	0	0	0	0	0	28	141	297	?	542 ?	?	?	?	?	?	235 ?	59	1	0	0	0	0	0	1304 ?
16	0	0	0	0	0	0	18	21	154	334 ?	?	?	?	565 ?	?	307 ?	175	40	3	0	0	0	0	0	1618 ?
17	0	0	0	0	0	0	17	134	277	204	329	368 ?	584 ?	587 ?	416	?	130	38	4	0	0	0	0	0	3087 ?
18	0	0	0	0	0	0	16	70	192	399	356 ?	481 ?	559 ?	422 ?	326 ?	268	195	63	6	0	0	0	0	0	3353 ?
19	0	0	0	0	0	0	27	123	262 ?	?	?	393 ?	451 ?	320 ?	?	252 ?	88	49	13	0	0	0	0	0	1980 ?
20	0	0	0	0	0	0	25	67	92	112	143	214	270	310	124	42 ?	97	19	2	0	0	0	0	0	1516
21	0	0	0	0	0	0	21	87	222	337	406	410	441	378	257	234	121	62	6	0	0	0	0	0	2981
22	0	0	0	0	0	0	34	104	204	315	195	246	233	168	102	93	74	39	7	0	0	0	0	0	1817
23	0	0	0	0	0	0	29	115	223	141	131	169	211	212	189	136	92	53	9	0	0	0	0	0	1710
24	0	0	0	0	0	0	35	105	162	337	412	418	270	172	219	87	38 ?	6 ?	4	0	0	0	0	0	2264
25	0	0	0	0	0	0	23	100	147	106	185	319	359	74	227	140	24	8	1	0	0	0	0	0	1714
26	0	0	0	0	0	0	28	88	110	106	111	118	120	129	129	108	82	46	13	0	0	0	0	0	1189
27	0	0	0	0	0	0	33	74	95	97	99	102	101	98	91	91	62	35	10	0	0	0	0	0	988
28	0	0	0	0	0	?	27	72	90	145	139	121	125	121	110	98	81	44	11	0	0	0	0	0	1185
29	0	0	0	0	0	2	29	63	77	84	88	89	93	100	99	93	68	40	11	0	0	0	0	0	936
30	0	0	0	0	0	5 ?	34	72	136	155	267	377	473	457	170	249	198	68	13	0	0	0	0	0	2675
31	0	0	0	0	0	2 ?	26	63	141	135	296	393	324	198	332	294	68	11	1	0	0	0	0	0	2284
Avg	0	0	0	0	0	0	23	85	163	208	246	286	308	273	233	197	124	44	4	0	0	0	0	0	1697 ?
S D	0	0	0	0	0	1	10	38	93	134	147	158	170	160	134	115	64	20	4	0	0	0	0	0	903
S/A	0	0	0	0	0	3.43	0.44	0.45	0.57	0.64	0.6	0.55	0.55	0.59	0.58	0.58	0.51	0.46	1.01	0	0	0	0	0	0.53
Min	0	0	0	0	0	0	1	9	27	40	74	85	93	70	59	27	16	6	0	0	0	0	0	0	217
Max	0	0	0	0	0	5	37	141	367	462	542	564	602	587	513	416	238	74	13	0	0	0	0	0	3353
n	0	0	0	0	0	4	269	337	269	252	244	238	228	229	232	231	287	362	61	0	0	0	0	0	3255

Daylight Data Recovery: 0.0% missing; 0.0% untested; 26.8% exceed the 15% QC threshold -- 4448 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 μV/W/m² Calibration Date: 07/2007

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Dry Bulb Temperature (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	18.3	17.9	17.8	18.5	18.4	18.4	18.9	19	20	21.1	22.1	22.9	24	24.9	25.5	25.8	25.6	24.6	23.1	21.7	19.4	16.2	12.2	11.5	20.3
2	11.1	10.9	10.4	9.9	9.7	9.5	9.2	9.9	11.4	12.4	12.8	13.3	13.6	14.7	15.3	16	16.9	17	16.5	16.4	17.1	17.2	17	17.5	13.6
3	17.5	17.3	17.3	17.6	17.5	17.1	17.2	17.7	17.4	17	16.8	17.7	18.2	18.2	17.9	17.3	15.8	14.8	14.5	14.4	14.1	13.7	12.8	12.1	16.3
4	11.7	10.7	9.3	8.3	7.4	6.6	6.2	6.1	6.2	5.9	5.4	5.4	5.7	6.4	6.9	8.6	7.9	7.7	6.8	5.9	6.2	5.5	4.7	4.3	6.9
5	3.7	3.4	3.1	2.2	2	2.1	2.6	4.3	5.7	7.3	9.1	8.8	8.1	10.6	7.3	5.6	4.6	4.3	3.5	2.8	2	1.7	1.5	1.2	4.5
6	0.5	0.8	1.2	1	0.4	0.3	0	1.6	3.1	4	5.2	6.3	7.4	7.6	7.9	7.5	6.7	5.9	4.9	4.5	4.7	4.4	3.8	3.4	3.9
7	3.4	2.4	2.9	2.6	2.9	3.7	4.3	6.2	8.9	11.7	14.2	15.6	16.2	16.9	17.5	17.4	17.3	16.7	14.7	13.6	13.3	12.8	12.6	12.5	10.8
8	12.8	13.2	13.4	13.1	13	12.4	12.5	13.8	16.6	18.4	19.5	20.3	21.4	22.1	22.3	22.1	20.9	19.6	18.4	17.9	17.3	17.2	16.9	17	17.2
9	16.9	17.1	16.5	15.8	16	16.1	16.3	16.2	16	13.3	8.3	7.5	7.8	8.2	8.9	9.2	9.1	8.6	7.9	7.3	6.2	5.1	5	4.5	11
10	4.4	4.5	4.2	3.9	4.3	4.6	4.6	5.4	6.3	6.9	7.1	7.8	8.5	8.9	8.8	8.9	8.1	7	5.7	4.8	4.5	4.5	4.5	4.6	5.9
11	4.5	4.5	4.2	3.4	2.6	3.2	3.9	5.2	7.8	8.7	10	11.9	12.4	13.3	13.9	14.1	14.5	14.1	11.1	9.7	8.9	8.7	8.3	7.7	8.6
12	7.3	7	6.9	6.9	7.3	7.1	7.2	8.8	12.6	15.5	16.9	18	18.9	19.8	20.4	20.3	20	18.7	17.1	16.2	15.8	15.3	15	14.6	13.9
13	14.6	14.8	14.7	14.7	14.9	14.2	13.5	13.8	13.9	14.6	15.6	17.7	19.9	21.1	21.9	22.7	22.6	21.7	20.1	19.4	18.9	17.9	17.1	16.5	17.4
14	15.9	15.6	15.4	15.2	14.9	14.7	14.5	15.1	17.4	19.8	22.6	24.4	24.9	24.7	24.6	24.6	23.6	21.5	19.5	18.2	17.9	17.4	16.7	15.9	19
15	15.3	14.9	14.6	14.4	14.4	14	13.6	14.2	17	20.5	23.4	25.3	26.4	27	27.8	27.6	26.8	25.4	22.8	21.1	19.6	19.1	18.4	17.8	20.1
16	17.2	16.9	16.5	16.8	16.9	16.9	17	17	17.2	19.1	21.3	23	24.6	25.5	26.4	26.6	26	24.1	23.3	21.9	18.8	19.1	18.9	18.4	20.4
17	17.9	17.3	17.2	17.2	16.7	16.1	15.8	15.9	16.7	17.2	16.9	18	19.6	20.4	19.6	18.8	16	13.8	12.9	12.1	12.2	12.2	12.2	12.2	16
18	12.2	12.6	12.8	12.6	12.4	12.4	12.5	12.6	13.6	15.7	18.1	19.7	20.7	21.2	20.7	18.7	17	16.1	14.8	14.1	13.9	13.7	13.5	13.2	15.2
19	12.9	12.6	12.3	12.1	12	12.1	12.3	12.9	14.4	17.9	20.3	21.9	23.4	23.7	23	22.6	22.8	21.6	20	19	17.7	17	16.7	16.7	17.4
20	16.6	16.3	16	16	16	15.8	15.6	16.9	18.8	21.1	23.7	24.9	24.3	24.3	23.1	20.9	20.5	20	19.3	19	19	18.6	18.4	18	19.3
21	17.8	17.7	17.5	16.9	16.8	16.5	16.5	17.4	18.4	20.3	21.4	22.3	22.9	23	22.2	22.1	22.3	22.1	21.1	20.3	19.6	19.2	19.2	18.8	19.7
22	18.3	17.9	17.5	17.5	17.6	17.6	17.7	18.4	19.5	20.7	21.1	22.6	23.3	24	23.9	23.6	23.6	22.9	21.6	20.6	19.7	19.2	18.8	18.3	20.2
23	18	17.6	17.4	17.1	16.8	16.6	16.6	17	17.7	20	22.4	24.6	26.1	26.8	26.9	27.4	27.4	25.5	23.6	22.3	21.3	20.7	20.3	19.7	21.2
24	19.3	18.8	18.4	18	17.6	17.5	17.7	18.1	18.2	19.4	21.1	21.2	21.5	21.2	21.7	21.7	19.3	18.7	18.6	18.6	18.6	16.8	17	19.1	
25	16.7	16.9	16.7	16.8	16.9	17.3	17.1	17.3	18	18.3	18.3	19.2	20.5	18.4	17.6	17.1	15.9	15.2	14.4	14	13.8	13.4	13.3	13.3	16.5
26	13.1	13.1	13.2	13.1	13.1	13.1	13.5	14.4	16.4	17.7	18.7	19.8	20.6	21.1	21.4	20.8	18	16	14.5	13.3	12.7	12.1	11	10	15.4
27	9.2	8.4	7.6	6.9	6.1	5.4	5.3	6.1	7.2	8.1	9	10.1	11.4	12.2	13.2	13.6	14.3	12	9.5	8.5	8.1	8	7.9	7.3	9
28	7.3	7.4	8.1	8.5	8.7	9.2	9.7	11.6	13.3	15.3	16.5	18.2	19.8	21.1	22.6	23.8	24.4	24	22.7	21.9	21.4	20.5	19.5	19.2	16.4
29	19.1	19.5	19.7	19.4	18.6	17.9	17.6	18.7	21	22.8	23.6	24.4	23.8	20.8	21.3	21.3	19.7	17.7	16	14.8	14	13.5	13.2	12.3	18.8
30	11.8	11.4	11.1	11	10.5	10.2	10.7	12.1	13.8	15.2	16	16.2	17.2	16.6	16.5	16.6	15.3	14.2	13.8	13.7	13.8	13.8	14.5	15	13.8
31	15.1	15.5	16.5	17.1	16.7	16.7	16.7	17.2	17.9	18.5	19.4	20.5	21.3	20.6	20.2	21.3	19.3	17.3	14.4	12.4	11.8	11.1	10.6	10.2	16.6
Avg	12.9	12.7	12.6	12.4	12.2	12.1	12.2	12.9	14.3	15.6	16.7	17.7	18.5	18.9	18.9	18.9	18.1	17.1	15.7	14.9	14.3	13.8	13.3	12.9	15
S D	5.4	5.4	5.4	5.5	5.6	5.5	5.4	5.1	4.9	5.1	5.7	6	6.1	5.9	6	6	6.1	5.9	5.8	5.4	5.4	5.3	5.3	5	5
S/A	0.42	0.43	0.43	0.45	0.46	0.45	0.44	0.39	0.34	0.33	0.34	0.34	0.33	0.31	0.32	0.32	0.34	0.35	0.37	0.38	0.38	0.39	0.4	0.41	0.34
Min	0.5	0.8	1.2	1	0.4	0.3	0	1.6	3.1	4	5.2	5.4	5.7	6.4	6.9	5.6	4.6	4.3	3.5	2.8	2	1.7	1.5	1.2	3.9
Max	19.3	19.5	19.7	19.4	18.6	18.4	18.9	19	21	22.8	23.7	25.3	26.4	27	27.8	27.6	27.4	25.5	23.6	22.3	21.4	20.7	20.3	19.7	21.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 1.00 deg C/mV Calibration Date: 03/1988

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Relative Humidity (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Percent

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	102.5	103.5	102.8	101	100.4	99.3	97.8	97.8	96.1	93	85.8	80.8	72.4	64.9	60.6	54.3	53.5	59.7	63.3	59.2	71.4	80.3	102 ?	103.6 ?	83.6
2	99	96.5	99.5	102.3	101.8	101.3	100.5	98	91.4	88.9	89.7	89.6	91.5	93.7	96.5	99.1	103.6	104.4	103.3	102.5	104.2 ?	?	?	?	98 ?
3	?	?	?	104.6 ?	104.2 ?	?	?	?	?	?	103.1	100	98.3	96.8	97.6	100.3	101.3	97.1	95.3	92.3	92.5	91.3	94.6	98.7	98 ?
4	98.4	100.4	101.9	101.9	103.6	104	104.9 ?	?	?	?	104.6	104.9 ?	103.2	99.7	96.1	89.5	91.8	94.4	94.3	98.6	81.8	75.2	71.3	66.9	94.6 ?
5	69.2	71.3	71.8	77.9	82.3	84	87	87.6	80.7	75.7	72.4	77.4	84.5	66.2	91.9	95	87.7	83.3	86.2	90.8	96.1	98.1	98.3	99.2	83.9
6	101.5	99.6	91.1	82	84.6	84.2	86.8	79.8	73.4	70.6	64.4	62.7	63.3	66.2	66.1	68.8	70.1	73	80.5	81.2	79.7	85.5	92.1	95.3	79.3
7	96.9	101.4	101.9	103.7	103.8	101.5	99	92.2	88.2	77.8	78.8	79.4	77.9	76	74.4	74.5	75.2	79.7	87.7	93.7	97.1	99	99.9	100.7	90
8	99.1	97.4	97.4	99.1	98.6	100.8	100.8	98.8	91.7	88.3	86.4	80.6	69	65.4	62	64.3	73.1	80.1	88	92.5	94.7	94	94.4	95	88
9	96.8	99.5	103	?	?	?	?	?	?	?	?	103.5	99.5	93.2	89.5	82.1	79.6	81	85.2	87.2	95.5	99.7	98.5	100.7	93.4 ?
10	104.1	?	104.6 ?	102.9	101.1	96.5	89.5	83.2	76.2	69.7	64.3	61.6	58.2	46.9	43.2	39.8	51	61	69.5	75.5	77.1	80	81.1	85.8	74.9
11	87.1	87.4	91.1	96.5	99.9	101.2	97.8	93.2	77.9	75.1	68	56.9	51.1	48.5	48.5	43.9	32.4	40.6	68.8	78.5	92	96.6	101.2	103.5	76.6
12	104.9 ?	104.8 ?	?	?	?	?	?	?	99.5	89.3	75.6	73.6	72	68.9	65.4	68.8	72.5	77.2	81.8	84.1	86	89.1	91.9	95.4	83.4 ?
13	96.4	97	97.6	97.7	96.9	100.4 ?	?	?	?	?	103.3	96.8	89.1	85	82.5	79.9	80.2	84.3	89.9	92.6	94.8	96.8	98.2	100	93 ?
14	102.1	103.8	?	?	?	?	?	?	102.1 ?	94.9	79	69.7	60.6	58.7	55.8	53.8	59.3	69.1	77.8	83.5	84.2	84.6	87.9	97.1	79.1 ?
15	102.6	?	?	?	?	?	?	?	103 ?	93.2	82.1	72.4	68.6	61.9	48.6	48	52.9	60.2	77	85.6	94.4	95.9	98.5	100.7	79.2 ?
16	102.8	102.6	103.9	104.8 ?	?	?	?	?	?	100.2 ?	92.9	84.8	74.9	69.1	63.4	61.7	62	74.1	74.9	84.2	100.8 ?	101.4	99.3	100.8	87.3 ?
17	102.6 ?	?	?	?	?	?	?	?	?	104.7 ?	101.6 ?	95.8	88	85.1	87.8	91.8	99.4	104 ?	?	?	?	?	?	?	96.1 ?
18	?	?	?	?	?	?	?	?	?	104.4 ?	101.2	97.7	95.3	93.2	91.2	93	96.2	99.4	100.7	103.5	?	?	?	?	97.8 ?
19	?	?	?	?	?	?	?	?	?	100.8	95.5	90.3	81.4	79.8	86	91.2	88.8	93.2	98.8	102	?	?	?	?	91.6 ?
20	?	?	?	?	?	?	?	?	101.3 ?	91	79	73.9	83.9	83.6	84.5	100.4	103.3	103.9	104.4	103.2	102.2	104.1 ?	?	?	94.2 ?
21	?	?	?	?	?	?	?	?	?	98.7	94.6	90.7	90	88.8	91.1	90	89.2	92.4	96.1	98.8	101.3	102.2	102	103.2	95.3 ?
22	104.8 ?	?	?	?	?	?	?	104.6 ?	101.9	98.8	97	93.2	89.1	83.2	82.1	83	80.2	85.7	90.3	93.8	97.9	102.1	104.4 ?	?	93.6 ?
23	?	?	?	?	?	?	?	?	?	101.9 ?	96.2	86.9	80.9	72.9	75	69.8	66.9	79.4	88.1	94.1	95.3	97.1	97.3	99.2	86.7 ?
24	100.1	102.9	104.7 ?	?	?	?	?	?	?	104.6 ?	101.1	98.6	97.6	99.6	97.6	96.6	101.3 ?	?	?	?	?	?	?	104.3	100.7 ?
25	?	?	?	?	?	?	?	?	?	104.5	103.3	100.2	95.6	101.9 ?	104.6 ?	104.2	?	?	?	?	?	?	?	?	102 ?
26	?	?	?	?	?	?	103.8 ?	100.7	89.9	81.8	69.1	61.1	46.2	43.8	42.4	42	52.3	56.6	61.7	68.6	73.1	70.5	72.6	68.8	66.9 ?
27	65.1	64.2	64.8	66	66.4	70.4	74	72.4	69.3	63.4	59.4	54.8	51.6	45.9	38.4	38.6	36.2	61.3	72.1	75.9	80	82.6	84	92.7	64.6
28	93.3	95.3	99	102.2	100.1	100	99.1	92.4	85.1	73.2	71.7	70.4	70.5	70.8	69.5	69.2	69.8	73.2	79.1	83.1	86.5	91.7	96.3	97.9	85
29	97.9	95	92	91.9	95.1	96.7	97.7	93.4	77.2	55.7	45.9	41.7	48.1	66.2	64.3	63.7	67.5	72.2	77.7	81.6	87.1	89.4	92.7	95.5	78.6
30	95.5	97.5	97.7	96.4	97.8	96.6	96.4	93.4	84.7	79.3	77.8	79.3	74.4	78.3	79.9	80.6	87.2	93.4	96.8	99.8	102.5	104.5 ?	?	?	90.4 ?
31	?	?	104.4 ?	104.3 ?	?	?	?	?	104.3 ?	102.6	100.1	97	95.2	98.7	102	96.9	100.1 ?	?	?	?	?	?	104.7 ?	104.4	101.1 ?
Avg	96.5	95.6	96.1	96.2	95.8	95.5	95.4	92	89.9	88.1	84.7	81.4	78.1	75.8	75.5	75.4	76.3	79.8	84.9	87.8	90.7	92.2	94	96.1	88 ?
SD	10.4	11	11.1	11	10.4	9.4	8.3	8.7	11.4	14	15.6	16.2	16.4	17.1	19.3	20.4	20.2	16.3	12.1	10.8	9.5	9.5	9.2	9.9	9.7
S/A	0.11	0.12	0.12	0.11	0.11	0.1	0.09	0.09	0.13	0.16	0.18	0.2	0.21	0.22	0.26	0.27	0.26	0.2	0.14	0.12	0.1	0.1	0.1	0.1	0.11
Min	65.1	64.2	64.8	66	66.4	70.4	74	72.4	69.3	55.7	45.9	41.7	46.2	43.8	38.4	38.6	32.4	40.6	61.7	59.2	71.4	70.5	71.3	66.9	64.6
Max	104.9	104.8	104.7	104.8	104.2	104	104.9	104.6	104.4	104.7	104.6	104.9	103.2	101.9	104.6	104.2	103.6	104.4	104.4	103.2	104.2	104.5	104.7	104.4	102
n	246	208	189	183	171	164	158	161	209	291	353	367	372	368	366	370	347	327	322	312	283	271	258	268	6568

Data Recovery: 0.0% missing; 0.0% untested; 26.4% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 0.10 %/mV Calibration Date: 01/1999

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Dry Bulb Temperature (CR10)
Hourly and Daily Averages
Instrument: CSI
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	18.7	18.4	17.8	17.8	18.1	18	18.2	18.8	20.2	22.5	24.6	25.9	26.9	27.5	28	28.3	28.4	27.3	25	21.9	19.2	16.5	14.4	12.7	21.5
2	11.5	10.7	10	9.6	9.1	8.9	8.5	8.9	11.3	13.7	14.8	15.5	15.9	16.9	17.5	17.8	18.1	18.1	17.7	17.3	17.2	17.3	17	16.9	14.2
3	17.1	17.1	17.1	17.3	17.5	17.3	17.2	17.4	17.6	17.5	17.3	17.8	18.6	19.1	18.9	18.3	17.6	16.6	15.7	15.2	14.9	14.5	13.6	12.7	16.8
4	11.9	11.1	10.1	8.9	8	7.3	6.7	6.4	6.4	6.5	6.2	6	6.1	6.7	8	10.2	12.2	10.3	8.9	6.4	5	4.4	3.9	3.4	7.5
5	2.7	2.2	1.9	1.3	0.6	0.1	-0.1	2	4.2	5.9	7.7	8.7	8.1	9.8	11.1	8.6	6.8	6.3	4.9	2.8	1.3	0.5	0.2	-0.2	4.1
6	-0.6	-1.2	-1.3	-0.9	-1	-1.5	-1.8	-0.4	3.5	6.5	9.1	11.5	13.4	14.1	14	13.7	12.6	10.8	7.7	5.1	3.9	3.3	2.4	1.5	5.2
7	0.6	0.1	-0.2	-0.3	0	0.4	0.9	2.9	8.1	13.1	17.2	19.9	21	21.5	22	21.9	21.7	20.8	17.9	14.6	13.1	12.4	11.7	11.3	11.4
8	11.2	11.4	11.7	11.8	11.7	11.6	11.2	12.4	16.2	20.1	22.6	24	25	25.8	26	26	24.9	22.9	20.4	18.9	17.8	17.2	17.1	16.8	18.1
9	16.8	16.6	16.5	16	15.8	16	16.3	16.5	16.4	16.2	13	9.9	8.6	8.8	9.7	10.9	10.9	10.1	8.7	6.8	5	3.5	2.7	2.3	11.4
10	2.2	2.4	2.7	2.8	2.4	2.7	3	4.3	7.3	9.7	11.4	12.5	13.2	13.3	13.3	13.5	13.5	12.3	9.2	5.9	4.1	3.1	2.8	2.8	7.1
11	2.8	2.7	2.4	1.6	0.7	0.2	0.9	3.3	8.1	12.3	15.4	18	19.8	19.3	19.1	19.3	19.7	19.3	15.7	11.6	9.3	8	7.3	6.6	10.1
12	5.7	5.1	4.9	4.9	5.1	5.5	5.5	7.4	12.3	16.9	20.5	22.4	23.3	23.5	23.8	24.2	24.2	23.2	20	17.4	16.1	15.4	14.9	14.4	14.9
13	14.2	14.5	14.7	14.8	14.9	14.9	14	13.6	13.8	14.2	15.1	17.3	21	23.5	24.5	25.6	26.4	25.7	22.8	20.5	19.3	18.5	17.5	16.7	18.3
14	16	15.5	15	14.7	14.5	14.2	14.1	14.6	17.8	22.4	27	30.1	31.3	30.3	29.3	29.1	28.7	26.7	23.2	19.7	17.7	16.8	16.1	15.1	20.8
15	14.4	13.9	13.5	13.4	13.4	13.5	13.3	13.8	17.1	21.9	26.8	29.9	31.3	31.7	31.7	32.1	31.6	30	26.5	23.1	20.9	19.4	18.6	18	21.7
16	17.5	16.9	16.3	16.2	16.6	16.6	16.7	17	17.2	18.5	22.7	26.2	28.2	29.1	29.8	30.4	30.2	28	25.4	23.7	21.7	19.4	18.6	18	21.7
17	17.8	17.6	17.3	17.2	17	16.6	16.1	16.1	18.1	19.5	19.7	20.4	22.4	24.9	25.3	24.7	23.8	19.3	16.1	14.3	13.4	13	12.9	12.9	18.2
18	12.8	12.9	13.1	13.3	13.2	13.1	13.1	13.2	14	16.3	20.4	23.3	25.9	27.2	27	26	23.1	20.8	18.2	15.9	14.8	13.8	13.3	12.9	17.4
19	12.7	12.4	12.1	11.9	11.7	11.7	12	12.7	14.6	19.8	25.5	28.8	30.8	31.1	30	28.8	27.8	26.5	23.4	20.9	19.4	17.9	16.9	16.5	19.8
20	16.3	16.1	15.7	15.6	15.6	15.5	15.2	16.5	20.6	25.3	29.4	32.7	32.6	30.9	29.4	25	21.8	21.5	20.1	18.9	18.4	18.1	17.9	17.8	21.1
21	17.6	17.4	17.3	16.9	16.5	16.3	16.1	16.6	18.2	20.9	23.7	25.5	26.7	27.1	26.6	25.5	24.9	24.2	23.2	21.7	20.4	19.5	19.1	18.9	20.9
22	18.5	17.9	17.2	16.9	17.1	17.3	17.2	18	19.6	23.1	24.4	27	28.5	28.2	28.7	28.7	28.4	27.4	24.6	21.9	20.3	19.2	18.5	18	21.9
23	17.6	17.3	16.9	16.7	16.5	16.3	16.4	17.4	18.5	22	26.5	29.9	32.1	32.5	32.4	32.6	32.5	31.3	27.7	24.3	22.3	21	20.2	19.7	23.4
24	19.2	18.7	18.2	17.8	17.5	17.3	17.4	18.1	19	20.7	24.4	26	26.2	24.9	24.5	24.6	22.9	20.5	19.3	19	18.9	18.9	18.3	17.2	20.4
25	16.9	16.7	16.5	16.5	16.7	16.9	17	17	17.8	19	19.5	20.6	23.2	23.6	20.4	19.5	18.4	17	15.9	14.9	14.3	14	13.8	13.6	17.5
26	13.5	13.4	13.4	13.3	13.2	13.1	13	13.5	16	19.3	21.9	23.6	24.4	24.5	24.8	25.1	24.2	21.6	18.1	14.7	12.9	11.8	10.9	9.8	17.1
27	8.8	7.9	7.1	6.3	5.7	5	4.4	6.1	9.1	11.7	13.4	15.4	17.2	17.7	18.5	19.5	19.9	19.2	14.7	10.3	8.1	7	6.5	6	11.1
28	5.5	5.3	5.3	6	6.6	7	7.8	10.8	14.3	17.1	19.3	21	22.5	23.5	24.6	26	27.2	27.4	25.5	23	21.7	20.9	20	19.1	17
29	18.7	18.6	18.9	19	18.6	17.8	17.2	18.7	22	25.1	27.4	28.8	29.6	28	26.5	26.7	26.3	24.2	20.5	16.7	14.7	13.4	12.5	12	20.9
30	11.4	10.7	10	9.5	9.2	8.9	9.1	11.6	15.4	18.4	20.9	22.2	22.8	22.8	22.2	22.3	21.7	19.2	16.5	14.9	14.3	13.7	13.3	13.6	15.6
31	14	14.5	14.9	15.7	16.2	16.4	16.5	16.7	17.4	18.6	19.7	21.5	23.5	23.4	22.1	23.1	24.2	20.9	18	15.3	13.5	12.4	11.6	11	17.5
Avg	12.4	12.1	11.8	11.7	11.6	11.4	11.4	12.3	14.6	17.3	19.6	21.4	22.6	22.9	22.9	22.8	22.4	20.9	18.4	16	14.6	13.7	13	12.5	16.3
S D	6	6	6	6.1	6.2	6.2	6.1	5.6	5	5.3	6.1	6.9	7.2	6.9	6.5	6.4	6.3	6.2	5.9	5.9	5.9	5.9	5.8	5.8	5.3
S/A	0.48	0.5	0.51	0.52	0.53	0.54	0.54	0.46	0.34	0.31	0.31	0.32	0.32	0.3	0.28	0.28	0.28	0.3	0.32	0.37	0.41	0.43	0.45	0.46	0.33
Min	-0.6	-1.2	-1.3	-0.9	-1	-1.5	-1.8	-0.4	3.5	5.9	6.2	6	6.1	6.7	8	8.6	6.8	6.3	4.9	2.8	1.3	0.5	0.2	-0.2	4.1
Max	19.2	18.7	18.9	19	18.6	18	18.2	18.8	22	25.3	29.4	32.7	32.6	32.5	32.4	32.6	32.5	31.3	27.7	24.3	22.3	21	20.2	19.7	23.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	4.1	3.4	3.9	3.9	3.2	3.5	3.6	4.2	5.2	5.4	6.2	6.7	7	6.8	6.5	5.9	4.6	2.9	1.1	0.2	0	2.1	4.2	5	4.2
2	4.1	2.8	3.3	3.3	3.9	3.7	3.3	3.3	3.7	4	4	4.6	3.6	2.7	2.8	1.8	2	0.6	0.8	0.5	1.9	1.8	2.4	3.1	2.8
3	3.5	3.2	4.1	4.8	5	3.7	4.1	4.7	4.6	3.1	3.9	4.2	3.4	3.9	3.9	2.3	2.6	1.9	1.3	1.6	2.1	1.6	0.6	0.5	3.1
4	0.4	0.9	1.6	2.5	2.2	2	1.9	0.8	0.6	3	2.4	1.9	2	0.8	0.4	1	1.5	1.5	1.5	1.7	3.5	3	3	2.3	1.8
5	2	1.9	1.8	1.2	1	0.3	1.1	1.6	2.2	2.5	4.4	6.6	4	6.1	6.5	5.9	5.1	3.9	2.1	1.1	1.2	1.4	1.3	1.3	2.8
6	0.9	1	2.1	1.8	1.3	1.3	0.8	2.5	3.7	3.8	3	2.5	2	2	2.4	3.1	3.5	2.9	2.1	1.7	1.6	0.8	0.3	0.1	2
7	0.1	0.1	0	0.2	0.2	0.3	1	1.4	2.1	1.9	2.6	2.8	3.3	3.1	3.3	3.6	3.8	2.7	1.5	1.5	1.5	1	1.8	1.8	1.7
8	2	2.5	1.9	2.4	2.3	2	1.5	2.4	4.2	4.6	5	6	5.6	5.8	6.2	5.6	5.2	4.8	4.4	4.4	4.5	4.6	4.5	4.1	4
9	4.2	4.7	3.7	2.7	3.9	3.9	2.6	1.4	1.3	3.9	5.9	4.6	3.8	4.5	4.1	2.7	2.2	1.8	1.1	0.2	0	0.3	0.2	0.5	2.7
10	0.8	0.9	1.3	0.9	2	2.5	2.3	2.9	4.1	4.5	4.8	4.5	4.8	4.5	3.9	3.3	4	3.2	2.6	2.2	1.2	1.5	1.5	1.4	2.7
11	1.4	0.8	0.3	0	0	1.3	0.6	0.8	1.6	1.7	1.5	1	2.1	2	2.7	1.8	1.6	1.4	1.8	1.8	1.2	1.3	1.2	0.1	1.3
12	0.2	0.2	0.5	0.4	1.1	0.4	0	0.1	1.3	2.4	3.3	4.3	4.8	4.9	4.8	5	4.8	4.1	3.3	3.4	3.6	3.3	3	3.1	2.6
13	3.5	2.9	2.6	3	2.6	2.3	2.1	2.2	2.6	3.2	3.7	4.2	4.2	4.5	4.6	3.8	3.5	3	2.9	2.6	3.4	2.9	2.6	2.7	3.2
14	2.1	2.2	1.4	1.6	1.3	1.5	1.3	1.5	1.7	1.1	1.1	2	3.1	3.8	3.9	3.5	3.6	2.5	1.9	1.2	1.5	1.4	1.1	1.2	2
15	1.2	0.6	0.5	0.3	0.5	0.1	0.6	1.5	1.4	1.5	1.5	2.4	3.4	3.7	3.6	4.1	3.7	2.6	2.8	2.1	2.6	3.3	2.8	2.4	2.1
16	1.9	2.2	1.8	2	1.7	1.9	2.1	2.6	2.8	2.8	3.5	3.5	4.5	4.3	3.9	3.4	3.2	2	0.4	1.7	1.6	0.8	1.3	1.6	2.4
17	2.1	1.2	0.7	0.4	1.4	0.6	0.5	1.7	2.2	2.9	3.9	3.4	3.4	2.9	2.7	3.1	3.2	2.9	3.2	3.1	3.4	2.4	2.3	2.9	2.3
18	2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.2	2.7	2.5	2.5	2.3	1.5	3	3.1	3.4	2.6	2.5	1.5	1	1	0.9	0.9	2.1
19	0.9	0.5	0.6	1	0.7	0.4	0.3	0.8	0.8	0.6	1.2	1	1.1	1.4	3.1	2.6	2	2.1	1.6	1.5	1.7	0.8	1	0.5	1.2
20	0.6	0	0	0.3	0.2	0	0	0.2	0.4	0.8	0.7	1	3.4	3.6	4	1.6	1.5	1.8	1.2	0.8	1.5	1.3	1.7	1.4	1.2
21	1.5	1.6	0.4	0.3	0.6	0.3	1	0.1	0.7	2.7	3.3	3.3	3.3	3.5	3.3	2.7	2	2.5	2.7	2.4	2.1	1.8	1.3	1.3	1.9
22	1.7	1.1	1	1.4	1.3	0.8	1.3	1.7	2.6	2.8	2.6	2.7	2.6	3.9	4	4.4	3.9	2.5	1.6	2	1.6	1.9	1.8	1.9	2.2
23	2.3	1.4	1.7	1.8	1.2	1.7	0.9	1.6	1.4	1.8	1.8	1.7	1.8	2.4	2.6	2.9	2.3	2.7	2.4	2.6	2.2	2.9	3.1	2.6	2.1
24	2.9	2.7	2.3	2.3	2.6	2.5	2.1	2.3	1.9	1.9	2.4	2.4	2.1	0.9	0.8	1.1	1.3	1.2	0.8	0.5	2	1.7	1.7	0.7	1.8
25	0.3	0.4	0.1	0.2	1.5	1.3	0.3	0.2	0.2	0.2	0.8	0.9	2.2	3	2.6	3.2	3.7	3.2	3	2.7	1.9	2.1	1.9	1.7	1.6
26	1.9	1	2.5	1.6	1.6	1.7	2.5	2.6	4.7	4.5	4.8	4.8	5.4	5.3	5.1	5.1	5.4	5.8	4	3.3	3.3	2.9	3.1	3	3.6
27	3	3.1	2.9	3.6	3.7	2.9	3.3	3.3	3.3	4.3	3.3	2.4	1.9	1.7	1.4	1.9	1.2	2.9	2.6	2.2	1.7	1.2	1.6	1.5	2.5
28	1.5	1.4	1.9	2.5	2.4	2.6	2.1	2.7	4.8	5.1	5.6	5.5	5.7	6	5.8	5.1	4	3.7	2.7	3.1	3.1	2.8	2	2.2	3.5
29	2.4	3.5	4.1	3.7	3.1	2.6	2.7	3.5	3.7	4.4	4.4	4	3.9	4.2	3.5	3.2	4	3.8	2.6	2.6	2.4	1.7	2.4	3	3.3
30	2.5	1.8	1.4	1.6	1.6	1.8	1.5	2.3	2.8	3	3	3.8	3	3.9	3.6	3.5	3.5	3.4	2.8	1.9	2.1	0.9	0.4	1.2	2.4
31	0.8	1	1.8	2	1.4	1.2	1.4	2.3	1.8	2.3	2.8	3.5	3.7	2.8	3	2.7	2.6	3.8	3.8	4.2	4.1	4.5	4.3	4.7	2.8
Avg	1.9	1.7	1.7	1.8	1.9	1.7	1.7	2	2.5	2.9	3.2	3.4	3.5	3.6	3.6	3.3	3.2	2.8	2.2	2	2.1	2	2	2	2.4
SD	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.2	1.4	1.3	1.5	1.6	1.3	1.5	1.5	1.3	1.2	1.1	1	1.1	1.1	1.1	1.1	1.3	0.8
S/A	0.62	0.69	0.7	0.71	0.65	0.66	0.65	0.59	0.57	0.47	0.46	0.47	0.39	0.43	0.4	0.4	0.37	0.39	0.44	0.52	0.51	0.54	0.57	0.64	0.32
Min	0.1	0	0	0	0	0	0	0.1	0.2	0.2	0.7	0.9	1.1	0.8	0.4	1	1.2	0.6	0.4	0.2	0	0.3	0.2	0.1	1.2
Max	4.2	4.7	4.1	4.8	5	3.9	4.1	4.7	5.2	5.4	6.2	6.7	7	6.8	6.5	5.9	5.4	5.8	4.4	4.4	4.5	4.6	4.5	5	4.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Wind Direction
Hourly and Daily Averages
Instrument: NRG Vane
Degrees from North

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	252	251	250	262	279	285	290	287	288	292	298	302	305	302	306	315	321	314	329	17	7	67	95	96	296
2	103	111	112	111	115	117	119	118	125	124	124	117	117	121	122	150	182	264	251	230	221	213	219	238	131
3	241	243	244	245	245	245	253	256	276	262	247	281	286	275	278	304	336	327	308	301	325	329	330	335	269
4	356	351	18	17	21	26	36	27	23	37	58	67	81	81	83	214	249	234	4	305	327	330	324	317	4
5	309	296	301	276	269	263	212	220	206	195	244	296	310	317	336	354	10	3	3	329	320	315	337	330	315
6	344	12	31	23	9	27	30	50	66	68	71	72	103	133	155	161	184	187	183	177	195	210	262	256	103
7	222	310	236	196	190	188	181	179	192	190	217	237	241	243	245	237	227	226	215	219	209	210	207	211	222
8	223	224	224	220	219	227	226	236	241	237	235	240	247	247	243	237	238	236	233	232	238	238	243	242	237
9	247	245	242	243	245	246	254	262	276	38	60	79	76	78	85	92	94	98	105	112	154	295	278	360	107
10	48	49	38	19	46	57	64	68	74	59	60	65	65	66	63	75	97	107	104	108	117	128	129	148	75
11	167	156	121	111	21	121	97	103	127	156	160	179	178	168	138	198	217	215	183	185	190	193	204	223	170
12	254	235	256	226	247	247	244	233	245	244	252	237	239	238	234	232	238	235	234	237	241	245	243	245	239
13	245	244	245	247	253	273	260	258	248	245	246	246	253	268	264	258	258	247	247	244	245	245	245	252	252
14	253	253	271	281	279	283	286	302	328	350	71	111	170	165	164	158	178	188	172	193	196	206	231	243	202
15	252	258	243	236	232	231	212	218	223	240	237	243	224	227	226	222	216	213	221	221	225	239	245	241	229
16	246	245	241	242	239	248	250	249	241	255	249	257	268	277	262	266	250	233	209	268	78	205	236	252	253
17	255	291	275	21	47	39	68	73	77	81	101	114	111	113	109	101	85	105	95	96	98	94	90	91	95
18	90	67	50	44	62	63	55	68	62	73	79	98	100	47	104	89	88	94	89	82	79	62	53	46	77
19	42	27	17	39	33	36	6	10	35	13	74	121	143	143	156	149	174	151	125	127	157	151	162	174	128
20	188	204	246	252	255	252	232	287	311	303	25	133	137	157	169	163	153	158	161	191	219	201	210	216	172
21	208	205	217	162	185	181	159	53	67	179	215	214	233	241	233	196	197	219	227	224	226	231	215	221	215
22	198	193	196	203	219	229	218	235	233	267	270	246	230	217	221	218	227	227	229	228	225	235	244	247	229
23	251	257	249	247	252	252	259	276	282	283	283	287	271	264	249	240	252	210	206	223	221	243	245	249	249
24	247	250	254	249	251	253	247	248	237	224	274	268	296	309	254	352	128	135	125	102	137	227	173	315	245
25	334	47	92	207	128	146	161	310	275	304	322	357	38	79	81	88	77	66	51	62	75	62	49	48	68
26	55	34	35	14	19	12	30	32	39	35	33	27	27	31	38	55	71	63	70	86	68	66	84	66	47
27	55	64	64	64	63	62	54	72	57	48	52	56	32	13	14	336	336	188	183	175	175	192	194	224	66
28	226	225	239	246	249	251	254	263	266	270	265	266	260	262	261	263	273	264	263	261	255	252	259	278	260
29	284	298	297	313	321	322	318	326	335	344	354	356	54	109	112	119	128	119	114	114	122	132	129	130	27
30	127	123	122	123	109	105	104	112	116	113	135	141	131	138	138	134	129	130	129	145	130	151	179	209	129
31	229	260	260	269	271	259	254	279	284	287	302	299	285	295	294	300	111	96	98	94	93	86	76	81	355
Avg	238	249	263	266	264	268	270	279	279	309	282	270	252	241	223	216	190	179	166	188	194	216	206	220	233
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Peak Wind Speed (1-Minute Gust)
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	6.7	5.8	6.4	7.3	6.1	6.1	6.2	7.3	9.2	9.6	9.9	10.9	12	11.1	10.8	10.3	7.9	5.1	1.9	0.6	0.2	3.5	7.2	8.3	7.1
2	7.3	5.7	5.9	5.8	6.6	6.4	5.4	5.4	6.2	6.5	6.7	7.6	6.2	5.2	4.7	3.3	3.8	1.5	1.7	1.4	3.2	3	3.8	5.4	5
3	5.6	5.3	6.5	7.3	7.7	6	7.1	8.4	7.8	5.7	6.6	8.1	6.4	6.9	6.9	4.3	5	4	2.6	2.9	4	2.9	1.6	1.2	5.4
4	1.2	2.3	3.7	5	4.8	4.7	3.7	2.4	2	5.5	5	4.1	4	2.3	1.4	2.2	2.8	3	3.5	3.8	6.9	5.7	5.1	4.1	3.7
5	3.6	3.4	3.2	2.6	2.2	1	1.8	2.7	3.9	4.7	8.2	12.1	7.3	10.2	11.7	11.8	10.1	8.4	4.4	2.2	2	2.1	2.3	2.1	5.2
6	1.9	2.4	3.8	3.4	2.7	2.8	2	4.3	6.4	6.6	5.2	4.7	4.1	4	4	5	5.2	4.6	3.2	2.6	2.7	1.8	0.9	0.5	3.5
7	0.3	0.4	0	0.5	0.6	0.6	1.4	2.1	3.3	3	4.5	4.5	5.5	5.5	5.4	5.9	6.1	4.4	2.4	2.4	2.4	1.8	2.9	3	2.9
8	3.3	4	3.1	3.8	3.6	3.3	2.7	3.9	6.8	7.5	8.1	9.6	9.3	9.6	9.8	8.7	8.3	7.8	7.1	7.2	7.3	7.5	7.1	6.8	6.5
9	7	7.9	5.8	4.7	6.3	6.1	4.6	2.9	2.8	7.1	10.3	8.1	7.1	8.2	6.9	4.6	3.7	3.1	2	0.8	0.2	0.4	0.5	0.9	4.7
10	1.4	1.4	2.3	1.9	3.7	4.4	4.2	5.4	7.2	7.8	8.3	7.8	8.6	7.8	6.7	6	6.5	5.6	4.5	4	2.4	2.8	3	2.9	4.9
11	2.7	2	1	0.4	0.2	2.1	1.3	1.7	3.2	3.4	3.1	2.3	4	4	4.6	3.5	2.9	2.2	2.8	3	2.2	2.4	1.9	0.8	2.4
12	0.8	1	1.1	1.2	1.7	1	0.2	0.6	2.4	4	5.7	6.7	7.7	8.2	7.9	7.8	7.9	6.5	5.4	5.7	6	5.3	4.8	4.9	4.3
13	5.3	4.6	4.2	4.5	4.4	4.1	4.1	4	4.3	5.2	5.7	6.6	6.8	7.9	7.7	6.8	6.4	5.1	4.6	4.2	5.6	4.6	4.1	4.2	5.2
14	3.4	3.4	2.9	2.9	2.3	2.4	2.4	2.6	3.5	2.5	2.6	3.7	4.9	5.8	6.1	5.5	5.3	3.7	2.9	2.2	2.5	2.4	2.1	2.1	3.3
15	2.1	1.3	1.4	1.2	1.2	0.5	1.3	2.6	2.5	2.6	2.8	4.3	5.8	6.2	5.9	6.4	5.9	4.2	4.6	3.7	4.3	5.3	4.9	4.3	3.6
16	3.2	3.9	3.2	3.2	3.1	3.2	3.5	4.2	4.6	4.6	5.6	6.2	7.6	7.6	6.9	6.1	5.5	3.6	1.3	3.1	3.2	1.9	2.2	2.5	4.2
17	3.3	2	1.5	1	2.6	1.5	1.3	3	3.9	4.8	6.3	5.6	5.3	5	4.6	5.2	5.8	5.2	5.5	5.4	5.9	4.6	4.3	4.7	4.1
18	3.8	2.8	3	3.6	3.8	4.2	4.2	4.6	4.1	4.6	4.4	4.4	4.3	3.4	4.9	5.2	5.2	4.5	4	3	2	2	1.8	1.8	3.7
19	1.8	1.4	1.5	2.1	1.8	1.1	1.1	2.1	2	1.9	2.5	2.5	2.3	2.8	4.9	4.3	3.5	3.5	2.8	2.5	2.7	1.4	1.7	1.1	2.3
20	1.3	0.1	0.2	0.8	0.9	0.2	0	0.6	1.3	2.2	2.1	2.3	5.2	5.7	6.6	3.1	2.7	2.7	2.1	1.6	2.6	2.3	2.9	2.7	2.2
21	2.6	2.7	1.2	0.8	1.3	0.8	1.9	0.4	1.6	4.4	5.3	5.3	5.4	5.5	5.3	4.3	3.3	4.3	4.4	4	3.4	3	2.4	2.1	3.1
22	2.6	2	1.8	2.3	2.3	1.6	2.3	3	4.3	4.7	4.7	4.5	4.3	6.2	6.6	6.9	6.1	4.3	2.7	3.2	2.7	3	3	2.9	3.7
23	3.5	2.2	2.5	2.9	2	2.6	1.8	3	2.8	3.2	3.5	3.7	3.8	4.2	4.5	4.9	3.9	4.5	3.9	4.2	3.6	4.6	4.9	4.1	3.5
24	4.3	4	3.6	3.4	3.9	3.5	3.3	3.6	3.3	3.3	4.3	4.2	3.6	1.9	1.7	2.1	2.6	2.4	1.9	1.3	3.5	3.5	3.2	1.8	3.1
25	1.2	1	0.6	0.7	2.7	3.1	1.1	0.8	0.8	1.1	2	2.4	4.2	5.9	5.3	5.9	6.2	5.9	5.6	5.2	4	4.3	3.8	3.7	3.2
26	3.9	2.6	5.1	4	3.8	4	5.1	5	8.9	8.9	8.6	8.5	10.1	9.6	9.4	9.5	9.4	10	7.4	6	5.9	5.3	5.8	5.3	6.8
27	5.1	5.7	5.3	6.6	6.6	5.2	5.8	5.7	5.8	7.6	6.1	5.1	4.5	3.7	3.4	4.1	2.8	4.5	4	3.4	2.7	2	2.4	2.4	4.6
28	2.2	2.2	3.3	4	3.7	4	3.4	5.2	8.2	9.4	9.6	9.9	9.8	10.7	10	9	7.6	7	5	5.7	5.4	4.6	3.2	3.8	6.1
29	4.2	5.7	6.6	6.3	5.2	4	4.5	5.8	6.9	8.7	8.6	7.6	7.4	6.8	6	5.4	6.6	6.6	4.6	4.8	4.5	3.2	4.2	4.7	5.8
30	4.2	3.3	2.7	2.9	3.1	3	2.8	4.2	4.5	5	5.3	6.1	5.3	6.5	6	5.6	6.1	5.9	4.7	3.3	3.4	1.9	1	2	4.1
31	1.7	2	3.4	3.5	2.5	2.4	2.4	4.3	3.3	4.1	4.9	6	6.5	4.7	5.2	4.7	5	6.7	6.6	7.3	6.9	8.2	7.7	8.8	5
Avg	3.3	3	3.1	3.2	3.3	3.1	3	3.6	4.4	5.2	5.7	6	6.1	6.2	6.2	5.8	5.5	4.9	3.9	3.6	3.7	3.5	3.4	3.4	4.3
SD	1.8	1.8	1.9	2	1.9	1.8	1.8	1.9	2.3	2.3	2.4	2.6	2.2	2.4	2.4	2.3	2	1.9	1.6	1.7	1.8	1.8	1.8	2.1	1.3
S/A	0.56	0.61	0.61	0.62	0.58	0.59	0.6	0.53	0.52	0.45	0.41	0.43	0.36	0.39	0.38	0.4	0.37	0.39	0.41	0.48	0.49	0.51	0.54	0.6	0.3
Min	0.3	0.1	0	0.4	0.2	0.2	0	0.4	0.8	1.1	2	2.3	2.3	1.9	1.4	2.1	2.6	1.5	1.3	0.6	0.2	0.4	0.5	0.5	2.2
Max	7.3	7.9	6.6	7.3	7.7	6.4	7.1	8.4	9.2	9.6	10.3	12.1	12	11.1	11.7	11.8	10.1	10	7.4	7.3	7.3	8.2	7.7	8.8	7.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Station Pressure
Hourly and Daily Averages
Instrument: Viasala PTA-427
Millibars

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1007	1006	1006	1005	1005	1005	1005	1005	1006	1006	1006	1005	1004	1003	1003	1003	1003	1004	1005	1006	1007	1008	1009	1010	1005
2	1011	1012	1013	1013	1013	1013	1014	1014	1014	1015	1015	1013	1012	1011	1010	1009	1009	1008	1008	1008	1007	1007	1006	1005	1011
3	1005	1004	1003	1002	1002	1002	1002	1002	1003	1003	1001	1003	1002	1002	1001	1002	1003	1003	1004	1004	1005	1004	1004	1004	1003
4	1004	1004	1004	1003	1003	1003	1003	1003	1004	1004	1004	1004	1004	1004	1004	1004	1005	1006	1007	1008	1009	1011	1012	1013	1005
5	1014	1014	1014	1015	1015	1015	1015	1016	1015	1014	1012	1012	1013	1013	1014	1017	1020	1022	1023	1025	1026	1027	1028	1029	1018
6	1030	1030	1031	1031	1032	1033	1035	1035	1036	1037	1037	1037	1037	1036	1035	1035	1035	1035	1035	1035	1036	1036	1037	1037	1035
7	1037	1036	1036	1035	1035	1036	1036	1036	1036	1036	1036	1036	1036	1035	1034	1033	1032	1032	1031	1031	1031	1032	1031	1031	1034
8	1030	1029	1029	1028	1028	1028	1028	1028	1028	1028	1027	1026	1025	1023	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1025
9	1019	1018	1017	1016	1016	1016	1016	1016	1016	1017	1018	1019	1019	1020	1019	1020	1020	1020	1021	1021	1022	1022	1023	1024	1019
10	1024	1024	1024	1025	1026	1027	1028	1029	1030	1031	1031	1031	1031	1030	1030	1031	1031	1031	1031	1032	1032	1033	1033	1033	1029
11	1032	1032	1032	1032	1032	1032	1033	1033	1034	1034	1034	1034	1033	1032	1031	1030	1030	1030	1030	1029	1029	1029	1029	1029	1032
12	1029	1029	1028	1027	1027	1028	1028	1028	1028	1028	1028	1027	1026	1025	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1026
13	1022	1022	1021	1021	1021	1022	1022	1022	1022	1022	1022	1021	1020	1019	1018	1018	1018	1017	1018	1018	1018	1019	1019	1019	1020
14	1018	1018	1018	1017	1017	1018	1019	1019	1020	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1022	1021	1020
15	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1023	1022	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021
16	1021	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020	1019	1018	1018	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019
17	1019	1019	1018	1018	1019	1019	1020	1020	1022	1022	1023	1022	1022	1022	1022	1022	1021	1022	1022	1022	1023	1023	1024	1024	1021
18	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022	1021	1021	1021	1021	1021	1021	1020	1022
19	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020	1019	1018	1018	1018	1018	1018	1019	1019	1020	1020	1019	1020
20	1019	1019	1019	1019	1019	1020	1020	1021	1022	1022	1022	1022	1022	1021	1020	1020	1020	1020	1020	1020	1021	1021	1022	1022	1020
21	1022	1022	1021	1022	1022	1022	1023	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022	1022	1023	1023	1023	1024	1024	1023	1023
22	1023	1023	1022	1022	1023	1023	1023	1024	1024	1024	1023	1023	1022	1021	1020	1019	1019	1019	1019	1020	1020	1019	1019	1019	1021
23	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1018	1017	1016	1015	1014	1014	1013	1013	1013	1014	1014	1014	1014	1014	1016
24	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1013	1012	1011	1011	1010	1010	1009	1009	1009	1009	1009	1008	1007	1007	1011
25	1007	1006	1005	1005	1004	1003	1003	1004	1004	1004	1004	1004	1004	1003	1003	1003	1003	1003	1004	1004	1005	1005	1005	1004	1004
26	1004	1004	1004	1004	1004	1005	1006	1007	1007	1008	1008	1008	1008	1008	1008	1009	1010	1011	1012	1013	1015	1016	1017	1018	1009
27	1019	1019	1020	1020	1021	1022	1023	1024	1024	1025	1025	1025	1024	1024	1024	1023	1023	1023	1023	1024	1024	1023	1023	1023	1023
28	1023	1022	1021	1020	1020	1019	1019	1019	1018	1017	1016	1014	1013	1011	1009	1008	1008	1007	1007	1007	1007	1007	1007	1006	1014
29	1006	1006	1005	1005	1005	1006	1007	1007	1007	1008	1008	1008	1008	1008	1008	1009	1009	1010	1011	1011	1012	1013	1013	1014	1009
30	1014	1014	1014	1015	1015	1015	1015	1016	1017	1017	1016	1016	1015	1014	1013	1013	1013	1012	1012	1012	1011	1010	1009	1009	1014
31	1008	1008	1007	1007	1007	1007	1007	1007	1006	1006	1006	1005	1005	1004	1003	1003	1003	1004	1005	1006	1007	1007	1008	1008	1006
Avg	1018	1018	1018	1017	1018	1018	1018	1019	1019	1019	1019	1019	1018	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018
S D	9	9	9	9	9	9	9	9	9	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	1004	1004	1003	1002	1002	1002	1002	1002	1003	1003	1001	1003	1002	1002	1001	1002	1003	1003	1004	1004	1005	1004	1004	1004	1003
Max	1037	1036	1036	1035	1035	1036	1036	1036	1036	1037	1037	1037	1037	1036	1035	1035	1035	1035	1035	1035	1036	1036	1037	1037	1035
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: Viasala PTA-427 Serial Number: 493926 Calibration Factor: 0.104 mBar/mV + 800 mBar Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

March 2012

Battery Voltage (CR10)
Hourly and Daily Averages
Instrument: CSI
Volts DC

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.2	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13
2	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.6	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.4	13.3	13	12.9	12.9	12.9	12.9	12.9	12.8	13.1
3	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.3	13.3	13.1	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.8
4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.5	13.7	13.6	13.6	13.2	13.1	12.9	12.8	12.8	12.8	12.7	12.7	12.9
5	12.6	12.6	12.5	12.5	12.5	12.5	12.8	13.2	13.2	13.5	13.3	13.3	13.7	13.6	13.5	13.4	13.6	13.2	12.9	12.8	12.8	12.7	12.7	12.7	13
6	12.7	12.6	12.6	12.6	12.5	12.5	12.8	14	13.8	13.7	13.7	13.6	13.5	13.5	13.5	13.6	13.6	13.2	12.9	12.9	12.8	12.8	12.8	12.8	13.1
7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.9	13.7	13.5	13.4	13.4	13.4	13.4	13.3	13.4	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
8	12.8	12.8	12.8	12.8	12.8	12.7	12.8	13.6	13.5	13.4	13.3	13.3	13.3	13.2	13.2	13.3	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	13
9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.3	13.5	13.7	13.7	13.7	13.6	13.1	12.9	12.9	12.8	12.8	12.7	12.7	13
10	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.9	12.9	12.8	12.8	12.8	12.8	13.1
11	12.8	12.7	12.7	12.7	12.7	12.7	13.1	13.8	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
12	12.8	12.7	12.7	12.7	12.7	12.7	13	13.7	13.6	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9	13.4	13.5	13.4	13.3	13.3	13.3	13.2	13.2	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13
14	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.4	13.4	13.3	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.7	13
15	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.4	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.7	12.9
16	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.4	13.3	13.2	13.2	13.2	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
17	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.2	13.4	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13	12.9	12.8	12.8	12.8	12.8	12.8	13
18	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.5	13.5	13.3	13.3	13.2	13.2	13.2	13.3	13.3	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13
19	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.5	13.3	13.2	13.1	13.1	13.1	13.1	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.7	13
20	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.5	13.3	13.2	13.1	13.1	13.1	13.1	13.1	12.9	13.2	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.9
21	12.7	12.7	12.7	12.7	12.7	12.6	12.7	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13.2	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
22	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.2	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	13
23	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.4	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
24	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.2	13.3	13.3	13.3	13.2	13.2	13.3	13.3	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.9
25	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.3	13.2	13.4	13.4	13.3	13	13.4	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.9
26	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13
27	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.4	13.4	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13.1
28	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.2	13.2	13	12.9	12.9	12.9	12.9	12.8	12.8	13.1	
29	12.8	12.8	12.8	12.8	12.7	12.7	13	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13	12.9	12.8	12.8	12.8	12.7	12.7	13
30	12.7	12.7	12.7	12.6	12.6	12.6	13.2	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
31	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.8	13.2	13.3	13.4	13.3	13.3	13.3	13.4	13.3	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.7	13
Avg	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.3	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13	12.9	12.8	12.8	12.8	12.8	12.8	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0	0	0	0	0	0	0.1	
S/A	0	0	0	0	0	0	0.01	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0.01	
Min	12.6	12.6	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.6	12.8	13.1	13.1	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.8	
Max	12.8	12.8	12.8	12.8	12.8	12.7	13.2	14	13.8	13.7	13.7	13.6	13.7	13.7	13.7	13.7	13.6	13.2	12.9	12.9	12.9	12.9	12.9	12.8	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: CSI Serial Number: Battery Calibration Factor: N/A Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.