

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

November 2007

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	13	82	175 ?	?	?	?	268 ?	?	?	?	46	2	0	0	0	0	0	0	586 ?
2	0	0	0	0	0	0	3	25	95	245	210	162	153	176	113	71	26	7	0	0	0	0	0	0	1286
3	0	0	0	0	0	0	3	42	142	255	335	445 ?	?	?	?	?	53	2	0	0	0	0	0	0	1277 ?
4	0	0	0	0	0	0	17	86 ?	?	?	?	?	?	?	?	?	47	0	0	0	0	0	0	0	150 ?
5	0	0	0	0	0	0	18	94 ?	?	?	?	?	?	?	374	218	58	0	0	0	0	0	0	0	763 ?
6	0	0	0	0	0	0	30	83	30 ?	70 ?	85	119	82	72	130	144	52	0	0	0	0	0	0	0	896
7	0	0	0	0	0	0	12	119	282	454	571	614	610	545	385	221	55	0	0	0	0	0	0	0	3869
8	0	0	0	0	0	0	15	123	258	356	299	352	405	419	310	184	26	0	0	0	0	0	0	0	2747
9	0	0	0	0	0	0	30	58	88	190	162	270	388	450	299	124	13	0	0	0	0	0	0	0	2071
10	0	0	0	0	0	0	12	78 ?	139	76	155	279	323 ?	257 ?	122	71	9	0	0	0	0	0	0	0	1519 ?
11	0	0	0	0	0	0	?	154 ?	?	?	?	?	199 ?	203 ?	144 ?	58 ?	12	0	*	0	0	0	0	0	770 ?
12	0	0	0	0	0	0	7	61 ?	119 ?	?	?	?	?	?	?	?	42	0	0	0	0	0	0	0	229 ?
13	0	0	0	0	0	0	11	48 ?	255 ?	239 ?	?	318 ?	322 ?	247	224	111	43	0	0	0	0	0	0	0	1818 ?
14	0	0	0	0	0	0	8	59 ?	?	134 ?	207	245 ?	?	?	?	?	29	0	0	0	0	0	0	0	682 ?
15	0	0	0	0	0	0	16	55	140	119	94	?	?	?	47	14 ?	3	0	0	0	0	0	0	0	489 ?
16	0	0	0	0	0	0	6	73 ?	?	?	568 ?	587	579	504	387	190	57	0	0	0	0	0	0	0	2951 ?
17	0	0	0	0	0	0	6	84	243	408	515	576	562	485	284	123	27	0	0	0	0	0	0	0	3314
18	0	0	0	0	0	0	7	77	231	387	494	545	539	467	346	175	18	0	0	0	0	0	0	0	3286
19	0	0	0	0	0	0	6	45	130	267	471	340	294	267	168	120	21	0	0	0	0	0	0	0	2127
20	0	0	0	0	0	0	2	20	83	185	347	409 ?	?	?	?	164	38	0	0	0	0	0	0	0	1249 ?
21	0	0	0	0	0	0	6	70	222	350	470	526	517	452	321	153	30	0	0	0	0	0	0	0	3117
22	0	0	0	0	0	0	5	65	217	359	474	479	392	251	158	134	41	0	0	0	0	0	0	0	2574
23	0	0	0	0	0	0	4	42	147	283	355	373	450	433	270	173	43	0	0	0	0	0	0	0	2574
24	0	0	0	0	0	0	4	72	233	396	503	558	519	429	350	156	24	0	0	0	0	0	0	0	3245
25	0	0	0	0	0	0	1	5	?	29 ?	51	69	105	95	38	17 ?	5	0	0	0	0	0	0	0	415 ?
26	0	0	0	0	0	0	5	61	111	202	180	143	93	142	133	73	17	0	0	0	0	0	0	0	1161
27	0	0	0	0	0	0	4	43	158 ?	177	287 ?	293	327 ?	269	196	89	19	0	0	0	0	0	0	0	1863 ?
28	0	0	0	0	0	0	4	55	?	?	?	?	?	?	?	175	49	0	0	0	0	0	0	0	283 ?
29	0	0	0	0	0	0	6	20	48	57	127	259	262	246	294	172	39	0	0	0	0	0	0	0	1530
30	0	0	0	0	0	0	2	47	165	220	340	506	502	439	322	164	39	0	0	0	0	0	0	0	2746
Avg	0	0	0	0	0	0	9	65	161	237	317	368	359	326	235	132	33	0	0	0	0	0	0	0	1719 ?
S D	0	0	0	0	0	0	8	32	70	123	167	162	165	145	110	57	16	1	0	0	0	0	0	0	1100
S/A	0	0	0	0	0	0	0.82	0.49	0.44	0.52	0.53	0.44	0.46	0.44	0.47	0.43	0.5	3.89	0	0	0	0	0	0	0.64
Min	0	0	0	0	0	0	1	5	30	29	51	69	82	72	38	14	3	0	0	0	0	0	0	0	150
Max	0	0	0	0	0	0	30	154	282	454	571	614	610	545	387	221	58	7	0	0	0	0	0	0	3869
n	0	0	0	0	0	0	107	316	236	251	255	248	229	231	260	278	312	3	0	0	0	0	0	0	2733

Daylight Data Recovery: 0.1% missing; 0.0% untested; 25.6% exceed the 15% QC threshold -- 3679 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 μV/W/m² Calibration Date: 08/2003

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.

November 2007

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	6	78	321	?	?	?	33?	?	?	?	93	0	0	0	0	0	0	0	532?
2	0	0	0	0	0	0	0	0	7	28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	37
3	0	0	0	0	0	0	0	0	3	16	7	32?	?	?	?	?	82	0	0	0	0	0	0	0	140?
4	0	0	0	0	0	0	1	12?	?	?	?	?	?	?	?	?	2	0	0	0	0	0	0	0	15?
5	0	0	0	0	0	0	2	10?	?	?	?	?	?	?	769	656	318	0	0	0	0	0	0	0	1755?
6	0	0	0	0	0	0	101	118	0	0	1	1	0	0	0	209	258	0	0	0	0	0	0	0	688
7	0	0	0	0	0	0	158	573	770	846	874	874	864	838	665	651	313	0	0	0	0	0	0	0	7426
8	0	0	0	0	0	0	95	298	420	201	25	67	183	357	280	309	69	0	0	0	0	0	0	0	2304
9	0	0	0	0	0	0	0	1	0	3	1	19	284	560	475	330	75	0	0	0	0	0	0	0	1748
10	0	0	0	0	0	0	0	2?	3	0	1	4	6?	0?	0	0	0	0	0	0	0	0	0	0	18?
11	0	0	0	0	0	0	5	13?	?	?	?	?	6?	4?	5?	6?	1	0	*	0	0	0	0	0	39?
12	0	0	0	0	0	0	0	3?	9?	?	?	?	?	?	?	?	1	0	0	0	0	0	0	0	13?
13	0	0	0	0	0	0	0	1?	8?	6?	?	3?	3?	1	1	0	0	0	0	0	0	0	0	0	24?
14	0	0	0	0	0	0	0	4?	?	1?	2	2?	?	?	?	?	1	0	0	0	0	0	0	0	11?
15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
16	0	0	0	0	0	0	0	5?	?	?	900?	908	903	870	802	400	347	0	0	0	0	0	0	0	5135?
17	0	0	0	0	0	0	64	454	722	812	512	869	859	792	249	91	8	0	0	0	0	0	0	0	5433
18	0	0	0	0	0	0	42	368	637	747	805	827	823	793	724	552	50	0	0	0	0	0	0	0	6368
19	0	0	0	0	0	0	0	6	13	160	685	211	123	82	17	41	0	0	0	0	0	0	0	0	1338
20	0	0	0	0	0	0	0	0	0	3	29	35?	?	?	?	452	168	0	0	0	0	0	0	0	688?
21	0	0	0	0	0	0	3	211	575	706	760	783	758	748	621	391	121	0	0	0	0	0	0	0	5677
22	0	0	0	0	0	0	0	280	571	685	740	593	233	28	2	99	80	0	0	0	0	0	0	0	3313
23	0	0	0	0	0	0	0	0	35	164	83	59	534	610	295	601	324	0	0	0	0	0	0	0	2705
24	0	0	0	0	0	0	0	447	748	842	861	887	772	563	768	421	18	0	0	0	0	0	0	0	6328
25	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
26	0	0	0	0	0	0	0	2	7	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17
27	0	0	0	0	0	0	0	4	12?	4	12?	7	7?	5	8	2	0	0	0	0	0	0	0	0	61?
28	0	0	0	0	0	0	0	5	?	?	?	?	?	?	?	559	243	0	0	0	0	0	0	0	808?
29	0	0	0	0	0	0	1	1	1	1	2	32	39	38	587	642	313	0	0	0	0	0	0	0	1656
30	0	0	0	0	0	0	0	144	433	208	379	743	752	747	663	526	267	0	0	0	0	0	0	0	4863
Avg	0	0	0	0	0	0	16	101	221	237	291	290	312	320	301	278	105	0	0	0	0	0	0	0	1971?
S D	0	0	0	0	0	0	38	168	298	334	371	383	366	360	325	255	127	0	0	0	0	0	0	0	2400
S/A	0	0	0	0	0	0	2.4	1.65	1.35	1.41	1.28	1.32	1.17	1.13	1.08	0.92	1.21	0	0	0	0	0	0	0	1.22
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Max	0	0	0	0	0	0	158	573	770	846	900	908	903	870	802	656	347	0	0	0	0	0	0	0	7426
n	0	0	0	0	0	0	113	321	264	259	259	261	243	243	263	290	312	3	0	0	0	0	0	0	2836

Daylight Data Recovery: 0.1% missing; 0.0% untested; 22.8% exceed the 15% QC threshold -- 3679 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 06/2002

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

November 2007

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	14	60	63	?	?	?	197 ?	?	?	?	19	2	0	0	0	0	0	0	357 ?
2	0	0	0	0	0	0	4	24	90	219	209	162	153	176	113	71	26	7	0	0	0	0	0	0	1253
3	0	0	0	0	0	0	2	42	139	231	328	380 ?	?	?	?	?	20	2	0	0	0	0	0	0	1144 ?
4	0	0	0	0	0	0	13	31 ?	?	?	?	?	?	?	?	?	20	0	0	0	0	0	0	0	64 ?
5	0	0	0	0	0	0	11	35 ?	?	?	?	?	?	?	56	45	20	0	0	0	0	0	0	0	167 ?
6	0	0	0	0	0	0	42 ?	67	27 ?	65	85	119	82	72	130	101	22	0	0	0	0	0	0	0	812
7	0	0	0	0	0	0	10	31	46	54	60	65	73	82	94	49	17	0	0	0	0	0	0	0	581
8	0	0	0	0	0	0	13	74	120	250	285	308	275	194	169	101	15	0	0	0	0	0	0	0	1805
9	0	0	0	0	0	0	37 ?	58	88	189	162	258	187	72	65	47	8	0	0	0	0	0	0	0	1170
10	0	0	0	0	0	0	12	60 ?	136	76	154	251	280 ?	233 ?	118	65	8	0	0	0	0	0	0	0	1392 ?
11	0	0	0	0	0	0	37 ?	51 ?	?	?	?	?	162 ?	173 ?	99 ?	30 ?	7	0	*	0	0	0	0	0	560 ?
12	0	0	0	0	0	0	7	31 ?	83 ?	?	?	?	?	?	?	?	23	0	0	0	0	0	0	0	144 ?
13	0	0	0	0	0	0	13 ?	40 ?	186 ?	211 ?	?	298 ?	278 ?	240	206	110	37	0	0	0	0	0	0	0	1618 ?
14	0	0	0	0	0	0	10 ?	31 ?	?	131 ?	207	241 ?	?	?	?	?	16	0	0	0	0	0	0	0	636 ?
15	0	0	0	0	0	0	20 ?	52	140	119	84	34	32 ?	28 ?	46	15	3	0	0	0	0	0	0	0	572 ?
16	0	0	0	0	0	0	7 ?	22 ?	?	?	54 ?	55	56	54	63	86	24	0	0	0	0	0	0	0	421 ?
17	0	0	0	0	0	0	6	28	45	55	225	70	67	75	175	95	26	0	0	0	0	0	0	0	865
18	0	0	0	0	0	0	6	30	53	64	67	66	65	61	55	41	10	0	0	0	0	0	0	0	518
19	0	0	0	0	0	0	6	44	128	189	102	213	224	220	160	106	20	0	0	0	0	0	0	0	1411
20	0	0	0	0	0	0	3 ?	20	83	185	295	330 ?	?	?	?	61	22	0	0	0	0	0	0	0	998 ?
21	0	0	0	0	0	0	6 ?	32	60	67	74	81	86	77	77	61	20	0	0	0	0	0	0	0	643
22	0	0	0	0	0	0	5	30	65	72	86	132	245	238	158	111	31	0	0	0	0	0	0	0	1173
23	0	0	0	0	0	0	4	42	138	193	296	323	145	127	145	44	14	0	0	0	0	0	0	0	1472
24	0	0	0	0	0	0	5 ?	23	40	49	59	60	83	136	57	55	22	0	0	0	0	0	0	0	589
25	0	0	0	0	0	0	2 ?	6	16	27	48	69	105	95	37	17	5	0	0	0	0	0	0	0	426
26	0	0	0	0	0	0	5 ?	49 ?	104	189	180	143	93	142	133	72	17	0	0	0	0	0	0	0	1128
27	0	0	0	0	0	0	4	38	142 ?	166	239 ?	266	276 ?	243	162	81	19	0	0	0	0	0	0	0	1636 ?
28	0	0	0	0	0	0	?	21	?	?	?	?	?	?	?	54	28	0	0	0	0	0	0	0	104 ?
29	0	0	0	0	0	0	?	20	48	57	127	247	242	230	77	35	13	0	0	0	0	0	0	0	1096
30	0	0	0	0	0	0	?	30	56	129	134	96	90	75	74	50	18	0	0	0	0	0	0	0	752
Avg	0	0	0	0	0	0	11	37	87	130	155	178	152	138	107	64	18	0	0	0	0	0	0	0	850 ?
S D	0	0	0	0	0	0	11	16	45	71	90	108	84	73	49	28	8	1	0	0	0	0	0	0	491
S/A	0	0	0	0	0	0	0.95	0.42	0.51	0.55	0.58	0.61	0.56	0.53	0.46	0.44	0.42	3.74	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	2	6	16	27	48	34	32	28	37	15	3	0	0	0	0	0	0	0	64
Max	0	0	0	0	0	0	42	74	186	250	328	380	280	243	206	111	37	7	0	0	0	0	0	0	1805
n	0	0	0	0	0	0	86	319	256	257	259	260	233	235	262	288	312	3	0	0	0	0	0	0	2775

Daylight Data Recovery: 0.1% missing; 0.0% untested; 24.4% exceed the 15% QC threshold -- 3679 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2002

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

November 2007

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	15.5	15.9	15.9	15.1	15.2	15.2	14.8	15.2	18.6	21.5	23.2	24.1	24.3	24.5	25	25.5	23.6	20.9	19.5	18.4	17.8	17.5	16.6	15.8	19.1
2	15.1	14.3	14	14.1	15.9	15.7	15.8	15.8	16	16.2	15.7	15.3	15.2	15.1	15.1	14.9	14.9	14.7	14.8	14.9	15.1	14.3	13.5	13.4	15
3	13.4	13.5	13.3	13.7	13.4	12.7	12	11.9	11.7	11.8	13	14.2	16	17.7	18.3	18	17.1	15.2	13.9	12.3	11	9.5	9.2	8.8	13.4
4	8.6	7.8	8.4	8.6	7.6	6.4	6.2	7.7	11.7	13.9	15	16.5	17.2	17.9	18	17.5	16.3	14.4	12.3	11.8	11.2	10.4	9.3	8	11.8
5	7.5	8	7.9	7.4	7.2	6.1	6	7.3	9.4	11.3	13.9	16.1	17	17.4	17.6	17.4	16.7	14.5	13.5	12.8	12.1	12	11.5	12	11.8
6	12.3	12.5	12.8	13.3	14.1	14.2	14.7	15.6	15.9	14.8	13.4	14.1	14.3	13.7	13.1	12.3	12.2	10.7	9.5	9.3	7.9	7.9	7.2	5.9	12.2
7	4.9	4.4	3.9	2.7	2.2	2	1.8	2.7	5.3	8.5	9.8	11.1	11.9	12.5	12.6	11.9	11.3	9.7	8.6	7.5	7	6.6	5.9	5.3	7.1
8	4.5	3.6	4	4.2	4.2	3.9	3.5	4.2	6.9	9.2	9.9	10.5	10.7	11.2	11.6	11.5	10.4	8.4	7.7	7.3	7	7.3	6.9	6.5	7.3
9	6	5.7	5.7	5.9	6	5.7	5.6	6.5	7.3	8.7	9.4	10.3	11	12.7	13.3	12.5	11.3	9.3	8	7.4	6.8	6.2	6.1	6.9	8.1
10	7	6.9	6.9	7.2	7.5	8	8.1	8	8.8	8.3	9	10.6	10.2	10.6	9.9	9.5	9.2	8.4	7.4	6.8	6.3	6.2	5.9	5.6	8
11	5.4	4.9	4.5	3.6	2.8	3	2.8	4.4	7	8.7	10.1	10.9	11.3	11.4	11.3	11.1	9.4	8.1	7.6 *	7	6.2	5.2	4.6	4	6.9
12	4.8	5.1	5.7	6.2	6.5	6.8	6.4	6.7	9.1	11	12.6	13.8	15	16.1	16.6	17.3	16.6	15	13.5	12.8	12.6	11.9	11.7	11.5	11.1
13	11.1	11	11.4	11.6	11.9	11.9	12	12.3	14.2	16.4	18.2	19.7	20.4	20.5	21.2	20.9	20.4	19	17.9	17	16.5	16	15.4	14.7	15.9
14	14.2	13.7	13.4	13.2	13.1	12.8	12.9	13.6	15.6	16.7	17.3	18.6	20.8	22.7	23.3	23.2	21.8	19.9	18.9	18.3	17.8	17.3	16.9	16.7	17.2
15	16.6	16.5	16.3	16.3	15.9	16.1	16.2	16.7	17.6	18.3	18.2	16.1	12.6	9.5	7.8	6.4	6.1	6.2	5.8	5.2	5.3	5.2	4.7	4.1	11.7
16	3.9	3.4	3.3	3.1	2.9	3	3	3.4	4.8	6.8	8.3	8.9	9.8	10	10	9.7	8.8	7.2	5.9	4.7	4.2	4	3.3	2.5	5.6
17	2	1.3	1	0.4	0.7	0.4	0.3	1	5.4	8.2	9.3	10.3	10.7	11.2	11.4	10.9	10.5	10.1	9.8	9.7	10.1	10.4	10.8	11.1	7
18	10.9	10.2	9.5	8.2	7.7	7.3	7.3	7.6	9	11.4	13.7	15.9	17	17.6	17.9	17.7	16.3	14.6	12.8	11.1	10.9	10.6	10.6	11.3	12
19	11.3	11	10.6	10.5	9.8	9.6	9.6	9.4	10.8	12.9	14.9	16.1	16.7	16.8	15.9	14.3	12.4	11.5	11.2	10.5	9.9	9.1	8.5	8.4	11.7
20	7.6	6.2	6.3	6.8	7.4	7.6	7.9	8.3	8.8	9.8	11.5	14.4	16	17.1	18.9	19.6	18.5	17.1	16.1	15.4	14.6	14	13.6	13.1	12.4
21	12.5	11.5	10.7	10.7	10.6	10.3	10.1	10.6	12.9	16.1	18.9	21.1	22.5	23.1	23.6	23.4	22.1	19.9	18.9	17.7	17.2	16.9	16.5	16.6	16.4
22	16.6	16.4	16	16	15.7	15.6	15.8	16.3	17.8	19.5	21.8	23.1	23.8	23.9	23.8	23.4	22.8	21.8	21.1	20.2	19.4	18.8	13	12.6	19
23	12.3	10.9	10.1	9.2	8.5	7.9	7.5	7.2	7.5	7.8	8.1	8.3	8.9	9.1	8.8	8.4	7.9	6.8	5.9	5.2	4.8	4.4	3.8	3	7.6
24	2.5	2.1	1.9	1.8	2.4	2.3	2.2	2.6	4.2	5.8	7.3	8.4	8.6	8.9	8.8	8.5	7.5	7.1	7	6.6	6.1	5.5	5.2	5.3	5.4
25	5.3	5.9	6.3	6.6	7	7.2	7	7.1	7.4	7.8	8.3	9	9.9	10.6	10.6	9.4	9.2	9.5	9.9	10.1	10.5	10.8	10.5	10.5	8.6
26	11.2	11.8	12.4	12.7	14	14.9	14.7	15	16.4	18.2	19.7	20	19.7	19.5	20	20	19.6	19	19.1	19.2	19.2	19.3	19.4	20.1	17.3
27	19.7	19.3	18.9	18.6	18.9	19	18.9	18.5	19	18.6	18.9	18.9	18.7	18.1	17.8	16.8	14.2	13.1	12.1	11.2	9.8	8.4	7.8	7.1	15.9
28	7	6.4	6	5.9	5.7	5.5	5.5	5.9	8.7	9.7	10.5	11	10.8	10.7	10.2	9.7	8.8	7.6	6.9	6.2	5.6	5.1	4.4	3.6	7.4
29	3.9	4.2	4.5	4.8	5.6	6.3	6	6.6	7.2	8.2	9.7	12.2	13.7	14.2	15	15.6	15	13	11.5	11	10.8	10.2	10	9.7	9.5
30	8.8	8	7.4	8	7.5	6.9	6.1	6.2	7.3	8.2	9.1	10.2	10.8	11.1	11.1	10.3	9.4	8	7	6.5	5.8	5.1	3.6	2.6	7.7
Avg	9.4	9.1	9	8.9	8.9	8.8	8.7	9.1	10.7	12.1	13.3	14.3	14.8	15.2	15.3	14.9	14	12.7	11.8	11.1	10.6	10.2	9.5	9.2	11.3
S/D	4.7	4.8	4.7	4.8	4.9	4.9	5	4.8	4.5	4.4	4.5	4.6	4.7	5	5.3	5.1	4.8	4.7	4.7	4.7	4.7	4.7	4.5	4.8	4.1
S/A	0.5	0.52	0.52	0.54	0.54	0.56	0.58	0.53	0.42	0.36	0.34	0.31	0.31	0.31	0.33	0.35	0.36	0.38	0.4	0.42	0.44	0.46	0.47	0.52	0.36
Min	2	1.3	1	0.4	0.7	0.4	0.3	1	4.2	5.8	7.3	8.3	8.6	8.9	7.8	6.4	6.1	6.2	5.8	4.7	4.2	4	3.3	2.5	5.4
Max	19.7	19.3	18.9	18.6	18.9	19	18.9	18.5	19	21.5	23.2	24.1	24.3	24.5	25	25.5	23.6	21.8	21.1	20.2	19.4	19.3	19.4	20.1	19.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635

Data Recovery: 0.1% 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.

November 2007

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	105 ?	?	?	?	?	?	?	?	101.2 ?	93.7	82	70.6	66.8	65	60.4	56.5	70.4	93	100.1	102.9 ?	?	?	100.6	92.7	84 ?
2	83.5	76	79.6	85.3	82.9	85.8	86.6	86.6	87.1	82.7	82.4	84.4	84.3	83.8	84.5	82.7	82.8	84.4	86	87.1	89.5	93.4	100	103.9	86
3	103.5 ?	102.5	102.4	98.1	99.3	98.2	98.9	97	96.1	93.3	85.3	79.8	76.1	72.9	70	68.6	65.3	67.6	69.8	76.7	82.2	90.4	91.2	91.8	86.5
4	92.7	96.4	88.1	81.1	86.3	92.3	94.3	89	74.6	62.9	54.8	47.4	42	40.3	40.9	43.7	51.8	61.6	74.5	70.9	72.5	76.6	83.5	91	71.2
5	93.2	92.9	93.6	99.6	103.7	104.3 ?	?	102.8	89.3	80.3	67.6	54.2	46.4	44	41.7	40.6	44.9	56.3	60.5	68.6	79.3	80.8	87.6	83.6	74.6
6	83.1	81.5	80	80.8	78.8	80.5	78.2	74.7	73.1	82.1	96.6	90.8	84.6	87.6	92	95	93	99	102.8	81.6	71.7	61.7	61.6	66.5	82.4
7	69.8	70.4	70.3	77	78.1	79.2	80	76.7	69.7	62.1	59.3	57.2	52.1	48.8	49.1	47.6	51.5	60.2	65.7	71.4	74.4	78.4	81.7	82.7	67.2
8	86.5	91.3	90.5	88.4	88	91.6	95	93.6	85.1	73.7	69.5	56.5	56.6	52.7	53.5	54.2	59.8	80.4	85.6	88.3	87.2	83.9	84.6	86.6	78.5
9	90.4	92.6	92.8	91.3	90.9	92.3	93.8	91.8	87.7	72.9	69.2	63.9	59	59.1	57.2	58.8	63.5	71.6	83.1	87.8	94	97.5	97	89.3	81.1
10	95.4	103.4	?	?	?	?	?	?	104.2	104.6	101.6	91	93.9	87.7	85.1	83.6	84.4	85.9	90.9	94.8	96.8	97.8	99.3	100.4	94.5 ?
11	99.1	99.3	99.7	102.1	104.5	104.4	105 ?	101.4	90.2	84.3	79.1	71.4	70	71.1	72	73.2	82.3	88.1	90.8 *	93.3	98.4	102.5	104.1	?	90.7
12	104.6 ?	103.9	103.1	102.9	101.6	101.8	104.3 ?	103.3 ?	94.5	76.8	68.8	65.5	62.4	58.5	58.1	58.4	62.6	70	77.2	79.9	80.5	82.5	82.4	83.1	82.8
13	86.3	87.9	86.6	86.2	85.3	85.4	85.2	84	77.3	69.4	62.7	59.7	59.6	63.3	65.4	68.8	71.8	77.6	82.6	87	89.1	93.6	99.1	102.9	79.9
14	103.9	103.3 ?	?	?	?	?	103.9 ?	100	92.5	87.7	83.7	80.9	73.5	66.9	65.2	66.8	73.6	82.5	87.7	92.1	96.2	98.6	100.5	100.2	88 ?
15	100.1	100.5	101.5	101	101.3	100.3	99.8	98.5	96.3	93.4	94.9	103.4	104.3 ?	?	105 ?	104.5 ?	104.6 ?	104.1 ?	?	?	103.3 ?	100.3	97.7	95.7	100.5 ?
16	92.2	92.1	92.9	93.6	94	92.2	91.6	89	82	71.6	59.4	55.5	50.4	48.2	46.4	48	50.3	57.7	63.2	70.5	73.5	73.7	75.8	80.5	72.7
17	83.5	87	91.1	94.5	91	93.5	94.8	94.2	75.5	54.8	50.2	47.4	47.4	47	48.8	55.3	66.8	66.4	67.9	76	80.6	82	83.5	82.3	73.4
18	80.8	83.6	88.1	95.9	97.5	98.6	97.1	93.7	86.6	75.6	65.5	51.7	47.8	44.7	44.5	46.3	53.1	61.2	72.3	89.1	92	94.8	95.7	93.3	77.1
19	96.8	99.5	100.6	99.6	102.7	103.4	104.2	103.7	99.3	90.8	78.8	72.1	74.2	76	81.9	92.9	99.7	102.5	102.5	103.5	104.6	?	?	?	94.7 ?
20	?	?	?	?	?	?	?	?	?	?	101.9 ?	91.9	87.9	85.4	79.6	77.2	81.9	87.9	92.9	96	98.1	99.6	100.9	102.3	91.7 ?
21	103.7	?	?	?	?	?	?	?	?	101.9 ?	94.2	81.8	70.2	61.9	58.8	57.3	57.5	62.6	70.7	73.4	80.6	92.6	97.8	98.9	80.1 ?
22	96.9	93.2	91.9	91.6	95.9	98.7	98.4	97.2	92	86.2	74.5	67.6	66.6	70	72.6	73.4	75.1	78.2	81.5	85.6	90.3	91.4	97.2	90.3	85.7
23	72.3	72.8	65.5	62.3	65	65.9	65.8	66	66.4	67.2	66.2	64.1	59.4	56	56	55.7	56.6	61.7	64.1	66.1	66.2	68.3	71	74.9	64.8
24	76.7	79.3	80.3	79.9	79	76.2	72.7	69.2	60.3	56.9	59.9	62.5	62.4	60.6	64.8	67	75.3	79.7	81.8	85.5	87.8	89.9	91.2	91.5	74.6
25	91	89.7	90.3	92.7	93	93.6	99.1	101.3	96.1	92.5	91.1	85.7	81.4	79.2	86	101.5	104.8 ?	?	?	?	?	?	?	?	92.3 ?
26	?	?	?	?	?	?	?	?	?	?	104.4 ?	104.8 ?	?	?	?	?	?	?	?	?	?	104.7	103.8	99.5	103.5 ?
27	100.3	103.9	?	?	?	104.9 ?	103.5	101.6	98.8	89.2	75.3	75	64.2	62.8	63.8	68.1	81.1	82.7	88.8	93.6	96.9	100.2	100.9	100.6	88.4 ?
28	100.8	102	100.8	92.2	85.4	85.1	86.1	87.9	77.3	69.9	62.3	60.1	60.7	59	58	63.5	75	80.5	82.8	84.7	86.5	89.7	93.2	96.6	80.8
29	97.5	98.6	100.2	100.4	102.5	104.6	104.7	102.6	102.6	102.2 ?	?	101.8 ?	91.1	78.1	68.4	62.6	63.2	71.1	77.9	80	80.3	82.9	84.2	84.9	88.8
30	88.2	90	85.4	74.5	75.5	75.2	72.2	63.4	54.2	55.3	50.3	49.5	48.2	47.6	48.2	54.2	57.8	68.1	77.5	79.7	81.9	84.5	93.7	97.4	69.7

Avg	92.1	92.1	90.2	90	90.5	92	92.3	90.8	86.1	79.5	75.1	71.2	66.7	63.4	64.7	66.4	71.2	76.8	80.9	84.2	86.9	88.8	91.5	91.2	82.9 ?
S D	9.9	10	10.1	10.4	10.7	10.8	11.5	12.2	13.4	14	15.5	16.9	16	14.1	16.2	17	16.2	13.4	11.7	10	10.2	10.9	10.6	9.2	9.6
S/A	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.16	0.18	0.21	0.24	0.24	0.22	0.25	0.26	0.23	0.17	0.14	0.12	0.12	0.12	0.12	0.1	0.12
Min	69.8	70.4	65.5	62.3	65	65.9	65.8	63.4	54.2	54.8	50.2	47.4	42	40.3	40.9	40.6	44.9	56.3	60.5	66.1	66.2	61.7	61.6	66.5	64.8
Max	105	103.9	103.1	102.9	104.5	104.9	105	103.7	104.2	104.6	104.4	104.8	104.3	87.7	105	104.5	104.8	104.1	102.8	103.5	104.6	104.7	104.1	103.9	103.5
n	317	305	276	276	275	266	274	290	322	331	335	346	344	336	338	340	330	332	319	320	315	324	334	324	7573

Data Recovery: 0.1% missing; 0.0% untested; 12.3% 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.

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

November 2007

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	14.6	14.6	14.8	14.8	14.5	14.5	14.6	14.7	16.7	20.9	25.5	28.5	29.8	29.2	29.3	29.6	28.6	25.1	21.3	19.1	17.9	17.5	17.1	16	20.4
2	15.3	14.6	13.9	13.4	13.9	14.8	15.1	15.6	16.1	16.9	17.4	17.2	17	16.7	16.6	16.3	16	15.6	15.4	15.4	15.4	15.4	14.5	13.7	15.5
3	13.5	13.4	13.4	13.3	13.7	13.6	13.2	12.5	12.7	13.1	14.1	15.7	18.1	19.9	21.1	21.4	20.6	18	14.8	12.3	10.5	9	7.5	7	14.3
4	6.3	5.9	5.6	5.7	5.4	4.5	3.9	4.8	8.9	13.7	16.9	19.5	21.5	22.4	22.6	21.8	20.2	16.9	12.9	10.2	9.2	8.6	7.6	6.3	11.7
5	5.3	4.9	4.9	4.6	4.8	4.7	4.2	4.9	7.8	11.6	15.1	18.1	19.9	20.7	20.7	20.6	19.7	16.9	13.5	11.8	10.9	10.1	9.7	9.4	11.5
6	9.9	10.4	10.7	11	11.7	12.5	13	14.4	15.8	15.6	14.5	13.8	14.6	14.9	14.9	14.4	14.5	12.6	9.7	8	6.9	5.9	5.7	4.8	11.7
7	3.6	2.8	2.3	1.5	0.6	0.2	0	0.9	4.2	8.3	11.7	13.7	15.4	16.2	16.6	16.2	14.8	11.9	9.1	7.2	5.5	4.9	4.4	3.6	7.3
8	2.8	2.2	1.8	2.1	2.4	2.4	2.1	2.6	5.3	8.9	11.1	12.3	13.1	14.1	14.8	14.7	13.6	10.5	8.3	6.8	6.2	6.3	6.2	5.9	7.3
9	5.6	5.1	4.7	4.9	5.2	5.2	4.9	5.1	6.3	7.7	9.5	10.7	12.3	14.7	16.6	16.8	14.8	11	8.3	6.3	5.5	4.6	4.1	4.3	8.1
10	5.5	6.2	6.5	6.8	7.1	7.4	7.6	7.9	9	9.3	9.4	10.9	12.4	13.1	13.3	11.8	10.7	9.5	7.7	6.5	5.7	5.6	5.8	5.5	8.4
11	4.6	4.1	3.6	3.1	2.3	1.8	1.4	2.5	5.7	9.2	12.2	14.5	15.5	15.8	15.6	14.5	12.8	9.6	7.6 *	6.4	5.1	4	3.1	2.6	7.4
12	3.1	3.6	4.4	5.1	5.8	6.3	6.1	5.7	7.9	11.2	14.2	16.4	17.9	18.9	19.3	19.6	19.3	17.2	14.7	12.9	12.2	11.7	11.2	11.1	11.5
13	10.9	10.8	10.8	11.1	11.3	11.5	11.7	12	13.5	16.3	19.3	21.3	22.2	23.1	23	22.8	22.1	20.6	18.7	17.3	16.4	16.1	15.8	15.2	16.4
14	14.5	14	13.5	13.3	13.1	12.5	12.4	12.7	14.8	17.3	19.3	20.1	22.5	24.7	26	26.3	25.3	22.3	19.9	18.5	17.8	17.4	16.9	16.5	18
15	16.2	16	15.9	15.9	15.7	15.5	15.5	15.9	16.8	18.1	18.7	17.7	15.8	13	10.6	8.6	7.1	6.4	6	5.4	4.8	4.3	3.7	3.1	11.9
16	2.6	2.5	2.3	2.1	1.9	1.8	1.8	2.4	4.6	7.4	10.1	12	13.1	13.7	13.5	13.1	11.7	9	6.2	4.3	2.8	2.3	2	1.5	6
17	0.7	-0.4	-0.7	-0.8	-1.2	-1.5	-1.7	-1.6	1.9	7.5	11.5	14.5	15.5	15.4	15	14.1	12.4	10.9	10	9.5	9.5	9.7	10.1	10.4	7.1
18	10.6	10	9.1	7.7	6.3	5.6	5.3	5.8	8.3	11.8	15.4	18.9	21.1	21.8	21.6	21	19.3	15.9	13.3	11.6	10.4	9.8	9.7	9.7	12.5
19	10.2	10.3	10.2	10	9.6	9.3	9.1	9.2	10	12.2	15.5	18.8	19.3	19.8	19.2	17.9	15.9	13.4	12.3	11.4	10.2	9.1	8.2	8	12.5
20	7.5	6.7	6.2	6.2	6.8	7.3	7.7	8.2	8.7	9.7	11.2	14.3	17.3	19.1	20.2	21.2	20.9	18.8	16.8	15.6	14.7	14.1	13.4	12.9	12.7
21	12.3	11.4	10.5	10	9.7	9.7	9.5	9.6	11.6	15	19.1	22.8	25	25.9	26.1	26	24.7	21.8	19.2	17.8	16.8	16.3	16	15.8	16.8
22	15.8	15.9	15.6	15.4	15.3	15	15	15.3	17.3	20.1	22.7	24.7	25.7	25.9	25.6	25.1	24.5	23.2	22.1	21.1	20.2	19.7	17.4	14.3	19.7
23	13.3	12.6	11.7	10.9	10.1	9.3	8.6	7.9	8	8.9	10.2	10.9	11.8	12.6	12.5	11.5	10.7	8.4	6.2	4.8	3.9	3.2	2.5	1.7	8.8
24	1	0.5	0.1	-0.2	-0.1	0.4	0.5	0.8	3.1	6.3	9.2	11.6	12.9	13.1	13.1	12.7	10.9	8.8	7.8	7	6	5.3	4.7	4.5	5.8
25	4.6	5	5.6	6.2	6.8	7.2	7.3	7.1	7.1	7.4	8	8.8	9.8	10.9	11.6	11	10.2	9.9	10	10.3	10.6	10.8	10.6	10.4	8.6
26	10.4	10.9	11.5	12.3	13	13.9	14.4	14.6	15.7	17.3	19.3	20.6	20.7	20.3	20.4	20.5	20.3	19.8	19.5	19.4	19.4	19.4	19.4	19.6	17.2
27	19.8	19.7	19.5	19.1	18.9	18.8	18.7	18.5	19.2	20	20.4	21.4	21.6	21.6	20.7	19.7	17.4	14.9	13	11.1	9.2	7.3	6.2	5.4	16.8
28	4.9	4.7	4.2	3.7	3.1	2.8	3.1	3.7	6.4	10	12.4	14.2	15	14.9	14.6	13.7	12.3	9.4	7.2	5.9	4.8	3.9	3.2	2.5	7.5
29	2.1	2.6	3.4	3.8	4.4	4.8	5.6	6.5	7.4	8.3	9	10.4	12.8	14.5	15.6	16.8	16.9	14.5	11.9	10.3	9.6	9.3	8.8	8.6	9.1
30	8.2	7.6	6.6	6.3	6.4	6	5.4	5	6.2	8.5	9.7	12.1	14.3	15.3	15.5	14.9	13.1	9.9	7.2	5.4	4.6	3.9	2.7	1.2	8.2
Avg	8.5	8.3	8.1	8	8	7.9	7.9	8.2	9.9	12.3	14.4	16.2	17.5	18.1	18.2	17.8	16.7	14.4	12.4	11	10.1	9.5	8.9	8.4	11.7
S D	5.2	5.3	5.2	5.2	5.3	5.4	5.5	5.4	4.8	4.4	4.6	4.8	4.8	4.7	4.8	5.1	5.3	5.1	4.9	5	5.1	5.3	5.2	5.2	4.3
S/A	0.62	0.64	0.65	0.65	0.66	0.68	0.69	0.65	0.48	0.36	0.32	0.29	0.27	0.26	0.26	0.29	0.32	0.35	0.4	0.45	0.51	0.55	0.58	0.62	0.37
Min	0.7	-0.4	-0.7	-0.8	-1.2	-1.5	-1.7	-1.6	1.9	6.3	8	8.8	9.8	10.9	10.6	8.6	7.1	6.4	6	4.3	2.8	2.3	2	1.2	5.8
Max	19.8	19.7	19.5	19.1	18.9	18.8	18.7	18.5	19.2	20.9	25.5	28.5	29.8	29.2	29.3	29.6	28.6	25.1	22.1	21.1	20.2	19.7	19.4	19.6	20.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635

Data Recovery: 0.1% 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

November 2007

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	1.1	1.2	0.1	0.1	0.3	0.1	0	0	0	0.6	0.8	1.2	1.5	1.8	1.3	0.6	1.2	0.8	0.5	0.5	0.8	1.9	4.5	4.4	1.1
2	4.9	4.2	3.8	3	5.2	5.6	6.2	6.1	6.1	7.6	7.6	6.8	6.9	7.6	6.9	7.6	7	6.5	6.5	6.2	6.5	5.9	6.2	5.8	6.1
3	5.4	5.9	6.2	5.8	4.8	5.2	4.5	4.5	4.6	4.4	3.8	3.8	4.2	3.8	3.6	3.2	2.6	1.8	1.1	1.3	1.1	0.6	1.2	0.8	3.5
4	0.6	1	0.9	0.5	0.2	0	0.5	0.8	1	2.8	2.3	1.4	1.1	0.8	1.7	2.3	2	0.3	0.1	0.5	0.8	0.5	0.1	0.1	0.9
5	0.1	0.3	0	0.2	0.1	0	0	0.9	2.4	2.2	2.7	2.9	3.1	3.3	3.1	2.9	1.6	0.4	1	1.1	0.9	1.1	1	1.4	1.4
6	1.8	2.1	2.8	3.1	3.7	3.8	4.3	4.6	4.6	4.3	3.2	3.2	2.6	2	2.5	1.8	0.9	0.1	0.4	1.3	1.2	2.3	1.5	1	2.5
7	1.5	1.6	0.9	1	1.2	1.5	1.7	2.2	1.7	2.5	4.1	3	3.1	2.7	2.2	3.5	2.2	1.6	1	0.3	0.5	0.8	0.3	0.3	1.7
8	0.5	0.7	1.7	1.5	1.4	1.2	1.2	1.3	1.6	2.4	1.7	1.9	1.8	1.9	1.5	1.2	0.9	1.4	0.7	0.7	0.6	0.3	0.1	0.4	1.2
9	0.6	0.7	0.9	0.9	0.2	0.1	0.2	0.4	0.5	1.9	1.6	1.5	1.5	0.6	0.5	0.7	0.2	0.5	0.1	0	0	0	0.2	0.5	0.6
10	0.1	0	0	0	0.2	0.3	0.5	1.4	1.9	2.3	3	4.6	4.4	4.9	4.3	3.8	2.8	2.4	2.1	1.9	1.6	1.2	1.2	1.6	1.9
11	1.9	1.7	1.4	1.5	1.4	0.4	0.4	1.6	3.2	3.7	2.8	2.7	2.3	2.1	2	1.6	1.5	0.9	0.4 *	0.1	0	0	0	0.1	1.4
12	0	0	0	0	0	0.1	0.1	0.8	1.7	3	3.4	3.5	3.5	3.9	4	2.4	2.1	1.4	0.4	1.1	1.3	0.9	1.6	2	1.6
13	1.7	1.6	1.9	2.5	2.5	2.7	2.8	2.8	3.3	4	4.2	3.8	3.7	2.6	2.9	2.5	1.5	0.6	0.1	0.3	0.3	0.7	0.1	0.2	2.1
14	0.3	0.1	0.3	0.4	0.4	0	1.1	1.5	1.8	1.7	1.6	2	2.5	2.5	2.6	2	1.5	1.5	1.4	2.2	2.5	2.5	2.4	2.7	1.6
15	2.5	2.5	3	3	2.7	3.2	3.3	3.9	3.7	4.4	5.3	5.3	4.4	4.6	5.9	4.6	2.3	1.5	1.5	2	2.3	2.1	2.6	2.5	3.3
16	3.2	3.4	3.1	2.6	2.8	3.2	3.2	3.2	3.3	3.8	4.3	4	3.8	3.9	4	3.3	1.8	1	0.9	0.7	0.9	1.3	1.1	0.9	2.7
17	0.1	0	0.8	1.1	0.5	0.2	0.1	0	0	0.9	1	1.6	2.2	3	2.6	2.1	0.7	1.5	1.6	1	0.5	1	0.9	1.3	1
18	0.9	0.7	0.8	0.1	0.2	0.3	1	1	1.3	1.2	0.7	0.6	1.4	1.9	2.3	2.2	1	0.5	1.1	0.6	0.5	0.8	0.2	1.2	0.9
19	0.3	0.1	0.2	0.1	0.1	0.2	1	0.6	0.3	0.5	1.5	1.6	1.6	2.3	2.1	3.2	2.6	2.8	2.9	1.9	0.8	0.1	0.5	0.3	1.1
20	0.2	0.4	0.3	0.4	0.6	0.1	0.4	0.9	1.3	2.3	2.4	3.6	4.1	4.2	3.6	3.8	2.9	1.6	1.4	1.8	1.8	1.9	1.5	0.8	1.8
21	0.6	0	0.1	0	0.1	0.1	0.1	0.1	1.2	1.4	1.8	2.5	3.3	4.2	3.5	2.7	1	0.8	1	1.4	1.7	2	1.9	2.2	1.4
22	2.3	2.3	2.2	2.6	2.3	2.2	2.6	2.5	3.3	3.8	6.3	6.5	6.6	6.2	4.7	5.1	4	3.4	2.2	0.7	1.3	3.1	4.7	3.9	3.5
23	4.8	4.6	4.8	4.1	4.4	4.4	4.1	3	3.5	4.3	4	3.3	3.1	4.1	4	3.9	3.2	2.8	2.3	2.5	2.2	1.6	0.9	0.9	3.4
24	0.8	1.2	0.8	1.3	2.4	2.4	1.9	1.4	3	3.1	2.7	2.8	3.5	2.4	3	2.1	1.7	1	0.7	0.4	0.5	0.6	0.9	0.6	1.7
25	1	1.1	1.7	1.3	0.9	0.6	0	0.1	0.2	0.6	1.4	2	1.7	1.6	1.5	0.4	0.3	0.5	0	0.4	0.6	0	0	0	0.7
26	0.6	0.3	0.2	0.4	1.1	0.7	0.3	0	0.2	0.5	1.8	2	2.1	2.8	2.3	2.6	3.2	2.6	2.6	3	3.5	3.9	4.3	4.4	1.9
27	4.3	4.3	3	2.3	2.5	3	3.1	2.9	3.7	3.6	3.3	3.5	3.7	2.7	1.9	1.6	1.6	1.2	0.8	0.1	0	0	0.2	0.3	2.2
28	0.5	0.4	0.4	0.4	0.3	1.1	1.6	2.1	2.4	3.4	4.1	3.9	3.8	3.6	3.6	3.1	2.6	1.5	1.7	0.7	0.5	0	0	0	1.8
29	0	0	0.1	0.1	0	0	0.2	0.5	1.1	1.2	1.4	2.3	3.4	2.4	2.9	3	1.5	0.9	0.9	1.4	1.6	1.5	2	2	1.3
30	1.8	1.7	1.7	1.8	1.8	1.5	1.5	1.9	2.7	3.2	3.1	2.5	2.2	1.7	1.5	2.2	1.1	0.9	0	0.2	0.1	0	0	0	1.5
Avg	1.5	1.5	1.5	1.4	1.5	1.5	1.6	1.8	2.2	2.7	2.9	3	3.1	3.1	3	2.7	2	1.5	1.3	1.2	1.2	1.3	1.4	1.4	1.9
SD	1.6	1.6	1.6	1.4	1.5	1.7	1.7	1.6	1.5	1.6	1.6	1.5	1.4	1.5	1.4	1.4	1.3	1.2	1.3	1.2	1.3	1.3	1.6	1.5	1.1
S/A	1.06	1.07	1.06	1.02	1.04	1.14	1.04	0.88	0.7	0.58	0.55	0.48	0.45	0.49	0.47	0.52	0.66	0.83	1.01	1.01	1.05	1.03	1.15	1.06	0.59
Min	0	0	0	0	0	0	0	0	0	0.5	0.7	0.6	1.1	0.6	0.5	0.4	0.2	0.1	0	0	0	0	0	0	0.6
Max	5.4	5.9	6.2	5.8	5.2	5.6	6.2	6.1	6.1	7.6	7.6	6.8	6.9	7.6	6.9	7.6	7	6.5	6.5	6.2	6.5	5.9	6.2	5.8	6.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635

Data Recovery: 0.1% 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

November 2007

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	135	136	128	80	130	39	30	32	138	163	315	345	11	12	25	35	102	151	84	76	81	59	56	62	59
2	63	58	53	60	84	84	85	85	87	87	85	83	76	73	68	63	63	65	63	55	54	42	45	41	69
3	41	36	37	37	23	22	20	13	11	14	359	344	350	352	336	336	337	336	337	331	292	267	287	281	9
4	292	359	337	340	334	320	350	354	15	39	46	19	316	337	277	280	283	280	269	279	279	294	263	237	333
5	246	269	256	49	64	330	228	281	315	317	306	310	302	303	301	296	274	235	214	210	232	244	244	252	290
6	256	250	240	250	246	249	250	252	261	282	278	298	331	355	41	59	102	25	352	343	351	6	1	354	281
7	355	352	322	336	340	348	350	351	1	22	38	34	38	36	48	37	39	46	57	55	44	49	29	24	23
8	10	6	17	20	19	23	19	17	32	54	45	22	34	22	27	49	60	92	79	67	49	63	44	35	35
9	33	30	47	42	24	1	8	23	24	41	38	10	21	19	182	228	266	278	301	356	151	210	176	169	29
10	276	245	207	154	166	155	40	21	16	17	28	38	29	30	17	19	15	10	9	5	7	1	353	3	20
11	17	10	2	345	2	11	6	11	32	34	38	55	48	66	83	78	101	107	99 *	103	356	127	0	279	40
12	0	285	316	0	286	303	233	273	272	275	277	278	267	276	276	268	273	273	267	261	268	266	266	272	273
13	273	268	271	273	274	272	274	272	279	286	289	292	291	291	311	318	314	277	318	306	293	22	74	183	286
14	178	52	180	214	220	209	186	195	211	254	245	230	227	230	223	230	238	251	232	221	235	236	243	242	230
15	248	238	238	247	236	244	242	244	248	255	266	294	7	37	28	16	30	353	321	308	336	337	334	328	298
16	323	322	320	317	318	324	327	326	332	347	348	351	356	340	330	339	346	342	321	285	319	324	335	326	333
17	340	321	309	312	333	334	346	0	177	160	171	228	232	224	218	190	181	196	192	184	194	204	238	250	217
18	256	248	255	264	260	269	279	287	305	325	276	205	220	288	296	310	300	323	40	84	82	178	185	144	283
19	148	155	174	179	270	68	65	49	47	272	7	41	27	26	48	61	57	70	57	51	60	97	28	20	50
20	301	309	314	350	334	353	329	320	274	274	279	274	279	283	294	304	304	283	290	294	297	302	305	295	291
21	281	251	241	263	203	174	227	251	256	252	248	261	268	272	277	272	252	243	242	217	232	238	243	246	256
22	248	250	250	248	239	245	245	242	244	255	268	270	274	274	264	270	274	272	263	254	249	360	60	60	267
23	55	56	50	42	51	50	47	35	38	39	39	41	25	28	34	38	41	44	47	48	40	33	17	16	42
24	9	18	9	25	48	50	45	40	54	59	71	88	75	90	99	108	106	88	72	42	29	11	29	41	64
25	30	37	52	57	59	78	0	58	56	54	80	89	101	99	115	113	138	156	108	129	150	141	0	152	83
26	162	182	201	227	210	223	256	224	260	248	228	237	230	222	236	232	220	220	230	229	231	237	228	229	228
27	241	250	247	250	265	280	282	282	291	331	339	336	346	350	340	57	101	99	93	40	0	0	329	338	298
28	315	286	333	347	14	35	51	63	78	73	88	98	103	107	101	97	107	88	62	50	57	55	10	0	85
29	41	333	14	352	4	148	312	343	331	305	275	320	321	321	300	306	293	270	267	272	279	274	283	310	301
30	309	336	1	25	31	36	33	34	54	75	92	97	102	100	124	135	130	120	116	52	41	7	0	0	66
Avg	347	349	349	345	353	353	347	338	342	358	351	343	348	350	349	356	13	30	28	345	326	331	347	336	343
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635

Data Recovery: 0.1% 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

November 2007

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	1.7	2	0.5	0.2	0.6	0.2	0	0.1	0.3	1.4	2.5	2.8	3.3	4	3	2.1	2.4	1.4	1.2	1.5	1.8	3.6	7.9	7.6	2.2
2	8.7	7.3	6.4	5.6	9.1	9.4	10.9	10.3	10.7	13.6	13.3	12.2	12.8	13.3	12	13.4	12.4	11.7	11.7	10.4	11.8	10.2	10.8	10.1	10.7
3	9.5	10.7	10.9	10.6	9.5	10	8.6	8.8	9.4	8.5	7.3	7.4	8.4	7.8	7.2	6.3	5.2	3.4	2.4	2.3	1.7	1.1	1.7	1.2	6.7
4	1.1	2.1	1.7	1.3	0.6	0.3	0.9	1.7	2.5	5.2	4.4	3.4	2.8	2.3	3.2	3.8	3	0.7	0.2	1	1.3	1	0.3	0.4	1.9
5	0.3	0.7	0.1	0.5	0.2	0.1	0.2	1.6	4.1	4.1	4.6	4.9	5.4	6.1	5.7	5	2.4	1	1.8	1.9	1.7	2.2	1.9	2.8	2.5
6	3.1	4	4.8	5.4	6.5	6.6	7.4	7.9	8.2	7.2	5	5.6	5.4	4.6	4.3	3.4	1.8	0.5	1	3	2.4	4.8	3.3	2.4	4.5
7	3	3.2	1.8	1.8	2.2	2.9	3.2	4.3	3.8	5.5	7.3	5.9	5.9	5.5	4.6	6.3	4.1	3.1	2.3	1.1	1.6	1.6	1.2	1	3.5
8	1.4	1.5	3.2	3	3	2.6	2.5	2.8	3.2	4.1	3.5	4.1	4.1	4.3	3.4	2.5	2.2	3	2	2	1.7	1.2	0.6	1.4	2.6
9	1.7	1.9	1.8	1.9	1.1	0.5	0.7	1.6	1.9	3.5	3.1	3.6	3.5	1.9	1.4	1.6	0.7	1.2	0.2	0	0.1	0.1	0.4	1	1.5
10	0.4	0.1	0.1	0.3	0.7	1.1	1.3	3.3	4.2	4.9	6	8	8.4	9.4	8.2	7.1	5.6	4.7	4.1	4.1	3.4	2.9	2.7	3.3	3.9
11	3.8	3.5	3.1	3.2	3.1	1.5	1.2	3.5	5.8	6.3	5.2	4.9	4.8	4	3.9	3.2	2.9	1.8	1.2 *	0.6	0	0	0	0.1	2.8
12	0	0	0.2	0	0.2	0.3	0.6	1.5	3.1	4.7	5.6	5.7	5.8	6.4	6.4	4.5	3.3	2.4	0.9	1.8	2.1	1.7	2.5	2.9	2.6
13	2.6	2.6	3.1	3.9	4	4.4	4.4	4.6	5.3	6.4	6.7	6.6	5.9	4.3	5.2	4.7	2.7	1.2	0.4	0.8	0.7	1.3	0.6	0.6	3.5
14	0.8	0.3	0.7	0.8	1.1	0.2	1.8	2.5	3.2	2.8	2.8	3.5	4.5	4.8	4.6	3.7	2.9	2.9	2.8	4.1	4.7	4.7	4.7	4.8	2.9
15	4.5	4.9	5.6	5.5	4.8	5.9	5.8	6.9	6.6	7.5	8.8	9.1	8.1	8.5	10.8	9.2	4.9	3.3	3.1	3.5	4.8	4.7	5.1	5	6.1
16	6.2	6	5.6	4.6	5	5.4	5.7	6.1	7.2	8.1	9.1	8.3	7.5	7.7	8.1	6.8	4.2	2.3	1.9	1.3	1.8	2.7	2.3	1.7	5.2
17	0.5	0.2	1.3	2.1	1.3	0.9	0.3	0	0.1	2	2.4	3.3	4.2	5.4	4.4	3.5	1.6	2.8	3.1	2	1.3	2.1	2	2.7	2.1
18	1.8	1.4	1.3	0.6	0.9	0.9	1.5	1.6	2.5	2.6	1.6	1.6	2.9	3.6	4.2	3.9	1.7	0.9	2.2	1.6	1.4	1.6	0.7	2.1	1.9
19	1	0.3	0.4	0.3	0.6	0.8	1.7	1.6	0.9	1.3	3.6	3.1	3.7	4.6	4.2	5.2	4.8	4.8	5.1	3.5	1.9	0.7	1.4	1.2	2.4
20	0.5	0.8	0.8	1.4	2	0.5	1.5	2.3	2.5	3.7	4.2	5.7	6.5	6.5	5.9	6.3	4.5	2.5	2.2	2.7	2.8	3	2.4	1.4	3
21	1.2	0.1	0.5	0.1	0.3	0.3	0.6	0.8	2.5	2.6	3.2	4.6	5.7	7.1	5.9	4.7	1.9	1.7	1.9	2.6	3.3	4.1	3.4	4	2.6
22	4.3	4.1	4.2	4.8	4	4	4.7	4.6	5.7	6.7	10.7	10.9	10.9	10.3	8.8	8.6	6.4	5.8	3.9	1.6	2.5	5.7	7.9	6.9	6.2
23	8.6	7.8	8.7	7.3	7.9	7.8	7.5	5.3	6.6	7.6	7.4	6	6	7.6	7.2	6.9	5.7	5	4	4.4	4.2	3.4	2.2	2.2	6.1
24	2.4	2.7	2.1	2.7	4.5	4.3	4.1	3.3	5.4	5.5	5.2	5.2	6.4	4.7	5.1	4.1	3.4	2.4	2.1	1.5	1.4	1.8	2.1	1.7	3.5
25	2.4	2.5	3.3	2.7	2.1	1.7	0	0.5	0.8	1.8	2.8	3.4	3.1	2.9	3	1.4	1.4	1.5	0.3	1.4	1.8	0.1	0	0.3	1.7
26	1.3	0.9	1	1.4	2.1	1.9	1	0.4	0.8	1.6	3.7	4	4	5.3	4.6	5.1	6	5	5.3	5.9	6.7	7.5	8	7.9	3.8
27	8	7.4	5	4.3	4.3	4.9	4.9	4.7	6.2	6.8	6.6	6.7	7.2	5.6	4.3	3.6	3.4	2.7	2	0.7	0	0	0.7	0.6	4.2
28	1.1	1.1	1.4	1.4	0.9	2.1	2.7	3.6	5.1	6.4	7.3	6.9	6.5	6.4	6.6	5.3	4.8	3.1	3.2	1.9	1.4	0.4	0.1	0	3.3
29	0.1	0.2	0.2	0.3	0	0.1	0.7	1.6	2.6	2.6	2.9	4.9	6.8	4.7	5	4.8	2.3	1.5	1.5	2.2	2.3	2.2	2.9	3	2.3
30	2.8	3.3	3.4	3.6	3.4	2.8	3	3.7	4.9	5.7	5.5	4.7	4.1	3.4	3.2	3.6	2.4	2.1	0.2	0.8	0.5	0	0	0	2.8
Avg	2.8	2.8	2.8	2.7	2.9	2.8	3	3.4	4.2	5	5.4	5.6	5.8	5.8	5.5	5	3.7	2.9	2.5	2.4	2.4	2.5	2.7	2.7	3.6
SD	2.7	2.7	2.7	2.5	2.7	2.9	2.9	2.6	2.7	2.7	2.7	2.4	2.3	2.5	2.4	2.5	2.2	2.2	2.2	2	2.3	2.4	2.8	2.6	2
S/A	0.97	0.98	0.96	0.92	0.93	1.01	0.96	0.77	0.63	0.54	0.5	0.43	0.4	0.43	0.43	0.49	0.6	0.75	0.9	0.83	0.95	0.93	1.04	0.96	0.54
Min	0	0	0.1	0	0	0.1	0	0	0.1	1.3	1.6	1.6	2.8	1.9	1.4	1.4	0.7	0.5	0.2	0	0	0	0	0	1.5
Max	9.5	10.7	10.9	10.6	9.5	10	10.9	10.3	10.7	13.6	13.3	12.2	12.8	13.3	12	13.4	12.4	11.7	11.7	10.4	11.8	10.2	10.8	10.1	10.7
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635

Data Recovery: 0.1% 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

November 2007

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	1020	1019	1018	1018	1018	1018	1017	1017	1017	1017	1017	1016	1015	1015	1015	1014	1015	1015	1015	1015	1016	1016	1017	1017	1017		
2	1017	1017	1016	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1016	1016	1015	1015	1015	1014	1014	1013	1012	1011	1011	1011	1016	
3	1010	1009	1008	1007	1007	1008	1008	1008	1009	1009	1009	1008	1008	1007	1007	1008	1009	1010	1010	1011	1011	1011	1011	1011	1011	1009	
4	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1013	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1013	1012	
5	1013	1013	1013	1013	1013	1014	1014	1015	1016	1016	1016	1015	1015	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	
6	1012	1011	1010	1010	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1011	1011	1012	1013	1014	1015	1015	1016	1016	1011	1011	
7	1016	1016	1017	1017	1017	1018	1018	1019	1020	1020	1020	1019	1019	1018	1018	1018	1019	1019	1019	1019	1020	1020	1020	1020	1019	1019	
8	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1020	1019	1019	1018	1018	1019	1019	1019	1019	1019	1019	1018	1020	
9	1018	1018	1018	1017	1017	1018	1018	1018	1018	1018	1017	1017	1015	1015	1014	1014	1013	1014	1013	1014	1013	1013	1012	1012	1015	1015	
10	1012	1011	1011	1010	1010	1010	1011	1012	1012	1013	1014	1014	1014	1014	1015	1016	1017	1017	1018	1019	1019	1020	1020	1020	1015	1015	
11	1020	1020	1021	1021	1022	1023	1023	1024	1024	1025	1025	1025	1024	1024	1023	1023	1023	1023	1024	1024 *	1025	1025	1025	1025	1023	1023	
12	1024	1025	1025	1024	1024	1025	1025	1025	1025	1025	1025	1024	1022	1021	1021	1020	1020	1020	1020	1020	1020	1019	1019	1018	1022	1022	
13	1018	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1013	1013	1013	1013	1013	1014	1014	1014	1015	1014	1014	1015	1015	
14	1013	1013	1013	1013	1012	1013	1012	1012	1013	1013	1013	1012	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1008	1011	1011	
15	1007	1007	1006	1005	1004	1004	1003	1002	1001	1001	1000	1000	1001	1001	1002	1003	1004	1004	1004	1005	1006	1007	1007	1008	1004	1004	
16	1008	1008	1008	1008	1009	1010	1010	1011	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1014	1014	1015	1015	1015	1016	1011	1011	
17	1016	1016	1017	1017	1018	1018	1019	1019	1020	1020	1020	1019	1018	1018	1017	1016	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	
18	1017	1017	1017	1017	1017	1018	1018	1019	1020	1020	1020	1020	1019	1019	1019	1019	1019	1020	1021	1021	1022	1022	1022	1022	1019	1019	
19	1021	1021	1021	1021	1021	1021	1022	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	
20	1022	1022	1021	1021	1021	1021	1022	1022	1021	1021	1021	1019	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1019	1019	
21	1018	1018	1018	1017	1018	1017	1018	1018	1018	1018	1018	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1016	1016	
22	1014	1014	1013	1013	1013	1012	1013	1012	1012	1012	1011	1009	1008	1008	1007	1007	1008	1009	1009	1009	1010	1011	1012	1013	1011	1011	
23	1013	1014	1015	1015	1016	1016	1017	1018	1019	1019	1019	1019	1019	1019	1019	1020	1021	1022	1023	1024	1024	1025	1025	1026	1019	1019	
24	1026	1026	1027	1027	1028	1028	1029	1030	1030	1031	1031	1030	1029	1028	1027	1027	1026	1026	1027	1026	1026	1026	1026	1026	1028	1028	
25	1025	1025	1026	1026	1026	1026	1026	1027	1027	1027	1027	1026	1025	1024	1024	1025	1024	1024	1024	1024	1024	1023	1023	1022	1025	1025	
26	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1018	1017	1016	1015	1015	1015	1015	1015	1015	1014	1014	1013	1012	1011	1017	
27	1012	1012	1012	1012	1012	1012	1012	1013	1014	1015	1016	1016	1016	1016	1017	1018	1019	1020	1021	1021	1022	1022	1023	1023	1016	1016	
28	1024	1024	1024	1025	1025	1025	1026	1027	1028	1029	1029	1029	1028	1028	1028	1028	1027	1027	1027	1027	1027	1026	1025	1024	1026	1026	
29	1023	1022	1022	1021	1020	1019	1019	1019	1019	1020	1019	1019	1018	1017	1016	1017	1017	1017	1018	1018	1019	1019	1019	1019	1020	1019	1019
30	1020	1021	1021	1021	1022	1022	1023	1024	1025	1025	1025	1024	1024	1023	1023	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023	1023	
Avg	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1016	1016	1016	1017	1017	1017	1017	1017	1018	1017	1017	1017	1017	
S D	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	1007	1007	1006	1005	1004	1004	1003	1002	1001	1001	1000	1000	1001	1001	1002	1003	1004	1004	1004	1005	1006	1007	1007	1008	1004	1004	
Max	1026	1026	1027	1027	1028	1028	1029	1030	1030	1031	1031	1030	1029	1028	1028	1028	1027	1027	1027	1027	1027	1026	1026	1026	1028	1028	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	8635	8635	

Data Recovery: 0.1% missing; 0.0% untested; 0.0% failed QC -- 8640 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

November 2007

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	12.5	13.1	13.5	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	
2	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.4	13.5	13.4	13.5	13.5	13.3	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8
3	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13	13.6	13.6	13.5	13.4	13.4	13.4	13.4	13.2	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.9	
4	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.8	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.2	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13	
5	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.8	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.5	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13	
6	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.2	12.8	12.8	12.9	13.1	13	12.9	13.1	13.4	13.2	12.8	12.7	12.6	12.6	12.6	12.5	12.5	12.8	
7	12.5	12.4	12.4	12.4	12.4	12.4	12.5	13.9	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.6	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13	
8	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.8	13.8	13.7	13.7	13.7	13.7	13.6	13.6	13.6	13	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13	
9	12.6	12.6	12.6	12.5	12.5	12.5	12.4	12.5	12.8	13.4	13.3	13.6	13.6	13.5	13.5	13.6	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	
10	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.2	13.3	12.9	13.3	13.7	13.7	13.6	13.6	13.1	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	
11	12.6	12.5	12.5	12.5	12.4	12.4	12.8	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	12.8	12.7	12.7 *	12.7	12.6	12.6	12.6	12.6	13	
12	12.6	12.6	12.6	12.5	12.5	12.5	12.4	13.4	13.7	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13	
13	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.6	13.5	13.4	13.4	13.4	13.4	13.3	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	
14	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.3	13.5	13.5	13.3	13.4	13.3	13.3	13.3	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	
15	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13	13	12.9	12.7	12.6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6	
16	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13	
17	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.8	13.9	13.7	13.7	13.6	13.6	13.6	13.6	13.5	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13	
18	12.6	12.6	12.6	12.6	12.6	12.5	12.5	13.5	13.7	13.6	13.5	13.4	13.4	13.4	13.4	12.9	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	
19	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.2	13.6	13.5	13.5	13.4	13.4	13.5	13.3	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	
20	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.3	13.6	13.5	13.5	13.4	13.4	13.4	13.1	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	
21	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.2	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	
22	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13.2	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	
23	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.4	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13	
24	12.6	12.5	12.5	12.5	12.4	12.4	12.4	13.6	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.7	12.9	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	
25	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13	12.7	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.5	
26	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.7	13.1	13.1	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.7	
27	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.2	13.1	13.3	13.3	13.4	13.4	13.4	13.1	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	
28	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.5	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13	
29	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	12.6	12.9	13.5	13.6	13.6	13.6	13.5	13.2	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8	
30	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.2	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.2	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	
Avg	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	13	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
S/A	0	0	0	0	0	0	0.01	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0	0	0	0.01	
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.5	12.5	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	
Max	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	355	360	360	360	360	360	8635	

Data Recovery: 0.1% 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.