

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

April 2011

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	2	20	106	151	292	291	266	373	389	231	152	222	76	9	0	0	0	0	0	2579
2	0	0	0	0	0	1	46	165	498	684	815	811	589	510	214 ?	406	261	146	16	0	0	0	0	0	5162
3	0	0	0	0	0	5	83	290	504	695	837	919	933	872	744	552	298	107	19	0	0	0	0	0	6857
4	0	0	0	0	0	9	87	286	493	643	811	881	903	847	713	538	331	123	14	0	0	0	0	0	6677
5	0	0	0	0	0	3	41	82 ?	87 ?	256	255	139	290	233	440	394	206	100	14	0	0	0	0	0	2541
6	0	0	0	0	0	8	97	308	519	709	847	927	929	874	747	568	356	131	13	0	0	0	0	0	7033
7	0	0	0	0	0	4	94	307	514	612	696	914	922	862	736	555	283	127	13	0	0	0	0	0	6639
8	0	0	0	0	0	8	90	231	386	452	767	850	854	750	616	234	53 ?	24	9	0	0	0	0	0	5322
9	0	0	0	0	0	2	22	79	146	245	300	510	867	853	682	512	213	66	13	0	0	0	0	0	4510
10	0	0	0	0	0	5	62	160	442	579	764	767	926	600	651	386	350	128	15	0	0	0	0	0	5836
11	0	0	0	0	0	3	43	171	387	556	650	749	830	779	539	330	235	81	32	0	0	0	0	0	5386
12	0	0	0	0	0	16	101	257	435	582	796	886	873	463	245	248	120	5 ?	1	0	0	0	0	0	5028
13	0	0	0	0	0	7	124	325	575	716	882	660	544	508	652	506	241	141	11	0	0	0	0	0	5893
14	0	0	0	0	0	19	106	309	542	728	862	938	940	876	737	553	337	136	15	0	0	0	0	0	7099
15	0	0	0	0	0	18	127	341	542	727	860	943	946	917	757	530	282	134	25	0	0	0	0	0	7149
16	0	0	0	0	0	9	66	94	305	464	364	376	312	275	137	63 ?	48 ?	12 ?	0	0	0	0	0	0	2525 ?
17	0	0	0	0	0	21	142	357	569	755	890	966	973	911	783	599	386	164	25	0	0	0	0	0	7539
18	0	0	0	0	0	14	87	294	525	696	790	854	853	754	721	540	376	147	15	0	0	0	0	0	6667
19	0	0	0	0	0	7	114	316	518	670	726	804	868	792	684	446	241	83	13	0	0	0	0	0	6283
20	0	0	0	0	0	10	50	200	522	703	834	900	809	806	502	323	219	121	20	0	0	0	0	0	6019
21	0	0	0	0	0	22	116	295	459	602	447	261 ?	221	264	369	201	245	134	20	0	0	0	0	0	3657
22	0	0	0	0	0	24	134	365	225	234	276	308	275	419	340	222	113	34	18	0	0	0	0	0	2987
23	0	0	0	0	0	11	43	133	266	277	703	528	517	487	636	326	281	148	19	0	0	0	0	0	4375
24	0	0	0	0	0	25	148	335	538	721	847	925	874	853	660	534	370	160	31	0	0	0	0	0	7020
25	0	0	0	0	0	28	155	345	513	725	849	875	852	877	740	563	374	167	33	0	0	0	0	0	7094
26	0	0	0	0	0	29	147	203	332	164	210	672	101 ?	721	390	85	123	93	23	0	0	0	0	0	3293
27	0	0	0	0	0	12	93	319	455	654	769	867	923	798	569	334	203	143	32	0	0	0	0	0	6173
28	0	0	0	0	0	20	97	183	248	478	661	468	418	459	193	104 ?	?	51 ?	28	0	0	0	0	0	3407 ?
29	0	0	0	0	0	30	179	395	601	786	916	989	994	927	795	601	391	185	32	0	0	0	0	0	7822
30	0	0	0	0	0	30	178	395	601	780	917	998	997	917	742	604	399	182	44	0	0	0	0	0	7785
Avg	0	0	0	0	0	13	96	255	430	573	688	732	724	687	565	400	261	112	19	0	0	0	0	0	5545
S D	0	0	0	0	0	9	44	96	144	188	227	252	276	224	206	171	100	49	10	0	0	0	0	0	1686
S/A	0	0	0	0	0	0.7	0.45	0.38	0.34	0.33	0.33	0.34	0.38	0.33	0.36	0.43	0.39	0.44	0.52	0	0	0	0	0	0.3
Min	0	0	0	0	0	1	20	79	87	164	210	139	101	233	137	63	48	5	0	0	0	0	0	0	2525
Max	0	0	0	0	0	30	179	395	601	786	917	998	997	927	795	604	399	185	44	0	0	0	0	0	7822
n	0	0	0	0	0	177	360	355	357	360	359	356	349	358	357	345	334	338	211	0	0	0	0	0	4616

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.0% exceed the 15% QC threshold -- 4708 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 2011

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 -- 4708 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 2011

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	2	20	105	149	285	282	265	319	361	224	120	145	63	9	0	0	0	0	0	2350
2	0	0	0	0	0	1	45	119	110	93	114	212	342	309	165	135	95	54	9	0	0	0	0	0	1801
3	0	0	0	0	0	5 ?	30	57	70	76	85	78	76	78	73	86	93	44	16	0	0	0	0	0	866
4	0	0	0	0	0	11 ?	42	78	103	119	88	108	112	88	85	80	66	41	11	0	0	0	0	0	1033
5	0	0	0	0	0	3 ?	41	63	72	225	226	139	287	232	240	272	111	89	12	0	0	0	0	0	2012
6	0	0	0	0	0	6	30	53	66	75	79	79	78	75	69	61	51	33	9	0	0	0	0	0	765
7	0	0	0	0	0	3	34	55	88	211	201	77	78	76	71	67	95	56	9	0	0	0	0	0	1123
8	0	0	0	0	0	10 ?	71	160	239	383	247	207	203	238	294	222	42	23	9	0	0	0	0	0	2348
9	0	0	0	0	0	2	22	79	146	245	300	411	289	219	262	235	170	66	13	0	0	0	0	0	2458
10	0	0	0	0	0	5	57	160	237	303	258	267	182	333	252	207	122	59	14	0	0	0	0	0	2458
11	0	0	0	0	0	3	43	166	281	336	391	381	286	244	324	274	208	79	30	0	0	0	0	0	3047
12	0	0	0	0	0	18	73	180	190	264	169	160	248	309	198	198	120	9 ?	1	0	0	0	0	0	2137
13	0	0	0	0	0	7	39	61	130	84	127	267	246	361	280	266	158	46	7	0	0	0	0	0	2079
14	0	0	0	0	0	14	48	63	79	97	92	87	84	86	106	106	65	14	0	0	0	0	0	0	1029
15	0	0	0	0	0	13	43	65	84	99	111	145	270	232	151	191	180	100	25	0	0	0	0	0	1709
16	0	0	0	0	0	9	66	94	276	403	357	351	305	232	137	56	41 ?	14	0	0	0	0	0	0	2341
17	0	0	0	0	0	11	38	60	74	83	95	96	92	89	86	89	70	44	12	0	0	0	0	0	941
18	0	0	0	0	0	17	80	141	156	180	270	271	313	215	157	157	94	58	15	0	0	0	0	0	2245
19	0	0	0	0	0	7	62	116	149	262	358	294	268	300	283	288	212	83	13	0	0	0	0	0	2694
20	0	0	0	0	0	11	50	138	159	165	172	179	263	258	344	293	209	110	20	0	0	0	0	0	2371
21	0	0	0	0	0	21	97	131	247	354	402	208	206	264	356	201	197	96	19	0	0	0	0	0	2799
22	0	0	0	0	0	21	83	163	225	231	276	303	274	408	340	222	113	34	18	0	0	0	0	0	2710
23	0	0	0	0	0	12	43	129	219	269	345	318	418	342	265	225	136	78	17	0	0	0	0	0	2816
24	0	0	0	0	0	23	77	126	140	158	171	195	232	251	219	156	97	67	23	0	0	0	0	0	1935
25	0	0	0	0	0	24	91	116	162	283	185	210	233	194	172	170	105	67	23	0	0	0	0	0	2035
26	0	0	0	0	0	20	103	201	310	161	186	260	74 ?	384	234	76	122	92	23	0	0	0	0	0	2249
27	0	0	0	0	0	12	65	160	289	287	271	275	227	246	326	273	187	122	30	0	0	0	0	0	2769
28	0	0	0	0	0	20	96	182	247	406	454	379	405	423	193	104 ?	?	40 ?	27	0	0	0	0	0	2975 ?
29	0	0	0	0	0	20	51	63	73	80	86	89	89	88	93	121	101	52	19	0	0	0	0	0	1024
30	0	0	0	0	0	19	54	73	84	94	99	101	108	123	165	110	89	70	37	0	0	0	0	0	1225
Avg	0	0	0	0	0	12	56	112	162	210	216	214	219	238	207	169	122	62	16	0	0	0	0	0	2011
S D	0	0	0	0	0	7	23	46	77	107	110	101	100	108	91	77	50	27	8	0	0	0	0	0	701
S/A	0	0	0	0	0	0.62	0.41	0.41	0.48	0.51	0.51	0.47	0.46	0.45	0.44	0.45	0.41	0.44	0.53	0	0	0	0	0	0.35
Min	0	0	0	0	0	1	20	53	66	75	79	77	74	75	69	56	41	9	0	0	0	0	0	0	765
Max	0	0	0	0	0	24	103	201	310	406	454	411	418	423	356	293	212	122	37	0	0	0	0	0	3047
n	0	0	0	0	0	163	360	358	360	360	360	358	352	360	358	353	339	347	210	0	0	0	0	0	4638

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.5% exceed the 15% QC threshold -- 4708 total daylight measurements.

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

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

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

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

April 2011

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	6.4	6.4	6.5	6.6	6.7	6.5	6.4	6.7	7	7.8	8.3	8.5	7.9	9	9.1	8.2	9.4	9.4	9	8.5	7.9	7.3	6.1	5.7	7.6
2	5.5	5.4	5.3	5.2	5.1	6.6	6.4	7.4	9.5	10.9	12.5	13.3	14	14.5	13	15.2	15	14.6	12.5	10.8	10.5	10.2	9.2	8.6	10
3	7.7	7	7	6.7	6	5.2	5.3	7.7	10.5	11.9	12.8	13.9	14.8	15.9	16.8	17.6	18	17.2	11.9	10.9	10.6	10.7	10.9	11.3	11.2
4	11.5	11.7	11.8	12.2	13	13.9	15.1	16.6	18.9	20.5	22.6	24.2	25.5	26.9	26.1	25.2	24.4	23.1	21.4	20.7	20.3	20.4	20.5	20.5	19.5
5	20.4	20.4	20.7	20.6	20.5	20.4	16.6	16.9	17.5	19.5	19.7	13.8	13	13.6	14.6	14.6	14.1	13.1	12.6	12	11.3	10.8	10.5	9.3	15.7
6	9.2	8.9	7.9	6.3	4.7	4.3	4.6	7.3	9.8	11.2	12.2	13	14	14.8	15.7	16.6	16.4	15.4	13.7	12.8	12.2	12.1	12	11.8	11.1
7	11.5	11.5	11.3	11.2	10.8	10.5	10.9	13.2	14.9	16.7	18.1	20.4	22	23.5	24.4	24.6	23.7	23.2	21.7	19.8	16.2	14.5	13.3	12.5	16.7
8	12	11.6	11.3	10.9	10.8	10.9	11.4	12.8	14.6	16.2	17.8	19.2	20.7	22.4	23	22.1	22.3	19.3	15.7	14.3	13.5	13	12.9	11.8	15.4
9	10.7	10	9.4	9.1	9.1	9.1	9.4	9.7	9.8	10.2	10.5	11.7	13.3	13.3	14.1	13.4	12	10.7	10	10	10.2	10.2	9.7	9.7	10.6
10	10.2	10.1	10	10.1	10.4	10.4	10.5	11.1	12.6	14.8	16.7	18.1	19.1	19.3	19.9	19.7	19.9	18.8	16.8	15.5	14.9	15.3	16.3	16.6	14.9
11	16.6	16.8	17	17.1	17.1	17.1	17.3	18	19.4	20.8	21.6	22.3	23.9	25.7	26.5	26.3	25.7	24.7	23.4	22.4	21.9	21.5	21.2	21.2	21.1
12	21.2	20.9	20.6	20.4	20.2	20.4	21.2	22.5	23.3	24.5	25.3	25.9	27.1	27.2	26.4	24.9	23	21.7	20.3	18.2	16.9	16.5	16.3	16.3	21.7
13	16	15.7	15.3	15	14.3	13.4	13.6	14.3	15.8	17.2	18.2	19	19.3	19.6	20.2	20.5	19.8	19.9	18.5	15.5	14.6	14.2	14.1	14.1	16.6
14	13.3	12.5	11.3	10.6	10.2	9.9	10.4	12.9	15.6	16.9	18	19.1	20.4	21.5	21.6	18.5	17.5	16.9	15.6	14.7	13.9	13.3	13.2	12.8	15
15	12.7	12.4	12.2	11.1	10.2	10.1	10.5	14.2	15.5	16.6	17.1	17.4	17.5	18	17.9	17.3	16.1	15.4	14.6	14.3	14.7	14.8	14.8	14.8	14.6
16	14.8	15.4	15.4	16.6	17.2	17.1	17.9	18.3	19.3	20.7	21.1	21.2	21.2	21.2	21.3	21.5	21.6	21.5	21.6	21.4	18.2	19.2	18.8	17.7	19.2
17	16.4	14.7	13.4	12.6	11.9	11.3	11.5	12.8	14	14.9	15.5	16.6	17.7	18.4	19.4	19.8	20.1	20	18.6	17	16.1	15.7	15.6	15.4	15.8
18	14.8	14.3	14.1	14.4	14	14.3	14.4	15.7	18.3	20.3	22	23.2	23.9	24.3	25	24.5	23.6	22.6	20.7	19.9	18.9	18.5	18.4	17.8	19.1
19	17.6	17	16.5	16.2	15.9	15.5	16.2	18	19.6	20.8	22.2	23.2	24.5	25.6	26.4	26.3	25.7	24.4	23	21.9	21.3	20.7	20.3	20	20.8
20	19.7	19.5	19.2	19.1	19.1	19.4	19.8	20.7	22.7	24	25.6	27.3	28.5	29	29.2	28.9	28.4	27.8	26.6	25.1	24.2	23.6	22.1	21.4	23.8
21	21.5	20.9	20.4	19.9	19.1	18.6	19.1	19.9	20	19.3	18.1	16.8	15.4	15.9	16.3	15.5	15.4	15.2	14.3	13.4	13	12.7	12.2	11.8	16.9
22	11.1	11.7	11.8	11.5	11.7	10.8	11.2	13.4	14.1	14.3	14.1	14.5	14.5	15	14.9	14.8	14.3	13.7	13.5	13.5	13.8	13.9	14.2	14.7	13.4
23	15.6	16.1	16.5	17.4	17.7	17.8	18.2	18.9	20.4	21.7	23.2	24.2	24.8	25.5	26.9	26.4	26.2	25.8	24.3	23.1	22.3	21.7	21.4	21.1	21.5
24	20.6	20.2	20.2	20.2	19.8	19.5	20.1	21.5	23.3	24.9	26.1	27.1	28.1	29	29.3	29.7	29.5	28.1	25.9	24.4	23.3	22.2	21.4	21	24
25	20.6	20.2	19.9	19.6	19.5	19.4	19.9	21.4	23	24.1	25.2	26.2	27.1	27.6	28.5	28.4	27.4	26.3	24.7	23	22.1	21.8	21.6	21.2	23.3
26	20.9	20.9	20.8	20.7	20.5	20.6	21.3	22.2	23.2	21.9	21.5	23.6	20.4	22.6	25.6	24.2	23.4	22.9	22.7	22.6	21.6	21.2	20.6	20.6	21.9
27	20.3	20.5	20.3	20.4	20.5	21.1	21.2	22.9	24	25.3	26.4	27	27.6	28	27.9	27.2	26.4	25.9	25	24	23.4	23.2	23.1	22.9	23.9
28	23	23.2	23.2	23.2	23.3	23.4	23.6	24	24.5	25.4	26.5	27.1	26.6	27.3	26.6	25.5	22.4	22.2	22	22.7	23.2	22.8	22.1	20.3	23.9
29	19.2	19	18.8	17.7	16.6	15.9	16.2	17.3	18.6	19.9	21.2	21.7	22.4	22.7	23	23.1	23.1	22.6	21.3	19.5	18.3	17.6	17.2	16.9	19.6
30	16.4	15.9	15.3	14.6	13.9	13.5	14.5	16	16.8	18	18.7	19.5	20.3	21.4	21.9	19.1	17.6	16.4	15.1	14.3	14.1	14	13.8	13.9	16.5
Avg	15.2	15	14.8	14.6	14.3	14.2	14.5	15.8	17.2	18.4	19.3	20	20.5	21.3	21.7	21.3	20.8	20	18.6	17.5	16.8	16.5	16.1	15.8	17.5
S D	4.9	4.9	5	5.1	5.2	5.3	5.3	5	4.9	4.8	5	5.2	5.4	5.5	5.5	5.4	5.1	5.1	5	4.9	4.7	4.7	4.7	4.6	4.6
S/A	0.32	0.33	0.34	0.35	0.36	0.37	0.36	0.32	0.28	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.27	0.28	0.28	0.28	0.29	0.29	0.26
Min	5.5	5.4	5.3	5.2	4.7	4.3	4.6	6.7	7	7.8	8.3	8.5	7.9	9	9.1	8.2	9.4	9.4	9	8.5	7.9	7.3	6.1	5.7	7.6
Max	23	23.2	23.2	23.2	23.3	23.4	23.6	24	24.5	25.4	26.5	27.3	28.5	29	29.3	29.7	29.5	28.1	26.6	25.1	24.2	23.6	23.1	22.9	24
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 2011

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	?	?	?	?	?	?	?	104.4 ?	100.8	94.9	92.3	90.1	86.6	83.4	81.1	90.8	73.9	71.7	72.8	71.5	72.4	74.2	81.9	84.9	84 ?
2	84.9	85	87.5	87.8	91.7	88.1	93.8	95.6	83.5	74.1	64.6	59.6	55.9	51.8	62.5	50.5	50	45	61.2	70.2	64.9	61.8	67	70.1	71.1
3	75.4	78.2	77.4	78.5	84.1	89	91	84.7	71.8	59.7	53.4	49.1	47	44.5	41.3	36.9	37.8	45.3	82.9	85.6	89.2	94.4	95.1	90.4	70.1
4	88.3	89.9	92.1	94.8	96.7	99.6	101.4	99	88.2	80	70.6	65.4	59.8	54.9	66.6	72.3	76	82.9	89.6	92.2	97.6	99.6	99.6	99.4	85.7
5	99.5	99.4	99.5	100.5	101	100.3	103.8 ?	100.6	100.9	96.1	90.6	94.6	93	88.6	70.1	74.6	79.8	83.4	84.6	90.4	96.8	98	79.5	80.2	91.9
6	79.8	67.7	68.8	79.4	92.1	93.2	92.2	78.1	64.3	52.9	48.1	46.9	50.2	48.4	48.1	45.4	49.6	57.4	68.2	75.5	81.6	83	81.4	81.1	68.1
7	83.1	81.7	84.7	85.3	87.2	92.3	94.3	88	78.3	70.8	65.8	59.4	52.4	47.3	42.2	40.3	46.5	47.4	52.5	58.4	82.7	92.8	96	98.8	72
8	103.4	?	?	?	?	?	?	103.3	100.3	98.3	94.6	89.4	82.1	77.1	76.1	79.8	82.6	90.4	98.9	103.2	104.8 ?	?	?	?	92.3 ?
9	?	?	?	?	?	?	104 ?	103.5	102.8	102.6	102.7	99.5	95.3	96.5	94.8	95.7	98.5	101.9	104.3	?	?	?	?	?	100.1 ?
10	?	?	?	?	?	?	?	?	104.3 ?	101.1	95.9	91.7	88.2	89.2	87	90.3	90.8	94.9	100.3	103.2	104.5 ?	?	?	?	95.5 ?
11	?	?	?	?	?	?	?	?	102.4	98.8	97.2	96.8	93.5	88.4	85.4	87.1	90.8	94.6	97.9	100.6	102.7	104	103.3	102.2	96.6 ?
12	101.8	101.8	101.8	102.8	?	?	103.6 ?	99.7	94.2	87.1	82.9	81	76.4	71.4	58.7	64.2	62.3	63.4	71.7	82.9	89.5	87	94.7	98.3	85.3 ?
13	100.7	101.4	102.2	101.6	102.6	104.6 ?	104 ?	100.2	94.1	86.5	80.6	76.8	74.5	73.2	72.6	70.6	72.1	70	80.1	98.3	100.7	100.6	100	100.7	90.4
14	101.5	101.4	?	?	?	?	?	96.2 ?	74	62.2	57.1	55.7	53.1	50.9	56.2	70.8	74	77.8	82.8	86.9	92.4	95.7	95.8	96.8	78 ?
15	95	98.4	99.9	102.5	?	?	?	97.8	90.5	79.8	77.1	79.3	83.3	85	87	90.4	96.3	99	102.6	104.7 ?	104.7 ?	104.3	104.6 ?	?	94.1 ?
16	?	105 ?	?	101.2 ?	99.1	99.3	97.2	98	95.4	84.4	82.9	82.9	84.9	91	94.7	95.7	95.3	94.9	96.6	100	100.3	93.5	84.5	79	93.4 ?
17	77.3	72.4	75.6	77.2	80.7	83.5	84.5	80.3	72.2	65.9	64.6	62.6	56.7	53.1	51.9	47.5	45.1	46.8	55	61.4	68	73.3	74.7	77.8	67
18	79.9	83.8	83.9	79.3	79.9	77.8	78.6	78.3	68.8	63.2	57.5	50.7	52.9	49.7	41.6	44.3	46.2	49	56.6	55.9	68.1	83.1	87.7	92.2	67
19	94.8	96.9	99.1	100.7	103	104.9 ?	104.4 ?	100.4	94.3	89.8	83.6	81.7	75.3	69.8	64.5	62.6	67.8	70.6	71.6	77.6	82.2	86.4	91.4	95.3	86.2
20	97.9	101	102.3	103.9	104.2	104.7 ?	105 ?	103.4	98.2	94.6	88.3	79.8	67.3	66.1	66.2	67.5	69.7	72.1	75.6	81.7	83.8	85	93.9	97.2	87.9
21	94.8	95.5	96.4	96.8	98.5	99.3	96.5	86.1	72.5	67.9	68.3	70.8	83.2	79.4	69.5	70.3	71.3	70.1	69	71.1	72.9	82.8	92.5	93.1	82
22	96.7	87.9	86.6	89.4	88.2	95.6	95.1	90.7	84.6	83.9	85.1	81.8	80.7	76.8	77.8	74.6	77.2	83	86.3	86.4	88.2	96.1	99.7	100.6	87.2
23	100.3	100.4	102.5	102.1	102.2	102.7	102.8	103.1	101.3	98.2	93.1	90.6	89.4	86.1	81.3	83.4	84.9	85.2	91.3	96.1	99.1	102	103.6	104.6 ?	96.1
24	?	?	?	?	?	?	?	103.6 ?	98.1	91.7	86.7	82.3	77.2	72.9	70.7	66.3	67	77	90.4	94.7	95.8	99.3	102.4	103.5	87 ?
25	104.6 ?	?	?	?	?	?	?	103 ?	98.7	95.5	89.9	83.7	80.4	77.7	72.6	72	73.9	78.8	82.3	91.1	98.7	100.1	100.9	104.2 ?	89.3 ?
26	?	?	?	?	?	?	?	104.4	102.7	100.3 ?	104 ?	99.1	103.5 ?	101 ?	90.4	93.8	94.9	96	98.6	97.5	97.4	98.3	101.1	100.3	99 ?
27	100.6	100.3	102.5	103.1	104.2	103.5	102.8	99.1	97	95.3	90.1	88.7	86	84.4	84.1	87.3	90.6	91.2	93.8	100.4	103	103.3	103.7	103.9	96.6
28	103.8	102.4	101.1	100.5	99.6	99.6	99.8	99.8	99.1	97.6	94.6	90	92.5	88.7	89.1	97.1	104 ?	102.3 ?	101.5	102.8	100.5	99.1	101	98.4	98.5
29	102.1	104.3	99.4	93.3	91.3	92.2	90.4	78.4	68.9	62.6	57.6	53.7	48.6	48.9	46.4	46.7	48.8	51.6	58.7	68	75.9	80.4	83.5	84.8	72.4
30	86.6	89.9	92.3	95	95.9	93.8	86.8	71	65.4	59.9	57.2	52.7	50.2	48.4	46.7	71.2	75.7	79.2	83.7	86	87.1	88.1	91.2	88.7	76.8

Avg	93.6	92.9	92.8	94.1	94.9	96	96.8	94.7	88.9	83.2	79.2	76.2	74	71.5	69.2	71.3	73.1	75.8	82	86	89.8	91.3	93	93.3	85.4 ?
S D	9.5	10.8	10.3	9.3	7.9	7.6	7.5	9.9	13.3	15.4	16.1	16.4	17	17.4	16.7	18.1	18.3	18.2	15.5	14.5	12.4	10.7	9.9	9.6	10.6
S/A	0.1	0.12	0.11	0.1	0.08	0.08	0.08	0.1	0.15	0.18	0.2	0.22	0.23	0.24	0.24	0.25	0.25	0.24	0.19	0.17	0.14	0.12	0.11	0.1	0.12
Min	75.4	67.7	68.8	77.2	79.9	77.8	78.6	71	64.3	52.9	48.1	46.9	47	44.5	41.3	36.9	37.8	45	52.5	55.9	64.9	61.8	67	70.1	67
Max	104.6	105	102.5	103.9	104.2	104.9	105	104.4	104.3	102.6	104	99.5	103.5	101	94.8	97.1	104	102.3	104.3	104.7	104.8	104.3	104.6	104.6	100.1
n	269	257	240	246	228	206	215	309	350	352	354	360	355	357	360	360	354	357	360	338	322	324	320	304	7500

Data Recovery: 0.0% missing; 0.0% untested; 13.2% 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 2011

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	6.9	6.8	6.8	6.9	7	7	6.8	6.9	7.4	8.3	10	10.8	10.9	11.6	12.1	11.1	10.5	11	10.1	9	7.7	6.7	5.7	4.8	8.5
2	4.3	3.9	3.7	3.7	3.8	4.8	5.6	6.5	9.4	12.7	14.8	16.3	17	17.1	16.3	14.8	16.6	16.9	15.9	12.3	9.8	9	8.5	7.6	10.5
3	6.9	6.1	5.5	5.2	5.2	4.7	4.5	7.1	11.2	14.6	16.7	18.2	19.4	19.5	19.9	21.1	21.7	22	18.4	13.5	11.3	10.4	10	9.8	12.6
4	10	10.2	10.6	10.9	11.3	11.9	13	15.9	19.1	21.7	24.3	26.5	27.9	28.8	29.6	29.3	28.8	27.5	25	22.2	20.9	20.4	20.2	20.2	20.3
5	20.3	20.5	20.7	20.9	20.6	20.6	19.4	17.4	16.8	17.3	19.4	18.6	15.4	15.1	16	17.4	18	16.7	14.7	12.8	11.6	10.9	10.4	9.3	16.7
6	8.4	8	7.1	5.8	4.3	3.2	3.3	7.1	12	15.3	17.5	18.8	19.1	18.8	19	20	20.6	20.1	17.7	14.3	12.5	11.7	11.5	11.4	12.8
7	11.3	11.2	11.2	11	10.5	9.9	9.9	12.8	16.1	18.6	20.6	23	25	26.1	27.4	28.9	29.1	27.5	25.3	21.6	18.7	16.1	14.4	13.3	18.3
8	12.6	12	11.7	11.2	10.8	10.6	10.8	12.6	15.3	18.1	21	23.7	25.3	25.7	27.2	27.6	25.6	23.7	20.2	17.1	15.2	14.2	13.6	13.1	17.4
9	12.2	11.4	10.7	10.1	9.7	9.6	9.5	9.9	10.6	11.5	12.6	13.9	16.9	18.3	19.1	19.7	18.6	15.7	12.8	11.2	10.7	10.7	10.4	10.1	12.8
10	10.1	10.4	10.4	10.3	10.5	10.7	10.8	11.4	13.3	17.5	20.9	23.6	24.8	24.9	24.9	25	24.7	24.5	21.3	17.9	16.2	15.2	15.7	16.3	17.1
11	16.3	16.4	16.8	17	17	17.1	17.4	18.1	19.7	22.1	24.3	25.3	26.3	27.5	28.9	29.4	28.9	27.7	25.9	24	22.6	21.8	21.3	20.9	22.2
12	20.8	20.8	20.6	20.3	20	19.8	20.3	22.3	24.3	26.6	28.5	29.8	30.5	30.9	30.2	28.6	26.5	24.3	22.2	19.9	17.5	16.5	16.2	16.2	23.1
13	16.1	15.5	14.9	14.4	14	13.3	13.3	15.9	18.8	21.5	23.2	24.4	24.3	23.5	24.1	24.7	25	23.5	22.3	18.7	16.2	14.8	14.3	14.1	18.8
14	13.3	11.9	10.7	9.9	9.4	9	9.5	12.3	17	20.7	22.7	24.1	24.9	25.7	27.1	26.2	23.8	22.1	19.4	16.1	14.2	12.9	12	11.6	16.9
15	11.2	10.8	10.4	9.6	8.8	8.4	9.1	12.9	17.3	20.1	21.4	22.1	22.4	22.6	23	22.9	22	20	17.9	16.1	15.2	15	14.8	14.8	16.2
16	14.6	14.8	15	15.2	16.1	16.6	17.1	18	19.1	21.1	22.7	23	23.4	23.3	23	22.8	22.5	22.2	22	21.6	20.1	18.4	18.2	17.9	19.5
17	17	15.7	14.2	12.9	11.9	11	11.4	13.9	16.4	18.5	19.7	20.3	20.8	21.2	21.8	23	23.6	23.6	22.1	18.4	15.8	14.6	14.2	14	17.3
18	13.8	13.6	13.1	13	13.1	13	13.4	14.8	19	23	25.7	27.4	28.1	28.3	28.6	28.8	28.3	27.3	24.3	21	19.4	18.3	17.7	17.4	20.4
19	17	16.7	16.2	15.7	15.4	15	15.1	17.7	21	23.8	25.8	27.2	28	28.7	29.7	30.4	29.7	27.8	25.4	23.4	22.1	21.2	20.4	19.8	22.2
20	19.4	19.1	18.9	18.8	18.6	18.8	19.5	20.4	23	26.1	28.3	29.9	31.2	31.7	32.3	32.2	31.4	30.4	29	26.6	24.8	23.7	22.6	21.5	24.9
21	20.9	20.7	20	19.4	18.9	18.3	18.3	19.9	22.2	23.1	23.1	21.8	18.6	17.6	18.4	18.7	17.8	18	16.7	14.3	12.7	11.7	11	10.5	18
22	9.7	9	9.4	9.3	9.4	9.6	10.4	13.1	16.2	16.4	16.3	16.7	16.8	17.2	18.2	18.2	17.3	16	14.6	14.1	14	14.1	14.2	14.5	14
23	14.9	15.6	16.1	16.4	17	17.4	17.9	18.7	20.4	22.6	24.4	27	27.6	28.2	29.6	30.4	29.6	29.4	27.7	25	23.4	22.3	21.5	21.1	22.7
24	20.7	20.2	20	20.2	20.1	19.6	19.8	21.9	24.7	27.3	29.4	30.8	31.6	32.1	33	33.5	33.8	33.3	30.6	27.1	24.7	23.3	22.1	21.2	25.9
25	20.7	20.2	19.8	19.5	19.2	19.1	19.5	21.9	25.1	27.4	29.4	30.5	31	31.3	32.2	33.2	33	31.6	29.3	25.8	23.4	22.1	21.5	21	25.3
26	20.7	20.5	20.4	20.4	20.3	20.1	20.8	22.8	24.2	25.2	23.1	23.6	24.7	22.9	26.5	27.2	24.9	24.2	23.8	23.2	22.6	21.7	21	20.4	22.7
27	20.3	20.3	20.3	20.3	20.2	20.4	20.8	22.8	25.7	27.9	29.6	30.7	31.3	31.5	31.8	31.1	30.1	29	27.6	25.7	24.3	23.5	23.1	22.9	25.5
28	22.7	22.9	23	23.1	23.2	23.4	23.6	24.3	25.2	26.2	28.1	29.4	29.2	29.4	29.4	28.2	25.7	23.1	22.2	21.9	22.4	22.7	22.6	21.9	24.7
29	20.3	19.2	18.8	18	16.8	15.8	16.3	19	21.9	23.8	25.5	26.8	26.6	26.1	26.3	27	27.3	26.7	25	21.5	18.6	16.9	16.1	15.7	21.5
30	15.7	15.4	14.9	14.2	13.4	12.6	13.6	17.1	20	22.4	24.3	25.2	25.4	25.3	26.3	26.6	24.8	22.8	19.9	16.5	14.4	13.4	12.9	12.6	18.7
Avg	15	14.7	14.4	14.1	13.9	13.7	14	15.8	18.4	20.7	22.4	23.7	24.1	24.4	25.1	25.3	24.7	23.6	21.7	19.1	17.4	16.5	15.9	15.5	18.9
S D	5.1	5.2	5.2	5.3	5.4	5.5	5.4	5.2	5	5	5	5.2	5.4	5.5	5.6	5.6	5.4	5.2	5.1	5	5	4.9	4.9	4.9	4.6
S/A	0.34	0.35	0.36	0.38	0.39	0.4	0.39	0.33	0.27	0.24	0.22	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.24	0.26	0.28	0.3	0.3	0.31	0.25
Min	4.3	3.9	3.7	3.7	3.8	3.2	3.3	6.5	7.4	8.3	10	10.8	10.9	11.6	12.1	11.1	10.5	11	10.1	9	7.7	6.7	5.7	4.8	8.5
Max	22.7	22.9	23	23.1	23.2	23.4	23.6	24.3	25.2	26.2	28.1	29.4	29.2	29.4	29.4	28.2	25.7	23.1	22.2	21.9	22.4	22.7	22.6	21.9	24.7
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.

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

April 2011

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	1.4	1.1	0.9	1.9	2	1.6	2	2.7	3.4	3.7	3.7	3.3	3.5	4.3	2.9	4.5	3.3	2.9	2.5	2.3	1.8	1.4	1.8	2.6
2	1.2	1.5	1.5	1.2	1.8	2.1	1.2	1.8	4.5	5.8	6.6	6.5	5.8	6.1	4.5	4.7	4.4	5.5	2.6	1.2	1.8	2.3	2	1.9	3.3
3	1.8	1.5	1.5	2.4	2.7	2.5	2.6	2.8	3.3	4.2	3.8	2.9	2.9	3.5	2.9	3.1	1.4	1.3	3.5	3.3	3.5	2.6	2.3	2.2	2.7
4	2.2	2.7	3	3.6	3.1	3.2	4.2	5.8	6.6	5.9	5.4	5.4	6.4	6.4	7.2	7.4	7.9	7.8	7.5	7.8	7.8	7.1	7.2	7.3	5.8
5	6.8	7.1	6.8	7.5	7.9	8.7	5.4	5.6	5.8	7.4	6.7	4.9	3.7	4	3.7	2.8	2.4	2.1	0.7	0	1.2	1.4	2.3	1.8	4.5
6	1.5	2.1	1.5	1	1.3	1.2	0.7	1.1	1.5	2.2	2.1	2.6	2.8	3.5	3.4	3.6	3.7	2.9	2.3	3.1	3.5	3.7	4.2	4.8	2.5
7	4.4	3.5	3	2.5	2.2	1.9	2.2	3.5	5	4	2.9	2.9	3.4	2.4	2.2	2.4	2.7	1.7	1.4	1.1	2.6	2.6	2.8	2.2	2.7
8	2.3	2.5	3.1	3.4	3.3	3.2	3.3	3.4	2.9	2.6	2.3	2.5	4	2.9	2.1	2.3	1.5	3.2	2.6	2.3	4.3	1.6	1.7	2.8	2.8
9	3.7	2.6	3.6	3.3	4.5	4.8	4.4	4	3	3	3	2.2	2.8	3.2	2.9	3.6	2.9	2.7	1.5	1.9	0.9	1.7	1.4	1.6	2.9
10	1.3	1.3	1.7	0.2	0.2	0.7	0.4	0.8	1.7	1.3	1	1.4	2.5	2.4	2.5	3	2.7	2.8	2.2	2.3	2	1.8	1.9	2	1.7
11	1.8	2.2	2.2	2.1	3.5	3.4	3	3.7	4.7	5.7	5.8	6.1	6	5.8	5.9	4.8	4.6	5.3	5.4	4.8	4.7	4.6	4.7	4.9	4.4
12	5	4.8	4.9	4	3.1	3	3.8	4.3	4.7	4.9	4.6	5.7	5.5	4.7	5	4.7	4.5	4.3	3.9	3.5	2.8	3.8	3.8	3.7	4.3
13	2.2	1.8	1.7	2.1	1.6	1.2	1.8	2.7	2.5	2.8	2.9	3.1	2.9	2.8	3.1	2.8	2.9	1.7	1.3	3	2.2	2	1.1	0.7	2.2
14	0.5	0.3	0.4	0.5	0.5	0.6	0.2	0.4	1.6	2.9	2.7	2.6	2.2	1.5	2.6	4.5	4	2.6	2	1.9	1	0.6	0.6	0.8	1.6
15	1	0.6	0.3	0.3	0.2	0.1	0.2	1.3	2.9	4.3	4.9	5.1	4.7	4.1	4.5	4.4	4.7	4.2	3.9	4.2	4.2	5.7	4.8	4.3	3.1
16	4	3.2	2.6	3.7	4.5	4	4.6	4.9	5.1	7.3	7.8	8	8.1	7.3	7.7	7.5	9.1	8.9	9.9	9.1	4.6	4.6	4.5	3.7	6
17	3.9	4.7	4.2	3.9	2.5	2.4	2.5	3.8	4.3	4.2	4.8	4.5	4.2	4.6	3.7	4.1	3.7	2.6	1.3	1.3	1.7	2	2.3	2.4	3.3
18	2.7	2.1	1.9	2.8	2.1	2.3	2.1	1.7	1.9	2.2	2.5	2.9	3.3	3.8	4.6	5.3	5.1	3.6	2.3	2.8	2.3	2.8	3.5	3	2.9
19	3.3	2.4	2	2.4	2.2	2.6	2.6	3	3.5	3.3	3.5	3.9	4.3	4.3	4.1	4.4	3.9	3.3	3.7	3.9	4.2	3.4	3.3	3.4	3.4
20	3.2	4.1	4.5	4	4.6	4.7	4.5	4.1	4.5	5.3	5.4	4.9	6.1	5.5	4.5	3.4	2.9	2.6	1.4	1.2	1.9	1.7	2	1.7	3.7
21	2.5	1.5	1.8	2.2	1.5	1.5	1.8	3.5	4.4	4.5	4.6	3.6	2.3	2.7	3.6	4.1	3.5	3.3	2.3	1.9	1.8	1.9	1.9	1.5	2.7
22	0.7	1.6	1.2	1.2	1.8	1.9	1.9	2.6	4	4.4	4.3	4.2	4.1	4	4.2	3.9	4.5	4.6	4.5	4.4	3.8	3.8	3.2	2.7	3.2
23	1.7	2.6	1.7	1.6	1.8	2	1.7	2	3.1	3.7	4.5	4.8	4.3	4.1	4.1	4.2	4.5	4.8	3.8	4.1	4.4	3.9	4.1	4.6	3.4
24	3.8	3.5	3.9	2.7	2.1	2	3.1	4.4	4.4	4.4	4.5	4.9	4.9	4.4	4.4	4.2	4.4	4.1	3.8	3.3	3.8	3.6	3.8	3.7	3.8
25	3.8	3.2	2.7	2.5	2.3	1.8	2.5	3.1	3.8	3.9	4.2	4.5	4.2	4.7	3.4	4.3	5	3.7	3.4	3.7	3.8	3.7	3.7	3.1	3.5
26	3.1	3.2	3.2	2.7	1.9	1.6	2.2	3	3.2	3.1	2.5	2.6	1.5	1.5	2.6	2.9	4.1	3.4	3.4	3.5	2.3	4.1	3	3.9	2.9
27	4.1	3.6	2.2	1.9	1.6	2.3	2.2	3.8	4.3	5.2	5.8	5.4	6.2	5.8	6	5	4.8	5.2	4.6	4.8	4.3	4.4	4.2	4.7	4.3
28	5.1	4.9	5.3	5.8	5.9	5.3	5.9	6.6	7.9	8	8.9	9.3	7.6	7.5	6.9	3.4	4	4.8	3.2	4.6	4.4	4.1	3.1	2.5	5.6
29	1.8	1.9	1.7	1.8	1.9	1.8	2	2.3	3.2	3.4	2.6	3.4	3.8	4.2	4	4	3.2	3.2	1.6	0.8	0.9	1	1.2	2.3	2.4
30	2.8	1.8	1.8	1.9	1.6	0.9	1.1	2.5	2.5	1.8	2.4	2.3	2.6	2.2	2	4.1	4.1	3.7	3	2.9	2.4	1.9	1.8	1.9	2.3
Avg	2.8	2.7	2.6	2.5	2.5	2.5	2.5	3.1	3.8	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4	3.8	3.2	3.2	3.1	3	2.9	2.9	3.3
SD	1.5	1.4	1.5	1.6	1.6	1.7	1.5	1.5	1.5	1.6	1.8	1.8	1.6	1.6	1.5	1.2	1.6	1.6	1.9	1.9	1.5	1.5	1.4	1.4	1.1
S/A	0.51	0.53	0.58	0.62	0.65	0.67	0.58	0.47	0.39	0.39	0.43	0.42	0.39	0.38	0.36	0.3	0.39	0.44	0.59	0.6	0.5	0.49	0.48	0.49	0.33
Min	0.5	0.3	0.3	0.2	0.2	0.1	0.2	0.4	1.5	1.3	1	1.4	1.5	1.5	2	2.3	1.4	1.3	0.7	0	0.9	0.6	0.6	0.7	1.6
Max	6.8	7.1	6.8	7.5	7.9	8.7	5.9	6.6	7.9	8	8.9	9.3	8.1	7.5	7.7	7.5	9.1	8.9	9.9	9.1	7.8	7.1	7.2	7.3	6
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 2011

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	321	312	291	279	277	281	277	273	267	274	273	269	293	279	267	287	267	262	260	254	256	241	220	226	271
2	209	221	221	219	226	224	187	223	245	263	264	256	261	260	272	290	292	293	318	290	276	273	266	276	263
3	249	248	240	252	267	271	279	292	300	299	291	308	273	264	258	273	255	133	111	125	144	148	163	172	254
4	168	156	160	161	166	174	177	187	192	193	198	194	192	189	177	178	179	180	180	182	185	182	185	185	182
5	182	182	182	183	181	194	201	223	187	185	200	279	284	281	290	315	332	360	351	18	142	208	282	293	209
6	308	314	311	272	265	276	246	284	248	283	253	215	199	206	207	201	182	161	163	169	171	177	187	190	207
7	193	193	193	198	200	207	201	230	243	247	240	246	250	246	202	195	161	159	177	83	51	60	66	62	206
8	42	44	46	52	53	58	58	65	65	70	69	87	125	183	75	92	201	333	352	352	330	334	326	335	46
9	337	325	342	338	343	355	27	29	25	23	36	18	46	55	54	66	62	52	60	69	108	71	56	85	26
10	89	17	6	0	336	351	27	54	57	105	100	103	100	92	85	75	105	116	120	123	130	136	154	160	99
11	165	157	156	161	188	193	191	189	190	194	207	196	193	197	191	181	180	182	181	183	184	183	184	190	187
12	191	191	189	186	178	179	173	183	188	198	184	171	176	188	229	234	201	176	183	190	172	189	186	187	189
13	176	174	183	195	219	227	231	242	205	201	211	243	237	234	268	285	271	294	33	61	55	50	39	343	231
14	349	4	217	259	284	261	280	295	327	318	311	307	295	294	66	91	91	91	71	82	126	139	126	136	37
15	121	112	136	337	336	1	308	54	67	87	71	70	72	70	68	66	65	68	68	71	69	71	74	77	71
16	78	86	77	105	114	115	120	123	135	138	141	142	142	147	147	154	157	153	154	164	222	225	234	240	147
17	260	263	262	257	244	253	251	260	268	272	256	243	253	249	232	245	252	242	202	187	191	192	192	192	247
18	195	198	228	231	233	241	241	195	215	229	219	211	164	173	180	179	177	168	169	177	177	182	186	188	193
19	194	200	200	196	189	189	194	195	191	191	174	175	174	185	184	180	167	172	172	182	186	186	183	187	184
20	187	189	191	191	192	192	193	207	195	190	192	196	225	230	214	198	217	227	215	197	197	192	185	200	201
21	227	223	242	257	248	263	295	358	4	4	16	15	41	66	58	48	46	53	49	43	50	67	71	75	26
22	100	95	91	90	71	55	44	60	79	68	74	70	70	68	71	64	69	72	77	76	78	83	91	100	74
23	113	122	131	160	163	156	165	158	165	186	187	187	194	192	197	180	185	186	183	182	185	187	189	189	179
24	190	189	194	196	191	183	191	191	211	205	204	209	207	208	198	202	190	182	182	180	184	185	188	189	195
25	188	190	189	189	190	190	194	202	206	191	191	194	186	182	187	177	162	172	167	161	162	172	178	173	182
26	181	183	186	179	179	180	175	178	177	194	178	164	211	150	165	173	164	167	161	179	164	151	157	139	171
27	124	149	165	155	160	165	161	167	175	176	180	173	170	174	177	171	168	165	161	160	167	168	168	167	167
28	162	167	179	181	184	180	181	173	181	180	181	185	186	191	187	191	204	189	188	191	191	192	197	191	184
29	202	245	270	274	273	272	277	292	289	295	281	253	254	250	257	252	267	260	256	216	203	209	199	309	262
30	359	3	360	2	358	350	347	349	346	1	301	285	280	305	336	69	69	67	72	71	80	89	98	88	24
Avg	183	185	194	194	195	199	193	199	200	203	202	202	198	202	193	179	174	167	156	157	167	168	175	178	187
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 2011

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	5.4	3.4	3.1	2.5	4.1	4.7	3.8	4.2	5.6	6.8	7.1	7.3	7	6.4	8	6.1	8.1	6.4	5	4.4	4.3	3.3	2.7	3.3	5.1
2	2.6	2.9	2.8	2.5	3.3	3.9	2.2	3.5	7.7	10.1	11.9	11.1	10.6	10.7	9	10	8.9	10.9	5	2.3	3.5	4.3	3.4	3.8	6.1
3	2.9	2.4	2.4	4.1	5	5	5	5.7	7.1	8	7.6	6.3	5.8	6.6	5.8	6	3	2.5	5.8	5.4	6.1	4.4	3.8	3.7	5
4	3.7	4.3	5.2	5.7	5.4	5.8	7.5	9.8	10.7	10.3	9.5	9.1	10.2	10.6	11.3	11.9	12.9	12.7	12.3	12.5	12.8	11.6	12.1	11.9	9.6
5	11.1	10.8	11.6	12.3	13.1	14.3	10.1	11.4	9.8	11.7	11.9	9.9	7.3	7.6	7.3	5.7	4.7	3.6	1.5	0.2	2.1	2.6	4.8	3.7	7.9
6	3	4.1	2.9	1.8	2.2	2	1.5	2.2	2.6	4.6	4.3	5.1	5.4	6.5	6.2	6.4	6.7	4.6	3.8	5.8	6.3	6.4	7	7.6	4.5
7	7.4	6.2	5.1	4.5	4.2	3.7	4	6.2	8.3	6.7	5.6	5.5	6.1	4.8	4.1	4.7	4.6	3.1	2.5	2.1	4.3	4.5	4.5	4.1	4.9
8	4	4.4	5.4	5.7	5.6	5.6	5.4	5.6	4.8	4.4	4.1	4.4	6.3	5.1	3.4	3.5	3.2	5.4	4.4	4.3	7.7	3.3	3.8	5.1	4.8
9	6.2	5.1	6.1	5.9	7.7	8.3	7.8	6.9	5.7	5	5.2	4	4.7	5.4	4.8	5.6	4.8	4.3	2.8	3.4	2	3	2.9	3.1	5
10	2.5	2.6	3.3	0.9	0.6	2	1.3	2.1	3.3	2.9	2.4	2.9	4.5	3.8	4.2	4.6	4.1	4.2	3.4	3.5	3.5	3	3.3	3.4	3
11	3.2	4	3.9	3.5	6.1	5.7	5.3	6	7.6	9.4	10.4	10.1	10.1	10.7	9.4	7.6	7.8	8.8	8.8	7.7	8.1	7.7	7.7	8.1	7.4
12	8.2	7.7	7.5	6.8	5.2	5.1	6.4	7.5	8	8.3	8.1	9	8.9	7.8	8.7	8.6	8.4	7.3	6.3	5.6	4.9	6	6.5	5.8	7.2
13	3.8	3.3	2.9	3.6	2.9	2.3	3.2	4.5	4.3	4.9	5.3	5.8	4.9	5.1	6	5.4	5.7	3.4	2.5	4.8	3.8	3.5	1.9	1.5	4
14	1.1	0.6	0.9	1	1.1	1.2	1	1.3	3.1	5.5	5.8	5.6	4.4	3.7	4.8	6.9	6.4	4.3	3.3	2.9	1.7	1.2	1.3	1.5	2.9
15	1.7	1.1	0.9	0.6	0.4	0.5	0.7	2.4	4.7	6.9	8.2	8	7.9	6.9	7.2	7.5	8.2	7.1	6.6	7.2	7	9.3	8	7.6	5.3
16	6.6	5.5	4.3	6.3	7.1	6.3	7.2	7.8	8.4	12.2	13.5	12.7	13.4	12.1	12.4	12.9	14.9	14.9	15.8	15.5	8.2	8.4	7.9	6.8	10
17	7	8.3	7.3	6.8	4.5	4.1	4.2	7	8.3	7.5	8.2	7.3	8.1	8	6.7	7	6.9	4.4	2.5	2.3	2.8	3.3	3.6	3.7	5.8
18	4.1	3.4	3.3	4.6	3.4	4	3.5	3.1	3.6	4.1	4.6	5.2	5.6	6.7	8.1	8.5	8.8	6.3	4	4.9	4.1	5.2	5.7	5.2	5
19	5.2	4.5	3.8	3.8	3.5	4	4.2	5.1	5.9	5.8	6.1	6.5	7.4	7.4	7.3	7.4	6.7	6.1	6.5	6.3	6.9	5.7	5.8	5.9	5.7
20	5.6	6.7	7	6.3	7.3	7.6	7.3	7.4	7.6	8.4	9.3	8.5	10.5	9.4	8	6.3	5.3	4.4	2.9	2.1	3.2	2.8	3.2	3.1	6.2
21	4.1	2.7	3.1	3.6	2.3	2.5	3.4	6.3	7.5	7.8	8.4	6.7	4.1	4.7	6.2	6.9	5.9	5.5	4.1	3.2	3.2	3.3	3.2	2.4	4.6
22	1.4	2.8	2	2.3	3	3.4	3.4	4.3	6.8	7.4	6.8	7.1	6.7	6.2	6.7	6.3	7.3	7.5	7.8	7.5	6.7	6.2	5.3	4.4	5.4
23	2.8	4	2.9	3.2	3.2	3.5	3.3	3.3	5.4	6.2	7.5	8.4	7.6	6.8	7.3	6.9	7.4	8.4	6.6	6.9	7.5	6.3	6.7	7.8	5.8
24	6.3	5.6	6.5	5.1	3.7	3.4	4.9	7.6	8	8	7.9	8.6	8.7	7.8	7.5	8.1	7.3	6.8	6.4	5.9	6.3	6.1	6.2	6.1	6.6
25	6.4	5.5	4.4	4.3	3.9	3.3	4.4	5.5	6.4	6.3	6.8	7.7	7.7	7.5	6.5	7.2	8.3	6.5	5.7	6.1	6.4	6.5	6.2	5.4	6
26	5.3	5.3	5.5	4.6	3.5	3.3	4	5.1	5.8	5.5	4.6	4.2	3.2	2.9	4.7	5.4	7.2	6	5.9	6.3	4	7	5.4	6.8	5
27	6.6	6.3	3.8	3.5	3	4	3.7	6.6	7.3	8.9	9.9	9.4	10.4	9.9	10.2	9	8.5	8.9	8	8.2	7.2	7.9	7.9	8.2	7.4
28	8.9	8.6	8.8	9.6	10.1	8.8	9.7	11.4	13.1	13.2	14.1	14.9	12.4	12.2	11.2	5.9	7.4	7.9	5.4	7.2	6.9	6.9	5.3	4.1	9.3
29	3.2	3.3	3.2	3.4	3.6	3.3	3.8	4.6	5.8	6.3	5.4	6.2	6.5	7.2	7	7.3	6.1	6	3	1.3	1.6	1.7	2	4.4	4.4
30	4.9	3.2	3.2	3.4	2.9	1.7	2.5	4.5	4.3	3.9	5.1	5	4.9	4.6	4.3	6.8	6.3	6	5	5	4	3.4	3	3.6	4.2
Avg	4.8	4.6	4.4	4.4	4.4	4.4	4.5	5.6	6.6	7.2	7.5	7.4	7.4	7.2	7.1	7.1	7.1	6.5	5.4	5.4	5.2	5.2	5	5.1	5.8
S D	2.3	2.2	2.4	2.5	2.7	2.7	2.4	2.5	2.3	2.5	2.9	2.7	2.6	2.5	2.3	2	2.5	2.8	3	3.2	2.5	2.4	2.3	2.3	1.8
S/A	0.48	0.49	0.53	0.56	0.61	0.61	0.53	0.44	0.35	0.35	0.38	0.36	0.35	0.34	0.32	0.28	0.35	0.43	0.55	0.59	0.48	0.47	0.47	0.45	0.3
Min	1.1	0.6	0.9	0.6	0.4	0.5	0.7	1.3	2.6	2.9	2.4	2.9	3.2	2.9	3.4	3.5	3	2.5	1.5	0.2	1.6	1.2	1.3	1.5	2.9
Max	11.1	10.8	11.6	12.3	13.1	14.3	10.1	11.4	13.1	13.2	14.1	14.9	13.4	12.2	12.4	12.9	14.9	14.9	15.8	15.5	12.8	11.6	12.1	11.9	10
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 2011

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	997	997	997	997	997	998	999	999	999	999	999	999	999	999	999	1000	1001	1002	1003	1003	1004	1005	1005	1006	1000
2	1005	1005	1005	1005	1005	1005	1004	1005	1005	1004	1004	1003	1003	1003	1003	1003	1004	1005	1007	1008	1010	1011	1012	1012	1006
3	1013	1012	1013	1013	1014	1015	1016	1018	1018	1019	1019	1018	1017	1017	1016	1016	1016	1016	1016	1015	1015	1015	1015	1015	1016
4	1014	1014	1013	1013	1012	1012	1012	1012	1012	1012	1011	1010	1009	1007	1006	1005	1005	1005	1004	1004	1004	1004	1004	1004	1009
5	1003	1002	1001	1000	999	998	999	998	996	996	996	998	999	1000	1001	1002	1003	1004	1005	1007	1009	1010	1011	1013	1002
6	1014	1014	1015	1016	1017	1018	1019	1020	1021	1021	1021	1020	1020	1019	1018	1017	1016	1016	1016	1016	1017	1017	1017	1017	1018
7	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1013	1013	1014	1014	1015	1016	1017	1016	1016	1015
8	1017	1017	1016	1016	1017	1017	1018	1018	1018	1018	1017	1016	1014	1013	1012	1011	1010	1011	1011	1011	1011	1012	1012	1013	1014
9	1013	1014	1014	1015	1015	1016	1018	1019	1020	1020	1020	1020	1020	1019	1019	1018	1017	1017	1018	1018	1017	1019	1018	1017	1017
10	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1017	1017	1017	1017	1016	1016	1016	1016	1015	1018
11	1015	1014	1013	1013	1013	1014	1014	1014	1014	1014	1013	1012	1011	1010	1009	1008	1007	1007	1007	1007	1008	1007	1007	1006	1011
12	1007	1006	1006	1005	1005	1006	1006	1006	1006	1006	1006	1005	1005	1005	1005	1005	1005	1005	1006	1007	1007	1007	1007	1007	1006
13	1007	1007	1007	1007	1007	1008	1008	1009	1010	1010	1010	1009	1009	1009	1009	1009	1010	1010	1010	1011	1012	1013	1013	1014	1009
14	1014	1014	1014	1014	1015	1015	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1017	1017	1017	1017	1019	1019	1019	1017
15	1019	1019	1019	1020	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1021	1022	1021	1020	1021
16	1019	1018	1017	1016	1016	1015	1015	1015	1014	1013	1012	1011	1009	1007	1004	1003	1002	1001	1000	999	1001	1001	1002	1002	1009
17	1003	1004	1006	1007	1008	1009	1010	1010	1011	1011	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1013	1014	1014	1014	1010
18	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1015
19	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1014	1014	1014	1015	1015	1015	1015	1015	1016
20	1015	1014	1013	1013	1013	1014	1015	1015	1015	1015	1015	1014	1014	1013	1012	1011	1011	1011	1012	1012	1013	1013	1013	1014	1013
21	1014	1013	1013	1014	1014	1015	1016	1017	1018	1019	1020	1021	1021	1022	1021	1021	1022	1022	1022	1022	1023	1024	1024	1024	1019
22	1024	1024	1023	1024	1024	1024	1025	1026	1026	1026	1026	1025	1025	1025	1025	1024	1024	1024	1023	1023	1023	1023	1022	1022	1024
23	1021	1020	1019	1019	1019	1019	1020	1021	1020	1020	1020	1019	1019	1019	1018	1017	1016	1016	1017	1017	1018	1018	1019	1018	1019
24	1018	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1017	1016	1016	1015	1015	1015	1016	1016	1017	1017	1018	1017
25	1018	1017	1017	1017	1017	1018	1018	1019	1018	1018	1018	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1016	1016	1015	1017
26	1015	1015	1015	1015	1015	1016	1017	1017	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1014	1014	1014	1015
27	1013	1013	1014	1013	1014	1014	1014	1015	1015	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1012	1012	1013
28	1011	1010	1010	1010	1010	1011	1010	1009	1009	1009	1008	1007	1007	1007	1007	1007	1006	1006	1006	1006	1007	1007	1007	1007	1008
29	1007	1007	1007	1007	1008	1009	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1010	1010	1011	1011	1012	1012	1012	1013	1010
30	1014	1014	1014	1015	1016	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1021	1021	1021	1021	1018
Avg	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013
S D	6	6	6	6	6	6	6	6	7	7	7	7	6	6	6	6	6	6	6	6	6	6	5	5	6
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	997	997	997	997	997	998	999	998	996	996	996	998	999	999	999	1000	1001	1001	1000	999	1001	1001	1002	1002	1000
Max	1024	1024	1023	1024	1024	1024	1025	1026	1026	1026	1026	1025	1025	1025	1025	1024	1024	1024	1023	1023	1024	1024	1024	1024	1024
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.

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

April 2011

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