

April 2010

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	4	75	273	489	681	822	898	910	851	727	550	320	119	15	0	0	0	0	0	6734
2	0	0	0	0	0	7	81	271	480	670	813	892	906	844	721	540	330	120	13	0	0	0	0	0	6687
3	0	0	0	0	0	4	35	125	254	485	818	883	888	727	645	424	275	84	12	0	0	0	0	0	5659
4	0	0	0	0	0	6	84	287	439	474	769	834	844	793	680	479	293	85	25	0	0	0	0	0	6093
5	0	0	0	0	0	5	77	189	445	659	776	877	890	809	680	510	309	107	12	0	0	0	0	0	6343
6	0	0	0	0	0	9	74	252	456	636	774	856	866	804	676	507	307	106	8	0	0	0	0	0	6331
7	0	0	0	0	0	8	96	299	509	690	838	911	899	869	662	515	336	109	14	0	0	0	0	0	6755
8	0	0	0	0	0	10	81	263	464	686	713	750	626	687	708	513	321	106	7	0	0	0	0	0	5936
9	0	0	0	0	0	3	9 ?	?	172	105	135	96	365	497	408	514	356	132	22	0	0	0	0	0	2816 ?
10	0	0	0	0	0	15	118	326	536	725	871	947	958	896	766	580	364	141	18	0	0	0	0	0	7260
11	0	0	0	0	0	14	120	331	545	735	876	953	962	899	774	588	368	147	24	0	0	0	0	0	7336
12	0	0	0	0	0	17	104	295	485	707	838	907	912	857	731	548	335	128	21	0	0	0	0	0	6885
13	0	0	0	0	0	11	102	265	508	685	819	891	881	742	543	403	65 ?	15 ?	24	0	0	0	0	0	5955
14	0	0	0	0	0	2	30	143	345	507	707	805	808	610	523	566	371	152	22	0	0	0	0	0	5591
15	0	0	0	0	0	22	126	329	558	742	874	942	947	881	750	565	352	142	21	0	0	0	0	0	7250
16	0	0	0	0	0	13	116	320	527	696	835	907	911	852	749	547	354	136	21	0	0	0	0	0	6986
17	0	0	0	0	0	20	120	272	503	552	324	207	418	868	671	574	315	131	25	0	0	0	0	0	5002
18	0	0	0	0	0	19	136	350	565	751	885	946	969	913	808	581	391	163	31	0	0	0	0	0	7507
19	0	0	0	0	0	25	150	365	580	765	905	989	771	864	599	605	367	165	34	0	0	0	0	0	7184
20	0	0	0	0	0	35	119	280	371	617	656	833	958	844	730	586	353	169	28	0	0	0	0	0	6580
21	0	0	0	0	0	38	87	91	87	154	81 ?	115	224	110	210	138	65	35	18	0	0	0	0	0	1453
22	0	0	0	0	0	19	119	305	484	729	842	952	960	887	768	423	373	158	24	0	0	0	0	0	7044
23	0	0	0	0	0	24	83	290	395	661	793	584	527	536	550	450	318	133	24	0	0	0	0	0	5368
24	0	0	0	0	0	13	42	52	66 ?	101	105	167	824	754	280	51 ?	68	26	3	0	0	0	0	0	2553
25	0	0	0	0	0	12	58	222	289	326	521	839	344	466	426	403	312	153	29	0	0	0	0	0	4398
26	0	0	0	0	0	20	123	359	575	752	750	563	728	639	516	407	270	23 ?	11	0	0	0	0	0	5737
27	0	0	0	0	0	32	173	387	596	746	662	536	311	224	142	102	145	126	15	0	0	0	0	0	4197
28	0	0	0	0	0	34	179	398	617	806	942	1011	1016	942	822	580	367	144	35	0	0	0	0	0	7892
29	0	0	0	0	0	38	179	406	609	796	932	1009	1008	941	812	626	411	188	34	0	0	0	0	0	7990
30	0	0	0	0	0	32	178	394	601	785	915	988	990	923	794	614	404	184	32	0	0	0	0	0	7831
Avg	0	0	0	0	0	17	102	281	452	614	720	770	787	751	629	483	307	121	21	0	0	0	0	0	6045
S D	0	0	0	0	0	11	44	90	148	199	243	276	234	205	180	147	95	46	8	0	0	0	0	0	1605
S/A	0	0	0	0	0	0.65	0.43	0.32	0.33	0.32	0.34	0.36	0.3	0.27	0.29	0.3	0.31	0.38	0.41	0	0	0	0	0	0.27
Min	0	0	0	0	0	2	9	52	66	101	81	96	224	110	142	51	65	15	3	0	0	0	0	0	1453
Max	0	0	0	0	0	38	179	406	617	806	942	1011	1016	942	822	626	411	188	35	0	0	0	0	0	7990
n	0	0	0	0	0	178	355	347	354	360	351	360	360	360	360	354	355	344	212	0	0	0	0	0	4650

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.3% exceed the 15% QC threshold -- 4710 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.

April 2010

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	*
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
19	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
22	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
23	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
25	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
26	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	*
Avg	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	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	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	N/A	0	0	0	0	0	0	N/A
Max	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	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 -- 4710 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 $\mu\text{V}/\text{W}/\text{m}^2$ 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 2010

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	3	31	59	71	79	82	79	78	79	80	75	68	43	11	0	0	0	0	0	839
2	0	0	0	0	0	8 ?	34	64	86	98	104	105	103	102	97	88	74	46	11	0	0	0	0	0	1020
3	0	0	0	0	0	5 ?	35	125	254	392	146	142	200	281	281	248	193	79	12	0	0	0	0	0	2393
4	0	0	0	0	0	8 ?	60	118	204	268	189	198	182	183	174	165	122	65	24	0	0	0	0	0	1962
5	0	0	0	0	0	5	72	128	155	153	144	134	143	159	156	124	103	52	10	0	0	0	0	0	1536
6	0	0	0	0	0	9	53	106	137	155	163	165	164	158	148	124	98	52	8	0	0	0	0	0	1540
7	0	0	0	0	0	9 ?	38	68	89	103	112	119	163	133	176	188	94	67	13	0	0	0	0	0	1374
8	0	0	0	0	0	12 ?	50	100	176	242	276	270	275	224	170	132	97	51	7	0	0	0	0	0	2082
9	0	0	0	0	0	3	10 ?	23 ?	170	105	119	96	285	367	287	175	82	57	14	0	0	0	0	0	1794
10	0	0	0	0	0	12	44	69	86	95	102	106	101	94	86	74	59	37	9	0	0	0	0	0	974
11	0	0	0	0	0	11	39	61	75	85	89	92	90	86	80	73	61	41	14	0	0	0	0	0	896
12	0	0	0	0	0	15	65	116	113	105	115	123	126	138	155	124	105	64	18	0	0	0	0	0	1381
13	0	0	0	0	0	10	63	114	136	163	190	225	244	294	400	330	49	14	24	0	0	0	0	0	2256
14	0	0	0	0	0	2	30	138	287	308	360	301	301	308	215	106	70	42	13	0	0	0	0	0	2480
15	0	0	0	0	0	14	40	56	69	88	101	114	122	122	114	101	82	50	14	0	0	0	0	0	1088
16	0	0	0	0	0	11	57	98	123	160	161	166	189	198	124	134	111	65	16	0	0	0	0	0	1614
17	0	0	0	0	0	16	72	112	173	400	294	207	356	256	230	142	127	79	22	0	0	0	0	0	2488
18	0	0	0	0	0	14	61	98	116	118	119	139	151	119	152	156	127	56	19	0	0	0	0	0	1445
19	0	0	0	0	0	14	41	63	73	80	105	146	344	246	237	159	135	79	26	0	0	0	0	0	1748
20	0	0	0	0	0	38 ?	97	196	310	372	430	358	197	248	263	137	126	82	20	0	0	0	0	0	2875
21	0	0	0	0	0	39	80	91	87	151	61	115	224	110	210	138	65	35	18	0	0	0	0	0	1425
22	0	0	0	0	0	21	107	123	147	189	180	161	161	167	159	155	110	65	17	0	0	0	0	0	1762
23	0	0	0	0	0	22	71	141	227	274	396	542	484	443	358	239	132	81	24	0	0	0	0	0	3435
24	0	0	0	0	0	12	42	50	50	101	105	167	479	431	264	45	68	26	3	0	0	0	0	0	1844
25	0	0	0	0	0	12	56	133	223	318	400	313	341	410	318	243	165	83	23	0	0	0	0	0	3037
26	0	0	0	0	0	18	61	110	105	116	234	287	308	250	249	182	114	23 ?	9	0	0	0	0	0	2067
27	0	0	0	0	0	15	39	55	68	248	536	509	310	224	142	96	144	94	15	0	0	0	0	0	2497
28	0	0	0	0	0	17	47	62	70	76	83	86	92	114	128	96	97	64	17	0	0	0	0	0	1049
29	0	0	0	0	0	22	52	68	82	91	97	98	100	99	96	86	72	51	17	0	0	0	0	0	1032
30	0	0	0	0	0	20	53	72	83	92	101	105	105	102	97	86	73	52	17	0	0	0	0	0	1059
Avg	0	0	0	0	0	14	53	94	135	174	186	189	214	205	188	141	101	57	16	0	0	0	0	0	1766
S D	0	0	0	0	0	9	20	37	70	102	124	118	112	107	85	62	34	19	6	0	0	0	0	0	683
S/A	0	0	0	0	0	0.63	0.38	0.39	0.52	0.59	0.66	0.62	0.52	0.52	0.45	0.44	0.33	0.34	0.37	0	0	0	0	0	0.39
Min	0	0	0	0	0	2	10	23	50	76	61	79	78	79	80	45	49	14	3	0	0	0	0	0	839
Max	0	0	0	0	0	39	107	196	310	400	536	542	484	443	400	330	193	94	26	0	0	0	0	0	3435
n	0	0	0	0	0	158	355	353	360	360	360	360	360	360	360	360	359	349	212	0	0	0	0	0	4666

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.9% exceed the 15% QC threshold -- 4710 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.

April 2010

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	11.9	10.9	10.5	9.9	9.9	10.6	11.3	14.1	16.3	18.2	19.2	21.2	21.8	21.9	21.1	19.7	19.2	17.3	15	13.4	12.3	12	11.6	11.2	15
2	10.9	10.8	10.6	10.4	11	11.1	12.2	13.9	15.6	16.9	18.6	19.8	20.7	20.5	19.7	19.4	18.4	16.6	14.5	13.2	12.1	10.5	9.8	9.6	14.4
3	10	10.4	10	9.9	10.3	11.1	11.5	12	12.4	13.8	16.4	19.3	21.2	22.3	22	21.3	20.7	21	19.4	18.3	17.7	17.2	17	16.7	15.9
4	16.5	16.2	16.1	15.9	15.7	15.5	15.6	16.5	18.4	20	21.7	23.8	25.2	25.6	25.8	26.6	24	20.4	19	18	17.3	16.9	16.5	16.2	19.3
5	16.1	15.9	15.8	16.1	16.3	16.3	16.6	17.6	19.6	21.5	23.7	25.7	27.4	28.9	29.5	29.8	29.8	29.3	26.7	24.4	23	21.7	20.8	20.5	22.2
6	20.1	19.6	19.3	18.8	18.9	18.2	18.3	19.7	21.9	24	25.3	26.6	27.8	29.4	30.6	31.3	31.3	28.9	25.8	24.3	23.1	22.3	21.6	20.8	23.7
7	19.9	19.3	18.7	18.5	18.1	18.4	18.8	19.7	21.7	24.1	25.6	27.3	28.7	29.5	30.1	30.6	30.8	28.2	24.9	23.2	22.1	21.4	20.5	19.7	23.3
8	19	18.3	18	18.1	17.9	17.8	18.2	19.1	20.4	22	23.6	24.6	25.5	26.3	27.2	26.9	26.5	24.4	22.5	21.2	20.8	20.5	20.3	20.6	21.6
9	20.8	20.6	20.4	18.9	17	16.7	16.8	15.3	13.7	14.2	13.1	11.9	12	13.6	13.1	14.8	15.8	16.2	15.3	14.1	13.3	12.7	12.1	11.6	15.2
10	10.8	10	8.9	7.3	6.7	6.5	7.7	10.9	12.9	13.9	14.6	15.9	16.9	17.8	18.7	19.7	19.9	19.5	17.4	15	14.1	13.6	12.9	12.7	13.5
11	12.4	11.7	10.9	10.5	10.1	9.6	10.5	12.6	14.8	16.3	17.9	19	20.3	21	21.4	21.8	21.9	20.9	18.7	17.4	16.3	15.6	14.9	14.6	15.9
12	14.5	13.8	13.1	12.7	12.3	12.2	12.9	14.4	16.6	19	20.8	22.8	24.5	24.2	23.3	21.3	19.2	17.2	15.1	13.5	12.7	12.3	12.4	12.4	16.4
13	12.6	12.7	12.5	12.4	12.2	11.9	11.7	14.6	16.6	18.3	19.7	20.5	21.1	21.9	21.3	20.4	16.6	14.3	12.4	12.7	12.8	11.9	10.5	10.5	15.1
14	10.2	9.9	10	10	10.1	10.2	10.3	10.8	11.6	12.2	12.9	13.1	13.7	13.7	13.6	13.8	13.5	12.7	11.3	10.4	9.9	9	8.7	6.9	11.2
15	6.1	5.9	5.4	4.7	4	4.1	5.6	9.1	12.2	13.6	14.9	16.4	17.5	18.6	19.7	20.6	20.7	19.9	18.6	17.1	16.6	16	15.2	14.4	13.2
16	14.2	14	13.7	13.2	13	13.2	14.8	17	19.4	22	23.7	25.5	26.9	28.2	28.8	29.1	28.9	28.1	26	24.4	23.7	23.2	22.4	22.4	21.5
17	22	21.5	21.2	20.5	19.6	18.9	18.9	19.8	21.4	22.5	21.3	20.3	20.5	22.2	23.5	24.3	24.2	23.1	21.5	19.8	16.2	14.2	12.7	12.2	20.1
18	11.6	10.9	10.2	9.6	8.6	7.3	8.4	10.7	12	13	14.3	15.1	16.1	16.5	17.1	17.2	15.9	14.3	13	11.7	11.3	10.9	9.5	8.9	12.3
19	7.9	7.9	7.6	6.9	6	5.7	6.9	9.5	11.5	12.8	14	14.9	16	17	17.4	18.6	16.9	15.3	14.1	13.1	12.4	11.5	10.5	10	11.8
20	9.7	9.5	9.3	9.1	8	8.7	9.6	11.2	13	15.8	17.9	19.3	19.8	20.4	19.7	19.9	19.3	18.6	17	15.9	15.3	15.2	15	14.3	14.7
21	13.5	13.4	12.9	12.7	12.6	12.9	14	14.6	14.9	15.7	15.9	15.8	16.4	15.3	15.2	14.9	14.8	14.5	13.5	13	12.8	12.7	12.2	11	14
22	10.5	10	9.8	9.2	8.1	8.3	8.7	11	14	16	16.9	18.7	20.4	21.8	22.2	22	22.8	22.4	20.8	18.2	16.5	15.9	15.6	15.5	15.6
23	15.5	15.2	14.8	14.2	14.2	14.3	14.5	15.4	17.6	19.9	22.6	23.1	23.6	23.1	22.8	23.6	22.1	20.3	18.7	17.3	16.9	16.3	15.8	15.3	18.2
24	15.7	15.8	15.2	14.9	14.9	15.2	15.4	16	16.1	16.7	16.9	16.5	17.7	19	18.8	17	16.7	16.9	17	17.1	17.3	17.4	17.6	17.4	16.6
25	17.5	17.7	17.7	17.5	17.3	17.2	17.9	19	20.2	21.1	22.3	23.9	23.8	24.5	25.9	26.4	26.1	25.3	24	22.7	21.7	21.3	21.3	21.3	21.4
26	21.1	20.9	20.3	19.7	19.5	19.3	19.5	20.8	22.4	24	24.8	25.3	25.8	25.8	26.2	26	25.9	21.1	18.1	18.1	17.6	18	18	17.7	21.5
27	16.9	16.2	15.1	14.5	14.1	13.8	14.5	15.5	16.5	17.4	17.8	18.2	18	17.9	17.2	14.6	13.9	14.5	13.6	13.2	13.3	13.1	12.6	11.5	15.2
28	10.7	10.5	10.1	9.3	8.3	7.4	7.9	10.2	11.6	12.4	13.1	14.5	15.4	16.5	17.2	17.6	17.7	17.4	16.7	14.5	13	11.3	10.4	10.4	12.7
29	9.9	8.6	9.4	8.3	7.8	8	10.3	12.6	15.4	16.9	17.8	18.5	19.5	20.4	21.1	21.7	21.8	21.8	20.6	18.6	17.3	16.1	15.8	15.6	15.6
30	15.1	14.2	13.6	13.6	14.3	14.3	15.2	17	19.2	21.1	22.7	24	25.1	26.2	27	27.5	27.6	27.3	25.9	23.1	21.6	20.6	19.7	19.3	20.6
Avg	14.1	13.7	13.4	12.9	12.6	12.5	13.1	14.7	16.3	17.8	19	20.1	21	21.7	21.9	21.9	21.4	20.3	18.6	17.2	16.4	15.7	15.1	14.7	16.9
SD	4.2	4.2	4.2	4.3	4.4	4.3	4	3.4	3.5	3.8	4	4.3	4.5	4.6	4.8	5	5.1	4.8	4.5	4.1	3.9	4	4.1	4.2	3.7
S/A	0.3	0.31	0.31	0.33	0.35	0.35	0.3	0.23	0.21	0.21	0.21	0.21	0.21	0.22	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.27	0.29	0.22
Min	6.1	5.9	5.4	4.7	4	4.1	5.6	9.1	11.5	12.2	12.9	11.9	12	13.6	13.1	13.8	13.5	12.7	11.3	10.4	9.9	9	8.7	6.9	11.2
Max	22	21.5	21.2	20.5	19.6	19.3	19.5	20.8	22.4	24.1	25.6	27.3	28.7	29.5	30.6	31.3	31.3	29.3	26.7	24.4	23.7	23.2	22.4	22.4	23.7
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.

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

April 2010

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	99.8	103.4	104.8 ?	?	?	93.4	83.6	73.8	71.8	71.2	66.6	58.4	56.6	57.3	63.8	69.2	69.9	79.5	89	95.4	100.1	101.8	104.2 ?	?	81.6 ?	
2	?	?	?	?	?	?	103.5 ?	95.2	84.7	79.4	70.8	67.5	59.6	67	73.7	75.5	80.7	88.4	94.2	97.3	102.8 ?	?	?	?	82.7 ?	
3	?	?	?	?	?	?	?	?	?	?	100.2 ?	90.6	78.5	81.7	83.8	86	90.3	82.4	85	96.8	102.6	?	?	?	88.9 ?	
4	?	?	?	?	?	?	?	?	?	100.3	93.1	84.4	76.4	73.1	74.1	76.8	74	83.4	92.7	92.3	95.5	98.2	100.5	103.4	104.3 ?	88.9 ?
5	?	?	?	?	?	?	?	?	?	102.4 ?	93.5	86.5	80.9	75.3	68	58.4	55	54	52.4	53.6	69.5	85.7	87.6	88.3	90.3	76 ?
6	90.2	91.6	92.2	92.7	91.6	94.9	94.8	90.7	83.3	77.3	74	66.8	65.5	61.8	59	53.6	50.4	67	79.8	83.1	83.2	82.9	84.2	86.7	79.1	
7	90.4	92	93.6	92.1	93.3	90.6	88.9	86.2	79.9	72.5	68	62.5	57.3	54.9	50.2	47.9	47.4	64.8	82.9	85.2	87.3	88.5	88.5	89.1	77.2	
8	90.7	95.8	98.6	99.6	100.9	101.6	100.5	99.7	97.2	92.1	85.3	77.5	69.5	63.7	59.2	65.7	67.5	75.7	83.8	94	96.8	97.7	99.5	99.7	88	
9	99	98.9	99.9	?	?	?	?	104.8 ?	102.9	101.4	98.5	101	95.9	86.1	86.7	79.5	74.9	66.6	66.1	69.3	72	73.2	79.5	83.9	87 ?	
10	84.4	86.5	91.4	102	104.5 ?	105 ?	102	79.6	64.1	56.7	51.6	49.3	46.9	43.1	41.7	39.8	38.7	41.2	55.6	81.9	92.9	89.1	91.3	94.2	72.2	
11	97.6	97.7	97.6	98.4	100.6	102.7	99	92.9	82.2	73	64	57.9	53.1	50.2	46.9	47.2	46.2	55.2	73.2	77.6	83.7	91.2	99	102.2	78.7	
12	102.9	104.4 ?	?	?	?	?	?	104.2 ?	92.3	77	66	59.7	49.2	53.2	63.8	65.6	74.8	83	93.4	101.1	103.9	105 ?	?	?	82.3 ?	
13	?	?	?	?	?	?	?	103.1 ?	95.1	85.5	68.5	60.6	56.4	55.5	65.8	71.2	87.8	86.2	93.3	95	92.4	96.8	104 ?	?	82.3 ?	
14	?	?	?	104.8 ?	104.3	103.4	101.1	98.7	93.3	87.1	82.7	81.8	78	78.4	73.2	64.1	61	65.1	71.7	79.8	87.4	92.7	95.1	102.6	86 ?	
15	104.3 ?	104.6 ?	?	?	?	?	101.8 ?	88.1	63.3	65.2	61.1	60.6	57.8	55.5	53.1	52.6	56.8	64.1	70.7	76.5	80.9	89	98.2	100.9	75.3 ?	
16	98.8	94.8	95	96.9	96.9	96.5	90.7	84.9	79	71.1	68.6	62.7	59	53.2	46.9	47.4	46.2	47	57.6	61	61.9	66.7	71.1	72	71.9	
17	72.7	73	72.8	75	78.5	81.4	83.7	82	77.1	71.5	74.9	80.6	77.9	68.9	62.7	52.7	44.5	46.2	45.9	50.6	78.6	85.7	90	79.5	71.1	
18	75.6	73.9	73.6	75.2	81.3	89.4	86.9	71.7	60.8	57.8	53	48.2	45.7	43.2	43.5	43.7	57.8	71	78.3	84.8	87.8	90.6	97.7	100.1	70.5	
19	104.2 ?	102.7 ?	101.1	101.2	103.3	104.4	98.6	88.7	77.4	69.1	64.1	59.6	56	52.8	51	47.8	63.2	69.4	75.2	79.2	78.6	84.8	89.6	92.6	79.8	
20	91.1	93.4	99.9	101.7	104.1 ?	101.5	100.4	101.5	93.5	76.8	57.1	45.7	44.2	44.5	49	47.8	47.1	54.7	67.7	72.1	76	77.4	80.6	86.1	75.6	
21	92	94.6	95.5	96.9	99.7	99.7	96	90.9	87.3	81.1	83	88.5	92.7	99.9	103.1	103.9	103.4	?	104.3	103.6	?	?	?	?	95.6 ?	
22	?	?	?	?	?	?	?	?	103.1 ?	99.1	94.9	79.3	59.4	43.8	41.6	45.4	41.2	39.6	46.1	59.6	69.7	76.1	83.6	85	66.7 ?	
23	83.5	83.3	81.2	82.8	80.4	78.6	80.8	79.3	71.1	62.3	51	48.8	46.7	56.4	53.5	53.3	56.3	64.5	73	84.8	88.5	91.4	92.3	94.1	72.4	
24	89.3	91.1	95	98	100.9	101.2	100.9	100.5	101.3	97.6	93.6	91.3	77.7	68	69.4	80.2	84.8	89.1	96	98.5	101.6	103.6	104.6 ?	?	92.8	
25	?	?	?	?	?	?	?	102.6 ?	99.2	99.4	98.9	96	89.4	90.2	88.5	82	79.9	80.7	84.2	90.3	94.8	97.1	99.9	101.4	101.5	93.1 ?
26	101.6	102.2	104.5	?	?	?	?	101.8	90	79.5	71.8	68.2	62.4	62	58.9	60.4	56.3	78.4	89.8	93.9	99.7	94.7	89.3	84.5	82.5 ?	
27	87.7	90.4	93	92.1	90.6	91.1	87.3	83.7	80.4	76.7	76.3	75.3	76.8	77.2	78.9	92.5 ?	103.8 ?	93.3	96.9	102.1	98.8	100.8	101	101.7	89.5	
28	?	104.7 ?	98.8	94.2	97.2	100.2	99.4	89.6	65.7	52.5	50.2	48.9	47.3	44.2	43.2	40.2	41.4	45.2	57.7	67.7	79.3	86.6	91.4	69		
29	94.3	100.2	100.2	103.9	?	?	101.2 ?	92.2	69.5	50.2	45.9	42.6	42.1	39.1	38.1	38.3	38.6	40.1	45.9	53.3	59.4	67.3	80.8	88.9	65.1	
30	88.8	90.9	93.3	91.9	87	87.6	85.2	80	72	62.5	56.7	54.8	51.9	50	49.5	49	48.2	49.5	55.1	73.8	80.7	81.2	88	92.9	71.7	
Avg	92.3	94.1	94.1	94.4	95	95.7	95	91.3	83.8	76.7	72	67.7	63.2	61.1	60.8	60.9	63.2	66.7	75.6	82.8	86.8	88.7	92.1	92.3	79.8 ?	
S D	8.7	9	8.9	8.8	8.8	7.9	7.5	9.7	13	14.2	15.4	15.6	14.9	15.3	15.9	17	19.3	17.2	17.4	15.2	12.7	10.7	8.9	8.5	8.3	
S/A	0.09	0.1	0.09	0.09	0.09	0.08	0.08	0.11	0.15	0.18	0.21	0.23	0.24	0.25	0.26	0.28	0.3	0.26	0.23	0.18	0.15	0.12	0.1	0.09	0.1	
Min	72.7	73	72.8	75	78.5	78.6	80.8	71.7	60.8	50.2	45.9	42.6	42.1	39.1	38.1	38.3	38.6	39.6	45.2	50.6	59.4	66.7	71.1	72	65.1	
Max	104.3	104.7	104.8	104.8	104.5	105	103.5	104.8	103.1	101.4	100.2	101	95.9	99.9	103.1	103.9	103.8	93.3	104.3	103.6	103.9	105	104.6	104.3	95.6	
n	239	243	230	208	185	205	238	290	343	348	355	360	360	360	360	356	355	348	360	360	344	315	292	270	7328	

Data Recovery: 0.0% missing; 0.0% untested; 15.2% 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 2010

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	10.4	9.4	8.4	7.8	7.7	7.7	7.8	11.5	16.8	21.1	23.9	26.6	28.6	28.1	27.3	26.1	24.9	23.5	20	15.8	13.2	11.9	11.1	10.4	16.7
2	9.9	9.6	9.4	9.3	9.4	9.4	10	12.8	16.5	19.7	22.2	24.1	25.3	25.4	24.9	24.7	24.2	22.6	19.3	15.5	13.3	11.7	10.4	9.6	16.2
3	9.6	10.2	10.6	10.5	10.5	10.8	11.4	12.1	13.1	15	19.4	23.5	25.6	26.6	27.1	26.9	25.7	24.3	21.9	19.7	18.3	17.4	16.8	16.4	17.6
4	16.1	16	15.8	15.7	15.5	15.3	15.4	16.9	19.8	22.5	25.2	29.3	31.8	32.3	31.8	32.2	32	28	23.2	20.2	18.5	17.4	16.8	16.3	21.8
5	15.9	15.7	15.6	15.5	15.7	15.7	15.8	16.7	19.8	24	27.8	30.6	32.2	32.7	33.2	33.7	33.9	33.2	30.8	27	24.6	23	21.7	20.8	24
6	20.3	19.8	19.4	18.9	18.5	18.2	17.9	19.8	23.4	27	29.8	31.7	32.4	32.8	34	35	35.1	34.2	30.6	26.6	24.3	23	22	21.2	25.7
7	20.4	19.5	18.8	18.2	17.8	17.4	17.9	20.2	23.3	26.2	28.8	30.6	31.7	32.4	33.2	33.6	34.3	33.6	29.5	25.8	23.6	22.2	21.2	20.3	25
8	19.5	18.6	17.9	17.5	17.3	17.2	17.4	19.1	21.6	24.4	26.9	28.3	28.5	28.8	29.7	30.4	30.6	29.5	26.1	23.2	21.8	21.1	20.5	20.4	23.2
9	20.7	20.9	20.6	20.1	19	17.8	17.2	16.9	15.6	15.4	15.1	14.5	13.7	14.6	15.9	17.4	18.8	19.3	18.1	15.2	13.2	11.7	10.9	10.6	16.4
10	10	8.8	7.2	5.9	5.1	4.8	5.3	9.6	14.7	18.6	20.7	21.5	22.2	22.2	22.8	24.1	25.3	25	22.3	17.2	13.7	12	11.3	10.8	15
11	10.5	10.5	9.9	9.1	8.4	7.9	8.6	12.5	16.7	19.5	21.8	23.6	24.6	25.1	25.5	26.3	26.9	26.4	23.7	19.4	16.9	15.2	14.2	13.4	17.4
12	13.1	12.9	12.4	11.9	11.6	11.4	12	14.4	17.6	21.8	25.6	28.5	30.6	30.6	29.8	28.7	26.5	23.6	19.9	16.1	13.8	12.5	11.7	11.4	18.7
13	11.3	11.3	11.3	11.3	11	10.7	11	13.4	17.6	21.5	24.6	26	26.6	26.7	27	26.2	23	17.4	14.1	12.6	12.8	12.9	12	11	16.8
14	10.6	10.3	10.2	10.1	10.1	10.1	10.1	10.6	12.2	14.2	16	17.5	18.4	18.6	18.1	18.3	18.7	18.2	15.8	11.8	9.3	7.9	6.6	5.7	12.9
15	4.4	3.7	3.3	2.8	2.3	2.3	3.7	8.2	13.7	18.2	20.9	22.6	23.6	23.3	23.8	25	25.9	25.3	23	19.2	16.9	15.8	14.9	14	14.9
16	13.2	12.9	12.8	12.5	12.2	12.1	12.9	16.2	19.9	23.4	26.1	28.2	29.8	31	32	32.6	32.8	32	29.7	26.3	24.1	23.1	22.4	22	22.5
17	21.9	21.5	21.1	20.6	19.8	18.9	18.9	20.4	23	25.9	26.4	24.7	23.6	24.5	26	27.4	27.7	27.3	24.6	21.4	18.8	16.3	14.3	12.8	22
18	11.8	11	10.1	9.1	8	6.4	6.4	10.6	14.4	17.1	19.5	21.3	21.6	21.5	21.7	22.6	22.8	20.9	17.8	14	11.6	10.3	8.8	7.2	14.4
19	6.5	6.2	6.1	5.6	4.9	4.4	5.4	9.9	14.4	17.5	19.5	20.9	21.6	21.7	22.5	23.4	24.4	22.1	18.8	14.9	12.3	10.5	9	7.8	13.8
20	6.9	7	7.5	7.7	7.2	6.8	8	10.6	13.6	17.1	21.5	24.8	26.4	26.5	26.4	25.8	25.3	23.6	21.2	17.7	15.6	14.8	14.6	14	16.3
21	12.9	12.1	11.6	11.3	11.2	11.4	12.6	14.2	15.1	16	16.8	16.7	17.1	17.6	16.6	16.4	16.1	15.5	14.6	13.5	12.9	12.6	12.2	11.1	14.1
22	10.3	9.8	9.5	9.2	8.8	8.5	8.8	11.2	15.7	19.5	22.2	23.7	24.8	25.4	26.1	26.7	26.5	26.8	24.7	20.4	16.8	14.7	14	14	17.4
23	14.2	14.1	13.8	13.5	13.2	13.4	14.2	15.4	19.1	22.3	27.2	30.2	30.3	30.1	28.4	29	28.3	26.2	22.7	19.8	18.1	17.2	16.5	15.6	20.5
24	14.9	14.8	14.6	14.3	14.2	14.5	15	15.7	16	16.2	17.1	17.7	19.1	21.6	22.7	20.5	18.2	17.8	17.2	17.1	17.3	17.5	17.6	17.7	17.1
25	17.6	17.7	17.9	17.8	17.5	17.3	17.3	17.9	20.4	21.8	23.3	25.5	27	27	28	28.8	29.2	28.9	27.3	24.9	23	21.9	21.4	21.4	22.5
26	21.1	20.8	20.4	19.8	19.3	19	19.3	21.5	24.5	26.9	28.8	29.4	29.2	29.1	29.3	29.3	29.4	27.2	21.7	19.5	18.4	17.8	17.9	17.6	23.2
27	17.2	16.4	15.5	14.6	13.8	13.4	14.5	17.2	19.5	21.7	23	23.7	23.3	21.9	20.5	18.8	15.9	15.3	15.1	13.8	13	12.4	11.9	12.1	16.9
28	11.4	10.6	9.8	8.7	7.6	6.5	7.6	11.7	15	17	17.9	18.8	19.3	19.3	20.1	21	21.6	21.1	19.4	16.2	12.8	10.4	8.6	7.4	14.2
29	6.7	6.1	6.3	6.3	5.8	5.5	7.7	12.9	17.6	21.4	23.2	23.4	23.2	23.3	24	24.7	25.4	25.4	24.1	20.4	17.2	15.5	14.4	14.4	16.5
30	14.3	13.6	12.8	12.2	12.5	13	14.6	18	21.5	24.5	26.2	27.5	28.3	28.7	29.9	31.1	31.9	31.6	29.9	26.3	23	21.3	20.2	19.3	22.2
Avg	13.4	13.1	12.7	12.3	11.9	11.6	12.2	14.6	17.7	20.6	22.9	24.5	25.3	25.6	25.9	26.2	26	24.8	22.2	19.1	17	15.7	14.9	14.2	18.5
S D	4.8	4.8	4.8	4.8	4.8	4.8	4.5	3.7	3.4	3.7	4.1	4.5	4.8	4.8	4.9	5	5.2	5.3	4.9	4.5	4.4	4.4	4.6	4.7	3.8
S/A	0.36	0.37	0.38	0.39	0.41	0.42	0.37	0.25	0.19	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.2	0.21	0.22	0.24	0.26	0.28	0.31	0.33	0.2
Min	4.4	3.7	3.3	2.8	2.3	2.3	3.7	8.2	12.2	14.2	15.1	14.5	13.7	14.6	15.9	16.4	15.9	15.3	14.1	11.8	9.3	7.9	6.6	5.7	12.9
Max	21.9	21.5	21.1	20.6	19.8	19	19.3	21.5	24.5	27	29.8	31.7	32.4	32.8	34	35	35.1	34.2	30.8	27	24.6	23.1	22.4	22	25.7
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.

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 2010

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	0.3	0	0.1	0.2	0.5	0.8	0.5	1.8	2.3	2.6	2.2	1.2	2	2.4	3.8	4	3.1	3.3	1.9	1.8	2.2	1.8	1.5	0.9	1.7
2	1	0.7	1.1	0.9	0.5	1.2	1.4	2.6	3.4	3.4	3.8	3.6	3.4	4	3.9	3.7	3.9	3.5	2.5	2.7	2.1	2.1	2.2	2.4	2.5
3	2.3	1.6	1.6	1	1	1.1	1	1.2	1.8	1.6	2	2.3	3	2.3	3.4	3.7	2.4	3.2	3.1	2.7	2.6	2.4	2.2	2	2.2
4	1.5	1.4	2.1	1.3	0.7	0.8	1	1.1	2.4	2.4	1.4	1	1.1	2.1	2.4	2.2	3.6	3.8	3	2.8	1.9	2.2	1.9	1.1	1.9
5	1.2	1	0.8	1.2	1.3	1	0.9	1.3	2.2	2.1	2.1	2.2	3.1	3.7	3.9	3.9	3.7	1.8	2.1	2.7	3.4	3.2	3.6	3.6	2.3
6	3.4	3	2.5	1.8	1.9	1.4	1.4	2	2.6	2.6	2.8	3.8	3.8	3.5	3.7	4.5	4	3.2	2.7	3.5	4.4	4.7	4.7	4.8	3.2
7	4.4	3.8	3.5	3.3	3.1	2.9	3.4	3.2	3.7	3.7	4.3	4.6	4.6	4.7	4.7	4.1	3.9	4.4	3.9	4.6	4	4.7	4.9	4.5	4
8	4.1	3.6	3.1	3.3	3.6	3.7	3.5	4.8	4	4.6	4.8	5.9	5.7	6.2	6.2	6.3	5.5	5.3	5.5	5.5	5.6	5.2	5.2	5.2	4.8
9	5.3	4.8	3.4	2.1	1.8	1	0.9	3.6	4.1	3.3	3.9	3.8	2.5	2.9	3.2	3.4	3.2	2.9	1.9	1.7	1	1.5	2.1	2.1	2.8
10	1.3	0.4	0.2	0.3	0.8	0.6	0.3	1.3	1.6	1.9	2.6	2.4	2.5	2.3	2.2	1.5	1.2	1.1	0.7	0.6	0.5	1	1.1	1.1	1.2
11	2.2	1.5	1.1	0.9	0.6	0.8	1.6	2	2.9	3.4	2.8	2.9	2.5	2.7	2.8	2.4	2.6	2.3	2.1	2	1.9	1.7	1.4	1.3	2
12	1.9	1	0.8	0.7	0.5	0.4	0.6	1.2	2	1.8	1.3	1	1.4	2.6	3.6	4	4.1	3.4	3.2	2.7	2.8	2.2	2	1.6	2
13	1.7	0.8	1.1	0.8	0.1	0.2	0.1	0.3	1.5	1.8	2.8	3.5	2.9	2.2	3.6	4.3	4.6	4.6	4.1	3.5	4.4	4.6	4.1	3.8	2.6
14	3.4	2.9	3	2.7	2.5	2.2	2.3	2.7	3.7	4.2	4.3	4.5	3.9	3.8	3.8	3.6	3.3	2.5	2	1	1	0.5	0.7	0	2.7
15	0.2	0.5	0.2	0	0.3	0.8	0.3	1.1	1.1	1.7	1.5	1.6	2.2	2.3	2.2	1.9	2.2	1.9	1.5	1.7	1.8	1.5	1.3	0.4	1.3
16	0.9	1.3	1.3	1	1.5	1.1	2.8	3.8	4.1	4.9	4.5	4.3	3.5	3.9	4.7	4	4.3	3.3	2.1	2.1	2.7	3.2	4	4.4	3.1
17	4.2	4.8	4.3	3	2.4	2.6	2.6	3.1	3.5	4	2.9	2.1	2.7	4.5	3.8	4.7	4	3.3	2.4	2.8	5.1	4.7	4.4	4.5	3.6
18	4.2	3.6	2.1	1.8	0.7	0.3	0.7	2.3	2.9	2.4	2.1	2.3	2.6	3	2.9	2.6	2.2	2.9	2.1	2.7	1.6	0.8	0	0.1	2
19	0.3	1.2	0.7	0.6	0.9	0.7	0.9	1.5	2.2	2.4	2.6	2.7	2.5	1.9	2	1.3	2.6	3.2	2	0.9	0.7	0.4	0.2	0	1.4
20	0.3	1.5	1.3	1	0.5	1.4	2	2.3	1.9	1.2	1	1.1	1.6	1.5	3.2	2.9	3.9	3.5	2.8	2	1.7	2.4	1.8	1.3	1.8
21	1.2	1.2	0.7	0.7	0.9	0.9	1.1	0.6	0.4	1.5	2	1.7	0.7	0.9	1.3	1.6	1.4	1.1	1.5	0.6	0.4	0.4	0.1	0	0.9
22	0.2	0.3	0.6	0.4	0.9	0.2	0	1	2	2.2	2.5	2.5	2.4	3.5	3.4	3	2.1	1.7	0.7	0.5	0.4	0.9	2	2.5	1.5
23	2.3	1.8	2	2.4	2.8	2.6	2.1	2	1.6	0.7	0.7	1.1	1	2.6	2.1	2.1	3.3	3.4	2.8	2.3	1.9	2.3	2.2	1.8	2.1
24	1.5	1.5	1.4	1.6	1	1.9	2.4	1.9	1.7	2.3	3	3	4.6	4.6	4.2	3.5	3.2	3.2	3.8	3.8	3.7	2.4	1.6	1.1	2.6
25	1.9	2.1	2.5	1.6	1.6	2.7	4	4.7	6.2	7.6	6.2	5.9	5.2	4.2	4.8	5.4	6	6	5.7	4.7	4.8	4.4	4.8	4.3	4.5
26	3.7	3.4	2.8	3.4	2.7	2	1.9	3.5	4.6	3.7	4.6	5.1	5.1	4.8	4.3	4.4	5.2	4	2.1	2.2	1.3	2.5	3.2	3.7	3.5
27	3.2	3.3	3	2.5	2.5	3	3.5	4.3	4.1	3.5	3.3	3.4	3.3	2.9	3.5	3.3	2.1	0.9	0	0	0.1	0.8	2	3.6	2.6
28	1.8	0.9	2.3	1.7	0.5	0.3	1.1	2.1	3.1	3.9	3.9	3.7	4.3	4.5	4.7	4.4	3.3	2.7	1	0.4	0.3	0.1	0.1	0	2.1
29	0	0.7	0.6	0.3	0.1	0.1	0.2	1.4	1.4	2.5	3.7	4.1	3.8	4.2	5	4.4	4.1	3.1	1.4	0.7	0.9	0.8	2.6	2.8	2
30	1.7	1	0.9	2	2.6	2.6	1.9	2.4	2.4	4	4.2	3.9	4.2	3.9	3.9	3.5	3.6	2.6	1.9	1.9	2.9	4	4	3.4	2.9
Avg	2.1	1.9	1.7	1.5	1.4	1.4	1.5	2.2	2.7	2.9	3	3.1	3.1	3.3	3.6	3.5	3.4	3.1	2.4	2.2	2.3	2.3	2.4	2.3	2.5
SD	1.5	1.4	1.1	1	1	1	1.1	1.2	1.2	1.4	1.3	1.4	1.3	1.2	1	1.2	1.1	1.1	1.3	1.4	1.6	1.5	1.6	1.7	0.9
S/A	0.72	0.73	0.67	0.67	0.72	0.72	0.72	0.52	0.46	0.47	0.43	0.46	0.42	0.36	0.29	0.34	0.33	0.37	0.52	0.6	0.68	0.66	0.65	0.73	0.38
Min	0	0	0.1	0	0.1	0.1	0	0.3	0.4	0.7	0.7	1	0.7	0.9	1.3	1.3	1.2	0.9	0	0	0.1	0.1	0	0	0.9
Max	5.3	4.8	4.3	3.4	3.6	3.7	4	4.8	6.2	7.6	6.2	5.9	5.7	6.2	6.2	6.3	6	6	5.7	5.5	5.6	5.2	5.2	5.2	4.8
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 2010

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	185	163	235	255	260	281	335	8	48	65	100	48	55	89	95	98	101	103	98	102	106	128	132	151	90
2	175	185	113	109	129	110	99	103	103	101	98	87	85	95	92	93	97	84	94	96	93	95	89	98	97
3	109	125	116	127	115	108	122	111	122	129	98	148	161	117	110	102	101	142	137	141	151	168	179	190	131
4	177	177	192	179	173	185	199	200	222	255	276	252	202	96	88	76	46	46	37	45	54	70	82	87	95
5	123	143	152	177	181	192	191	192	209	205	171	172	170	212	210	202	203	207	178	175	184	184	190	192	189
6	191	196	198	212	236	205	210	216	201	195	183	178	187	183	185	201	211	181	175	186	189	193	193	192	194
7	194	193	196	197	202	201	203	207	223	223	231	239	215	213	211	203	200	187	180	183	190	190	191	192	203
8	191	195	205	205	199	201	200	191	197	190	190	199	208	202	185	183	174	174	173	180	185	183	182	184	190
9	188	189	187	186	258	251	247	336	353	354	338	313	303	312	283	267	256	253	250	238	240	238	326	14	276
10	26	47	35	256	257	265	278	307	307	305	285	293	259	297	264	291	280	244	138	70	71	137	169	175	281
11	196	203	213	212	229	244	238	227	222	222	222	237	200	168	166	181	181	133	126	151	165	173	171	176	193
12	195	207	210	222	206	205	216	219	258	286	242	219	36	92	70	47	61	55	45	56	68	69	69	76	68
13	80	94	71	74	72	21	307	48	90	90	90	76	96	125	75	85	72	59	66	61	55	48	45	48	70
14	43	45	42	43	41	34	34	38	37	41	38	35	34	41	56	53	53	48	45	13	352	44	30	307	41
15	306	306	284	264	286	290	300	289	295	273	266	241	232	244	224	230	187	173	187	199	193	192	198	197	227
16	201	199	205	210	223	222	233	236	248	252	251	252	247	245	238	223	227	222	207	202	202	200	206	219	229
17	220	230	231	258	251	246	253	265	275	293	294	294	238	243	254	255	283	300	303	322	357	25	37	26	279
18	19	10	17	355	339	303	317	347	2	360	357	295	297	296	308	296	135	120	103	73	82	96	296	278	1
19	275	307	272	273	265	263	280	310	322	319	296	286	308	329	319	319	98	126	125	116	120	142	163	159	307
20	229	236	250	252	259	258	265	262	267	287	268	266	108	175	136	158	129	123	125	130	144	162	150	155	173
21	157	161	164	155	149	146	201	221	101	84	100	129	270	287	4	30	48	83	65	16	30	16	359	276	100
22	295	305	311	265	271	285	245	266	261	279	286	295	289	297	298	315	299	297	237	200	195	198	194	198	278
23	197	190	199	228	236	260	270	268	273	310	97	214	245	113	138	100	100	99	99	96	90	76	79	87	144
24	94	84	77	76	80	71	85	98	103	101	78	72	76	83	93	95	99	104	114	122	126	133	153	177	98
25	188	191	197	186	183	189	186	193	194	191	207	206	197	202	216	201	197	192	190	190	192	196	195	198	196
26	206	207	200	192	219	230	208	223	238	229	229	232	235	227	232	219	235	267	260	279	272	263	257	263	233
27	259	261	261	253	247	242	257	265	282	295	289	272	264	265	266	279	280	324	335	31	17	23	328	339	275
28	43	23	357	344	320	285	275	298	305	307	293	293	270	281	279	289	283	292	326	11	63	197	189	266	298
29	250	215	257	288	352	350	265	232	228	271	271	253	255	252	257	253	253	258	247	212	204	188	194	197	246
30	211	202	210	222	225	227	225	215	224	236	240	235	227	210	206	201	213	216	199	169	190	191	196	199	213
Avg	184	199	203	210	223	222	224	240	247	251	245	241	226	216	206	200	176	153	141	145	152	161	174	184	203
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 2010

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	0.8	0.1	0.2	0.3	1.1	1.5	0.9	3.2	3.7	4.1	3.4	2.8	3.7	4.2	5.9	6.2	4.9	5.3	3.1	2.8	3.4	2.9	2.4	1.7	2.9
2	1.9	1.5	1.6	1.5	1.2	1.8	2.3	4.2	5.5	5.1	5.8	5.8	5.2	6	6	5.5	6.2	5.5	3.9	4.3	3.3	3.5	3.7	3.7	4
3	4	2.8	2.7	2	2.3	2.4	2.1	2.4	3.2	3.1	3.5	4.1	4.8	4.3	5.5	5.6	3.8	5.1	5.1	4.6	4.5	4.2	3.8	3.6	3.7
4	2.8	2.6	3.3	2.8	2.1	2.1	2	2.5	4.1	4.2	3.3	2.3	2.5	3.9	4.2	3.6	5.6	6.1	5.1	4.5	3.2	3.5	3.1	2.2	3.4
5	2	1.7	1.5	2.4	2.6	2	1.9	2.5	3.9	3.7	3.7	3.9	5.5	6.4	6.7	7.1	6.6	3.5	3.6	4.9	5.7	5.1	5.8	5.5	4.1
6	5.2	4.8	3.8	3.3	3.1	2.3	2.5	3.7	4.6	4.7	4.7	6.4	6.3	5.8	6.8	8.1	7.4	5.5	4.8	5.9	6.9	7.3	7.4	7.4	5.4
7	6.8	6.1	5.5	5.1	5.2	5.3	6.2	5.8	6.3	6.8	7.4	8.6	8.5	8.1	8.2	7.3	6.9	8.2	6.6	7.7	6.6	7.7	8.1	7.4	6.9
8	6.7	6	5.8	6.3	6.3	6.9	6.8	7.6	7.3	7.6	8.4	10.2	10	10.7	10.6	10.7	9.4	9.3	9.2	9.2	9.3	8.9	9.1	8.7	8.4
9	8.7	8.1	5.7	4.3	3.8	2.3	2.3	6.6	7.4	6.6	7.3	7.6	5.6	5.7	6.3	6.4	6.1	5.1	3.5	2.9	1.7	2	3.6	3.7	5.1
10	2.4	1	0.5	0.6	1.2	1	0.9	2.9	3.3	4.1	5.2	4.9	4.9	4.8	4.6	3.2	3	2.6	1.4	1.3	1.3	1.8	2.1	2.3	2.6
11	3.2	2.5	2	1.6	1.1	1.4	2.6	3.5	4.9	5.8	5.5	5.2	4.6	5	4.9	4.5	4.5	3.6	3.3	3.3	3.2	3.1	2.7	2.5	3.5
12	3.2	1.8	1.5	1.4	1.3	1.1	1.4	2.5	3.4	3.5	2.8	2.5	3	4.6	5.9	6.7	6.8	5.6	5.3	4.8	4.5	3.5	3.4	2.8	3.5
13	3	1.7	1.6	1.5	0.2	0.5	0.3	1	2.9	3.4	4.7	5.5	4.9	3.9	5.9	6.9	7.7	7.6	6.9	6.2	7.9	8	7.3	7	4.4
14	6.4	5.3	5.2	4.8	4.7	4.4	4.7	5.2	6.7	7.2	7.3	7.5	7.1	6.5	6.2	6.2	5.7	4.6	3.4	1.9	1.8	1	1.1	0.1	4.8
15	0.5	0.7	0.4	0.1	0.8	1.7	1.3	2.6	2.5	3.4	3.1	3.3	4.4	4.5	4	4	3.7	3.4	2.7	2.5	2.7	2.5	2.3	1.1	2.4
16	1.8	2.2	2.3	1.9	2.7	2.4	4.6	6.1	7.1	8.3	7.2	7.1	6.3	6.6	7.8	7.7	7.9	5.6	4	3.6	4.8	5.5	7.5	7.8	5.4
17	8.2	8.2	7.2	5.3	4.6	4.4	4.6	5.8	6.9	8	5.6	4.2	4.9	7.4	6.9	8.2	8.1	6.4	5.2	4.9	9.1	8.5	8	8.6	6.6
18	7.6	6.5	4.3	3.2	1.6	1	1.6	4.2	5.1	4.6	4.4	5.3	5.6	6.2	5.8	5	4.1	4.6	3.5	4.4	2.7	1.5	0	0.3	3.9
19	0.9	2.4	1.5	1.4	1.5	1.4	2	3.4	4.2	4.5	5.5	5.6	5.1	4	4.1	3.4	4.2	5	3.2	1.6	1.3	0.9	0.7	0.1	2.8
20	0.6	2.1	1.9	1.6	1.1	2.1	3.1	3.9	3.3	2.6	2.3	2.8	3	3.3	5.3	4.9	6.1	5.3	4.5	3.3	2.7	4.2	3	2.4	3.1
21	2.2	2.2	1.5	1.3	1.5	1.7	2.1	1.4	1	2.4	3.1	2.9	1.6	1.8	2.3	2.8	2.4	2.4	2.8	1.5	1.2	1.1	0.2	0.1	1.8
22	0.8	1	1.4	1.2	1.8	0.7	0.2	2	3.8	4.2	4.8	5.3	4.7	7.1	6.7	5.5	4.6	3.5	1.4	0.9	0.9	1.6	2.8	3.4	2.9
23	3.3	2.8	2.9	3.9	4.5	4.3	3.6	3.8	3	1.8	1.8	2.5	2.1	4.7	3.6	3.8	5.3	5.3	4.6	3.8	3.3	4	3.8	3.1	3.6
24	2.7	2.5	2.2	2.7	1.8	3.2	4.2	3.5	3.1	3.9	5	4.9	7.6	7.7	7.1	5.6	5.4	5.3	6.9	6.3	6.2	4.3	3.1	2.5	4.5
25	3.7	4.1	4.5	3.3	3.5	4.7	7.3	7.5	10.1	12.7	11.2	10.3	8.8	7.6	9.4	9.4	10.4	9.8	9.3	7.6	7.4	7.4	7.9	7.3	7.7
26	7	6.4	4.9	5.5	4.7	3.7	4	6.4	8.1	7.2	8.3	9.1	9	8.6	7.7	7.7	9.1	8.2	3.9	4.4	2.5	4.7	5.6	6.4	6.4
27	5.7	5.6	5.1	4.5	4.3	5.3	6.7	7.9	8.2	7.1	6.4	6.3	6	5.3	6.3	6.4	4.5	2.5	0.3	0.1	0.4	1.8	4.2	6.6	4.9
28	3.6	2.2	4.2	3.3	1.5	1.1	2.6	4.4	6.8	7.7	7.8	7.6	8.1	9.4	8.9	8.8	7	5	2.4	1.2	0.8	0.3	0.5	0.2	4.4
29	0	1.3	0.9	0.6	0.3	0.4	0.4	2.6	2.8	4.8	6.8	7.4	7	7.8	9	8.1	7.6	5.8	2.6	1.3	1.7	1.6	4.2	4.1	3.7
30	3.4	2	1.8	3.5	4.9	4.7	3.8	4.6	4.5	6.6	7.5	7.6	7.5	6.6	6.9	6.2	6.3	5	3.2	3.7	5	6	6.3	5.8	5.1
Avg	3.6	3.3	2.9	2.7	2.6	2.6	3	4.1	4.9	5.3	5.5	5.6	5.6	6	6.3	6.2	6	5.4	4.2	3.8	3.9	4	4.1	4	4.4
S D	2.5	2.2	1.9	1.7	1.7	1.7	2	1.9	2.1	2.3	2.2	2.3	2.1	2	1.8	1.9	1.8	2.1	2.2	2.5	2.5	2.6	2.8	2.8	1.6
S/A	0.68	0.69	0.64	0.62	0.64	0.65	0.67	0.45	0.43	0.43	0.4	0.41	0.38	0.33	0.29	0.31	0.32	0.34	0.49	0.57	0.65	0.63	0.63	0.7	0.36
Min	0	0.1	0.2	0.1	0.2	0.4	0.2	1	1	1.8	1.8	2.3	1.6	1.8	2.3	2.8	2.4	2.4	0.3	0.1	0.4	0.3	0	0.1	1.8
Max	8.7	8.2	7.2	6.3	6.3	6.9	7.3	7.9	10.1	12.7	11.2	10.3	10	10.7	10.6	10.7	10.4	9.8	9.3	9.2	9.3	8.9	9.1	8.7	8.4
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 2010

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	1014	1014	1014	1014	1015	1015	1016	1017	1018	1018	1019	1019	1018	1017	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017	1016
2	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1020	1020	1020	1019	1019	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1019
3	1019	1019	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1016	1016	1017	1017	1017	1017	1017	1018
4	1017	1017	1017	1017	1017	1018	1019	1019	1020	1020	1019	1019	1019	1018	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1018
5	1019	1019	1018	1018	1018	1019	1019	1020	1020	1020	1019	1018	1018	1017	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1017
6	1015	1015	1015	1015	1015	1015	1016	1016	1016	1015	1015	1014	1013	1013	1012	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1014
7	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1012	1012	1011	1011	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1011
8	1010	1009	1009	1009	1010	1010	1010	1010	1010	1010	1010	1009	1008	1007	1006	1005	1005	1004	1005	1005	1005	1006	1006	1006	1006	1008
9	1005	1005	1004	1003	1003	1003	1004	1005	1005	1006	1007	1007	1008	1009	1009	1009	1010	1010	1011	1013	1014	1015	1016	1017	1017	1008
10	1018	1019	1019	1020	1021	1022	1023	1024	1025	1026	1026	1026	1025	1025	1025	1025	1024	1025	1025	1025	1026	1026	1026	1026	1026	1024
11	1026	1025	1025	1025	1025	1026	1027	1027	1027	1026	1026	1025	1024	1024	1023	1022	1022	1022	1022	1022	1022	1023	1022	1022	1022	1024
12	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1024	1024	1025	1025	1025	1025	1023
13	1025	1025	1025	1024	1025	1025	1026	1026	1026	1026	1026	1026	1025	1025	1024	1024	1024	1025	1025	1026	1027	1028	1028	1028	1026	1026
14	1028	1028	1028	1028	1029	1029	1030	1031	1031	1032	1032	1032	1032	1032	1031	1031	1031	1030	1030	1030	1030	1030	1030	1029	1030	1030
15	1029	1028	1028	1028	1027	1028	1028	1028	1028	1028	1028	1027	1026	1025	1024	1023	1023	1022	1022	1022	1022	1022	1021	1021	1021	1025
16	1021	1020	1019	1019	1018	1018	1018	1017	1017	1016	1015	1014	1013	1012	1011	1009	1009	1008	1008	1008	1008	1008	1007	1007	1013	1013
17	1006	1006	1006	1006	1006	1006	1007	1007	1007	1008	1007	1007	1007	1006	1006	1005	1005	1006	1007	1008	1009	1010	1011	1012	1007	1007
18	1012	1012	1012	1012	1012	1012	1013	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	1015	1015	1015	1015	1015	1013	1013
19	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1014	1014	1014	1015	1015	1015	1015	1015	1015
20	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1011	1011	1013	1013
21	1011	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1009	1008	1008	1007	1006	1006	1006	1006	1006	1006	1006	1005	1005	1008	1008
22	1005	1005	1005	1005	1006	1006	1007	1007	1007	1008	1008	1008	1007	1007	1007	1006	1007	1007	1007	1008	1008	1008	1009	1009	1007	1007
23	1009	1008	1008	1008	1008	1009	1010	1011	1011	1011	1011	1011	1010	1010	1010	1010	1011	1011	1011	1012	1013	1014	1014	1014	1011	1011
24	1014	1014	1014	1015	1015	1015	1015	1016	1017	1017	1017	1016	1015	1015	1014	1014	1014	1013	1012	1011	1011	1010	1010	1009	1014	1014
25	1008	1007	1007	1006	1005	1005	1004	1003	1003	1001	1001	1000	999	998	997	996	995	995	994	994	994	994	994	993	1000	1000
26	993	993	992	992	992	992	992	992	991	991	990	989	988	988	987	986	986	987	988	989	990	990	990	990	990	990
27	991	991	991	991	992	993	994	994	994	995	995	995	995	995	996	996	997	997	997	998	999	999	999	1001	995	995
28	1000	1000	1001	1002	1004	1005	1006	1007	1007	1007	1008	1007	1007	1007	1007	1007	1007	1008	1008	1009	1010	1011	1011	1012	1013	1007
29	1013	1013	1013	1014	1014	1015	1015	1016	1016	1016	1015	1015	1014	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013
30	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1013	1012	1011	1011	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012
Avg	1013	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1014	1014	1013	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013
SD	9	9	9	9	9	9	9	9	9	9	9	9	9	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	0.01
Min	991	991	991	991	992	992	992	992	991	991	990	989	988	988	987	986	986	987	988	989	990	990	990	990	990	990
Max	1029	1028	1028	1028	1029	1029	1030	1031	1031	1032	1032	1032	1032	1032	1031	1031	1031	1030	1030	1030	1030	1030	1030	1029	1030	1030
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	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.

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

April 2010

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