

April 2008

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	1	22	163	282	494	559 ?	359 ?	710 ?	516	461	297	315 ?	117	20	0	0	0	0	0	4317 ?	
2	0	0	0	0	0	1	22	91	254	517	689	649 ?	?	?	745	551	348	138	13	0	0	0	0	0	4018 ?	
3	0	0	0	0	0	4	67	285	354	180	156	325	203	146	86	49	37 ?	5 ?	2	0	0	0	0	0	1900 ?	
4	0	0	0	0	0	3	29 ?	129	193	360	205	487	569	741	597	354	218	147	21	0	0	0	0	0	4052	
5	0	0	0	0	0	1	31	139	71	123	66 ?	?	145 ?	158	87 ?	66	55 ?	16	4	0	0	0	0	0	963 ?	
6	0	0	0	0	0	1	16	48	116	128	155	190	110	127	77	120	70	30	4	0	0	0	0	0	1192	
7	0	0	0	0	0	2	17	58	75	121	158	191	167	150	123	93	59	25	7	0	0	0	0	0	1247	
8	0	0	0	0	0	4	30	113	195	198	305	315	327	263	212	155	105	34	6	0	0	0	0	0	2263	
9	0	0	0	0	0	11	43	58	205	206	327	270	318	264	172	189	93	46	12	0	0	0	0	0	2213	
10	0	0	0	0	0	6	49	182	435 ?	?	?	?	419 ?	?	?	?	?	116 ?	20	0	0	0	0	0	1228 ?	
11	0	0	0	0	0	9	64	206	350	?	806	930	927	743	620	553	323	116	21	0	0	0	0	0	5668	
12	0	0	0	0	0	5	49	222	406	529	591	600	621	449	298	?	56 ?	50	22	0	0	0	0	0	3898	
13	0	0	0	0	0	7	47	153	365	570	535	965	894	906	704	250	273	52	11	0	0	0	0	0	5731	
14	0	0	0	0	0	19	161	355	486	697	247	253	310	199	240	131	213	76	25	0	0	0	0	0	3413	
15	0	0	0	0	0	16	136	355	574	776	869	1006	1003	941	804	604	392	166	28	0	0	0	0	0	7671	
16	0	0	0	0	0	22	144	369	588	782	928	1002	1006	939	812	623	404	174	29	0	0	0	0	0	7823	
17	0	0	0	0	0	20	149	371	590	779	914	997	1005	933	801	612	391	165	27	0	0	0	0	0	7753	
18	0	0	0	0	0	22	149	365	578	760	894	965	955	889	756	544	366	131	20	0	0	0	0	0	7392	
19	0	0	0	0	0	23	99	315	492	664	830	810	618	665	683	619	254	65	19	0	0	0	0	0	6155	
20	0	0	0	0	0	21	106	173	130	77 ?	146	97	216 ?	423	236	327	329	115	18	0	0	0	0	0	2414	
21	0	0	0	0	0	12	21 ?	59 ?	?	?	?	?	91 ?	70 ?	64	125	220	135	14	0	0	0	0	0	813 ?	
22	0	0	0	0	0	22	110	70	334	424	584	622	610	390	501	284	352	147	48	0	0	0	0	0	4499	
23	0	0	0	0	0	11	59	176	301	490	864	914	1009	936	716	499	381	200	30	0	0	0	0	0	6587	
24	0	0	0	0	0	18	92	227 ?	?	?	379 ?	307 ?	350 ?	342 ?	276 ?	?	?	69 ?	26	0	0	0	0	0	2087 ?	
25	0	0	0	0	0	23	137 ?	?	398 ?	541 ?	671	687	813	764	596	410	365	183	27	0	0	0	0	0	5615 ?	
26	0	0	0	0	0	25	152	354	567	743	860	955	943	875	762	562	365	140	18	0	0	0	0	0	7322	
27	0	0	0	0	0	21	109	139	419	444	328	449	494	632	399	114 ?	52	35	5	0	0	0	0	0	3640	
28	0	0	0	0	0	16	66	115	216	186	438	179	328	315	173	144	105	30	4	0	0	0	0	0	2315	
29	0	0	0	0	0	20	104	?	?	?	395 ?	400 ?	390 ?	291 ?	417 ?	?	127 ?	90 ?	37	0	0	0	0	0	2271 ?	
30	0	0	0	0	0	35	106 ?	238 ?	?	?	400 ?	371 ?	472 ?	436 ?	385 ?	?	?	148 ?	35	0	0	0	0	0	2627 ?	
Avg	0	0	0	0	0	13	80	197	345	450	511	567	553	518	441	331	232	99	19	0	0	0	0	0	3970 ?	
S D	0	0	0	0	0	9	48	110	165	245	282	312	314	302	263	207	133	57	11	0	0	0	0	0	2292	
S/A	0	0	0	0	0	0.7	0.6	0.55	0.48	0.55	0.55	0.55	0.57	0.58	0.6	0.63	0.57	0.58	0.59	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	1	16	48	71	77	66	97	91	70	64	49	37	5	2	0	0	0	0	0	813	
Max	0	0	0	0	0	35	161	371	590	782	928	1006	1009	941	812	623	404	200	48	0	0	0	0	0	7823	
n	0	0	0	0	0	182	345	318	300	278	299	290	297	305	322	293	291	331	215	0	0	0	0	0	4074	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 13.6% exceed the 15% QC threshold -- 4717 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 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

April 2008

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	28	78	126	156	27 ?	162 ?	67	92	65	278 ?	185	19	0	0	0	0	0	1285 ?
2	0	0	0	0	0	0	0	0	25	285	236	97 ?	?	?	841	762	629	450	57	0	0	0	0	0	3382 ?
3	0	0	0	0	0	0	78	392	239	2	2	4	1	1	0	0	0	0	0	0	0	0	0	0	718
4	0	0	0	0	0	0	0	2	4	80	4	101	147	470	343	82	48	217	26	0	0	0	0	0	1525
5	0	0	0	0	0	0	0	18	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	22
6	0	0	0	0	0	0	1	1	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	9
7	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4
9	0	0	0	0	0	0	0	0	1	1	3	1	2	1	0	0	0	0	0	0	0	0	0	0	10
10	0	0	0	0	0	0	1	11	111 ?	?	?	?	101 ?	?	?	?	?	318 ?	82	0	0	0	0	0	623 ?
11	0	0	0	0	0	0	2	12	20	152 ?	654	812	776	504	551	680	482	166	4	0	0	0	0	0	4818
12	0	0	0	0	0	1	1	200	231	217	160	144	141	33	22	0	0	2	0	0	0	0	0	0	1154
13	0	0	0	0	0	0	6	60	100	195	133	827	654	823	593	127	195	0	0	0	0	0	0	0	3714
14	0	0	0	0	0	82	479	712	679	631	71	12	6	2	1	3	34	23	44	0	0	0	0	0	2780
15	0	0	0	0	0	81	482	733	819	888	815	964	963	926	899	832	747	530	173	0	0	0	0	0	9853
16	0	0	0	0	0	151	534	779	880	935	966	971	967	952	932	882	795	592	214	0	0	0	0	0	10549
17	0	0	0	0	0	151	559	786	878	925	943	961	960	942	909	866	778	581	208	0	0	0	0	0	10447
18	0	0	0	0	0	147	527	746	848	888	910	904	846	844	780	602	586	259	25	0	0	0	0	0	8913
19	0	0	0	0	0	36	118	376	452	476	629	431	112	241	404	698	131	6	59	0	0	0	0	0	4169
20	0	0	0	0	0	61	32	17	1	0	0	0	1	74	10	93	168	41	0	0	0	0	0	0	498
21	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	1	126	109	1	0	0	0	0	0	243
22	0	0	0	0	0	1	32	1	53	37	119	67	128	20	73	8	134	20	76	0	0	0	0	0	769
23	0	0	0	0	0	1	1	4	4	53	676	594	785	781	566	440	527	334	62	0	0	0	0	0	4827
24	0	0	0	0	0	0	2	14 ?	?	?	17 ?	9 ?	11 ?	17 ?	9 ?	?	?	30 ?	10	0	0	0	0	0	118 ?
25	0	0	0	0	0	1	11 ?	?	12 ?	13 ?	182	173	348	392	323	173	441	368	70	0	0	0	0	0	2508 ?
26	0	0	0	0	0	52	322	483	612	641	616	618	707	677	667	600	525	230	21	0	0	0	0	0	6772
27	0	0	0	0	0	1	67	4	66	28	1	13	12	53	31	0	0	0	0	0	0	0	0	0	276
28	0	0	0	0	0	1	2	2	2	2	21	1 ?	5	6	0	0	0	0	0	0	0	0	0	0	43
29	0	0	0	0	0	2	22	?	?	?	46 ?	32 ?	22 ?	0 ?	53 ?	?	2 ?	57 ?	90	0	0	0	0	0	326 ?
30	0	0	0	0	0	40	67 ?	62 ?	?	?	32 ?	34 ?	63 ?	42 ?	34 ?	?	?	163 ?	66	0	0	0	0	0	602 ?
Avg	0	0	0	0	0	27	112	194	227	253	255	269	273	281	280	266	245	156	44	0	0	0	0	0	2699 ?
S D	0	0	0	0	0	48	195	295	324	340	342	371	364	365	347	340	283	191	61	0	0	0	0	0	3400
S/A	0	0	0	0	0	1.78	1.74	1.52	1.43	1.34	1.34	1.38	1.33	1.3	1.24	1.28	1.15	1.23	1.39	0	0	0	0	0	1.26
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Max	0	0	0	0	0	151	559	786	880	935	966	971	967	952	932	882	795	592	214	0	0	0	0	0	10549
n	0	0	0	0	0	182	353	325	313	298	320	315	317	314	327	310	309	343	215	0	0	0	0	0	4245

Daylight Data Recovery: 0.0% missing; 0.0% untested; 10.0% exceed the 15% QC threshold -- 4717 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

April 2008

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	1	22	147	226	365	346	283 ?	481 ?	421	343	239	147 ?	60	22	0	0	0	0	0	3102 ?
2	0	0	0	0	0	0	22	91	234	253	427	473 ?	?	?	125	105	97	50	11	0	0	0	0	0	1889 ?
3	0	0	0	0	0	5 ?	53	147	240	178	156	324	203	146	82	47	25	8 ?	2	0	0	0	0	0	1616
4	0	0	0	0	0	2	25	129	193	299	205	383	424	303	302	292	198	103	19	0	0	0	0	0	2878
5	0	0	0	0	0	1	31	131	68	116	116	54 ?	51	125 ?	158	72	63	40 ?	16	4	0	0	0	0	929 ?
6	0	0	0	0	0	1 ?	16	48	116	128	155	190	4	110	127	77	120	70	30	4	0	0	0	0	1192
7	0	0	0	0	0	2	17	58	75	121	158	191	167	150	123	93	59	25	7	0	0	0	0	0	1247
8	0	0	0	0	0	4	30	113	195	198	305	315	327	263	212	155	105	34	6	0	0	0	0	0	2263
9	0	0	0	0	0	11	43	58	205	206	327	270	318	264	172	189	93	46	12	0	0	0	0	0	2213
10	0	0	0	0	0	7	49	176	322 ?	?	?	?	244 ?	?	?	?	?	38 ?	14	0	0	0	0	0	850 ?
11	0	0	0	0	0	11	64	203	328	368 ?	222	176	194	272	199	131	119	71	21	0	0	0	0	0	2380
12	0	0	0	0	0	5	49	132	269	350	440	455	477	421	276	40 ?	53	50	21	0	0	0	0	0	3037
13	0	0	0	0	0	7	46	130	295	410	405	200	271	185	246	178	178	52	11	0	0	0	0	0	2614
14	0	0	0	0	0	14	48	75	110	225	195	241	281	199	240	129	195	72	23	0	0	0	0	0	2045
15	0	0	0	0	0	11	47	71	103	117	164	114	104	123	107	93	73	50	17	0	0	0	0	0	1194
16	0	0	0	0	0	16	45	67	79	87	95	100	101	100	91	81	67	45	16	0	0	0	0	0	991
17	0	0	0	0	0	14	44	65	80	88	94	97	96	95	91	75	57	36	13	0	0	0	0	0	945
18	0	0	0	0	0	15	47	70	83	95	103	116	144	133	144	157	110	62	18	0	0	0	0	0	1295
19	0	0	0	0	0	21	72	155	207	280	249	384	500	426	354	170	190	64	16	0	0	0	0	0	3089
20	0	0	0	0	0	17	97	169	130	69	146	92	185	344	227	268	249	103	18	0	0	0	0	0	2113
21	0	0	0	0	0	13	20	59 ?	?	33 ?	?	47 ?	70	54	64	125	177	104	14	0	0	0	0	0	781 ?
22	0	0	0	0	0	25	100	70	291	386	454	542	471	372	427	281	289	115	41	0	0	0	0	0	3865
23	0	0	0	0	0	11	59	175	301	434	229	308	224	201	232	208	138	115	25	0	0	0	0	0	2660
24	0	0	0	0	0	18	92	209 ?	?	?	291 ?	266 ?	284 ?	238 ?	216 ?	?	?	51 ?	21	0	0	0	0	0	1688 ?
25	0	0	0	0	0	22	102 ?	?	294 ?	417 ?	466	507	454	393	331	290	165	95	22	0	0	0	0	0	3558 ?
26	0	0	0	0	0	23	78	142	186	237	298	342	248	245	221	173	126	78	16	0	0	0	0	0	2412
27	0	0	0	0	0	23	97	138	366	419	328	436	484	566	366	93	52	35	4	0	0	0	0	0	3407
28	0	0	0	0	0	16	66	115	216	186	417	164	325	311	173	144	105	29	4	0	0	0	0	0	2270
29	0	0	0	0	0	20	89	?	?	?	271 ?	302 ?	336 ?	291 ?	312 ?	?	121 ?	66 ?	20	0	0	0	0	0	1829 ?
30	0	0	0	0	0	26	73 ?	167 ?	?	?	330 ?	302 ?	354 ?	345 ?	317 ?	?	?	72 ?	24	0	0	0	0	0	2011 ?
Avg	0	0	0	0	0	12	55	118	200	233	262	265	276	255	212	151	122	59	16	0	0	0	0	0	2079 ?
S D	0	0	0	0	0	8	27	48	92	127	121	140	137	125	103	75	66	29	8	0	0	0	0	0	871
S/A	0	0	0	0	0	0.66	0.49	0.41	0.46	0.55	0.46	0.53	0.5	0.49	0.49	0.49	0.54	0.49	0.54	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	16	48	68	33	54	47	70	54	64	40	25	8	2	0	0	0	0	0	781
Max	0	0	0	0	0	26	102	209	366	434	466	542	500	566	427	292	289	115	41	0	0	0	0	0	3865
n	0	0	0	0	0	169	350	318	301	289	306	312	309	314	326	301	304	337	214	0	0	0	0	0	4154

Daylight Data Recovery: 0.0% missing; 0.0% untested; 11.9% exceed the 15% QC threshold -- 4717 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 $\mu\text{V}/\text{W}/\text{m}^2$ 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.

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

April 2008

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	16.2	16.7	17.1	17.1	16.8	16.5	16.5	17.3	18.7	20.5	21.8	20.1	21.8	21.6	21.3	21.7	22.2	21.5	20.6	19.8	19.2	19	18.9	18.7	19.2
2	18.1	18	17.8	17.4	17.5	15.3	12.7	11.9	11.7	12.1	12.7	12.9	13.5	13.5	13.2	12.7	12.3	11.6	10	9.1	8.4	8	7.7	7.6	12.7
3	8.1	8.7	9.2	9.3	9.4	9.6	9.9	11.2	12.3	12.4	12.3	12.5	12.5	12.5	12.3	12	11.9	11.9	12	12.5	13.2	14.6	15.2	15.7	11.7
4	16.2	17.3	18	14.9	13.5	12.5	11.9	12.2	13	14.6	16.6	18.4	20.2	21.8	22.6	22.8	22.8	23.1	22	21	19.8	19.4	19.4	19.4	18.1
5	19.5	19.8	19.4	19.6	19.6	18.8	17.7	17.8	17.9	17.7	17.9	17.8	17.7	17.8	17.8	16.7	15.6	14.6	14.6	14.4	14.4	14.5	14.3	14.5	17.1
6	14.1	13.8	13.8	13.4	12.6	11.1	11.1	11.4	11.7	12.3	12.6	13.1	13	12.6	12	11	10.2	9.2	8.6	8.4	8.4	8.5	8.5	8.6	11.3
7	8.6	8.6	8.5	8.4	8.5	8.6	8.6	8.7	8.9	9	9.2	9.7	9.7	9.7	9.7	9.4	9.1	8.9	8.7	8.5	8.5	8.5	8.5	8.4	8.9
8	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.5	8.7	9.1	9.4	9.8	10.4	10.7	10.5	10	9.8	9.8	9.6	9.5	9.2	9	8.9	8.9	9.2
9	9.1	9.1	9.3	9.5	9.7	9.8	9.8	10.1	10.8	11.5	11.8	12.3	12.6	13.2	13.1	13.3	13.4	13.1	12.8	12.6	12.3	12.1	11.8	11.7	11.4
10	11.6	11.4	11.2	11.1	11.2	11.4	11.5	12	14.1	17	18.7	20.2	21.6	22.4	21.4	20.9	20.3	18.5	16.6	14.7	13.7	13.1	13	12.9	15.4
11	12.9	12.8	13.1	13.3	13.2	13	13	14.2	15.6	18.4	21.2	23.1	24.9	25.5	26	27.1	25.9	25.1	23.5	22.3	21.5	20.6	19.9	19.5	19.4
12	19.4	19.1	19.2	19	18.9	19	19.2	20	21.4	22.4	23.8	25.4	26.3	26.8	27	25.6	20.6	20.9	21.1	20.7	20.6	20	18.9	18.1	21.4
13	17.3	16.7	16.1	15.7	15.6	14.8	14	14.2	15.2	16.5	16.2	16.7	17.2	17.5	17.4	16.5	16.6	16	14.5	13.6	13.1	11.6	10.4	9.5	15.1
14	8.7	8.2	7.5	6.9	6.4	5.7	6.7	9.2	10.8	11.8	11.2	10	10	9.8	10.3	10.1	10.3	9.9	9.3	8.8	8.2	7.9	7.4	7.2	8.8
15	7.1	7.2	7.2	6.7	6.3	5.9	7.3	9	10.9	12.3	12.3	12.7	12.9	12.8	12.6	12.3	12.1	11.2	9.8	8.8	8	7.5	7.4	6	9.4
16	5.6	5.1	5.3	4.6	4.7	5	6.3	9.8	12.4	14	15	15.4	15.9	16	16.1	16	15.4	14.4	12.7	11.1	10.2	9.2	8.8	7.3	10.7
17	5.6	4.8	4.5	4.8	5.5	5.5	7	10.8	13.9	15.9	17.6	18.9	19.9	20.7	21.4	22.3	22.8	21.6	17.8	15.6	14.3	13.4	13.4	13.3	13.8
18	12.6	11.8	11.3	11.6	11.8	11.1	12	15	19.2	22.5	24.4	26.7	28.2	28.9	28.9	27.3	26.3	23.6	21.3	20.6	19.9	19.4	18.6	17.9	19.6
19	17.3	16.7	16	15.3	14.7	13.9	14.3	15.8	17.3	20	22.3	24.2	24.6	24.9	25.3	25	23.9	22.7	21.6	20.6	20	19.4	18.7	18.8	19.7
20	18.7	18	17.5	17.3	17.7	17.5	18.5	19.1	19.8	19.4	18.6	18.5	18.6	19.1	18.7	18.2	18.8	18.5	17.9	17.3	16.9	16.2	15.7	15.6	18
21	14.3	13	12.9	13.3	14.1	14.9	14.8	14.4	14.3	12.9	12.8	13	13.2	13.1	13.1	13.5	14.3	15	14.7	14.4	14.3	14.1	14.4	14.8	13.9
22	15.1	15	14.8	14.9	14.7	14.9	15.6	16.2	17	18.1	19.1	19.3	19.5	19.3	19.4	18.9	18.9	18.1	17.5	16.5	16.3	16.2	16.1	15.9	17
23	15.9	15.7	15.5	15.3	15.1	15.1	15.6	16.6	18	19	20.3	21.3	21.4	21.7	21.7	21.3	21	20.2	18.6	17.3	16.3	15.6	15.1	14.9	17.9
24	14.8	14.5	14.3	14.2	13.8	13.4	13.5	14.9	17.6	20.9	22	23.2	24	24.6	23.7	23.2	23.2	22.3	20.8	19.2	18	17.6	17	16.5	18.6
25	16.1	15.9	15.4	15.1	14.7	15.2	15.7	17.5	19.6	21.1	22.3	23.5	24.6	25.3	25.5	25.4	25.7	24.8	22.8	21.4	20.5	19.6	19	18.6	20.2
26	18.1	17.6	17.2	16.7	16.5	16.9	17.4	18.9	20.9	22.5	23.8	25.2	26.4	27.1	27.6	27.8	27.6	26.6	24.6	23.1	22.3	21.7	20.8	20.3	22
27	19.4	18.3	18.1	17.6	17.3	17.7	18.2	18.4	19	20.1	19	19.3	18.7	18.4	18.7	17.8	16.9	16.7	16.5	16.3	16.2	16	15.9	16	17.8
28	16.4	16.8	17.2	17.5	18.1	18.7	19.1	19.7	20.3	20.7	22.1	21.3	21	22.2	21.9	21.4	21	20.9	20.5	18.2	19.2	19.1	18.5	16.4	19.5
29	16	15.7	15.5	15.2	14.8	13.3	12.8	13.3	14.1	15.5	15.7	16.2	16.4	16.5	16.8	16.9	16.9	16.4	16	14.4	13.2	12.6	11.7	12	14.9
30	12.3	12	11.2	10.3	8.6	8.2	9.5	11.4	12.9	14.5	15.4	15.7	15.8	15.3	15.6	16.3	15.9	14.8	13.7	12.8	12.4	12.3	11.7	11.8	12.9
Avg	13.8	13.5	13.4	13.1	13	12.7	13	14	15.3	16.5	17.3	17.9	18.4	18.7	18.7	18.5	18.1	17.4	16.3	15.5	15	14.6	14.2	13.9	15.5
S D	4.3	4.3	4.3	4.2	4.3	4.2	3.9	3.6	3.7	4.1	4.6	5	5.3	5.6	5.7	5.5	5.2	4.9	4.6	4.5	4.4	4.3	4.3	4	
S/A	0.31	0.32	0.32	0.32	0.33	0.33	0.3	0.26	0.24	0.25	0.26	0.28	0.29	0.3	0.3	0.31	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.26	
Min	5.6	4.8	4.5	4.6	4.7	5	6.3	8.5	8.7	9	9.2	9.7	9.7	9.7	9.7	9.4	9.1	8.9	8.6	8.4	8	7.5	7.4	6	8.8
Max	19.5	19.8	19.4	19.6	19.6	19	19.2	20	21.4	22.5	24.4	26.7	28.2	28.9	28.9	27.8	27.6	26.6	24.6	23.1	22.3	21.7	20.8	20.3	22
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

April 2008

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	97.9	97.9	97.3	99.7	102.4	103.9	?	?	102.2	96.6	92.4	102.3	96.1	97.9	99.1	95	92.2	94.4	96.6	99.9	103	103.9	104	103.8	99 ?
2	104.6	?	?	?	?	79	74	72.4	69.9	65.2	60.7	55.5	53.8	56.3	56.8	56.8	53.8	59.4	69.5	74.4	81.4	86	89.3	91.5	70.5 ?
3	86.5	81	77.8	73.2	70.6	68.5	68.4	68.6	64.7	62.1	63.1	67.2	70.9	72.7	76.1	79.7	85	92.1	95.6	98	100	101.5	104.7	?	79.5
4	?	?	?	?	?	?	?	?	?	104.7	104	101.1	97	91.3	87.3	85.9	86	85.8	90.2	95.4	101.6	102.8	100.1	101.5	95.7 ?
5	104.6	105	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
6	?	?	?	?	?	?	?	?	?	?	104.4	103.4	104.4	?	?	?	?	?	?	?	?	?	?	?	104 ?
7	?	?	?	?	?	?	?	?	?	?	?	104.8	104.6	103.8	103.6	104	?	?	?	?	?	?	?	?	104.2 ?
8	?	?	?	?	?	?	?	?	?	104.8	104.3	104.3	103.9	104.5	?	?	?	?	?	?	?	?	?	?	104.4 ?
9	?	?	?	?	?	?	?	?	?	?	?	104.7	103.7	104.5	104.2	104.9	?	?	?	?	?	?	?	?	104.4 ?
10	?	?	?	?	?	?	?	?	?	97.8	93.4	89.7	86.8	84.5	88.2	89.6	91.5	95.7	100.9	104.3	?	?	?	?	92.9 ?
11	?	?	?	?	?	?	?	?	?	?	98.4	85.7	76.7	74.9	71.8	67.2	75	77.8	80.2	86.3	88.8	92	95.9	98.5	83.5 ?
12	99.1	99.6	97.9	96.9	95.7	95.4	95.4	93.6	89.5	88.2	84.9	79.6	75.1	74.2	73.6	79.7	103.8	102.4	103.1	103.4	99.4	85.5	79.7	80.7	90.7
13	84.7	89.8	90.9	92.7	93	77.3	72.7	73.1	70.3	65.5	62.9	60.8	62.8	60.9	60.2	59.7	65.8	78.5	77.1	72.4	72.4	85.8	91.8	95.8	75.7
14	98.8	100	102.4	104.6	104.2	?	102.7	93.8	83.7	74.6	82.3	91.8	91.5	83.7	80	80.8	80	81.8	82	85.5	90.5	94.2	97.2	98.4	90.6
15	97.5	94.2	92.5	95.5	99.1	100.4	95.1	87.7	77.5	61.6	60.9	45.5	46.8	49.9	52.4	54.6	57.6	63	73	81.4	87.3	90.1	88.5	94	76.9
16	93.5	92.9	89.1	90.9	89.3	87	81.1	69.5	59.2	43.2	30.8	31.7	33.3	34.7	34.6	35.8	38.6	37.4	44	57.8	65.4	76.1	77.6	85.6	61.6
17	92.2	94.7	94.5	90.2	88.4	86.5	77.5	56.5	42.7	39.8	40.1	34.3	29.5	30	29.4	27.9	27.6	38.4	53	61.1	66.5	82.4	73.6	77.1	59.7
18	86.6	95.9	99.9	97.9	94.6	95.8	88.6	77.5	60.5	49.9	46	39.6	32.7	35	34.8	38.4	38.1	50.6	64.2	66.5	72.1	72.2	76.2	77.5	66.3
19	76.6	77.8	81	84.5	86.5	89.7	89	83.7	73.7	68.2	61.2	54.6	55.1	49.8	40.2	48.8	60.4	67.6	72.7	77.3	88.4	93.4	96.6	97.5	73.9
20	97.2	99.1	101.4	102.7	100.4	103.4	97.7	95.2	93.1	96.5	100.3	102.3	103.9	99.6	94.2	98.2	95.1	97.8	99.9	101.2	100.4	96.3	99.4	98.7	98.9
21	101.1	?	?	?	103.9	101.2	101.7	104.7	103.3	?	?	?	?	?	?	?	?	104.7	?	?	?	?	?	?	102.9 ?
22	?	?	?	?	?	?	?	?	103.5	100.3	97.5	96.7	96.5	96.2	95	98.2	97.5	100.3	100.4	103.3	103.1	102.8	103.3	104.2	99.9 ?
23	104.6	?	?	?	?	?	?	104.1	100.2	95.3	88.7	84.7	83.1	81.5	80.3	81.6	83.3	88.7	96.7	101.3	104	?	?	?	91.9 ?
24	?	?	?	?	?	?	?	?	99.1	88.9	79.1	72	67.7	64.1	69.9	74.9	73.6	75.9	83.8	91.2	96.1	99	102	103.1	83.8 ?
25	104.3	104.5	?	?	?	?	?	101.3	93.6	89.4	83.6	77.5	68	66	60.8	62.3	63	69.1	77.5	85.3	90.1	94.4	95.9	95.2	83.3 ?
26	96	95.2	94.6	96.6	98.5	98.5	98.6	95.5	87.7	82.1	79.3	74	70	68	65.4	63.2	65.4	69.1	77.7	84.9	88.6	90.3	89.3	87.3	84
27	92.2	99.5	100.9	104	104	?	103.9	104.3	101.6	97	97.9	96.7	98.6	97.4	95.8	98.5	102.9	103.2	102.9	104.2	?	?	?	?	100.3 ?
28	?	?	?	?	?	?	?	104.4	102.5	101.7	96.5	100.4	99.7	96.6	98.4	99.2	100.5	101.3	101.5	?	?	?	104.4	?	100.5 ?
29	?	?	?	?	?	104.2	101.3	98.2	90.9	80.8	80	72	65.5	61.3	57.6	59.7	59.2	62	63.3	73.8	82.2	86.2	94.2	94	78.2 ?
30	85.6	79.9	80.5	81.7	92.4	95.9	89.4	80	76.8	69.8	64.4	62.5	57.8	65.7	62.5	57.7	59	62.5	66.9	75.6	83.9	88.1	90.9	85.8	75.6
Avg	94.9	94.2	92.9	93.6	94.9	92.4	89.8	87.6	83.9	80.2	79.1	77.4	76.3	74.2	72	73.1	74.4	78.4	82.2	86.3	88.8	91.1	93.1	93.2	87.3 ?
S D	8	8.3	8.2	9	8.9	10.9	11.8	14.7	17.4	19.8	20.9	23	23.7	22.5	22.4	22.2	22.1	20	16.9	14.6	12.1	8.7	9.6	8.6	13.6
S/A	0.08	0.09	0.09	0.1	0.09	0.12	0.13	0.17	0.21	0.25	0.26	0.3	0.31	0.3	0.31	0.3	0.3	0.26	0.21	0.17	0.14	0.1	0.1	0.09	0.16
Min	76.6	77.8	77.8	73.2	70.6	68.5	68.4	56.5	42.7	39.8	30.8	31.7	29.5	30	29.4	27.9	27.6	37.4	44	57.8	65.4	72.2	73.6	77.1	59.7
Max	104.6	105	102.4	104.6	104.2	104.2	103.9	104.7	103.5	104.8	104.4	104.8	104.7	104.5	104.5	104.2	104.9	104.7	103.1	104.3	104	103.9	104.7	104.2	104.4
n	206	184	168	167	162	169	184	205	241	268	300	310	327	321	312	309	293	296	288	264	248	240	234	228	5915

Data Recovery: 0.0% missing; 0.0% untested; 31.4% failed QC -- 8640 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

April 2008

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	16.1	16.3	16.9	17.2	16.9	16.7	16.6	16.7	18.1	20.3	23.3	23.1	22.8	24.5	24.6	24.1	24.4	24.8	23.3	21.2	19.9	19.1	18.7	18.5	20.2
2	18.2	17.8	17.6	17.4	17.3	17.3	15.7	14	13.5	14.1	15.5	16.4	17.4	17.6	17.6	17.5	17	16	13.5	10.3	8.4	7.2	6.6	6.4	14.6
3	6.7	7.5	8.2	8.7	8.8	8.9	9.2	10.5	13.3	14.4	14	14	14.6	14.5	14.1	13.5	13.1	12.8	12.6	12.7	13	13.6	14.4	15.1	12
4	15.7	16.3	17.1	17.1	15.6	14.4	13.3	12.9	13.3	14.5	16.5	18.3	21	22.9	24.5	25.1	25	24.7	24.2	22.3	20.9	19.8	19.3	19.2	18.9
5	19.3	19.7	19.6	19.5	19.5	19.5	18.8	18.3	18.3	18.3	18.5	18.5	18.4	18.5	18.8	18.4	17.4	16.2	15.4	15.1	14.9	14.8	14.8	14.8	17.7
6	14.8	14.5	14.4	14.2	13.8	12.9	11.9	11.6	11.8	12.5	13.2	14	14.4	14.2	13.8	12.9	12.1	11.1	10	9.2	8.8	8.7	8.7	8.8	12.2
7	8.8	8.8	8.8	8.8	8.8	8.8	8.9	9	9.2	9.5	9.8	10.3	10.8	11.1	11.1	11	10.6	10.1	9.7	9.3	9.1	9	9	8.9	9.6
8	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.8	9.3	9.9	10.5	11.3	11.9	12.4	12.4	12	11.3	10.8	10.4	10.2	9.9	9.6	9.4	9.3	10
9	9.3	9.4	9.5	9.6	9.8	10	10.1	10.3	10.8	11.8	12.6	13.5	14.2	15	15.3	15.3	15.3	14.9	14.2	13.6	13.2	13	12.6	12.4	12.3
10	12.2	12.1	11.9	11.8	11.7	11.7	11.9	12.6	15.1	20	23.3	25.6	26.8	27	27.2	26.8	26.1	24.5	21.6	17.8	15.3	14.2	13.7	13.5	18.1
11	13.4	13.4	13.4	13.6	13.6	13.6	13.5	14.3	16.1	19.4	23.8	26	27.6	28.7	28.9	30	30.5	29.4	26.7	24.1	22.4	21.4	20.5	19.7	21
12	19.3	19	18.8	18.7	18.6	18.7	18.9	19.4	21.7	23.7	25.6	27	28.2	28.8	29.1	28.3	24.9	21.9	21	20.8	20.6	20.3	19.7	18.8	22.2
13	17.9	17	16.3	15.8	15.6	15.6	15	14.6	15.7	18.3	20.2	20.8	21.7	21.4	21.5	20.6	19.8	18.8	16.9	14.6	13.2	12.4	10.5	9.2	16.8
14	7.8	7.4	6.9	6	5.4	4.9	5.2	8.2	12	14.4	16.1	14.2	12.7	11.8	11.9	12.2	12.1	12	11.1	9.7	8.2	7.1	6.3	6	9.6
15	6.3	6.4	6.6	6.2	5.6	4.8	5.2	8.3	11.6	14.3	15.8	16.2	16.2	15.9	16.1	16.2	16.2	15.6	13.5	10.3	8.1	6.6	5.8	5.2	10.5
16	3.9	3.1	2.8	2.8	2.5	2.6	3.9	7.8	12.2	15.4	17.5	18.5	18.9	19	19.3	19.8	19.8	19	16.7	12.8	9.8	8.2	7	6.2	11.2
17	4.5	3.2	2.4	2.3	2.5	2.8	4.3	8.8	13.7	17.3	19.9	21.9	22.9	23.4	24.4	25.7	26.8	26.9	23.7	18.5	15.1	13.3	12.2	11.8	14.5
18	11.5	10.8	9.9	9.8	10.2	10.2	10.9	14.4	19	23.8	27.6	30.6	32.1	32.9	33.5	33.4	31.7	29.5	25.4	21.7	19.8	18.6	17.9	17.2	20.9
19	16.5	15.9	15.4	14.4	13.8	13.2	12.9	14.7	18.1	21.1	24.5	27.3	28.8	29	29	29.4	28.6	26.3	23.9	22.1	20.8	19.9	19.1	18.5	21
20	18.3	17.8	17.4	17.2	17.1	17.2	17.6	18.8	19.9	20.3	19.4	18.8	18.5	18.7	19.6	19.5	20	20.5	19.7	18.6	17.8	17.2	16.1	15.4	18.4
21	15.2	14.3	13.6	13.4	13.6	14	14.2	14.4	14.6	14.1	13.5	13.3	13.4	13.5	13.5	13.6	14.2	15.4	15.6	15	14.5	14.3	14.2	14.4	14.1
22	14.8	15	15	14.9	14.8	14.7	14.9	15.8	16.5	18.1	20.4	22.1	22.7	23	22.8	22.5	21.7	21.5	20.1	18.4	17.1	16.5	16.3	15.9	18.2
23	15.9	15.7	15.5	15.2	15.2	15.1	15.5	16.3	17.9	19.9	22.3	24.5	25.6	25.6	25.9	25.8	25.6	25.1	23.1	19.6	17.2	15.9	15.2	14.9	19.5
24	14.7	14.7	14.6	14.5	14.4	14.2	14.1	15	18.7	24	26.7	28.6	29.3	29.5	29.9	28.6	28.3	27.6	25	21.6	19.2	17.7	16.6	15.7	21
25	15.1	14.9	14.7	14.2	13.7	14	14.9	16.7	19.8	22.8	25	26.8	28.2	29.1	29.7	29.9	29.5	29.5	27.3	23.6	21.3	19.8	18.8	18	21.6
26	17.6	17.1	16.7	16.4	16	15.9	16.8	19.1	21.9	24.8	27	28.5	29.5	30.3	31	31.9	31.9	31.3	28.6	25.3	23.3	22.3	21.4	20.5	23.5
27	20.1	18.8	17.9	17.4	17	16.9	17.6	18.8	20	22.3	23.2	22.9	23.5	23.4	23.2	21.9	19.8	18.2	17.5	17.1	16.7	16.6	16.5	16.4	19.3
28	16.5	16.7	17	17.4	17.7	18.1	18.5	19.2	20.2	21.3	22.7	23.8	22.4	22.7	23.6	22.7	21.9	21.4	21.1	20.2	19.2	19.1	19.1	18.1	20
29	16.9	16.1	15.9	15.7	15.3	14.7	13.6	14.1	16.4	18.6	19.9	20.2	20.2	20.2	20.2	20.6	21.4	20.2	18.5	15.9	13.4	11.8	10.9	10.7	16.7
30	11.2	11.6	11.6	10.7	9.2	7.6	8.1	10.9	14.3	17.2	19.5	20.4	20.4	20	19.5	20.1	21.1	20.2	17.7	14.5	12.5	11.5	10.9	10.2	14.6
Avg	13.6	13.3	13.2	13	12.8	12.6	12.7	13.8	15.8	17.9	19.6	20.6	21.2	21.5	21.7	21.6	21.3	20.5	18.9	16.9	15.5	14.7	14.1	13.7	16.7
S D	4.7	4.6	4.6	4.6	4.6	4.7	4.4	3.7	3.6	4.3	5	5.6	6	6.2	6.4	6.5	6.4	6.2	5.5	4.9	4.7	4.7	4.7	4.6	4.2
S/A	0.34	0.35	0.35	0.36	0.36	0.37	0.35	0.27	0.23	0.24	0.26	0.27	0.28	0.29	0.3	0.3	0.3	0.3	0.29	0.29	0.3	0.32	0.33	0.34	0.25
Min	3.9	3.1	2.4	2.3	2.5	2.6	3.9	7.8	9.2	9.5	9.8	10.3	10.8	11.1	11.1	11	10.6	10.1	9.7	9.2	8.1	6.6	5.8	5.2	9.6
Max	20.1	19.7	19.6	19.5	19.5	19.5	18.9	19.4	21.9	24.8	27.6	30.6	32.1	32.9	33.5	33.4	31.9	31.3	28.6	25.3	23.3	22.3	21.4	20.5	23.5
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

April 2008

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	2.8	3.1	2.9	2.9	2.5	2.4	2.6	2.6	3.3	4.1	5.2	4.8	5.2	5.2	5.8	5	5.5	4.1	4.4	4	3.6	3.6	3.8	3.8	3.9
2	3.1	2.9	3.1	2.3	1.2	5	5	4.9	4.8	5.2	5.5	4.8	4.7	4.6	4.3	4.7	4.1	3.6	3.3	2.6	2.1	2	2.5	1.4	3.6
3	1.5	1.6	2.3	2.8	3	3.1	3.2	4	5.3	5.5	4.9	5.3	5.5	4.6	4.6	4.1	4.1	4.3	3.8	3.3	3	4.4	5.4	4.7	3.9
4	4	5.2	2.8	1.2	1.9	2.6	1.7	2	2.3	3.5	3.4	4.4	6.1	6.1	6.6	5.6	5.1	5.1	3.4	2.9	2.7	3.7	4.8	5.2	3.8
5	4.9	3.7	2.9	3.1	3.6	1.8	2	2.4	2	0.3	0.1	0.3	0.4	1.1	0.7	2.4	2.8	3	3	2.9	2.3	2.5	2.6	2.8	2.2
6	2.9	2.2	2.6	2.7	3.9	4.4	4.6	4.2	3.8	3	3.3	3.9	3.2	3.3	3.9	4.1	4.3	4.4	4.3	3.8	4.4	3.1	3	2.8	3.6
7	3.2	3.3	3.5	3.6	3.3	3.6	3.1	3.9	3.8	4	4.2	4.1	4.3	4.6	3.9	3.4	3.4	4.1	4.2	4.2	3.7	3	2.9	3.2	3.7
8	3.4	3.9	3.8	4	4.1	4.4	3.4	3.6	4.6	4	4.5	4.1	4.2	3.9	4	4.5	4.2	3.9	3.5	3.4	3	3.2	2.7	2.7	3.8
9	2.6	3.1	2.4	1.6	1.9	2.6	2.3	2.6	2.5	3	3.2	3.4	3.2	2.8	2.8	2.8	2.1	1.5	1.6	1.3	1.3	0.7	0.2	0.4	2.2
10	0.2	0	0	0.1	0.2	0.2	0.2	0.2	0.2	1.1	1.8	1.8	1.3	2.4	3.3	2.9	3.6	3.2	2.6	2.5	2.6	2.3	1.8	1.7	1.5
11	1	0.3	0.2	0.3	0	0	0	0.2	0.8	1.8	3.2	3.6	3.4	3.9	3.4	3.5	3.8	3.4	3.2	3.4	3.7	4.3	3.7	3.3	2.3
12	3.5	3.5	3.8	3	3.1	3.6	3.9	4.4	4.9	4.6	5.1	5.5	7.2	6	5.6	3.9	3.9	2.9	4	3.9	4.5	5.9	5.3	4.3	4.4
13	4	3.6	3.3	1.9	2.1	3.2	2.4	1.8	2.1	2.8	2.9	3	3.7	4	4.5	3	3.2	1.9	3.5	2.8	2.1	2.5	1.7	0.5	2.8
14	1.2	1.8	0.9	0.9	0.9	1.1	0.8	1.9	2.6	2.8	3.5	3.9	4	4	3.5	3.4	3.3	3.1	2.7	1.7	1.7	1.3	0.9	1.5	2.2
15	1.5	1.9	0.5	1.5	1.4	1.2	3.1	3.9	4.2	5.5	6.1	6.9	6.5	6.4	5.8	5.5	4.4	4.3	3.7	2.6	1.4	1.3	1.7	0.6	3.4
16	0.8	0.8	1.3	1.2	1.4	1.4	1.9	3.1	3.7	4.8	5.3	5.9	5.3	5.3	4.9	4.5	4	3.6	3.1	1.2	1.1	1	1.4	0.5	2.8
17	0.6	0.6	1.2	1.6	1	1.4	1.6	2	3.2	3.5	3.6	3.7	3.8	3.3	2.8	2	1.4	1.6	1.8	1.3	1.4	1.6	2	1.8	2
18	1.3	0.8	1.3	2.3	2	1.8	1.4	1.8	1.6	2	1.3	1.5	1.6	1.7	2.3	3.8	3.7	3.1	1.3	1.5	1.7	1.9	1.8	1.5	1.9
19	1.6	1.9	1.4	1.4	1.5	0.8	0.7	1.9	2.8	2.2	2.6	2.3	2.5	3	3.5	4.3	3.5	4	4	3.4	3.8	3.3	2.8	2.6	2.6
20	2.3	2.4	1.8	1.9	1.9	2.3	3.7	4.6	4.9	3.2	2.4	3.5	3.9	5.9	7.1	6.5	5.1	4.5	3.6	4.2	3.7	4.9	4.1	1.6	3.8
21	1.8	1.9	1.6	1.9	1.9	2.5	0.5	0.8	1.6	0.7	1.5	2.6	2.8	2.6	2.5	2.6	1.9	0.9	1.3	1.1	1.5	1.1	3.2	3	1.8
22	3.8	3	2.7	1.9	3.1	3.9	4	4.1	4.1	5	5.5	5.7	5.1	5.5	5.6	5.8	5.9	5	3.8	3.2	2.8	2.8	2.1	2.3	4
23	1.8	2.2	1.7	1.7	1.3	0.8	1.1	1.8	3.1	4	4.6	4.3	4.9	4.8	4.4	4	4	3.3	1.8	1.6	0.9	1.1	1.4	1.1	2.6
24	0.9	0.8	0.1	0.1	0.1	0.2	0.1	0	0.1	0.8	0.9	0.8	0.8	1.4	3.1	2.8	2.8	2.4	2.2	2	1.4	1	0.5	0.3	1.1
25	0.8	1	0.2	0.1	0.7	1.1	0.8	2.2	3	2.4	2.4	2.3	2.5	2.7	2.9	2.3	2.3	2.4	1.9	2.2	1.9	2.1	1.8	1.7	1.8
26	1.7	2	2	1.7	2.1	2.5	2.9	3.7	3.6	3.8	4.1	4.4	3.9	3.7	3.6	3.6	3.2	2.6	2.7	2.1	2.7	2.4	2.1	2.1	2.9
27	1.6	1.3	0.4	0.2	0.7	1.3	1	0.9	2.5	2.6	2.7	2.3	3.4	3.9	3.6	2.4	1.8	1.7	1.1	1	1.5	1.4	0.7	0.3	1.7
28	1	1.5	1.5	0.8	1.3	1.7	1.9	2.2	2.6	2.9	4	3.8	3.8	4.4	4.1	4.2	3.6	2.7	3.3	2.4	2.6	2	1.9	0.8	2.5
29	0	0.6	2.3	2.2	2.1	3.5	1.1	2.8	3.3	3.4	4.6	4.2	4	3.7	3.5	3.4	2.5	1.9	1.2	0.9	0.7	0.5	0.7	0.7	2.2
30	1.9	1.7	2.4	1.9	0.9	0.7	1.4	2	3.1	2.8	2.3	2.3	3.3	3.3	2.9	2.5	2.7	3.2	2.7	2.6	2.4	1.9	1.1	1.3	2.2
Avg	2.1	2.1	1.9	1.8	1.8	2.2	2.1	2.6	3	3.2	3.5	3.6	3.8	3.9	4	3.8	3.5	3.2	2.9	2.5	2.4	2.4	2.3	2	2.8
SD	1.3	1.2	1.1	1	1.1	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.6	1.4	1.4	1.1	1.1	1.1	1	1	1.1	1.3	1.4	1.4	0.9
S/A	0.61	0.59	0.61	0.59	0.6	0.62	0.66	0.53	0.44	0.44	0.43	0.42	0.41	0.35	0.34	0.3	0.31	0.34	0.35	0.4	0.44	0.54	0.58	0.67	0.32
Min	0	0	0	0.1	0	0	0	0	0.1	0.3	0.1	0.3	0.4	1.1	0.7	2	1.4	0.9	1.1	0.9	0.7	0.5	0.2	0.3	1.1
Max	4.9	5.2	3.8	4	4.1	5	5	4.9	5.3	5.5	6.1	6.9	7.2	6.4	7.1	6.5	5.9	5.1	4.4	4.2	4.5	5.9	5.4	5.2	4.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

April 2008

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	145	153	164	169	169	169	163	176	182	183	184	198	189	185	191	198	194	186	188	193	196	196	204	207	185
2	203	223	228	231	269	20	13	1	6	14	19	23	24	51	53	55	53	56	56	48	46	52	47	51	30
3	50	54	67	66	64	61	64	67	79	84	79	81	81	83	75	72	71	73	76	85	101	122	126	127	82
4	140	166	222	273	271	266	254	231	241	228	216	214	222	213	221	220	215	207	205	187	172	177	183	195	209
5	197	217	189	194	214	200	196	222	236	224	198	145	89	119	101	46	32	58	72	68	56	48	60	60	136
6	47	37	18	15	356	356	8	16	29	15	360	21	10	7	3	17	19	22	11	15	22	19	22	26	15
7	14	15	15	15	15	26	20	26	28	23	27	22	15	20	20	19	27	16	22	20	15	5	357	355	18
8	349	353	354	354	352	358	357	3	1	359	358	348	348	360	349	349	357	348	355	3	353	346	350	0	354
9	351	353	354	333	332	8	3	338	341	353	350	348	346	335	326	350	9	15	18	41	41	34	36	329	352
10	333	56	346	336	322	353	18	18	28	28	13	76	52	85	100	99	101	92	117	103	102	116	112	123	93
11	154	165	127	128	145	152	166	215	229	209	231	222	198	205	206	190	169	174	180	183	186	185	194	192	193
12	191	194	199	193	190	195	197	201	204	206	204	216	222	223	225	239	189	190	192	186	191	210	220	221	206
13	214	224	229	236	357	358	359	3	34	68	92	82	111	116	95	110	119	83	330	303	293	250	240	243	84
14	237	250	225	225	202	206	216	300	333	341	13	30	38	23	41	42	42	43	43	43	37	3	353	346	18
15	296	306	307	288	290	294	318	326	339	26	28	31	30	34	31	39	32	34	37	29	26	22	352	294	15
16	293	280	283	277	283	280	296	314	340	9	30	42	45	47	47	43	43	43	45	30	359	11	44	279	21
17	258	255	260	256	260	249	257	266	286	332	342	5	348	22	355	323	289	155	132	109	98	121	140	141	326
18	164	181	196	205	215	220	222	224	234	240	198	202	195	89	154	91	94	99	87	110	138	163	171	177	163
19	188	195	193	190	191	162	160	178	192	186	206	174	148	150	138	110	113	141	143	147	148	152	146	144	155
20	141	120	106	117	119	108	119	107	110	127	125	121	123	114	112	107	98	107	98	100	99	97	71	86	109
21	291	311	329	22	72	76	315	306	237	344	28	21	40	51	52	48	53	48	51	45	49	40	41	53	34
22	61	56	44	33	36	38	44	53	63	69	70	71	65	66	68	64	64	67	55	49	43	46	30	40	58
23	37	47	40	24	18	7	10	31	47	62	60	58	64	66	62	63	63	66	66	59	44	28	39	45	54
24	48	48	38	351	342	351	356	47	202	250	311	126	47	73	95	113	91	117	125	136	124	137	181	161	106
25	208	207	166	151	237	244	230	249	263	255	252	239	223	200	204	184	184	162	135	169	178	185	190	202	209
26	206	216	219	215	224	231	229	241	246	241	232	225	223	214	209	214	186	173	168	173	181	185	182	199	213
27	260	259	169	169	46	64	50	335	328	329	19	43	34	9	22	11	10	360	23	353	32	53	76	82	13
28	111	134	155	163	179	181	190	191	186	183	187	203	192	178	182	186	195	184	201	250	206	216	266	294	192
29	292	264	273	279	310	328	316	276	274	284	272	285	286	291	292	306	301	304	301	273	272	280	263	319	290
30	334	316	311	308	288	298	318	335	358	7	357	5	10	46	50	41	66	70	83	86	85	104	136	135	27
Avg	177	217	250	274	312	359	354	329	339	10	21	41	48	72	78	70	80	84	84	89	100	127	126	140	64
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

April 2008

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	4.8	5.2	4.9	5	4.4	4.3	4.9	5	6.3	7.5	9	8	8.9	8.7	9.7	8.3	9.3	7.1	7.3	6.7	6.2	6.3	6.4	6.6	6.7
2	5.3	4.9	4.7	3.4	2.3	8.7	8.8	8.3	7.8	9	9.4	8.1	7.5	7.6	7.4	8	6.8	6	5.5	4.3	3.4	3.2	4.1	2.6	6.1
3	2.7	3.1	4.2	5.1	5.4	5.5	5.7	7	9	8.9	8.3	8.9	8.6	7.9	7.6	6.8	6.8	7.1	6.2	5.2	5	7.6	8.1	7.6	6.6
4	6.6	8.6	5.3	2.8	3.8	4.4	3.7	3.6	4.1	5.5	6	7.5	10	10.4	11.2	9.4	8.6	8.2	5.6	4.8	4.8	6.3	8.2	8.6	6.6
5	8.1	6.1	5.4	5.5	6.3	3.9	3.8	4.3	3.6	1.3	0.5	0.7	1.2	2.2	1.8	4.5	5.4	5.3	5.3	5.2	4.1	4.6	4.6	5.2	4.1
6	5.1	4.3	4.7	5	6.5	7.4	7.9	7.8	7.1	5.8	6.1	6.8	5.8	6.2	7.2	7.4	7.8	7.9	8.3	6.9	8	6.3	5.7	5.6	6.6
7	6.3	6.1	6.5	6.7	6.3	6.6	5.9	7.1	6.7	7.4	7.4	7.5	7.5	7.8	7	6.3	6.4	7.2	7.7	7.7	6.8	5.5	5.3	5.9	6.7
8	6.3	6.7	6.3	7.2	7.5	7.2	6	6.7	7.7	6.9	7.5	7.2	7.3	6.6	6.9	7.8	7.1	6.8	6.1	6.1	5.5	5.7	5.7	5.3	6.7
9	4.6	5.3	4.4	3.6	4	5.1	4.9	4.7	5	5.3	5.6	5.9	5.6	5.5	5.4	4.9	3.9	3.2	3.2	2.9	2.9	1.9	0.9	1.6	4.2
10	0.8	0.1	0.1	0.2	0.9	0.8	1.1	1	0.8	2.6	3.2	3.2	2.5	4.3	4.8	4.7	5.6	5	4	3.8	4.1	3.8	3.1	3.1	2.6
11	2.4	1	0.8	1.1	0.4	0.3	0.1	0.8	2	3.3	5.2	5.7	5.8	6.7	5.6	6.2	6.6	5.7	5.7	5.7	6.3	7.5	6.3	5.5	4
12	5.9	5.7	6.3	5.1	5.5	5.9	6.4	7.6	8.3	7.8	8.3	9.9	11.4	9.5	9.4	6.7	6.9	4.9	6.5	6.3	7.3	9.3	8.3	7.1	7.3
13	6.5	5.8	5.3	3.1	3.8	5.6	4.1	3.3	3.9	4.8	4.8	5	6.4	6.6	7.5	4.8	5.4	3.4	5.9	5.3	4.1	4.6	3.6	1.5	4.8
14	2.6	3.7	2	2	2	2.3	2.3	4	4.6	4.9	6.2	6.5	7	6.6	5.9	5.9	5.6	5	4.4	3.2	2.7	2.3	1.8	2.6	4
15	2.7	3.4	1.6	2.7	2.7	2.3	5.3	6.4	7.3	9.5	10.3	11.3	11.6	10.5	9.4	9.3	7.6	7.1	6.4	4.4	2.6	2.2	3.3	1.4	5.9
16	1.6	1.8	2.6	2.4	2.7	2.7	3.5	5.4	6.5	8	9	9.3	9.1	9.3	8.5	8.1	6.6	5.6	5.1	2.4	1.9	1.6	2.4	1.1	4.9
17	1.2	1.4	1.8	2.5	2	2.8	3.3	4.1	5.6	6	6.3	6.6	6.6	5.7	5.2	4.4	3	2.9	2.8	2.1	2.2	2.5	3.1	2.8	3.6
18	2.3	1.4	1.7	3.1	2.9	2.5	2.2	2.9	3	3.8	2.5	3	3.4	3.3	4	6.4	6	4.6	2	2.3	2.8	3.1	2.9	2.3	3.1
19	2.4	2.7	2.2	2	2.2	1.4	1.5	3.3	4.4	3.6	4.3	3.9	4	5.2	5.8	6.8	5.7	6.9	6.8	5.9	6.6	5.9	4.8	4.5	4.3
20	4.1	3.7	3	3.1	3.4	4	6.4	7.1	7.7	5.6	4.7	6	6.9	9.5	11.7	10.7	8.4	7.4	6.4	6.7	6.1	8.2	7.7	3.6	6.3
21	4.3	4.2	3.3	3.8	4.1	4.7	1.9	2.4	3.5	1.9	3.1	4.6	5.2	4.7	4.8	4.7	4.4	2.6	3.2	2.9	3.3	3.1	6.2	5.9	3.9
22	6.9	5.4	5.1	3.9	5.6	7.1	7	7	7.6	9.1	10.1	9.6	9.3	9.7	9.5	10.3	10.5	8.2	6.6	5.6	5	5	3.8	4.1	7.2
23	3.6	4.2	3.5	3.2	3	2.2	2.9	3.6	5.6	7.4	7.8	7.3	8.3	7.6	7.1	6.9	6.5	5.4	3.3	2.9	1.9	1.9	2.3	2.1	4.6
24	1.9	1.9	0.4	0.4	0.5	0.8	0.3	0.1	0.6	1.9	2.2	2.2	1.7	2.8	5	4.5	4.4	4	3.4	3.1	2.4	1.7	1.4	0.8	2
25	1.6	1.7	0.8	0.3	1	1.8	1.6	3.7	4.8	4	4.4	3.9	4.2	4.8	4.9	3.9	4	4	3	3.9	3.5	3.8	3.2	3	3.2
26	2.7	3.3	3.2	2.7	3.3	4.1	4.4	5.8	5.7	6.2	6.8	6.9	6.2	5.9	5.8	5.8	5.4	4.6	4.6	3.8	4.6	4.2	3.7	3.7	4.7
27	2.8	2.6	1	0.5	1.4	2.8	2.3	2.3	4.3	4.7	4.5	4	5.5	6.5	5.9	4.4	3.1	3.4	2.1	2	3	2.6	1.6	0.9	3.1
28	2.3	3.3	3	2	3	3.8	3.9	4.6	4.8	6	7.3	6.6	7.1	8.2	7.4	7.7	6.2	5.1	6	4.4	5	4	4.1	2.1	4.9
29	0.2	2.1	4.8	4.8	4.9	7.4	3.1	5.7	6.3	6.4	8.3	8.1	7.7	7.5	7.4	6.9	5.4	4	2.7	1.4	1.2	1	1.1	1.5	4.6
30	3.7	3.4	4.8	3.8	2.1	1.6	3.1	4.2	5.4	5.2	4.6	4.5	5.8	5.9	5.2	4.5	4.7	5.1	4.5	4.4	4.1	3.3	2	2	4.1
Avg	3.7	3.8	3.5	3.2	3.5	4	3.9	4.7	5.3	5.7	6.1	6.3	6.6	6.8	6.8	6.6	6.1	5.5	5	4.4	4.2	4.3	4.2	3.7	4.9
SD	2	2	1.9	1.8	1.9	2.3	2.2	2.2	2.1	2.2	2.5	2.4	2.5	2.2	2.2	1.9	1.7	1.6	1.7	1.8	2.2	2.2	2.2	2.2	1.5
S/A	0.55	0.52	0.55	0.56	0.55	0.57	0.56	0.46	0.4	0.4	0.4	0.39	0.38	0.32	0.32	0.29	0.28	0.3	0.34	0.38	0.42	0.5	0.52	0.59	0.3
Min	0.2	0.1	0.1	0.2	0.4	0.3	0.1	0.1	0.6	1.3	0.5	0.7	1.2	2.2	1.8	3.9	3	2.6	2	1.4	1.2	1	0.9	0.8	2
Max	8.1	8.6	6.5	7.2	7.5	8.7	8.8	8.3	9	9.5	10.3	11.3	11.6	10.5	11.7	10.7	10.5	8.2	8.3	7.7	8	9.3	8.3	8.6	7.3
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

April 2008

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	1023	1022	1021	1021	1020	1020	1020	1020	1020	1019	1019	1018	1017	1017	1016	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1018
2	1015	1015	1015	1016	1017	1019	1021	1022	1023	1023	1025	1025	1025	1025	1025	1025	1025	1026	1027	1027	1028	1028	1028	1028	1029	1023
3	1029	1029	1029	1029	1029	1029	1029	1029	1029	1030	1029	1028	1027	1026	1025	1025	1024	1023	1022	1021	1021	1020	1019	1017	1017	1026
4	1016	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1014	1013	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1013
5	1010	1010	1009	1010	1010	1010	1011	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012
6	1011	1010	1010	1010	1011	1011	1012	1012	1013	1013	1014	1014	1015	1015	1016	1015	1016	1017	1017	1018	1018	1018	1018	1018	1018	1014
7	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1020	1020
8	1021	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1021	1021	1021
9	1020	1020	1019	1019	1020	1020	1020	1021	1020	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1019	1020	1019	1019	1019	1019	1020
10	1019	1018	1018	1018	1019	1019	1019	1020	1020	1020	1020	1019	1018	1018	1018	1018	1017	1017	1017	1017	1018	1018	1017	1017	1017	1018
11	1016	1016	1015	1015	1016	1016	1016	1016	1016	1016	1015	1014	1013	1012	1010	1009	1009	1008	1008	1009	1009	1008	1008	1008	1008	1012
12	1007	1007	1007	1006	1006	1006	1006	1006	1006	1005	1004	1004	1003	1002	1001	1001	1001	1001	1001	1001	1001	1001	1002	1002	1002	1004
13	1002	1002	1003	1003	1004	1005	1006	1007	1007	1007	1007	1006	1006	1005	1005	1004	1004	1005	1006	1007	1008	1010	1010	1010	1010	1006
14	1010	1010	1010	1010	1010	1011	1012	1012	1012	1013	1013	1013	1013	1014	1013	1013	1013	1013	1013	1013	1014	1015	1015	1015	1015	1013
15	1015	1014	1014	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1021	1021	1021	1021	1017
16	1020	1020	1020	1020	1020	1021	1022	1023	1023	1023	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1021
17	1020	1019	1019	1019	1019	1019	1019	1020	1020	1019	1019	1019	1018	1018	1017	1016	1016	1016	1015	1016	1016	1017	1017	1016	1016	1018
18	1016	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1016	1016	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015
19	1014	1013	1013	1013	1014	1014	1015	1015	1016	1016	1016	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013
20	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1012	1011	1011	1011	1010	1010	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011
21	1012	1011	1011	1011	1010	1010	1011	1011	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1013	1012	1012
22	1013	1013	1012	1012	1012	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1014	1015	1015	1015	1015	1016	1016	1017	1017	1017	1014
23	1017	1016	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018
24	1019	1019	1019	1019	1019	1020	1020	1021	1021	1022	1022	1021	1020	1020	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1020
25	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1018
26	1016	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	1014	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015
27	1015	1014	1014	1015	1015	1016	1016	1016	1016	1017	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016
28	1013	1012	1012	1011	1011	1011	1011	1011	1011	1011	1010	1009	1008	1007	1006	1005	1006	1005	1005	1005	1005	1005	1005	1005	1005	1008
29	1004	1003	1003	1003	1004	1005	1006	1007	1007	1008	1008	1008	1009	1009	1009	1009	1010	1010	1011	1012	1012	1013	1013	1013	1008	1008
30	1013	1014	1014	1014	1014	1015	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1017	1017	1018	1018	1018	1019	1019	1019	1019	1017
Avg	1015	1015	1015	1014	1015	1015	1016	1016	1016	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1016	1015	1015	1015	1015
S/D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5	5	
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	
Min	1002	1002	1003	1003	1004	1005	1006	1006	1006	1005	1004	1004	1003	1002	1001	1001	1001	1001	1001	1001	1001	1002	1002	1002	1004	
Max	1029	1029	1029	1029	1029	1029	1029	1029	1029	1030	1029	1028	1027	1026	1025	1025	1025	1026	1027	1027	1028	1028	1028	1029	1026	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

Prepared by: Afshin M. Andreas, NREL

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

April 2008

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	11.9	11.8	11.7	11.6	11.6	11.5	12.6	13.4	13.3	13.2	13.2	13.3	13.2	13.3	13.3	13.2	13	12.8	12.8	12.6	11.3	11.1	11	12.4	
2	11	11	10.9	10.9	10.9	10.9	10.9	11.1	12.2	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	12.3	11.9	11.7	11.6	11.5	11.5	11.4	12	
3	11.4	11.4	11.3	11.3	11.3	11.2	11.8	13.4	13.4	13	12.8	13.3	13.2	13	12.6	12.2	12	11.9	11.8	11.7	11.6	11.6	11.5	11.4	12.1	
4	11.4	11.4	11.3	11.3	11.3	11.2	11.3	12	12.7	13.1	12.8	13.3	13.3	13.2	13.2	13.2	13.2	12.9	12.5	12.2	12.1	11.9	11.8	11.8	12.3	
5	11.7	11.6	11.6	11.5	11.5	11.4	11.4	12.2	11.9	12	11.7	11.6	11.6	12.4	12	11.7	11.6	11.4	11.3	11.3	11.3	11.2	11.2	11.2	11.6	
6	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.2	11.9	12.2	12.4	12.7	12.3	12.4	12.1	12.4	12	11.6	11.4	11.3	11.2	11.2	11.1	11.1	11.6	
7	11	11	11	11	11	10.9	10.9	11.3	11.5	12	12.5	12.8	12.6	12.6	12.4	12.2	11.9	11.5	11.4	11.3	11.2	11.2	11.1	11	11.6	
8	11	11	10.9	10.9	10.9	10.9	11	11.8	12.8	12.9	13.4	13.5	13.5	13.3	13	12.7	12.4	11.8	11.6	11.5	11.4	11.3	11.3	11.2	11.9	
9	11.2	11.2	11.1	11.1	11.1	11.1	11.2	11.4	12.7	12.9	13.3	13.2	13.5	13.2	12.8	12.8	12.4	12	11.8	11.7	11.6	11.5	11.5	11.4	12	
10	11.4	11.3	11.3	11.2	11.2	11.1	11.2	12.6	13.4	13.3	13.2	13.1	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.6	12.4	12.2	12	11.9	12.4	
11	11.8	11.7	11.6	11.5	11.5	11.4	11.7	12.9	13.3	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.6	12.4	12.2	12.1	12	11.8	12.4
12	11.7	11.7	11.6	11.5	11.5	11.4	11.5	12.6	13.3	13.2	13.2	13.2	13.1	13.1	13.1	12.8	12.7	12.6	12.5	12.3	12.2	12	11.9	11.8	12.4	
13	11.7	11.6	11.5	11.5	11.4	11.4	11.5	12.5	13.3	13.4	13.3	13.3	13.3	13.3	13.3	13.4	13.4	13	12.8	12.8	12.7	12.7	12.6	12.5	12.6	
14	12.4	12.3	12.1	11.9	11.8	11.7	12.9	13.7	13.5	13.5	13.3	13.5	13.5	13.4	13.6	13.2	13.5	13	12.8	12.8	12.7	12.7	12.7	12.6	12.9	
15	12.6	12.5	12.4	12.3	12.1	12	13	13.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13	12.9	12.8	12.8	12.7	12.7	12.7	13	
16	12.6	12.6	12.5	12.4	12.3	12.1	13.2	13.7	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	13	12.9	12.8	12.8	12.7	12.7	12.7	13	
17	12.6	12.5	12.4	12.3	12.1	12	13.1	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13	12.9	12.8	12.8	12.7	12.7	12.6	12.9	
18	12.6	12.5	12.3	12.2	12	12	12.9	13.5	13.3	13.2	13.1	13.1	13.1	13.1	13	13.1	13.1	12.9	12.8	12.7	12.6	12.5	12.4	12.2	12.8	
19	12	11.9	11.8	11.8	11.7	11.6	12.2	13.4	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	12.9	12.8	12.7	12.6	12.5	12.3	12.2	12.6
20	12	11.9	11.8	11.7	11.6	11.6	12	12.9	12.8	12.5	12.9	12.8	13	13.3	13.2	13.3	13.4	13	12.7	12.6	12.4	12.2	12	11.9	12.5	
21	11.8	11.7	11.6	11.5	11.5	11.4	11.4	11.4	11.4	11.3	11.3	11.4	11.7	11.7	11.6	12.2	12.7	12.3	11.8	11.6	11.4	11.3	11.3	11.2	11.6	
22	11.2	11.2	11.2	11.1	11.1	11.1	11.9	11.8	13	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.8	12.7	12.6	12.5	12.4	12.5	
23	12.2	11.8	11.4	11.3	11.3	11.2	11.3	11.9	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.7	12.5	12.2	12.1	11.9	11.8	12.4	
24	11.7	11.6	11.6	11.5	11.4	11.4	11.9	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.2	13.1	12.9	12.7	12.6	12.4	12.2	12.1	11.9	12.5	
25	11.8	11.7	11.6	11.5	11.5	11.4	12.4	13.4	13.3	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.7	12.3	11.6	11.4	11.3	11.2	12.4
26	11.1	11.3	11.3	11.3	11.3	11.3	12.4	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.7	12.4	12.1	12	11.9	11.8	11.7	12.3	
27	11.6	11.5	11.5	11.4	11.4	11.3	12.1	12.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13	12.7	12.4	12.2	12	11.9	11.8	11.7	11.6	12.3	
28	11.5	11.5	11.4	11.4	11.3	11.3	11.5	12	12.7	12.6	13.2	12.9	13.3	13.3	13.2	13.2	13	12.6	12.3	12.1	12	11.9	11.8	11.7	12.2	
29	11.6	11.5	11.4	11.3	11.3	11.2	11.9	13.5	13.4	13.3	13.3	13.3	13.4	13.4	13.4	13.4	13.3	12.9	12.7	12.5	12.3	12.1	12	11.8	12.5	
30	11.7	11.7	11.6	11.4	11.4	11.4	12.5	13.5	13.5	13.4	13.3	13.3	13.4	13.4	13.4	13.4	13.3	12.9	12.6	12.3	12.1	12	11.8	11.7	12.5	
Avg	11.7	11.6	11.6	11.5	11.4	11.4	11.8	12.6	13	13	13.1	13.1	13.1	13.1	13	13	12.9	12.6	12.4	12.3	12.1	12	11.9	11.8	12.3	
S D	0.5	0.5	0.4	0.4	0.4	0.3	0.7	0.8	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	
S/A	0.04	0.04	0.04	0.03	0.03	0.03	0.06	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	
Min	11	11	10.9	10.9	10.9	10.9	10.9	11.1	11.4	11.3	11.3	11.4	11.6	11.7	11.6	11.7	11.6	11.4	11.3	11.3	11.2	11.2	11.1	11	11.6	
Max	12.6	12.6	12.5	12.4	12.3	12.1	13.2	13.7	13.5	13.5	13.5	13.5	13.5	13.5	13.6	13.5	13.5	13.5	13.1	12.9	12.8	12.8	12.7	12.7	13	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.