

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

November 2006

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	12	103	310	467	570	624	607	532	396	194	46	0	0	0	0	0	0	0	3861
2	0	0	0	0	0	0	12	123	235	269	190	87	172	446	234	154	39	5	0	0	0	0	0	0	1966
3	0	0	0	0	0	0	18	87	319	483	592	649	634	562	425	238	65	1	0	0	0	0	0	0	4073
4	0	0	0	0	0	0	16	132	293	404	527	608	609	536	414	240	63	0	0	0	0	0	0	0	3840
5	0	0	0	0	0	0	15	126	299	467	578	626	620	536	378	209	58	0	0	0	0	0	0	0	3912
6	0	0	0	0	0	0	14	118	289	433	555	598	584	483	400	193	48	0	0	0	0	0	0	0	3714
7	0	0	0	0	0	0	16	96	219	316	288	454	282	169	70	37 ?	4	0	0	0	0	0	0	0	1951
8	0	0	0	0	0	0	3	78	205	256	408	350	236	309	385	125	48	0	0	0	0	0	0	0	2404
9	0	0	0	0	0	0	3	37	141	262	307	480	525	490	376	203	51	0	0	0	0	0	0	0	2874
10	0	0	0	0	0	0	9	102	265	418	529	581	570	496	370	198	47	0	0	0	0	0	0	0	3585
11	0	0	0	0	0	0	9	123	217	370	515	558	529	489	344	177	50	0	0	0	0	0	0	0	3381
12	0	0	0	0	0	0	5	50	57	92	79 ?	66	278	99	79 ?	?	2	0	0	0	0	0	0	0	804 ?
13	0	0	0	0	0	0	3	11	36	66	75	120	125	188	117	43	15	0	0	0	0	0	0	0	798
14	0	0	0	0	0	0	4	81	256	404	517	570	557	485	363	180	22	0	0	0	0	0	0	0	3437
15	0	0	0	0	0	0	8	77	125	222 ?	434	394	463	360	249	90	45	0	0	0	0	0	0	0	2466
16	0	0	0	0	0	0	6	24	69	190	312	193	110	69 ?	?	?	23	0	0	0	0	0	0	0	996 ?
17	0	0	0	0	0	0	7	86	249	387	488	568	556	488	368	176	45	0	0	0	0	0	0	0	3418
18	0	0	0	0	0	0	7	41	148	193	177	223	258	311	352	158	47	0	0	0	0	0	0	0	1913
19	0	0	0	0	0	0	4	87	240	398	507	557	550	480	359	180	39	0	0	0	0	0	0	0	3403
20	0	0	0	0	0	0	5	72	229	386	497	478	524	461	347	145	36	0	0	0	0	0	0	0	3178
21	0	0	0	0	0	0	2	12	63	127	135	99	90	49	56	32	5	0	0	0	0	0	0	0	671
22	0	0	0	0	0	0	1	8	28 ?	33 ?	36 ?	122	153	251	104	53	15	0	0	0	0	0	0	0	803 ?
23	0	0	0	0	0	0	0	7	62	112	100	102	116	68	56	20	7	0	0	0	0	0	0	0	649
24	0	0	0	0	0	0	4	70	224	385	494	551	547	481	359	187	40	0	0	0	0	0	0	0	3340
25	0	0	0	0	0	0	4	68	226	388	496	548	541	473	348	175	37	0	0	0	0	0	0	0	3305
26	0	0	0	0	0	0	4	60	200	353	415	530	527	460	336	168	37	0	0	0	0	0	0	0	3089
27	0	0	0	0	0	0	6	45	138	252	397	506	507	443	320	145	55	0	0	0	0	0	0	0	2813
28	0	0	0	0	0	0	5	46	183	307	389	500	413	373	276	138	34	0	0	0	0	0	0	0	2664
29	0	0	0	0	0	0	2	35	116	162	234	237	312	224	243	126	30	0	0	0	0	0	0	0	1721
30	0	0	0	0	0	0	3	49	196	300	409	513	499	426	285	130	31	0	0	0	0	0	0	0	2841
Avg	0	0	0	0	0	0	7	68	188	297	375	416	416	374	290	147	36	0	0	0	0	0	0	0	2596
S D	0	0	0	0	0	0	5	38	87	129	173	198	184	160	119	62	18	1	0	0	0	0	0	0	1108
S/A	0	0	0	0	0	0	0.72	0.55	0.46	0.43	0.46	0.48	0.44	0.43	0.41	0.42	0.49	4.93	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	7	28	33	36	66	90	49	56	20	2	0	0	0	0	0	0	0	649
Max	0	0	0	0	0	0	18	132	319	483	592	649	634	562	425	240	65	5	0	0	0	0	0	0	4073
n	0	0	0	0	0	0	111	359	356	343	346	358	360	356	344	328	317	3	0	0	0	0	0	0	3582

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.5% exceed the 15% QC threshold -- 3672 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.

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

November 2006

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	39	213	688	785	815	806	801	785	706	437	98	0	0	0	0	0	0	0	6173
2	0	0	0	0	0	0	8	250	164	92	1	0	1	411	81	100	6	0	0	0	0	0	0	0	1115
3	0	0	0	0	0	0	93	247	753	832	869	899	894	885	829	690	368	0	0	0	0	0	0	0	7358
4	0	0	0	0	0	0	152	543	637	555	540	674	757	820	765	631	332	0	0	0	0	0	0	0	6406
5	0	0	0	0	0	0	167	542	695	823	879	880	893	822	672	547	210	0	0	0	0	0	0	0	7130
6	0	0	0	0	0	0	130	491	692	711	811	816	782	662	678	392	150	0	0	0	0	0	0	0	6315
7	0	0	0	0	0	0	17	116	130	128	19	227	35	0	0	0	0	0	0	0	0	0	0	0	672
8	0	0	0	0	0	0	0	198	293	47	276	109	23	95	404	129	131	0	0	0	0	0	0	0	1704
9	0	0	0	0	0	0	0	0	2	55	132	290	608	744	704	600	299	0	0	0	0	0	0	0	3436
10	0	0	0	0	0	0	110	459	670	766	802	817	803	771	728	598	262	0	0	0	0	0	0	0	6786
11	0	0	0	0	0	0	24	308	404	615	731	605	626	720	573	374	238	0	0	0	0	0	0	0	5217
12	0	0	0	0	0	0	0	2	0	0	0	0	149	4	0	0	0	0	0	0	0	0	0	0	156
13	0	0	0	0	0	0	0	0	0	1	1	1	0	5	0	0	0	0	0	0	0	0	0	0	9
14	0	0	0	0	0	0	5	181	634	736	799	820	824	796	749	536	25	0	0	0	0	0	0	0	6106
15	0	0	0	0	0	0	2	145	104	267 ?	439	111	212	171	187	36	36	0	0	0	0	0	0	0	1709
16	0	0	0	0	0	0	1	3	1	12	63	2	0	0	0	1	0	0	0	0	0	0	0	0	81
17	0	0	0	0	0	0	62	447	692	707	750	871	858	834	771	494	320	0	0	0	0	0	0	0	6806
18	0	0	0	0	0	0	0	6	49	38	0	2	23	169	702	413	230	0	0	0	0	0	0	0	1633
19	0	0	0	0	0	0	2	341	661	771	819	829	813	772	677	511	215	0	0	0	0	0	0	0	6413
20	0	0	0	0	0	0	22	307	578	705	769	441	608	675	693	262	72	0	0	0	0	0	0	0	5132
21	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	2	1	0	0	0	0	0	0	0	7
22	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
23	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	21	393	695	811	865	891	899	879	830	714	365	0	0	0	0	0	0	0	7362
25	0	0	0	0	0	0	8	391	711	819	852	863	864	825	759	614	252	0	0	0	0	0	0	0	6959
26	0	0	0	0	0	0	1	263	592	734	328	788	844	818	745	591	254	0	0	0	0	0	0	0	5958
27	0	0	0	0	0	0	0	2	6	22	475	640	770	765	630	340	166	0	0	0	0	0	0	0	3817
28	0	0	0	0	0	0	2	70	350	401	430	636	362	347	318	173	29	0	0	0	0	0	0	0	3118
29	0	0	0	0	0	0	0	33	63	21	22	53	135	16	117	65	2	0	0	0	0	0	0	0	527
30	0	0	0	0	0	0	0	104	457	431	602	796	727	681	495	185	48	0	0	0	0	0	0	0	4526
Avg	0	0	0	0	0	0	29	202	357	396	436	462	477	482	461	315	137	0	0	0	0	0	0	0	3755
S D	0	0	0	0	0	0	49	185	303	348	358	374	374	361	324	255	130	0	0	0	0	0	0	0	2820
S/A	0	0	0	0	0	0	1.72	0.92	0.85	0.88	0.82	0.81	0.78	0.75	0.7	0.81	0.95	0	0	0	0	0	0	0	0.75
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	167	543	753	832	879	899	899	885	830	714	368	0	0	0	0	0	0	0	7362
n	0	0	0	0	0	0	111	360	360	353	358	360	360	360	360	360	318	3	0	0	0	0	0	0	3663

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.2% exceed the 15% QC threshold -- 3672 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 2006

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	13	56	65	69	74	91	88	76	71	56	31	0	0	0	0	0	0	0	690
2	0	0	0	0	0	0	11	79	178	219	190	87	172	199	187	125	38	4	0	0	0	0	0	0	1489
3	0	0	0	0	0	0	14	37	55	65	71	68	68	58	51	42	19	0	0	0	0	0	0	0	547
4	0	0	0	0	0	0	13	39	70	113	191	167	127	72	68	61	22	0	0	0	0	0	0	0	944
5	0	0	0	0	0	0	13	35	59	61	58	64	62	71	73	53	27	0	0	0	0	0	0	0	576
6	0	0	0	0	0	0	13	36	55	76	76	78	91	105	98	79	27	0	0	0	0	0	0	0	734
7	0	0	0	0	0	0	14	83	163	262	286	302	257	169	70	35 ?	4	0	0	0	0	0	0	0	1647
8	0	0	0	0	0	0	4	35	126	236	248	275	222	256	207	95	32	0	0	0	0	0	0	0	1734
9	0	0	0	0	0	0	3	37	141	230	228	290	146	84	75	49	19	0	0	0	0	0	0	0	1301
10	0	0	0	0	0	0	10	33	54	64	73	77	75	70	63	47	19	0	0	0	0	0	0	0	585
11	0	0	0	0	0	0	11	77	83	85	102	182	148	103	99	77	25	0	0	0	0	0	0	0	991
12	0	0	0	0	0	0	5	50	57	87	79 ?	64	190	97	72 ?	?	2	0	0	0	0	0	0	0	701 ?
13	0	0	0	0	0	0	3	11	34	66	75	120	125	185	117	43	15	0	0	0	0	0	0	0	794
14	0	0	0	0	0	0	5 ?	34	59	69	75	78	73	69	56	44	18	0	0	0	0	0	0	0	578
15	0	0	0	0	0	0	10 ?	60	90	97 ?	177	321	320	255	164	83	41	0	0	0	0	0	0	0	1619
16	0	0	0	0	0	0	6 ?	24	69	185	273	193	110	60	?	?	23	0	0	0	0	0	0	0	943 ?
17	0	0	0	0	0	0	6	28	48	77	76	60	64	61	61	65	16	0	0	0	0	0	0	0	561
18	0	0	0	0	0	0	7	41	137	180	177	222	246	232	75	51	25	0	0	0	0	0	0	0	1393
19	0	0	0	0	0	0	4	31	56	67	75	81	91	91	94	63	19	0	0	0	0	0	0	0	670
20	0	0	0	0	0	0	7 ?	35	70	84	92	208	165	117	75	75	28	0	0	0	0	0	0	0	956
21	0	0	0	0	0	0	2 ?	12	63	127	135	94	90	49	56	29	5	0	0	0	0	0	0	0	663
22	0	0	0	0	0	0	1	8	27	27	30	122	153	251	104	54	16	0	0	0	0	0	0	0	791
23	0	0	0	0	0	0	1	7	62	112	100	102	116	68	56	20	7	0	0	0	0	0	0	0	649
24	0	0	0	0	0	0	5 ?	26	41	48	49	49	48	45	40	30	11	0	0	0	0	0	0	0	391
25	0	0	0	0	0	0	6 ?	25	42	48	58	64	61	62	55	40	15	0	0	0	0	0	0	0	476
26	0	0	0	0	0	0	5 ?	30	57	65	225	82	61	55	52	38	15	0	0	0	0	0	0	0	686
27	0	0	0	0	0	0	?	44	137	238	167	125	80	66	78	65	39	0	0	0	0	0	0	0	1040
28	0	0	0	0	0	0	?	38	93	138	155	136	192	183	148	94	30	0	0	0	0	0	0	0	1210
29	0	0	0	0	0	0	?	31	98	157	227	203	229	217	191	110	30	0	0	0	0	0	0	0	1495
30	0	0	0	0	0	0	?	33	79	120	94	73	96	85	92	80	26	0	0	0	0	0	0	0	776
Avg	0	0	0	0	0	0	7	37	79	116	131	136	132	117	91	61	21	0	0	0	0	0	0	0	921
S D	0	0	0	0	0	0	4	19	39	67	74	81	70	45	25	10	1	0	0	0	0	0	0	0	387
S/A	0	0	0	0	0	0	0.59	0.51	0.49	0.58	0.57	0.6	0.53	0.6	0.5	0.42	0.47	5.48	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	1	7	27	27	30	49	48	45	40	20	2	0	0	0	0	0	0	0	391
Max	0	0	0	0	0	0	14	83	178	262	286	321	320	256	207	125	41	4	0	0	0	0	0	0	1734
n	0	0	0	0	0	0	93	360	359	353	353	360	360	358	345	333	317	3	0	0	0	0	0	0	3596

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.1% exceed the 15% QC threshold -- 3672 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 2006

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	16.5	16.2	16.1	16.1	16.2	16	15.7	15.8	17.9	20.3	21.9	22.9	23.7	24.3	24.7	24.5	23.3	20	17.9	18	18.4	18.4	17.7	17.2	19.2
2	16.6	16.1	16.2	16.4	16.5	16.5	16.3	16.7	17.8	18.3	16.5	13.4	12.6	13.5	13.7	13.6	12.8	11.9	10.7	9.8	8.3	7.2	6.9	6.7	13.6
3	7.4	7.6	7.2	6.7	6.1	5.2	4.6	4.6	5.9	6.6	7.3	7.9	8.8	9.2	9.4	9.2	8.4	7	6	5.4	4.5	3.5	2.3	2.1	6.4
4	2.5	2.9	2.4	2.6	2.3	1.8	1.5	2.6	4.7	6.3	7.6	8.5	8.9	9.5	9.8	9.3	8.3	6.9	6.2	5.7	5.3	4.9	4.4	3.9	5.4
5	3.8	4	3.9	3.6	3.7	3.7	3.6	4.9	7.4	9.6	11.5	12.8	13.5	13.8	13.6	12.7	11.5	9.9	9.1	8.3	7.6	6.9	6.2	5.9	8
6	5.9	6.1	6.1	6.3	6.4	6.5	6.7	7.9	10.3	12.8	14.9	15.8	16.2	16.3	16.2	15.3	14.4	13.1	12	11.2	10.6	10	10.2	10.5	10.9
7	10.4	10.3	10	10	9.9	9.8	10	11.7	14	16.8	18.3	19.7	20.4	20.2	19.3	17.7	16.7	16.5	16.3	16.1	16.2	16.4	16.8	17.5	15
8	17.8	17.4	17.4	17.3	17.4	17.4	17	17.3	18.8	19.2	20.1	20.2	20.5	21.5	22.9	22.1	21.3	19.8	18.4	17.4	16	15.4	15.5	15	18.5
9	14.9	15	15.5	15.5	15.4	15.2	14.9	15.4	16	17.1	18.1	19	19.9	20.8	21.3	21	20.4	18.9	17.7	17.2	16.9	16.6	16.4	15.9	17.3
10	15.5	15.3	15.2	15.1	14.6	13.9	13.3	13.8	15.6	19.1	21	22.2	22.6	22.8	22.6	22.3	20.6	18.4	17.1	16	15.6	15.2	14.9	14.6	17.4
11	14.4	14.4	14.2	14.4	14.2	13.9	14	14.8	16.8	18.9	20.7	22.6	23.4	24.1	24.5	24.3	23.3	21.6	20.8	20	19.5	18.9	18.4	17.8	18.7
12	17.6	17.4	17.3	17.2	17	16	16.1	16.4	16.8	17.6	17	12.5	12.6	13	12.9	11.4	10	10.1	10.3	10.2	10.3	9.8	9.7	9.6	13.7
13	9.6	9.9	10.2	10.3	10.2	10.3	10.4	10.7	10.5	10.9	11.4	11.9	12.4	12.9	13.6	13.5	13.5	13.4	13.5	13.4	13.4	13.5	13.4	13.2	11.9
14	13.1	12.9	12.7	12.6	12.1	11.5	11.4	11.7	13.9	16.2	17.6	18.3	20.1	21.1	21.6	21.4	19.7	18.6	17.8	17.2	16.8	16.3	15.9	15.6	16.1
15	15.2	14.8	14.4	14.2	13.9	13.2	12.9	13.5	14.2	16.1	18.5	18.9	19.7	20.4	20.8	19.6	18.5	17.2	17.2	17.9	18.1	18.7	18.5	18.9	16.9
16	18.9	18.8	18.9	19	19.4	19.4	20.2	21.3	21.9	22.6	23.3	23.5	23.5	23.2	23	21.9	21.4	20.7	19.7	19.2	18	17.3	16.4	14	20.2
17	12.4	11.8	11.1	10.6	10.4	10.1	9.7	9.7	10.4	11.3	12.5	13.5	14.3	14.9	15.4	15.5	15	13.6	12.5	11.9	11.2	10.6	9.5	9.3	12
18	9	10.2	10.4	10.1	9.9	9.8	9.7	9.5	9.8	10.3	10.5	10.8	10.9	11.6	12.7	12.7	11.9	10.8	9.6	8.9	7.9	7.1	6.4	5.6	9.8
19	5.6	5	4.9	5	4.6	4.2	4	3.8	6.8	9.2	10.4	11.5	12.5	13	13	12.7	11.8	10.3	9.3	8.6	8.1	7.5	6.6	5.8	8.1
20	4.8	4.5	4.4	4.2	5	4.5	4.7	4.8	7	9	10.3	11.2	11.9	11.8	11.4	10.9	9.9	9	8.6	8.4	8.3	8.2	8.1	7.9	7.9
21	7.5	6.9	6.6	6.3	6.3	6.3	6.3	6.5	7	7.7	8.1	8.7	8.8	9	9.6	10	10.3	10.4	10.8	11.1	11.2	11.5	12	12.4	8.8
22	12.9	13.3	13.3	13.1	13	13.3	13.6	14.1	14.4	14.3	14.4	14.1	14	14.6	15.2	14.2	14.1	14	14.1	14.2	14	13.1	12.7	12.4	13.8
23	12.3	11.7	10.7	10.2	9.8	9.5	9.1	8.7	8.3	8.1	8.1	8.3	8.6	8.2	8.3	8.1	8.1	8	8.1	8.1	8.2	8.3	8.4	8.6	8.9
24	8.8	8.6	8.5	8.5	8.8	9.2	8.4	7.8	9.3	11.2	12.9	13.9	14.8	15.5	15.6	15.7	14.9	13.3	12.3	11.5	10.7	9.8	9	8.7	11.1
25	8.2	7.6	7	6.8	6.7	6.4	6.4	7.4	9.9	12.6	14.4	15.3	15.7	15.6	15.1	14.5	13.2	11.9	10.9	10.1	9.6	9	8.5	8.3	10.5
26	8	7.6	7.6	7.6	7.6	7.4	7.4	7.9	9.7	11.5	13	15	16.3	16.8	17.1	16.5	15	13	11.6	10.9	10.5	9.9	9.3	8.7	11.1
27	8	7.5	7.3	7	6.7	6.7	6.2	6.7	7.7	9.1	11	14.1	17.4	18.9	18.9	17.9	16.8	14.7	14.1	13.3	12.9	12.2	12	11.4	11.6
28	11.2	11.2	11.1	10.6	10.5	10.7	10	10.6	12.7	15.9	17.9	19.9	20.2	20.2	20	19.5	17.8	16.3	15.3	14.7	14.3	13.9	13.3	13	14.6
29	12.5	12.2	12.2	12.3	12.1	12.1	12.5	12.7	14.1	16.2	17.8	18.6	20.3	20.3	20.3	20.3	19.2	17	15.8	15.2	15	15	14.7	14.5	15.5
30	15	15	14.5	13.7	13.6	13.4	13.5	14	16.2	18.7	20.6	22.2	23.3	24.1	24.2	23.5	21.9	20.7	19.9	19.7	20	20.1	19.7	19.8	18.6
Avg	11.2	11.1	10.9	10.8	10.7	10.5	10.3	10.8	12.2	13.8	14.9	15.6	16.3	16.7	16.9	16.4	15.5	14.2	13.5	13	12.6	12.2	11.8	11.5	13
S D	4.5	4.4	4.5	4.5	4.5	4.5	4.6	4.7	4.5	4.6	4.7	4.8	4.9	5	5	4.9	4.7	4.4	4.2	4.2	4.3	4.5	4.6	4.7	4.2
S/A	0.4	0.4	0.41	0.42	0.42	0.43	0.45	0.43	0.37	0.33	0.31	0.31	0.3	0.3	0.3	0.3	0.3	0.31	0.31	0.33	0.35	0.37	0.39	0.41	0.32
Min	2.5	2.9	2.4	2.6	2.3	1.8	1.5	2.6	4.7	6.3	7.3	7.9	8.6	8.2	8.3	8.1	8.1	6.9	6	5.4	4.5	3.5	2.3	2.1	5.4
Max	18.9	18.8	18.9	19	19.4	19.4	20.2	21.3	21.9	22.6	23.3	23.5	23.7	24.3	24.7	24.5	23.3	21.6	20.8	20	20	20.1	19.7	19.8	20.2
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

November 2006

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	101.9	104.2	?	104.9 ?	104.7	104.7	104.4	101.6	92	76.2	67.9	60.1	56.4	54.9	54.4	56.3	64.3	85.1	98.3	93.8	96.2	97.8	100	102	86.2
2	104	?	?	104.5 ?	104.1	104	104	101.9	95.3	92.1	94.5	100.5	93.8	75.4	67.2	71.2	70.2	72.7	80.1	85.8	93.5	99.4	100.7	100.8	91.6 ?
3	89.6	72.7	67.6	62.8	62.6	57.6	56.5	55.7	53	52.5	51.3	46.5	44.6	41	39.6	44	49.9	59.5	67.5	72.5	79.9	85.7	92.3	94.1	62.5
4	87.3	82.4	83.1	83	86.5	88.4	88.1	83.4	77.6	73.2	66.1	59.3	57.4	54.1	53.1	56.2	60	67.9	71.3	75.8	79.7	79	80.8	83.8	74.1
5	86.2	85.9	86.6	86.8	86	84.7	84.2	79.6	71.1	67.5	62.1	54.3	51.5	52.2	53.4	58.3	65.4	77.9	85.3	91	95.5	97.6	99.6	100.4	77.6
6	101.5	101.6	102.1	101.6	102.3	103.2	103.1	100.1	95.6	88.4	79.7	74.7	73.6	74.2	75.9	79.3	85	92.1	97.3	99.8	102.1	104.2	104.2	104.2	93.6
7	104.6 ?	?	?	?	?	?	?	?	103.8 ?	99.8	96.6	88	78.5	78.7	85.8	98.1	104.3 ?	?	?	?	?	?	?	?	93.8 ?
8	?	?	?	?	104 ?	104 ?	?	?	104.5 ?	103.8	101.3	101.3	100.6	95.8	89.6	91.3	93.1	97.5	98.3	97.9	99.1	102.1	103.2	?	99.3 ?
9	?	?	?	?	104.3 ?	103.9 ?	104.6 ?	100.5	96.4	90.8	83.5	77.7	73.7	69.4	66.8	68.7	73.1	81	86.7	87.9	87.4	88.2	88	89.3	86.1 ?
10	89.8	89.6	89.2	88.8	91	93.4	96.2	94.9	89.6	74.4	69.2	64.1	61.7	60	60.9	63.1	71.6	79.4	84.4	90.9	96.6	99.4	101.9	104.3	83.5
11	105 ?	?	?	?	?	?	?	103.6 ?	100.8	96.8	92.4	87	84.6	79.7	78.2	79.2	83.6	88.4	94.8	97.6	95.9	95.7	98.9	101.6	92.4 ?
12	102.5	102.8	103.4	102.9	102.1	104.3 ?	?	104.5 ?	104.8	103.6	103.5 ?	?	103.7 ?	102.8	103.9 ?	?	?	?	104.5 ?	103.7	103.9	?	?	104.9 ?	103.6 ?
13	104.3	103.4	102.9	103.3	104.1	104.7	?	?	?	?	?	104.7 ?	103.5	101.9	100.3	101.1	101.4	101.6	102	102.8	102.2	101.7	102.6	104	102.8 ?
14	104.7	?	105 ?	104.8	?	?	?	?	100.7 ?	94	88.7	84.6	77.6	71.5	66.9	68.4	77.2	85.3	93.4	98.1	101	103.3	104.6	?	90.5 ?
15	?	?	?	?	?	?	?	?	?	98.7 ?	89.3	81.3	70.9	77.3	81.2	87.3	91.9	97.8	98.7	99.6	101.5	99.1	99.8	99.3	91.6 ?
16	98	97.9	97.5	98.7	98.5	98.5	97.4	95.3	97.4	97.7	95.2	92.9	93.8	94.7	96.1	103.1	104.8 ?	103.4	104.4	101	99	99.1	94.4	83.9	97.6
17	84.7	85.6	88.4	88	87.6	89	91.6	92.2	89.9	85.9	80.5	75.3	72.1	68.6	66.5	65	67.1	75.5	80.6	83.8	86.7	90.3	96.7	97.7	82.9
18	98.9	97.6	95.7	92	90.3	91.3	91.1	89.2	87.2	84.4	84.5	85.1	83.4	79.4	70.7	68.3	71.9	77.9	83.5	86.6	91.9	96.2	98.9	101.3	87.4
19	99.7	98.3	98.9	99.6	100.9	101.8	102.4	103.4	93.3	78.1	69.9	66	61.9	60.1	60.2	60.4	64.3	73.1	78.6	83.3	86.6	90	92.4	92.8	84
20	97.6	98.1	98.6	99.1	95.4	97.2	96.4	96.8	89.9	81.6	73.4	66.5	62.6	59	61.2	61.4	69.1	75.4	78.7	80.5	80.5	79.9	79.5	79.9	81.6
21	78.3	77.5	80	83.6	85.9	87.3	87.1	87.6	88.9	89.4	91.8	95.6	100.8	102.7	103.6 ?	102.9	102.5	104.8 ?	?	?	?	?	?	?	91.7 ?
22	?	?	?	?	?	?	?	104.2 ?	104.6 ?	?	?	?	104.4	104.7 ?	103	102.3	103.5	102.6	104.3	?	?	?	?	?	103.7 ?
23	?	?	?	?	?	?	?	?	?	105 ?	?	104.6 ?	103.8	104.8 ?	104.3	103.6	102.8	102.7	102.7	102.2	102.2	102.7	102.3	101.2	103.2 ?
24	100.4	103	104.5	104.6	103.6	101.5	103	103.2	95.8	79.9	65.8	58.2	55.4	51.3	43	37.6	44.6	54.8	56.1	59.1	63.9	69.1	76.3	81.7	75.7
25	85.9	92	96.4	99	101.1	101	102	101.2	97.5	89.4	82.7	77.2	73.5	73	75.5	77.8	83.5	90.9	96	98.4	100.2	102.1	103.3	104.1	91.8
26	104.4	?	?	?	?	?	?	?	104.3 ?	101.5	98.8	92.4	85.5	81.5	80.3	81.9	88.3	98.9	103.8 ?	?	?	?	?	?	93.5 ?
27	?	?	?	?	?	?	?	?	?	?	?	93.2	80.5	74.4	76.2	80.9	89.2	97.3	97.9	100.4	102.2	102.8	100.8	103.3	92.2 ?
28	?	?	?	?	?	?	?	?	101.5	93.9	89.4	82	78.4	77.1	76.4	80.9	88.1	94.4	98.9	101	101.5	102.5	104.3	?	91.4 ?
29	?	?	?	?	?	?	?	?	?	102.7	98.1	94.3	90.4	90.2	89.3	89.1	92.1	100.2	103.2	104.4 ?	?	105 ?	104.9 ?	?	97.2 ?
30	103.7	103.8	104.6 ?	?	?	?	?	?	101.1	95.2	88.9	84	79.4	75.4	76.6	79.1	88	93.1	98.4	102.1	102.1	101.7	101.9	101.9	93.7 ?
Avg	97	93.9	94.4	94.9	95.5	95.8	94.5	94.7	93.5	88.8	83.3	80.4	78.6	76.2	75.3	76.4	81.1	86.8	91.1	92.3	94.1	95.8	97.3	97.1	89.9 ?
S D	8.2	10	10.5	11.1	10.7	11.5	12.2	12	11.9	12.7	13.8	16.1	17.2	17.7	18.1	18.1	16.7	13.8	12.7	11.3	9.9	9.2	8.1	8.2	9.5
S/A	0.08	0.11	0.11	0.12	0.11	0.12	0.13	0.13	0.13	0.14	0.17	0.2	0.22	0.23	0.24	0.24	0.21	0.16	0.14	0.12	0.11	0.1	0.08	0.08	0.11
Min	78.3	72.7	67.6	62.8	62.6	57.6	56.5	55.7	53	52.5	51.3	46.5	44.6	41	39.6	37.6	44.6	54.8	56.1	59.1	63.9	69.1	76.3	79.9	62.5
Max	105	104.2	105	104.9	104.7	104.7	104.6	104.5	104.8	105	103.5	104.7	104.4	104.8	104.3	103.6	104.8	104.8	104.5	104.4	103.9	105	104.9	104.9	103.7
n	244	204	192	199	212	210	183	211	272	308	309	320	349	348	347	346	334	332	329	309	299	292	288	257	6698

Data Recovery: 0.0% missing; 0.0% untested; 22.5% 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

November 2006

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	16.3	16	15.8	15.7	15.7	15.7	15.5	15.4	17.2	20.4	23.4	25.6	26.6	27.3	27.8	28	26.6	23.5	20	18	17.4	17.5	17.5	16.9	20
2	16.3	15.8	15.6	15.8	16	16	16	16.2	17.8	19.4	19.9	18	15.7	15.3	16.2	15.9	15.2	13.6	11.2	8.9	7.2	5.9	5.2	5.1	14.1
3	5.1	5.7	6	5.8	5.6	5.2	4.5	4.3	5.5	7.9	9.8	11.3	12.5	13.2	13.4	13.2	12.2	9.3	6.2	4.3	3	1.7	0.4	-0.4	6.9
4	-0.6	-0.2	0.2	0.2	0.5	0.5	0.2	1	3.8	6.9	9.2	11.4	12.8	13.5	13.9	13.8	12.7	9.7	6.7	5.1	4.1	3.4	3	2.5	5.6
5	2.1	2.1	2.2	2.2	2	2	2.1	3	6.1	9.7	13.3	15.7	17.3	18.2	18.1	17.3	15.6	12.4	9.6	8.1	7.1	6.2	5.3	4.7	8.4
6	4.4	4.4	4.5	4.7	5	5.2	5.4	6.3	9.2	12.8	16.3	18.8	20	20.5	20.4	19.7	18.1	15.1	12.6	11.1	10.2	9.6	9.3	9.2	11.4
7	9.3	9.3	9.3	9.3	9.5	9.6	9.6	10.2	12.1	14.7	17.7	19.8	22.1	22.4	21.7	20	18.2	17.2	16.8	16.6	16.6	16.7	16.9	17.3	15.1
8	17.7	17.8	17.6	17.6	17.5	17.4	17.2	17.3	18.7	20.3	22.2	23.8	23.6	23.5	25.2	25.7	24.4	22.2	20.2	18.9	17.8	16.3	15.8	15.7	19.8
9	15.3	15.3	15.5	15.6	15.6	15.5	15.3	15.4	15.9	17.2	18.9	20.3	21.9	23.2	23.9	23.9	23.2	20.8	18.3	17	16.3	16	15.7	15.4	18
10	15	14.6	14.4	14.2	14	13.5	12.8	12.8	15.3	19.1	22.7	25.1	26.4	26.8	26.8	26.3	25	21.5	18.2	16.2	15.1	14.5	14.2	13.8	18.3
11	13.8	13.8	13.6	13.6	13.6	13.4	13.3	13.7	15.6	18.4	21.6	24.4	26.2	27.1	27.5	27.5	26.5	24.1	21.8	20.4	19.4	18.7	18.2	17.6	19.3
12	17	16.7	16.6	16.6	16.6	16	15.7	16	16.6	17.3	18	16.3	14.2	14	13.8	13.1	11.9	10.9	10.5	10.3	10.2	10.2	9.9	9.7	14.1
13	9.6	9.6	9.8	10.1	10.1	10.2	10.5	10.8	11	11.1	11.6	12.2	13	13.6	14.6	14.8	14.5	14.2	14	13.9	13.9	13.9	13.9	13.8	12.3
14	13.6	13.5	13.4	13.2	12.7	11.9	11.4	11.5	13	16.7	19.7	21.5	22.9	24.2	24.6	24.5	23	20.1	18.6	17.7	16.9	16.4	15.9	15.5	17.2
15	15	14.5	14.2	14	13.6	13.1	12.8	12.8	13.7	14.9	18.3	20.9	21.8	22.9	23.4	22.8	21.2	19.3	17.7	17.3	17.4	17.6	18	18.1	17.3
16	18.3	18.4	18.5	18.6	18.7	18.8	19.3	20.1	21.1	22.2	23.5	24.5	24.7	24.5	23.9	22.7	21.9	21.2	20.4	19.5	18.5	17.6	17	15.9	20.4
17	13.9	12.4	11.4	10.5	10	9.7	9.4	9.5	10.9	12.9	14.8	16.6	17.6	18	18.2	18.1	17.5	15.1	12.6	11.2	10.1	9.2	8.1	7.3	12.7
18	6.9	7.6	9.1	9.7	10	10	9.9	9.8	9.8	10.9	11.7	12.3	12.8	13.1	14.4	15.5	14.4	12.2	9.8	8.2	7	5.6	4.6	3.9	10
19	3.6	3.6	3.2	3.3	3.1	2.9	2.6	2.5	4.7	8.7	12.1	14.5	16.1	16.9	16.8	16.3	14.9	11.9	9.3	7.8	6.8	6	5.1	4.4	8.2
20	3.4	2.8	2.8	2.7	2.6	2.4	2.2	2.7	5.1	8.6	11.8	13.9	15.1	15.8	15.4	14.4	12.6	10.7	9.4	8.9	8.6	8.5	8.4	8.3	8.2
21	8.1	7.8	7.3	7	6.8	6.7	6.7	6.8	7.1	7.8	8.7	9.2	9.2	9.1	9.3	9.5	9.7	9.9	10.2	10.7	11	11.2	11.5	11.9	8.9
22	12.3	12.8	13.1	13.2	13.2	13.2	13.4	13.6	13.9	14.2	14.4	14.5	14.5	14.7	15.4	15.6	15.2	14.9	14.7	14.7	14.6	14.3	13.7	13.2	14.1
23	12.9	12.6	12	11.1	10.6	10.2	9.9	9.6	9.2	9.1	9	9	9.2	9.2	9.1	9.1	9	8.8	8.6	8.6	8.6	8.7	8.7	8.8	9.7
24	9	9.1	9	8.8	8.9	9.1	8.9	8.2	9.6	12.1	14.7	16.5	17.6	18.3	18.5	18.3	17.5	14.8	12.3	10.9	9.9	8.6	7.6	6.8	11.9
25	6.4	6	5.4	4.8	4.8	4.7	4.7	5.2	7.9	11.9	15.4	17.7	19	19.6	19.3	18.5	17	13.9	11.3	9.9	9	8.2	7.6	7.2	10.6
26	7.1	6.8	6.7	6.6	6.7	6.8	6.7	7	8.7	11.4	14.4	17	19.6	20.9	21.3	20.9	19.2	15.7	12.9	11.3	10.3	10	9.8	9.3	12
27	8.7	7.9	7.5	7.1	6.9	6.8	6.6	6.6	7.4	9.2	11.8	15.5	19.2	22.1	23	22.5	20.6	17.5	14.7	13.1	12.2	11.5	10.9	10.4	12.5
28	9.9	9.7	9.6	9.5	9.5	9.5	9.4	9.3	10.7	13.8	17.8	21.5	24.3	24.6	23.9	23.2	21.2	18.4	16.4	14.9	14	13.4	12.9	12.4	15
29	12.2	11.9	11.7	11.7	11.7	11.9	12.2	12.5	13.3	15.1	17.3	19.7	21.5	23.2	23.4	22.9	21.7	19.5	17.3	15.9	15.1	14.7	14.4	14.1	16
30	13.9	14	13.9	13.5	13.1	12.9	12.9	13.1	14.5	17.5	20.7	23.4	25.7	26.7	27.1	26.8	24.9	22.8	21	20.1	19.7	19.8	19.8	19.8	19.1
Avg	10.5	10.4	10.3	10.2	10.1	10	9.9	10.1	11.5	13.7	16	17.7	18.8	19.4	19.7	19.4	18.2	16	14.1	13	12.3	11.7	11.3	11	13.6
S D	5.1	5	5	5	4.9	4.9	4.9	4.9	4.6	4.3	4.5	4.8	5.2	5.4	5.4	5.3	5	4.7	4.5	4.6	4.7	4.9	5.1	5.3	4.3
S/A	0.48	0.48	0.48	0.49	0.49	0.49	0.5	0.48	0.4	0.32	0.28	0.27	0.27	0.28	0.27	0.27	0.28	0.29	0.32	0.35	0.38	0.42	0.45	0.48	0.32
Min	-0.6	-0.2	0.2	0.2	0.5	0.5	0.2	1	3.8	6.9	8.7	9	9.2	9.1	9.1	9.1	9	8.8	6.2	4.3	3	1.7	0.4	-0.4	5.6
Max	18.3	18.4	18.5	18.6	18.7	18.8	19.3	20.1	21.1	22.2	23.5	25.6	26.6	27.3	27.8	28	26.6	24.1	21.8	20.4	19.7	19.8	19.8	19.8	20.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: 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 2006

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	1.6	1.1	1.3	1.4	1.7	2.1	1.5	1.3	2.2	3.1	2.9	4.1	3.4	2.6	2.1	1.4	0.5	1.2	0.8	0.5	1.5	1.5	1.4	1	1.8
2	1.1	1.1	2.1	2	1.7	1.8	1.8	1.4	1	3.5	5.2	5.1	4.8	5.2	4	2.8	2.8	1.4	0.5	0.1	0.2	0.2	1.2	1	2.2
3	2.6	3	2.7	3	3.9	3.6	3.4	3.4	3.9	5	3.7	3.2	2.5	2.3	2.2	2.3	2.2	1.6	0.6	0.6	0.2	0.1	0.2	0.5	2.4
4	1.1	1.2	1.2	1.7	1.9	2.1	1.9	2.3	2.1	2.9	3.3	2.9	2.8	2.3	2	2.4	2.1	1.7	1.5	1.3	1.2	1.2	1.1	1.1	1.9
5	1.4	2	1.8	1.6	1.7	2	1.6	1.8	2.4	2	2.5	2.4	2.2	2.2	2.2	2.7	2.5	1.5	1	1.2	1	0.3	0.8	0.7	1.7
6	0.7	1	1.4	2.1	2.3	2.4	2.3	2	2.2	1.8	3.2	3.3	3.3	3	3.2	2.9	1.8	1.2	0.8	1.1	1	1.3	1.1	1.3	2
7	0.6	0.8	1	0.9	1.5	1.3	0.5	1.5	1.5	2.2	3	3.3	3.1	3	3.1	2.9	2.7	3.2	3.6	3.9	2.8	1.7	3.8	4	2.3
8	4.9	3.8	4.4	3.3	5.3	3.4	0.4	0.3	0.2	1.4	1.7	2.5	2.5	1.2	1.7	2.1	1.8	2	2.4	4.4	2.3	2.7	2.7	1.8	2.5
9	1.4	0.8	2	2	1.9	2.3	1.7	2.4	2.4	3.6	4.1	4.9	3.9	3.7	3.7	3.1	1.9	1.1	1.4	1.7	1.9	2.1	2.2	1.9	2.4
10	1.8	2.1	1.9	2.2	1.8	1.7	0.9	0.3	0.5	1.2	2.3	3	2.9	2.5	2.3	1.7	1.9	1.4	0.9	1.4	1.3	1.3	0.9	2	1.7
11	1.4	0.7	1.2	1.2	0.5	1.2	1.6	1.3	1.7	2.4	3	3.4	3.5	4	3.2	2.7	2.2	2.2	2.6	3.3	2.8	3	2.6	2	2.2
12	2	2.1	1.9	2.4	1.3	1.2	1.7	2.2	2.4	2.3	3.1	4.9	4.5	2.8	3	5.3	7	6.7	5.8	5.1	4.7	4.5	5.2	5	3.6
13	5.4	4.8	4.1	4.1	2.6	2.4	2.9	2.7	2.9	3.1	2.9	2.6	3.8	3.3	3.2	2.8	2.9	2.2	2.6	2.5	2.6	2.4	2.4	1.7	3
14	2.1	2.6	2.1	1.4	1.3	1.5	1.1	1.1	1	2.1	2.4	3.1	2.1	2.6	2.9	2.5	2	2.3	2.7	2.3	1.8	1.1	0.6	0.6	1.9
15	0.4	0.6	1	1.3	0.2	0.1	0.1	0.4	0.7	0.8	1.6	2.5	3	2.5	1.9	2.1	2.3	1.9	2.4	2.5	2.6	2.5	3.1	3.4	1.7
16	3.2	3.9	4	3.6	3.7	3.9	4.9	6.2	6.6	7.8	8	8.4	7.8	7.9	8	7.5	5.7	4.1	3.5	3.6	3.5	3.9	5.5	6.2	5.5
17	4.2	4.4	3.7	3.5	4.3	4.1	4.3	4.1	3.5	3.2	2.4	3.4	3.5	3.8	3.5	2.7	1.5	1	1.1	0.5	0.9	0.1	0.1	0.4	2.7
18	0.9	2.6	3.4	3.2	2.8	2.5	2.3	2.7	2.9	3	2.7	2.2	2.5	2	2.2	2.2	2.5	1.2	0.9	0.6	0.3	0.1	0.3	0.4	1.9
19	1.1	0.5	0.5	0.6	0.8	0.7	0.6	0.7	1.4	2.1	2.3	2.2	2.1	2.7	2.7	2.4	1.3	1	1	0.9	0.9	0.4	0.7	0.4	1.3
20	0.5	0.4	0.7	0.9	0.7	0.7	1	1	1.9	2.7	3.3	3	2.8	3.4	4.5	4	3.7	2.7	3	3.3	3.4	4	3.6	3.5	2.4
21	4.1	4.4	4.3	5	5	5.1	5.6	5.2	5.8	6.2	6.7	6.3	6.4	6.1	8.6	9.1	9.4	9.1	9.4	9.3	8.5	8.8	9.5	8.9	7
22	9.2	8.3	7.6	8.9	9.5	10.2	10.8	12.6	10.5	5.6	4.4	4.1	4	4.2	4.8	5.6	4.7	3.3	2.1	2.1	2.3	2.8	3.8	4.5	6.1
23	3.7	3.9	5	3.4	3.6	2.9	3.5	3.6	3	3.1	3.2	3.2	3.1	3.6	3.1	3.6	3.6	3.8	3.5	2.6	2.1	2.1	1.8	1.6	3.2
24	1.6	0.9	1.1	1.8	1.5	1.3	1.4	2	2.6	3.2	3.6	4.5	4.2	4	4.7	3.8	2.5	2	2.2	2.3	1	0.7	0.3	0.7	2.3
25	1.1	0.4	0.3	0.7	0.6	1	1.2	1.2	0.9	2.1	3.1	3.7	3.1	3.3	3.5	3.1	2.8	1.6	1.3	1.2	1	0.7	1	1.4	1.7
26	0.9	1.4	0.9	1.1	1.2	0.6	1.2	1.9	2.2	2.5	2.1	1.8	1.6	1.7	1.9	2.1	1.7	1.3	1.2	0.7	0.3	0.3	0	0	1.3
27	0	0	0.1	0	0.3	0	0	0.2	0.3	0.2	1	1	0.3	0.7	1.2	1.4	0.3	0.1	0	0.2	0.3	0.3	0.6	0.1	0.4
28	0	0	0	0.1	0.1	0	0	0.1	0	0	0.3	0.6	1.5	1.7	1.8	1.6	1.7	1.9	1.3	1	1	0.4	0.4	0.6	0.7
29	0.4	0.2	0.2	0.2	0	0.2	0	0	0.1	0.3	0.1	0.3	0.3	1	1.4	1.5	2.1	1.9	1.6	1.6	1	1.3	1.1	1	0.8
30	1.1	1.1	0.4	0.5	0.1	0.6	1.1	1.1	0.4	1.4	3.3	3.3	4.2	3.8	3.6	3.1	3.5	3	2.7	2.6	3.1	3.3	3.2	3.2	2.2
Avg	2	2	2.1	2.1	2.1	2.1	2	2.2	2.3	2.7	3.1	3.3	3.2	3.1	3.2	3.1	2.8	2.3	2.1	2.1	1.9	1.8	2	2	2.4
S D	2	1.9	1.8	1.8	2	2	2.2	2.5	2.2	1.7	1.6	1.6	1.5	1.5	1.7	1.7	1.9	1.8	1.8	1.9	1.7	1.8	2.1	2	1.5
S/A	0.98	0.93	0.85	0.84	0.95	0.96	1.06	1.1	0.94	0.64	0.52	0.49	0.48	0.48	0.52	0.55	0.67	0.77	0.85	0.87	0.88	1	1.01	1	0.61
Min	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.3	0.7	1.2	1.4	0.3	0.1	0	0.1	0.2	0.1	0	0	0.4
Max	9.2	8.3	7.6	8.9	9.5	10.2	10.8	12.6	10.5	7.8	8	8.4	7.8	7.9	8.6	9.1	9.4	9.1	9.4	9.3	8.5	8.8	9.5	8.9	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: 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 2006

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	204	203	212	210	213	224	217	220	227	242	253	258	252	245	227	225	145	65	92	136	183	193	210	189	225
2	197	183	224	225	228	225	231	261	349	342	351	355	351	348	335	330	327	318	308	309	232	269	257	275	319
3	314	326	330	326	328	328	326	329	339	336	334	349	343	336	338	350	348	359	3	348	332	337	305	311	335
4	327	319	317	329	331	328	322	330	328	354	20	16	16	21	26	51	52	54	48	38	30	28	355	344	4
5	346	348	344	331	336	342	329	339	349	358	21	33	28	60	40	54	50	48	24	351	355	342	320	327	9
6	330	328	336	345	343	341	339	359	3	16	59	60	59	63	63	67	61	39	6	8	4	24	33	45	27
7	24	356	344	8	23	24	23	53	67	76	77	75	77	70	55	59	78	112	110	93	84	79	103	114	77
8	122	127	115	123	120	111	98	337	239	247	241	230	258	251	247	253	249	241	251	232	252	262	265	255	199
9	272	282	316	313	316	299	292	307	305	316	316	319	313	296	288	288	286	262	250	253	253	254	253	240	294
10	241	241	238	255	266	269	297	263	251	43	55	60	63	76	98	98	123	126	120	112	131	124	120	119	110
11	122	130	135	132	149	152	164	176	196	216	218	204	194	186	182	181	164	160	157	153	176	188	189	192	179
12	181	188	179	220	225	53	76	86	81	86	255	328	341	315	285	255	248	266	288	294	292	290	287	290	280
13	292	296	305	317	300	280	280	292	282	281	279	282	286	291	292	285	274	282	265	263	269	267	258	256	285
14	244	257	259	260	238	223	255	215	220	174	171	168	169	176	176	162	131	151	141	151	148	142	188	146	184
15	133	157	209	225	225	95	82	109	137	134	86	96	115	100	87	93	96	93	99	106	123	126	117	120	112
16	123	122	120	121	121	125	130	132	135	141	144	145	146	146	150	155	161	166	172	184	194	203	227	240	152
17	226	233	228	221	226	226	228	232	236	233	218	226	247	256	248	258	271	239	241	227	242	241	238	266	235
18	322	2	2	359	356	3	3	5	17	11	355	350	345	352	333	319	320	21	13	2	9	346	306	305	354
19	276	285	304	304	285	289	296	281	329	316	322	311	318	308	300	323	321	339	327	345	349	347	328	316	314
20	305	287	283	305	335	313	323	315	333	359	17	357	343	358	2	14	14	27	15	15	14	2	3	2	1
21	2	4	358	357	357	353	349	356	359	4	4	6	8	12	28	31	32	32	32	32	29	26	33	33	17
22	30	33	26	26	24	27	35	76	103	113	100	50	44	43	76	81	76	67	56	51	36	41	35	38	52
23	29	25	29	26	16	9	6	359	354	351	357	357	4	1	2	6	13	14	8	14	4	4	0	355	9
24	356	343	337	340	352	8	346	347	358	16	42	49	46	49	48	48	49	47	52	47	47	33	28	39	31
25	34	36	21	33	24	28	34	36	39	62	81	89	80	84	95	92	97	77	49	38	43	33	39	51	69
26	42	36	39	43	41	31	31	40	49	63	71	88	78	81	105	82	99	91	94	93	92	93	60	50	68
27	19	42	50	10	55	15	8	15	40	40	74	86	196	244	182	148	144	134	167	196	197	200	201	214	145
28	0	0	0	2	38	47	82	49	101	182	185	144	127	154	140	155	177	180	172	174	183	161	172	165	161
29	133	82	91	149	67	152	1	142	169	171	146	94	117	125	127	150	149	137	151	157	160	160	173	175	148
30	193	196	180	159	109	161	162	170	182	199	210	226	219	239	237	237	231	220	217	219	230	227	228	233	221
Avg	345	345	348	342	351	350	350	17	18	8	20	19	14	19	36	49	53	61	52	53	5	336	314	340	12
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

November 2006

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	2.9	2	2.2	2.5	2.9	3.2	2.6	2.4	3.7	5.1	5.3	6.9	5.5	4.6	3.7	2.5	1	1.8	1.5	1.1	3	2.9	2.5	2.1	3.1
2	2.1	2.1	3.3	3.1	2.6	3	3.1	3	2.2	6	8.7	8.4	7.8	8.9	7.1	5.9	5.3	3.1	1.2	0.6	0.5	0.7	1.9	1.9	3.9
3	4.7	5.6	5.2	5.9	7.3	7.1	6.2	6.3	7.6	9.1	7.3	6.1	4.9	4.9	4.4	4.3	4.1	2.9	1.5	1.2	0.7	0.3	0.7	1.1	4.6
4	1.8	2.4	2.4	3.3	3.3	4	3.4	4.4	4.6	5.1	6.2	5.5	5.3	4.3	3.9	4.1	3.5	3	2.6	2.3	2.2	2.2	1.8	1.8	3.5
5	2.3	3	3	2.6	2.8	3.2	2.8	3.2	4.1	3.6	4.3	4.3	4	3.9	3.9	4.7	4.2	2.6	2.1	2	1.8	0.9	1.4	1.3	3
6	1.4	1.9	2.4	3.3	3.5	3.6	3.4	3.4	3.8	3.5	5.4	5.2	5.4	5.2	5.5	4.8	3.3	1.9	1.6	1.8	1.6	2	1.9	2.3	3.3
7	1.3	1.5	1.4	1.7	2.4	2.3	1.2	2.7	2.8	4	4.9	5.6	4.9	4.6	5	5.1	4.6	5.7	6.6	6.6	5.1	3.5	6.4	6.6	4
8	8.1	6.4	6.9	5.8	9	6.5	1.1	0.7	1	2.6	3.2	4.1	4.4	2.6	3.7	3.5	3.1	3.5	4	7	3.9	4.5	4.7	3.3	4.3
9	3.3	2.5	4.4	4.7	4.7	5	4.3	5.3	5.4	7.2	7.9	8.5	7.7	7	7.2	6.1	3.7	1.8	2	2.5	2.8	3.3	3.7	2.8	4.7
10	2.7	3.1	2.9	3.6	3.2	2.9	2	1	1.3	2.5	4.3	5	4.7	4.1	3.7	2.8	2.7	2.1	1.5	2.2	2.1	2	1.5	2.7	2.8
11	2.2	1.3	2	2	1.3	2.1	2.9	2.7	3.2	4	4.9	6	6.1	7	5.8	5.3	4	3.8	4.6	5.3	5.3	5.8	4.6	3.8	4
12	3.8	4.3	3.5	3.6	2.7	2	2.9	3.5	4.1	3.7	5.6	8.7	7.9	6.1	6.7	9	11.8	11.8	11.1	11.2	9.8	8.9	10.2	10	6.8
13	10.8	9.6	8.5	8.5	5.6	5.2	6.3	6.3	6.5	6.8	6.2	6	8	6.9	6.6	5.6	5.7	4.8	4.9	4.2	4.9	4.3	3.9	2.9	6.2
14	3.3	4.5	4	2.7	2.1	2.6	1.9	2.3	2.1	3.5	4.5	5.3	4	4.9	5.3	4.3	3.4	4	4.5	4.1	2.9	2.1	1.3	1.3	3.4
15	0.8	1.3	2	2.1	0.8	0.3	0.5	1.1	1.6	1.6	2.7	4	4.7	4.1	3.3	3.3	3.5	3.1	3.6	3.8	4.1	4.1	4.8	5.4	2.8
16	5.2	6.2	6	5.9	6.1	6.4	8	10.2	11.4	13.7	13.4	14	13	13.1	13.5	12.9	9.7	7.1	6.6	6.6	6.6	6.4	8.9	10	9.2
17	6.6	7	5.9	5.6	6.8	6.6	6.6	6.3	5.9	5.3	4.3	5.7	6.1	6.7	6	5.1	2.9	1.5	1.6	0.9	1.5	0.2	0.4	0.9	4.4
18	1.8	4.4	5.8	5.4	5	4.2	4	4.6	5.3	5	4.5	4.1	4.1	3.6	4.1	4.3	4.5	2.3	1.6	1.3	0.8	0.4	0.7	0.9	3.5
19	2	1.3	1.3	1.3	1.7	1.6	1.4	1.5	2.9	4.3	4.5	4.4	4.3	5.3	5.3	4.6	2.8	1.9	1.7	1.4	1.3	1	1.3	0.9	2.5
20	1	1	1.4	1.5	1.3	1.1	1.7	1.8	3.6	4.7	5.7	5.2	5.5	5.8	7.4	6.8	6	5	5.5	6.1	6.3	6.7	6.4	6.1	4.3
21	6.9	8.1	7.6	8.6	8.3	8.5	9.8	8.5	10.2	10.8	10.7	10.6	10.8	11	14.6	15.6	15.7	15.4	15.7	15.6	15	15.2	15.9	15.1	11.8
22	15.2	14.5	13.1	14.5	15.8	17.2	18.2	20.5	18.4	9.8	8.5	7.2	6.6	7.2	7.9	9.6	8.5	6.3	4.2	3.9	4.8	5.5	6.6	7.4	10.5
23	7.2	7.6	9.3	6.9	8.2	6.3	7.1	7.8	6.5	6.8	6.9	6.8	7.3	7.5	6.6	7.6	7.5	8.3	7.1	5.9	5.2	5.3	4.7	4.3	6.9
24	3.9	3.1	3.3	4.4	4.2	3.7	3.4	4.4	5.6	6.6	7	7.6	7.5	6.8	8.2	6.6	4.2	3.3	3.6	3.6	1.9	1.6	1.2	1.7	4.5
25	2	1.4	1.3	1.9	1.7	2	2.4	2.3	2.1	3.7	5	5.9	5.3	5.5	5.8	5.5	4.7	2.7	2.1	2.1	2	1.6	1.9	2.2	3
26	1.8	2.6	2.1	2.1	2.4	1.7	2.3	3.2	4.1	4.3	3.5	3.3	3.4	3.1	3.3	3.5	2.8	2.2	2	1.5	0.8	0.9	0.2	0.3	2.4
27	0	0.1	0.5	0.3	0.9	0	0.1	1	1.1	0.9	2	2	1.3	1.9	2.3	2.2	0.7	0.3	0.1	0.4	0.7	0.7	1.4	0.3	0.9
28	0	0	0	0.3	0.5	0.1	0	0.3	0	0.4	1	1.6	2.5	2.9	3	2.8	2.7	3	2	1.6	1.5	0.9	0.8	0.9	1.2
29	0.7	0.6	0.6	0.5	0.1	0.6	0	0	0.5	0.7	0.5	1	1.2	1.9	2.4	2.5	3.4	3.1	2.6	2.5	1.7	1.8	1.8	1.7	1.4
30	1.9	1.8	0.8	0.8	0.3	1.2	1.6	1.7	0.8	2.6	5.3	5.1	7.1	6.5	6.3	5.6	5.8	5.1	4.6	4.3	5.6	5.7	5.5	5.5	3.8
Avg	3.6	3.7	3.8	3.8	3.9	3.8	3.7	4.1	4.4	4.9	5.5	5.8	5.7	5.6	5.7	5.6	4.9	4.1	3.8	3.8	3.6	3.4	3.6	3.6	4.4
S D	3.4	3.2	3	3	3.4	3.4	3.7	4	3.8	3	2.7	2.6	2.5	2.8	3	3.1	3.1	3.2	3.3	3.1	3.2	3.5	3.4	2.5	2.5
S/A	0.94	0.87	0.8	0.79	0.86	0.89	0.99	0.98	0.85	0.61	0.49	0.45	0.43	0.44	0.49	0.54	0.64	0.76	0.84	0.87	0.87	0.94	0.96	0.96	0.58
Min	0	0	0	0.3	0.1	0	0	0	0	0.4	0.5	1	1.2	1.9	2.3	2.2	0.7	0.3	0.1	0.4	0.5	0.2	0.2	0.3	0.9
Max	15.2	14.5	13.1	14.5	15.8	17.2	18.2	20.5	18.4	13.7	13.4	14	13	13.1	14.6	15.6	15.7	15.4	15.7	15.6	15	15.2	15.9	15.1	11.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 2006

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	1015	1015	1015	1014	1015	1015	1015	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1012	1014
2	1012	1011	1010	1010	1010	1010	1010	1011	1012	1012	1013	1014	1014	1014	1014	1014	1015	1015	1016	1017	1018	1018	1019	1019	1014
3	1020	1020	1021	1021	1022	1023	1024	1025	1025	1026	1026	1026	1025	1025	1025	1025	1025	1026	1027	1027	1028	1028	1029	1029	1025
4	1029	1029	1029	1029	1029	1029	1030	1031	1032	1032	1032	1032	1031	1031	1031	1031	1031	1031	1031	1032	1032	1032	1032	1031	1031
5	1031	1031	1031	1031	1031	1031	1031	1031	1032	1032	1031	1031	1030	1029	1029	1029	1029	1029	1029	1029	1029	1029	1029	1028	1030
6	1028	1028	1028	1028	1028	1028	1028	1028	1028	1029	1029	1028	1028	1027	1027	1026	1026	1026	1025	1025	1025	1024	1024	1023	1027
7	1023	1022	1022	1022	1022	1021	1021	1021	1020	1020	1020	1018	1017	1016	1015	1014	1014	1013	1012	1011	1010	1009	1007	1006	1016
8	1005	1004	1002	1001	1000	999	998	997	998	997	997	996	995	995	994	994	994	994	995	995	996	996	996	996	997
9	996	996	996	997	998	998	999	1000	1001	1002	1002	1002	1002	1002	1002	1003	1003	1004	1005	1006	1006	1006	1007	1007	1002
10	1007	1008	1008	1008	1009	1010	1011	1012	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1013
11	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1014	1013	1012	1011	1011	1011	1011	1010	1010	1010	1010	1010	1009	1009	1012
12	1009	1008	1007	1006	1006	1006	1006	1005	1004	1002	1001	1000	998	998	997	997	998	998	1000	1001	1003	1003	1004	1005	1003
13	1005	1005	1006	1005	1006	1006	1007	1007	1008	1008	1008	1008	1007	1007	1007	1007	1007	1008	1008	1008	1009	1009	1009	1009	1007
14	1009	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1010	1009	1008	1008	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009
15	1009	1009	1009	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1010	1010	1010	1010	1009	1010
16	1009	1008	1008	1007	1007	1006	1006	1005	1005	1004	1003	1002	1001	1000	1000	1000	1000	1001	1001	1001	1002	1003	1003	1004	1003
17	1004	1005	1005	1006	1006	1007	1007	1008	1009	1010	1010	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1012	1012	1012	1009
18	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1014	1013	1012	1012	1012	1011	1011	1012	1012	1012	1013	1013	1013	1012	1013
19	1012	1012	1012	1011	1011	1012	1012	1013	1013	1013	1013	1013	1012	1012	1011	1012	1012	1012	1012	1013	1014	1014	1014	1014	1013
20	1014	1014	1015	1015	1015	1015	1016	1017	1017	1018	1018	1018	1018	1017	1016	1017	1018	1019	1020	1021	1021	1022	1022	1018	
21	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1020	1019	1018	1017	1017	1017	1017	1017	1017	1016	1016	1015	1014	1019
22	1012	1011	1011	1010	1008	1007	1006	1005	1007	1009	1010	1009	1008	1007	1007	1008	1009	1009	1010	1010	1010	1010	1010	1009	1009
23	1009	1009	1009	1009	1009	1010	1010	1011	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1015	1015	1016	1016	1012
24	1016	1016	1016	1015	1016	1016	1016	1017	1018	1019	1019	1019	1018	1018	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1018
25	1021	1021	1022	1022	1022	1023	1023	1024	1024	1025	1025	1025	1024	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1024	1024
26	1024	1024	1024	1024	1024	1025	1025	1026	1026	1027	1027	1026	1026	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026	1025	1025
27	1025	1025	1025	1025	1025	1025	1026	1026	1026	1027	1027	1026	1025	1025	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1025
28	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1026	1025	1024	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1024
29	1025	1024	1025	1024	1024	1025	1025	1026	1026	1027	1027	1026	1026	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1025	1025
30	1025	1025	1024	1024	1024	1024	1024	1024	1025	1025	1025	1024	1022	1021	1021	1021	1020	1020	1020	1020	1019	1019	1019	1018	1022
Avg	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016
S D	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	996	996	996	997	998	998	998	997	998	997	997	996	995	995	994	994	994	994	995	995	996	996	996	996	997
Max	1031	1031	1031	1031	1031	1031	1031	1031	1032	1032	1032	1032	1031	1031	1031	1031	1031	1031	1031	1032	1032	1032	1032	1031	1031
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 2006

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

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