

October 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	51	228	421	569	698	710	447	568	465	191	110	21	0	0	0	0	0	0	4481
2	0	0	0	0	0	0	15	121	324	520	686	789	654	725	532	274	106	17	0	0	0	0	0	0	4763
3	0	0	0	0	0	0	32	175	397	491	492	774	743	480	530	373	169	35	0	0	0	0	0	0	4691
4	0	0	0	0	0	0	43	175	376	510	488	401	626	626	570	295	169	44	0	0	0	0	0	0	4324
5	0	0	0	0	0	0	22	86	214	482	426	474	608	578	517	213	102	12	0	0	0	0	0	0	3735
6	0	0	0	0	0	0	34	157	400	471	336	376	357	135	332	287	25	10	0	0	0	0	0	0	2921
7	0	0	0	0	0	0	43	156 ?	401	516	607	628	723	655	516	331	141	21	0	0	0	0	0	0	4737
8	0	0	0	0	0	0	44	144	374	506	589	697	726	638	504	327	138	23	0	0	0	0	0	0	4710
9	0	0	0	0	0	0	36	178	359	516	602	609	663	527	335	304	129	10	0	0	0	0	0	0	4269
10	0	0	0	0	0	0	27	87	102	111 ?	155	374	566	346	406	308	124	20	0	0	0	0	0	0	2624
11	0	0	0	0	0	0	12	42	200	415	596	629	728	646	533	274	130	19	0	0	0	0	0	0	4223
12	0	0	0	0	0	0	44	200	396	557	682	742	731	654	520	336	138	19	0	0	0	0	0	0	5020
13	0	0	0	0	0	0	37	184	376	537	532	393	347	434	424	316	93	18	0	0	0	0	0	0	3691
14	0	0	0	0	0	0	42	186	374	527	648	689	497	599	431	245	116	18	0	0	0	0	0	0	4372
15	0	0	0	0	0	0	44	168	388 ?	518	636	691	674	599	469	295	112	15	0	0	0	0	0	0	4610
16	0	0	0	0	0	0	38	173	348	522	615	627	443	430	300	206	75	7	0	0	0	0	0	0	3784
17	0	0	0	0	0	0	30	132 ?	336 ?	428	597	522	605	614	406	295	108	13	0	0	0	0	0	0	4084
18	0	0	0	0	0	0	29	102	170	211	485	536	455	542	182	256	97	9	0	0	0	0	0	0	3074
19	0	0	0	0	0	0	25	118	127	328	310	269	405	278	102 ?	214	58	7	0	0	0	0	0	0	2239
20	0	0	0	0	0	0	12	58	155	437	625	686	670	614	472	287	109	11	0	0	0	0	0	0	4136
21	0	0	0	0	0	0	30	174	360	523	638	697	678	566	423	207	70	8	0	0	0	0	0	0	4373
22	0	0	0	0	0	0	27	98	217	467	663	629	471	354	290	200	96	10	0	0	0	0	0	0	3523
23	0	0	0	0	0	0	20	135	99	269	549	646	580	568	421	211	81	6	0	0	0	0	0	0	3585
24	0	0	0	0	0	0	13	51	167	433	438	319	636	574	442	226	32	3	0	0	0	0	0	0	3334
25	0	0	0	0	0	0	2	7 ?	49 ?	107 ?	265	294	262	175	136	109	29	3	0	0	0	0	0	0	1439 ?
26	0	0	0	0	0	0	16	111	166	136	330	227	129	114	63	22 ?	6 ?	2	0	0	0	0	0	0	1322 ?
27	0	0	0	0	0	0	6	7 ?	32 ?	76	64 ?	203	137	171	179	136	44	4	0	0	0	0	0	0	1058 ?
28	0	0	0	0	0	0	27	109	279	358	392	395	353	278	224	104	41	4	0	0	0	0	0	0	2563
29	0	0	0	0	0	0	14	111	325	495	615	669	655	577	442	277	60 ?	1	0	0	0	0	0	0	4241
30	0	0	0	0	0	0	33	129 ?	?	?	?	?	?	?	?	?	62	3	0	0	0	0	0	0	226 ?
31	0	0	0	0	0	0	22	101	247 ?	?	?	?	?	?	?	81 ?	49 ?	4	0	0	0	0	0	0	504 ?
Avg	0	0	0	0	0	0	28	126	273	415	509	541	537	485	385	240	91	13	0	0	0	0	0	0	3441
S D	0	0	0	0	0	0	13	55	120	150	165	177	176	177	144	84	43	10	0	0	0	0	0	0	1337
S/A	0	0	0	0	0	0	0.45	0.44	0.44	0.36	0.32	0.33	0.33	0.36	0.37	0.35	0.47	0.76	0	0	0	0	0	0	0.39
Min	0	0	0	0	0	0	2	7	32	76	64	203	129	114	63	22	6	1	0	0	0	0	0	0	226
Max	0	0	0	0	0	0	51	228	421	569	698	789	743	725	570	373	169	44	0	0	0	0	0	0	5020
n	0	0	0	0	0	0	299	342	332	336	345	348	348	347	340	337	359	153	0	0	0	0	0	0	3886

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.9% exceed the 15% QC threshold -- 4172 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.

October 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	213	563	687	690	753	465	123	388	341	54	42	0	0	0	0	0	0	0	4320
2	0	0	0	0	0	0	0	12	173	473	646	809	565	801	516	116	14	2	0	0	0	0	0	0	4128
3	0	0	0	0	0	0	2	299	640	604	397	760	746	472	711	688	514	179	0	0	0	0	0	0	6011
4	0	0	0	0	0	0	98	213	407	460	288	70	447	486	666	340	312	117	0	0	0	0	0	0	3904
5	0	0	0	0	0	0	0	1	17	168	75	91	210	300	493	170	132	0	0	0	0	0	0	0	1658
6	0	0	0	0	0	0	21	136	561	417	199	186	347 ?	0	255	379	4	2	0	0	0	0	0	0	2508
7	0	0	0	0	0	0	86	518 ?	728	650	567	602	782	811	749	629	445	135	0	0	0	0	0	0	6700
8	0	0	0	0	0	0	110	43	525	666	634	746	783	736	699	591	388	98	0	0	0	0	0	0	6017
9	0	0	0	0	0	0	126	394	526	620	598	521	581	489	337	511	338	20	0	0	0	0	0	0	5063
10	0	0	0	0	0	0	14	12	2	1	4	60	248	146	279	358	252	69	0	0	0	0	0	0	1446
11	0	0	0	0	0	0	0	0	3	181	467	376	833	808	705	404	398	91	0	0	0	0	0	0	4264
12	0	0	0	0	0	0	313	631	772	843	875	886	880	864	822	745	553	209	0	0	0	0	0	0	8393
13	0	0	0	0	0	0	159	494	695	776	543	259	189	363	493	478	220	117	0	0	0	0	0	0	4787
14	0	0	0	0	0	0	89	545	711	745	790	691	363	649	522	328	401	112	0	0	0	0	0	0	5945
15	0	0	0	0	0	0	213	557	713 ?	774	806	805	787	761	701	583	369	71	0	0	0	0	0	0	7141
16	0	0	0	0	0	0	144	610	608	743	684	639	217	193	136	69	9	0	0	0	0	0	0	0	4052
17	0	0	0	0	0	0	59	422 ?	691 ?	543	591	392	572	760	551	622	391	74	0	0	0	0	0	0	5667
18	0	0	0	0	0	0	22	60	2	0	259	371	225	481	21	221	114	0	0	0	0	0	0	0	1777
19	0	0	0	0	0	0	1	67	0	103	23	4	52	17	1 ?	214	10	8	0	0	0	0	0	0	501
20	0	0	0	0	0	0	0	0	0	493	824	843	809	824	745	651	499	153	0	0	0	0	0	0	5842
21	0	0	0	0	0	0	300	671	807	852	866	872	841	729	621	309	85	0	0	0	0	0	0	0	6950
22	0	0	0	0	0	0	13	66	303	515	754	579	326	130	134	247	342	60	0	0	0	0	0	0	3468
23	0	0	0	0	0	0	5	101	4	70	554	669	467	628	551	213	62	3	0	0	0	0	0	0	3326
24	0	0	0	0	0	0	1	0	56	358	302	192	731	697	697	309	1	0	0	0	0	0	0	0	3344
25	0	0	0	0	0	0	0	0	0	0	4	9	12	2	5	4	0	0	0	0	0	0	0	0	37
26	0	0	0	0	0	0	0	22	5	1	31	6	0	0	0	0	0	0	0	0	0	0	0	0	64
27	0	0	0	0	0	0	2	0	0	0	0	2	2	0	0	7	1	2	0	0	0	0	0	0	17
28	0	0	0	0	0	0	35	257	429	307	173	79	57	26	53	0	0	5	0	0	0	0	0	0	1421
29	0	0	0	0	0	0	0	214	652	786	843	853	849	835	806	727	404 ?	11	0	0	0	0	0	0	6981
30	0	0	0	0	0	0	136	330 ?	?	?	?	?	?	?	?	?	178	4	0	0	0	0	0	0	648 ?
31	0	0	0	0	0	0	27	186	327 ?	?	?	?	?	?	?	34 ?	82 ?	3	0	0	0	0	0	0	659 ?
Avg	0	0	0	0	0	0	71	239	368	443	467	443	450	462	435	333	212	50	0	0	0	0	0	0	3775
S D	0	0	0	0	0	0	91	234	311	298	304	319	307	316	286	243	189	63	0	0	0	0	0	0	2458
S/A	0	0	0	0	0	0	1.29	0.98	0.85	0.67	0.65	0.72	0.68	0.68	0.66	0.73	0.89	1.26	0	0	0	0	0	0	0.65
Min	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	17
Max	0	0	0	0	0	0	313	671	807	852	875	886	880	864	822	745	553	209	0	0	0	0	0	0	8393
n	0	0	0	0	0	0	299	354	340	348	346	346	345	348	342	347	364	153	0	0	0	0	0	0	3933

Daylight Data Recovery: 0.0% missing; 0.0% untested; 5.7% exceed the 15% QC threshold -- 4172 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 μV/W/m² 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

October 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	28	63	82	116	117	312	344	275	239	167	89	21	0	0	0	0	0	0	1852
2	0	0	0	0	0	0	15	117	227	210	183	122	185	131	197	215	101	17	0	0	0	0	0	0	1719
3	0	0	0	0	0	0	35	86	85	111	181	150	130	114	89	69	47	19	0	0	0	0	0	0	1115
4	0	0	0	0	0	0	29	122	169	195	243	323	264	239	154	133	96	33	0	0	0	0	0	0	1999
5	0	0	0	0	0	0	24	86	206	375	370	399	429	350	211	134	65	12	0	0	0	0	0	0	2661
6	0	0	0	0	0	0	30	111	130	213	207	212	147	135	199	100	24	10	0	0	0	0	0	0	1518
7	0	0	0	0	0	0	26	53 ?	57	109	186	149	108	74	70	68	43	11	0	0	0	0	0	0	954
8	0	0	0	0	0	0	30	124	121	99	123	112	116	114	95	84	56	16	0	0	0	0	0	0	1090
9	0	0	0	0	0	0	24	77	124	146	180	209	213	179	139	96	59	9	0	0	0	0	0	0	1454
10	0	0	0	0	0	0	28	86	102	84	155	322	359	250	247	170	77	16	0	0	0	0	0	0	1897
11	0	0	0	0	0	0	12	42	200	295	263	302	86	83	129	109	51	13	0	0	0	0	0	0	1586
12	0	0	0	0	0	0	18	45	58	62	63	63	61	58	55	47	33	9	0	0	0	0	0	0	573
13	0	0	0	0	0	0	23	65	76	81	162	186	193	175	145	118	61	13	0	0	0	0	0	0	1298
14	0	0	0	0	0	0	22	51	68	89	95	162	212	156	134	118	46	12	0	0	0	0	0	0	1163
15	0	0	0	0	0	0	21	51	63 ?	71	77	86	91	93	87	78	47	12	0	0	0	0	0	0	776
16	0	0	0	0	0	0	20	50	92	92	139	146	273	291	218	178	74	7	0	0	0	0	0	0	1579
17	0	0	0	0	0	0	20	53 ?	69	121	185	222	186	115	112	71	40	10	0	0	0	0	0	0	1204
18	0	0	0	0	0	0	28	91	170	211	296	253	276	213	169	170	77	9	0	0	0	0	0	0	1962
19	0	0	0	0	0	0	25	106	127	270	295	266	360	268	84 ?	124	55	8	0	0	0	0	0	0	1988
20	0	0	0	0	0	0	12	58	155	140	70	73	88	82	81	61	28	6	0	0	0	0	0	0	854
21	0	0	0	0	0	0	14	34	42	53	63	71	80	90	88	94	53	8	0	0	0	0	0	0	690
22	0	0	0	0	0	0	28	84	101	157	159	205	232	269	214	116	40	8	0	0	0	0	0	0	1616
23	0	0	0	0	0	0	20	109	98	221	162	156	232	158	129	127	70	6	0	0	0	0	0	0	1488
24	0	0	0	0	0	0	13	51	142	226	227	205	120	124	83	116	32	3	0	0	0	0	0	0	1342
25	0	0	0	0	0	0	2	11	47	68	265	291	257	164	127	108	29	4	0	0	0	0	0	0	1371
26	0	0	0	0	0	0	18	105	166	136	313	225	129	114	63	18 ?	6 ?	2	0	0	0	0	0	0	1296
27	0	0	0	0	0	0	6 ?	10	27	71	56	203	137	171	179	135	44	5	0	0	0	0	0	0	1045
28	0	0	0	0	0	0	24	58	108	187	276	322	290	258	196	104	41	4	0	0	0	0	0	0	1868
29	0	0	0	0	0	0	14	58	73	74	73	74	72	67	61	60	56 ?	2	0	0	0	0	0	0	684
30	0	0	0	0	0	0	16	32 ?	?	?	?	?	?	?	?	?	41	4	0	0	0	0	0	0	93 ?
31	0	0	0	0	0	0	19	38	47 ?	?	?	?	?	?	?	46 ?	30 ?	4	0	0	0	0	0	0	185 ?
Avg	0	0	0	0	0	0	21	69	108	148	179	201	196	166	138	108	52	10	0	0	0	0	0	0	1320
SD	0	0	0	0	0	0	8	31	53	80	86	91	100	79	58	44	22	7	0	0	0	0	0	0	563
S/A	0	0	0	0	0	0	0.36	0.46	0.49	0.54	0.48	0.45	0.51	0.48	0.42	0.41	0.42	0.65	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	2	10	27	53	56	63	61	58	55	18	6	2	0	0	0	0	0	0	93
Max	0	0	0	0	0	0	35	124	227	375	370	399	429	350	247	215	101	33	0	0	0	0	0	0	2661
n	0	0	0	0	0	0	281	351	343	347	348	348	348	348	343	342	360	153	0	0	0	0	0	0	3913

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.2% exceed the 15% QC threshold -- 4172 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 μV/W/m² 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

October 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	17.7	17.4	17.7	17.7	16.8	16.9	17.6	19.4	22	23.4	24	24.4	24	24	24.1	22.8	21.7	21.2	20.8	20.4	20.1	19.8	19.7	19.2	20.5
2	18.6	18.6	18.6	18.8	19.2	19.4	19.7	20.7	22.9	25.2	26.2	26.7	27.1	26.9	26.9	26.1	24.5	23.7	22.9	22.3	22	21.9	21.8	21.9	22.6
3	21.5	21.5	21.5	21.5	21.6	21.6	21.7	22.3	24.4	26.3	27.2	28.1	28.9	28.5	28.4	27.7	27	25.8	24.7	23.9	23.3	22.9	22.7	22.3	24.4
4	22	21.7	21.4	21.3	21.3	21.3	21.6	22.8	24.5	26.2	26.9	26.9	27.1	27.6	27.7	27	26.2	24.8	23.5	22.9	22.5	22.6	23	23.2	24
5	23.3	23.2	23.2	23.1	23	23	23.2	23.7	24.5	26	26.8	27.2	27.6	27.9	27.8	26.8	26.1	24.8	23.8	23.2	22.9	22.6	22.5	22.3	24.5
6	22.2	22.1	22.2	22.4	22.6	22.9	23.2	23.7	25.1	26.3	26.9	27.2	27.6	25	25.6	26.2	25.3	24.9	24.1	23.6	23.6	23.3	22.7	22.4	24.2
7	22.1	21.7	21.5	21.3	21.1	20.9	20.8	21.8	23.5	25.1	26.8	28.1	29.3	30.1	30.7	30.7	30.5	29.1	26.4	25.4	24.6	24.3	23.8	23.4	25.1
8	23.1	22.9	22.8	22.4	21.6	20.9	20.7	22.2	24.3	26.2	27.8	29.3	30.2	30.5	30	28.9	27.5	26	24.8	24.2	23.8	23.4	23.2	23.1	25
9	23	22.7	22.7	22.4	22.2	22.2	22.1	22.9	24.5	27.3	30.3	31.7	32.8	33.3	33.4	33.8	32.9	30.8	29	27.8	26.8	26.3	25.4	24.6	27.1
10	24.3	23.9	23.6	23	22.6	22.2	22.4	22.2	22.6	21.9	22.3	23	24.6	25.5	26.4	27.2	26.6	24.9	23.7	23.2	22.7	22.5	22.2	21.8	23.6
11	21.4	21.4	21.8	21.8	21.5	20.6	19.6	18.7	18.1	18	19	19.9	21	21.6	21.2	20.4	19.2	17.8	16.5	15.3	14.3	13.6	12.4	11.3	18.6
12	10.9	10.6	10.4	9.7	9.2	9.2	9.2	10.7	13.3	16.1	17.7	19.1	20.2	21	21.4	21.6	21.3	20.1	18.2	16.7	15.5	14.4	13.5	12.9	15.1
13	12.6	12.5	12.8	12.4	11	11.3	10.8	12.4	16.3	19	20.5	20.8	20.7	21.3	21.2	20.7	19.7	18.7	17.7	17.2	16.9	16.1	14.5	13.5	16.3
14	12.8	12.5	11.8	11	10.9	10.4	10.4	12.8	16.5	19.3	21	22.2	22.1	21.7	21.6	20.4	19.6	18.3	17.4	16.7	15.9	14.5	13.1	13.3	16.1
15	12.6	12.4	12.3	12.5	11.8	11	10.1	12.7	17.8	20.3	21.1	22.3	23	23.2	22.5	21.6	20.7	19.5	18.5	17.7	17.3	16.9	16.2	15.2	17.1
16	14.9	14.2	14	13.4	12.6	12.4	13	15.4	19.2	21.1	22.4	23.8	23.7	23.8	23.8	23.2	22.1	21.1	20.5	20.1	19.8	19.3	19.2	19	18.8
17	19	18.8	18.2	17.6	17.1	17.4	17.3	18.8	21.8	23.7	24.6	25	25.8	26	26.9	25.9	24.4	23.1	22.3	21.8	21.5	21.2	21.2	20.8	21.7
18	20.4	19.9	19.7	19.9	19.8	19.7	20.2	21.2	22.8	24.5	25.8	25.8	27	27.4	28.2	27.5	27.3	26.6	25.3	24.6	24.4	24.1	23.9	23.7	23.6
19	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.9	24.5	25.8	26.9	27.5	28.2	28.7	26.6	24.4	25.4	25	24.7	24.6	24.4	24.2	23.9	23.4	24.8
20	23	22.5	22	21.6	21.6	21.2	20.7	20.5	20.4	21.1	23.4	24.5	25.1	25.6	25.5	25.1	24.4	22.6	20.8	19.3	18.3	17	16.1	15.5	21.6
21	14.5	14.9	14.3	13.7	12.7	13.4	13.9	16	19.6	21.7	23.4	24.3	24.7	24.5	24.2	23.6	22.7	21.7	20.7	20.1	19.9	19.6	19.3	19.5	19.3
22	19.2	18.9	18.4	18.8	18.2	17.9	18.3	19.1	20.7	23.1	23.9	24.7	24.8	24.9	25	25.1	24.6	23.1	22.1	21.4	21.1	21	21.2	21.1	21.5
23	20.9	20.7	20.9	20.6	20.7	20.7	20.5	21.3	22.8	22.6	24.7	26.1	27.3	28.4	29	28.6	27.9	26.6	25.5	24.6	24	23.7	23.8	23.5	24
24	23.2	23	22.9	23.2	23.7	24.1	24.1	24.3	24.8	26.1	27.2	27.6	26.1	28.4	28.5	27.7	26.7	25.8	25.2	24.3	23.9	23.7	23.6	23	25
25	22.3	22	22	22.4	22.3	21.6	21.2	21.6	21.9	21.8	22.2	23.2	23.8	23.9	24	24.1	22.9	21.3	21.3	21.5	21.9	22	22.2	22.3	22.3
26	22.2	22.3	22.7	22.4	21.9	22	22	22.1	22.7	23.3	24	24.8	24.6	24.6	24.4	22.6	22	22	22.2	22.3	22.4	22.4	22.3	22.1	22.8
27	22.2	22	21.7	21.6	22.3	22.8	23	21.9	20.3	21.1	21.2	18.7	19.9	20.2	21	21.4	20.9	20.2	19.6	18.8	18.2	17.7	17.4	16.7	20.4
28	16.5	16.4	15.7	15.2	14.7	14.5	14.4	14.8	16.2	17.4	17.6	17.5	17.4	16.7	15.7	15	14.3	13.5	12.8	12.1	11.6	11	10.4	11.1	14.7
29	11.6	11.1	10.5	10.1	9.9	9.9	9.8	10.3	11.4	12.8	13.4	14	14.5	14.5	14.6	13.7	13	11.4	10.6	10.1	9.8	9.2	7.9	7.1	11.3
30	6.6	6.3	5.4	4.8	4.6	4.3	4.5	6.7	11.3	13.5	15.1	16.4	17.4	18.1	18.2	17.9	16.8	15	14.3	13.7	12.7	12.2	12.3	11.9	11.7
31	11.4	11.2	11.1	10	9.3	9.8	10.2	11.6	15.8	18	19.3	20.6	21.1	21.8	21.3	20.4	19.5	18.1	17.3	16.9	16.6	16.5	16.2	15.8	15.8
Avg	18.7	18.5	18.3	18.1	17.8	17.7	17.7	18.7	20.5	22.1	23.2	24	24.4	24.7	24.7	24.1	23.3	22.1	21.2	20.5	20.1	19.7	19.3	18.9	20.8
S D	4.8	4.9	5	5.2	5.4	5.4	5.4	4.9	4	3.9	4	4.1	4.1	4.2	4.2	4.3	4.4	4.3	4.2	4.2	4.3	4.4	4.7	4.8	4.2
S/A	0.26	0.26	0.27	0.29	0.31	0.31	0.31	0.26	0.2	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.2	0.2	0.21	0.23	0.25	0.25	0.2
Min	6.6	6.3	5.4	4.8	4.6	4.3	4.5	6.7	11.3	12.8	13.4	14	14.5	14.5	14.6	13.7	13	11.4	10.6	10.1	9.8	9.2	7.9	7.1	11.3
Max	24.3	23.9	23.6	23.2	23.7	24.1	24.1	24.3	25.1	27.3	30.3	31.7	32.8	33.3	33.4	33.8	32.9	30.8	29	27.8	26.8	26.3	25.4	24.6	27.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	99.5	100.2	99.1	98.7	101.3	101.3	99.6	94.8	88.1	79.3	75	75.6	77.8	79.4	80.3	89.5	97.2	99.4	100.6	103.2	104.5	105 ?	?	?	?	93.1 ?	
2	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	87.1 ?
3	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	90.7 ?
4	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	90.2 ?
5	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	93.4 ?
6	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	98.6 ?
7	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	85.6 ?
8	?	?	104.3 ?	104.5	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	90.4 ?
9	?	?	?	?	?	104 ?	102.3	98.7	93	81.7	66.1	57.9	52.2	50.2	50.5	48.7	52.6	59.1	66	72.6	82.7	83.9	86.7	88.6	88.6	73.6 ?	
10	89.7	91.6	92.9	94.8	96.7	97.2	99.4	101.5	100.7	103.3	104.2	101.8	97.1	93	82.5	76.2	83	95	100.9	103.1	104.3	100.7	101.6	104	104	96.5	
11	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	69.8 ?
12	78.1	80.3	82.4	85.9	89.5	90.5	91.8	87.5	79.2	67.7	60.7	57.2	53.6	50.3	49	48	48.6	52.4	59.9	70.5	80.5	84	86.5	88.3	71.8	71.8	
13	89.1	92.7	92.3	93.7	98.7	97.1	99.5	94.9	79.3	68.3	62.9	60.3	61.1	59.8	62	68.2	76	81.1	87.3	92.8	96.5	99.3	103.4	?	?	83.3	
14	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	81.4 ?
15	101.8	102	102.6	104.6 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	80.6 ?
16	99.3	102	103.3	104.7 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	89.7 ?
17	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	86.6 ?
18	103.2	104.5 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	92.3 ?
19	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	98.4 ?
20	103.3	104.3	105 ?	?	103.9 ?	102.8	101.4	100.3	93.1	81.9	64.5	55.7	49.2	46.3	43.8	44.8	43.1	51.1	56.8	61.5	66.2	73.7	76.7	80.3	74.3	74.3	
21	83.5	81.9	84.8	87.1	91.9	89.4	84.1	82.9	80.8	82.7	64.5	57	55.3	56.2	58.5	64.8	73	78.7	86.3	91.8	95.6	98.6	100.8	101.4	80.5	80.5	
22	104.5	105 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	87 ?
23	101.7	103.1	102.3	102	101.6	102.6	103.7	102.5	98.3	101.9	94.7	86.1	78.9	72.8	69.4	73.6	77.8	83	88	91.7	96.1	100.7	102.4	104.5	93.3	93.3	
24	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	95.7 ?
25	103.2	104.2	?	105 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	103.4 ?
26	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	103 ?
27	?	?	103.7	102.7	102.9	102.1	101.4	103.4	104.7 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	99.9 ?
28	90.1	90.1	91.3	90.5	91	90.8	90.4	89.1	84.9	84.2	79	72.8	71.4	73.9	70.9	64.5	68.4	74.8	75.7	74.3	74.4	78	83.7	79.8	80.6	80.6	
29	68.8	61.8	63.3	65	64.2	61.8	64.9	66.8	63.9	63.7	62.2	55.8	52.8	52.8	52.1	56	60.1	70.7	75.2	77.8	79.4	85	96.7	98.4	67.5	67.5	
30	98.3	99.7	101.5	104.3 ?	103.6	104.8	104	98.9	85.8	78.9	75.3	70.2	65.2	62.5	62.5	66.5	73.2	81.1	85.9	90.9	96	98.3	98.6	101.9	87.8	87.8	
31	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	82.6 ?
Avg	94.3	94.9	94.9	96	95	95.4	95.2	97	94.5	86.8	79.5	76.3	74.1	72.9	72.7	75.1	78.6	83.7	88.8	91.3	93.2	94.9	96.2	95.6	87.4	87.4 ?	
S D	10.7	12.3	11.7	11.2	11.5	11.9	11.3	9.6	10.1	11.7	13.3	15.4	16.1	16.5	16	16	15.3	14.4	13.7	12.7	11.5	10.7	9.4	9.3	9.6	9.6	
S/A	0.11	0.13	0.12	0.12	0.12	0.12	0.12	0.1	0.11	0.13	0.17	0.2	0.22	0.23	0.22	0.21	0.19	0.17	0.15	0.14	0.12	0.11	0.1	0.1	0.1	0.11	
Min	68.8	61.8	63.3	65	64.2	61.8	64.9	66.8	63.9	63.7	60.7	55.7	49.2	46.3	43.8	44.8	43.1	51.1	56.8	61.5	66.2	66.6	71.6	76	67.5	67.5	
Max	104.5	105	105	105	103.9	104.8	104	104.9	104.9	104.6	104.2	104.3	103.5	104.7	102.1	103.3	104.4	100.9	103.8	104.5	104.5	105	105	104.5	103.4	103.4	
n	179	166	161	143	126	137	144	185	319	347	345	362	371	366	371	357	356	348	342	319	298	275	253	218	6493	6493	

Data Recovery: 0.0% missing; 0.0% untested; 27.3% failed QC -- 8928 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

October 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	16.7	16.4	16.4	16.6	16.3	15.8	15.9	17.8	21.6	24.9	27.3	29	29.1	28.4	28.9	27.8	25.8	23.7	22.2	21	20.1	19.5	19.2	18.9	21.6
2	18.7	18.4	18.4	18.5	18.7	18.9	19.3	19.9	21.3	24.7	28.5	30.6	31.6	31.5	31.9	31.4	29.5	26.8	25	23.9	23.2	22.7	22.3	22.1	24.1
3	21.8	21.5	21.5	21.6	21.6	21.8	21.8	22.3	24.2	27.9	30.4	31.8	33.5	33.7	32.8	32.4	31.7	30.1	27.2	25.1	23.9	23.2	22.7	22.4	26.1
4	21.9	21.7	21.5	21.2	21.2	21.2	21.2	22.3	24.1	27.2	30.1	30.8	31	31.8	32.5	32.7	31	29.1	26.1	24	23	22.5	22.8	23.2	25.6
5	23.4	23.5	23.5	23.5	23.4	23.1	23.2	23.6	24.5	26.2	29	30.2	30.9	31.9	32.4	31.9	30.3	27.8	25.5	24	23.3	22.7	22.4	22.3	25.9
6	22.2	22.1	22	22.1	22.3	22.5	22.8	23.7	25.8	29.1	31.1	29.5	29.9	28.7	26.5	27.6	27.8	26.3	25.3	24.2	23.6	23.3	22.8	22.3	25.1
7	22	21.7	21.4	21.3	21.1	20.9	20.7	21.8	24.2	27	29.9	32.2	33.8	34.7	35.2	35.5	34.9	33.2	29.5	26.7	25.4	24.5	23.9	23.3	26.9
8	23	22.8	22.6	22.4	21.7	21	20.6	21.2	23.6	27.3	30.8	33.4	35.4	36.3	36.3	35.3	33.4	30.6	27.2	25.1	24	23.4	23	22.7	26.8
9	22.6	22.5	22.3	22.3	22.2	21.9	21.5	22.3	24.6	27.9	31.8	34.3	35.8	36.8	37	37	36.9	34.6	31.1	28.9	27.7	26.8	25.9	24.9	28.3
10	24.3	23.7	23.5	23.2	22.8	22.4	22.1	22.3	22.9	23	22.4	22.8	25.7	28.6	29.8	30.3	30.2	28.6	25.8	23.9	22.8	22.1	21.5	21.2	24.4
11	20.9	20.7	20.9	21.3	21.5	21.2	20.5	19.7	19.4	19.8	21.5	23.3	24.7	25.4	25.6	25	23.3	21.1	18	15.8	14.1	13.2	12.4	11.1	20
12	10.2	9.7	9.4	9.1	8.6	8.2	8.2	9.8	12.9	16.6	19.9	22	23.7	24.7	25.2	25.4	24.9	23.1	19.6	16.8	14.8	13.3	12.2	11.2	15.8
13	11	10.9	11.7	11.8	10.7	9.7	9.5	10.7	14.8	19.4	23.2	25.2	24.9	24.1	24.7	24.7	23.4	21.5	19	17.1	16	15.2	14	12.9	16.9
14	12.1	11.4	10.9	10.2	9.7	9.4	9.3	10.8	14.2	18.7	23.1	26.5	28.1	27	26.7	25.6	23.8	21.7	18.7	16.8	15.5	13.8	12.3	11.2	17
15	10.8	10.5	10.1	10	10.3	10	9.5	10.8	14.7	20.2	24.5	27.1	28.7	28.9	28.3	27	25.4	22.9	20	18	16.6	16	15.4	14.3	17.9
16	13.3	12.7	12.3	12	11.5	11.1	11.2	13.2	16.8	21.1	25	27.6	28.4	27.8	27.4	26.6	25.2	23.1	21.4	20.4	19.6	19	18.6	18.5	19.3
17	18.2	18	17.7	17.2	16.8	16.5	16.5	17.6	20.3	23.9	27.1	29.3	29.9	30.8	31	31.2	29.6	26.8	24	22.5	21.6	21	20.6	20.2	22.8
18	19.8	19.3	19	19	19.1	19.1	19.3	20.1	21.5	23.6	25.7	28.7	30.1	30.9	31.1	30.2	29.7	28	26.1	25.1	24.6	24.2	23.9	23.6	24.2
19	23.3	23.2	23.1	23.1	23.1	23.2	23.3	23.8	24.8	26.1	28.2	29.8	30.2	31.3	30.7	27.4	26	25.4	25	24.8	24.6	24.4	24.2	23.7	25.5
20	23.2	22.8	22.4	21.9	21.6	21.4	20.9	20.7	20.9	21.7	24.7	27.4	28.7	29.1	29.2	28.7	27.7	25.5	22	19.5	17.8	16.5	14.8	13.6	22.6
21	12.8	12.2	11.9	11.4	10.7	10.1	11.1	13.1	17.6	22.3	25.5	27.6	28.8	28.9	28.5	27.4	25.8	23.5	21.5	20.1	19.4	19	18.3	18.1	19.4
22	18	17.9	17.7	17.6	17.5	17	16.9	17.7	19.1	21.7	25.5	28	28.9	28.7	28.6	28.1	27.6	25.9	23.3	21.8	20.9	20.5	20.6	20.6	22.1
23	20.4	20	20.2	20	19.9	19.8	19.8	20.2	22.3	22.7	24.1	27.7	30	31.3	32.2	32.3	31	29.1	27	25.5	24.5	23.9	23.6	23.4	24.6
24	23.2	22.9	22.7	22.9	23.2	23.7	24.2	24.4	24.9	26.7	29.4	30.9	29.2	29.6	31.5	31.7	30.4	28	26.4	25.2	24.3	23.9	23.6	23.4	26.1
25	22.9	22.1	21.6	21.8	22	21.9	21.6	21.6	21.9	22.1	22.4	23.1	24.4	25.6	25.8	26	25.2	23.7	22.5	22	21.9	22	22.1	22.3	22.9
26	22.3	22.3	22.5	22.6	22.4	22.1	22	22.1	22.5	23.3	24.3	26	26.3	25.7	25.3	24.5	23.2	22.6	22.3	22.3	22.3	22.3	22.3	22.2	23.2
27	22.2	22.1	21.7	21.1	21	21.6	22.3	22.6	21.4	20.9	21.5	20.9	20	20.1	20.7	21.6	21.9	21.2	20.4	19.3	18.2	17.6	17.1	16.6	20.6
28	16.1	16	15.7	15	14.4	13.8	13.6	14	15.8	18.2	19.5	20	20.1	19.9	18.8	17.5	16	14.6	13.2	12	11.2	10.7	9.8	8.9	15.2
29	9.4	9.9	9.8	9.3	9	8.9	8.7	9	11	13.6	15.8	17.3	18.4	18.9	18.9	18.5	17.3	14.4	10.9	9	7.9	7.2	6.1	5.2	11.8
30	4.3	3.6	3.1	2.7	2.7	2.4	2.3	3.9	7.9	13	17.1	20	21.9	22.8	23.1	22.7	21.4	18.4	15.2	13.4	11.9	10.4	9.8	9.5	11.8
31	9.4	9.1	9.3	9.3	8.5	8.1	8.3	9.7	13	17	20.9	23.7	25.2	25.6	25.9	24.9	23.3	20.8	18.2	16.7	16	15.5	15.2	14.8	16.2
Avg	18.1	17.8	17.6	17.5	17.3	17.1	17	17.8	19.8	22.5	25.2	27	28	28.4	28.5	28	26.9	24.9	22.6	21	20	19.4	18.8	18.3	21.6
S D	5.6	5.6	5.6	5.7	5.9	6	6	5.6	4.7	4.2	4.2	4.2	4.3	4.4	4.6	4.6	4.7	4.7	4.6	4.6	4.8	5	5.2	5.5	4.5
S/A	0.31	0.31	0.32	0.33	0.34	0.35	0.35	0.31	0.24	0.19	0.17	0.16	0.15	0.16	0.16	0.17	0.18	0.19	0.2	0.22	0.24	0.26	0.28	0.3	0.21
Min	4.3	3.6	3.1	2.7	2.7	2.4	2.3	3.9	7.9	13	15.8	17.3	18.4	18.9	18.8	17.5	16	14.4	10.9	9	7.9	7.2	6.1	5.2	11.8
Max	24.3	23.7	23.5	23.5	23.4	23.7	24.2	24.4	25.8	29.1	31.8	34.3	35.8	36.8	37	37	36.9	34.6	31.1	28.9	27.7	26.8	25.9	24.9	28.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	0.9	1	0.7	0.9	1.1	1.6	0.8	2.6	2.9	3.4	3.3	3	3.6	3.6	3.9	3.3	2.2	1.8	1.5	0.9	0.5	0.7	0.6	1.9
2	0.9	0.9	0.8	0.8	0.4	0.1	0.7	0.7	1.8	2.5	3.5	3.5	3.5	3.4	3.3	3	3.3	2.7	2.2	2	1.4	1	1.1	0.6	1.8
3	0.1	0.3	0.4	0.5	0.9	0.7	0.6	1.2	1.3	1.7	2.6	3.1	3.1	3.6	4.1	4.3	3.5	2.2	2	1.4	1.2	0.7	0.4	0.2	1.7
4	0	0	0	0.1	0.3	0.1	0.1	0.4	1.4	2.5	2.8	2.8	3.3	3.3	3.2	3	3.2	2.5	1.6	1.6	1.4	1.6	1.5	1.5	1.6
5	1.2	1.1	2	1.6	1.4	1.3	1.1	1.7	2	2.7	3.1	3.6	3.8	3.5	3.5	2.8	2.9	2.3	1.6	1.7	1.1	1.2	1.3	1.6	2.1
6	0.9	1	0.6	1	1.2	1.2	1.4	1.5	1.8	1.8	1.6	1.2	2.2	1.2	2.4	3.2	1.7	0.5	0.5	0.1	0.3	0	0	0	1.1
7	0	0	0	0.1	0	0	0.1	0.4	1.2	1.7	1.9	1.6	2	1.9	2	2	1	0.4	1.3	1.7	1.2	0.8	0.3	0.3	0.9
8	0.8	0.2	0.9	0.2	0	0.1	0	0.8	2.4	1.9	1.3	1.3	1.7	2.2	2.3	2.8	2.6	2.3	1.6	1.5	1.7	1.2	0.8	0.8	1.3
9	0.3	0	0.2	0.8	1.7	1.7	2	2.1	2.1	1.8	2.6	3.1	3.1	2.6	1.9	2	2	1.4	1.2	1.3	1.3	1.3	1.5	1.8	1.7
10	1.6	2	2.2	1.8	2	1.5	1.2	0.7	1.7	1.1	0.6	1.2	1.3	1.2	2.5	2.6	1.8	1.8	1.3	1.1	0.8	1.2	1.4	1.4	1.5
11	0.8	0.7	1.2	1.3	1.6	1.1	1.8	2.3	3.6	3.8	3.5	2.5	3.2	3.1	3.5	3.6	2.9	2.5	1.5	1.3	2.2	2.5	1.7	1.8	2.2
12	2.3	2.3	2.5	2.3	2.5	2.7	2.6	2.5	2.3	2.8	3.6	2.7	2.4	2.5	2.9	2.8	2.4	0.9	0.4	0.2	0	0.2	0	0.8	2
13	0.7	0.8	0.8	0.4	0.1	0.2	0	0.4	0.8	1.6	1.2	0.9	1.3	2	3.5	3.5	2.8	2.3	1.4	0.7	0.4	0	0	0	1.1
14	0	0	0	0	0	0	0.2	0.2	0.9	1.2	1.2	1.2	2.3	2.7	3.2	3	2.9	2	1.4	0.8	0.1	0	0	0	1
15	0	0	0	0	0	0	0	0	0.2	0.5	0.9	0.9	1	2.2	3	3.3	2.9	1.9	0.5	0.2	1	0.7	0	0	0.8
16	0	0	0	0	0	0	0	0	0.1	0.9	2	2.2	2.7	3	2.9	2.8	2.7	1.7	1.5	0.7	0.8	0.2	0.8	0.1	1.1
17	0.1	0	0	0	0	0	0	0	1.2	1.4	2.3	2.7	2.3	2.7	1.8	3.3	3.7	2.9	2.5	2	1.3	1.1	0.8	0.2	1.3
18	0	0	0.2	0	0	0.1	0.3	0.9	1.8	3.1	4	4.2	4.6	4.2	3.9	4.3	3.8	3.1	2.9	2.9	2.2	1.9	1.9	1.8	2.2
19	2.1	1.2	0.9	0.9	1.3	1.1	1.5	1.9	2.8	2.6	2.7	3.2	3.3	2.8	2.6	1.6	2.4	2.6	3.2	3.6	3.5	2.9	3.3	2.9	2.4
20	2.7	2.6	2.3	1.3	1.8	1.7	1.3	1.7	2.3	2.4	3.4	3.6	3.6	3.8	4.4	4.4	3.4	1.2	1.1	1	1	0.3	0.4	0.2	2.2
21	0.3	0.5	0.3	0.3	0	1.8	0.7	0.4	0.2	1.9	2.8	2.7	3.2	3	3.5	2.8	2.7	1.6	1.4	1	0.9	0.2	0.4	0.3	1.4
22	0.2	0.2	0.1	0.4	0	0	0	0.4	1.3	3.5	3.5	3.2	3.1	2.3	2.7	2.3	2.2	1.1	1.6	0.7	0.3	0.4	0.5	0.5	1.3
23	0.9	0.6	0.2	0.3	0.7	1.4	0.7	0.8	1.9	2.3	3.2	3.7	4	3.7	3.9	3.4	2.6	2.1	2.4	2.5	2.8	2.5	2.3	1.8	2.1
24	1.6	1.4	1.3	1.9	2.2	2.4	2.2	2.2	2.8	3.3	4	4.5	3.2	4.6	4.6	4.3	3.2	3.5	2.3	0.4	0.8	1	2.7	3.4	2.7
25	1.9	0.7	1.2	0.6	0.6	1.4	1.2	1.1	0.7	1	2.5	2.1	2.1	1.7	0.6	0.9	1.7	2.7	2.4	1.3	1.4	1.7	1.4	1.2	1.4
26	0.5	1	2.3	2.7	2.1	1.8	0.9	1.6	2.5	2.4	2.6	3.6	2.9	2.2	3.2	2	1.4	1.4	1.8	1.9	1.2	1.5	1.4	0.9	1.9
27	1.8	1.7	1.3	1.5	2.3	2.9	2.5	2.9	2.3	2.1	2.3	2.6	2.2	1.4	1.6	1.9	1.2	1.5	1.1	0.3	1	1.6	1.6	1.4	1.8
28	1.9	2.7	1.8	1.8	1.8	2.1	2	2.3	3.3	4.9	5.3	5.2	4.6	4.9	4.5	3.8	3	2.4	1.5	1.6	2.3	1.6	0.7	2.5	2.8
29	3.9	3.9	3.8	3	3.9	3.7	3.8	4.3	5	4.9	4.6	3.5	2.9	2.8	2.6	3.1	2.2	1	0.6	0.6	0.5	0.1	0	0.1	2.7
30	0	0	0	0.2	0	0.1	0	0.2	0.5	1.6	1.4	1.3	1.1	1.2	1.6	1.8	1.9	1.8	1.4	0.5	0.1	0.1	0.1	0.1	0.7
31	0	0	0	0	0	0	0	0	0.4	1.6	1.9	2.3	2.8	2	3.1	3.3	3	1.8	1.7	1.5	1	1	0.5	0.7	1.2
Avg	0.9	0.9	0.9	0.9	1	1	1	1.2	1.8	2.3	2.7	2.7	2.8	2.8	3	3	2.6	1.9	1.6	1.3	1.2	1	1	0.9	1.7
SD	1	1	1	0.9	1	1	1	1	1.1	1.1	1.1	1.1	0.9	1	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.6
S/A	1.06	1.14	1.07	1.01	1.06	1	0.99	0.88	0.6	0.46	0.41	0.41	0.33	0.36	0.31	0.29	0.28	0.38	0.42	0.62	0.68	0.79	0.89	0.96	0.34
Min	0	0	0	0	0	0	0	0	0.1	0.5	0.6	0.9	1	1.2	0.6	0.9	1	0.4	0.4	0.1	0	0	0	0	0.7
Max	3.9	3.9	3.8	3	3.9	3.7	3.8	4.3	5	4.9	5.3	5.2	4.6	4.9	4.6	4.4	3.8	3.5	3.2	3.6	3.5	2.9	3.3	3.4	2.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	74	80	80	58	45	49	70	96	101	104	103	97	98	103	105	111	100	94	94	97	98	88	91	65	95
2	56	53	54	55	61	83	39	64	87	113	132	135	126	111	113	106	108	100	111	110	95	83	86	79	105
3	63	81	82	98	96	89	104	113	123	153	137	135	134	132	162	163	150	147	153	134	146	156	98	124	140
4	105	62	79	69	79	92	93	99	114	116	118	133	120	113	119	112	117	114	110	111	92	105	114	118	115
5	112	115	106	99	86	87	88	98	107	122	137	139	135	130	129	119	121	119	106	99	91	88	75	71	115
6	73	66	82	81	79	93	111	119	141	149	137	115	134	191	146	142	143	83	95	108	172	0	0	210	125
7	0	0	279	275	303	304	333	351	340	337	341	355	349	5	19	19	11	354	128	177	200	219	221	262	354
8	273	276	293	29	0	15	11	78	108	125	123	106	103	107	135	155	169	181	186	191	201	225	220	259	154
9	258	249	265	272	277	279	282	290	299	295	302	301	303	319	316	308	260	255	260	245	237	250	255	264	285
10	261	273	279	287	294	6	48	347	344	94	2	56	150	142	243	267	221	202	188	198	225	257	247	246	259
11	229	223	221	254	290	310	337	356	12	25	16	3	4	347	340	341	346	346	342	334	321	332	334	324	344
12	317	306	313	307	313	320	320	327	338	358	10	5	353	343	343	337	341	346	300	62	78	310	304	333	335
13	2	5	8	360	10	25	348	356	33	74	103	115	138	128	134	125	138	128	126	130	156	168	349	39	114
14	0	0	0	0	0	3	1	23	56	87	93	58	123	115	120	122	117	114	112	103	103	0	0	0	108
15	0	0	0	0	0	0	6	4	26	72	100	108	119	131	146	180	180	173	163	179	190	208	204	218	156
16	0	0	0	0	0	0	58	0	81	133	150	139	133	138	150	169	168	149	149	145	151	160	166	149	149
17	127	0	0	0	0	0	0	133	143	148	137	133	114	148	173	172	168	175	178	178	193	198	192	188	161
18	208	0	149	170	0	144	162	174	188	207	211	216	203	210	213	198	192	198	201	204	196	198	199	203	202
19	204	206	198	191	193	192	175	193	203	216	253	242	243	248	244	239	228	232	213	222	239	244	260	250	228
20	259	273	276	266	291	310	305	320	335	353	357	348	337	327	321	323	326	322	327	332	328	324	313	261	320
21	290	326	9	23	24	57	54	89	175	148	165	162	174	163	157	161	157	160	154	154	154	163	168	164	155
22	164	178	149	159	0	0	156	151	169	196	202	201	210	218	208	216	204	194	196	193	193	177	184	174	200
23	180	181	201	194	189	188	198	207	219	213	228	248	239	240	243	240	235	229	230	237	242	247	243	238	232
24	236	231	239	227	234	236	234	230	238	249	245	240	236	236	226	215	217	213	220	304	164	152	192	191	226
25	188	163	136	133	125	63	61	58	54	73	107	112	125	138	134	129	57	54	60	77	85	99	101	107	97
26	102	144	175	175	160	140	127	105	113	120	136	169	173	167	185	244	211	184	183	204	205	204	200	202	168
27	202	219	218	197	207	207	222	249	255	257	253	287	278	265	274	294	313	320	321	297	305	346	355	1	261
28	20	36	37	30	26	30	24	28	39	49	50	55	54	54	56	63	61	51	41	32	23	21	14	59	45
29	67	49	45	42	45	39	39	48	48	59	75	84	71	78	79	111	95	97	92	108	101	91	33	27	62
30	2	0	0	3	348	10	2	5	27	52	74	123	71	119	137	137	140	145	141	134	116	176	175	72	115
31	0	73	62	0	0	0	0	71	128	140	148	131	146	203	173	158	160	149	150	154	159	144	128	128	154
Avg	225	337	318	243	314	25	23	33	74	109	124	137	141	144	159	161	156	154	160	168	191	209	209	211	152
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	1.8	1.8	2.1	1.7	2	2.4	3.3	2.1	5	5.3	5.7	5.7	5.3	6.3	6.4	6.8	5.7	4	3.6	3.3	2.1	1.5	1.7	1.6	3.6
2	1.9	2.2	2	2.2	1.5	0.8	2	2.3	3.9	4.5	5.9	6.2	5.7	6	5.6	5.1	5.6	4.8	4.4	3.7	3	2.6	2.4	1.8	3.6
3	0.8	1.3	1.5	1.7	2.4	1.9	1.6	2.6	2.8	3.2	4.2	4.8	5.1	5.5	6.4	6.7	5.9	3.9	3.3	2.8	2.4	1.7	1.2	0.6	3.1
4	0.2	0.1	0.4	0.8	1.3	0.5	0.7	1.3	2.9	4.4	4.5	4.7	5.4	5.6	5.6	5.1	5.3	4.3	3	3.3	2.6	3.2	2.9	2.8	3
5	2.5	2.6	3.6	3.1	2.6	2.6	2.5	3.1	3.7	4.6	5.2	5.8	6.2	6.1	6	4.8	5	3.8	2.8	3	2.3	2.5	2.5	3	3.7
6	2.2	2.2	1.9	2.3	2.5	2.6	2.7	3	3.2	3.2	2.8	2.3	3.6	2.4	4.1	5.2	3	1.6	1.4	0.6	0.9	0	0	0.2	2.2
7	0	0	0.3	0.4	0.4	0.3	0.3	1.6	2.9	3.7	4	3.8	4.4	4.1	4.2	4.2	2.1	1	2.2	2.7	2	1.7	1.2	1.1	2
8	1.4	0.5	1.7	0.7	0	0.4	0.2	2	4	3.4	2.8	2.6	3.2	4.1	4.1	4.3	4.2	3.4	2.5	2.6	2.8	2.7	1.9	2	2.4
9	1.3	0.6	1	1.9	2.5	2.5	2.9	3.5	3.3	3.1	4.7	5.4	5.4	4.7	3.6	4.1	3.7	2.6	2	2.3	2.3	2.5	2.7	3	3
10	2.6	3.1	3.4	2.9	3.1	3.2	2.5	2.1	3.7	2.3	1.6	2.8	2.8	2.5	4.2	4.4	3.4	2.9	2.1	1.9	1.9	2.4	2.5	2.7	2.8
11	2	1.9	2.5	2.5	3.1	2.2	3.9	4.5	6.9	7.2	6.4	5.2	6.4	6.8	7.2	7.3	5.9	5	3.4	2.7	3.9	4.9	3.5	3.4	4.5
12	4.2	3.8	4.2	4.1	4.2	4.7	4.6	5.3	5.3	5.6	6.9	5.5	5.4	5.8	6	5.6	4.7	2.1	1	0.6	0	0.4	0.3	1.9	3.8
13	1.6	2	2.1	1.2	0.6	0.9	0.2	1.1	2.3	3.4	2.7	2.4	2.9	3.9	5.9	5.8	4.8	4.2	2.6	1.6	1.2	0.2	0	0.1	2.2
14	0	0	0	0	0	0	1.2	1.1	2.5	2.8	2.5	3	4.1	4.6	5.4	5.6	5	4	2.8	1.8	0.4	0	0	0	2
15	0	0	0	0	0	0	0	0.2	1	1.7	2.4	2.4	2.8	4	4.8	5.4	4.4	3.2	1.3	0.8	1.9	1.6	0.5	0	1.6
16	0	0	0	0	0	0	0	0	0.7	2	3.8	3.9	4.5	5	5.2	4.7	4.6	3	2.8	1.8	1.7	0.6	1.8	0.2	1.9
17	0.4	0	0	0	0	0	0	0.2	2.6	2.9	4.1	4.7	4.1	4.6	3.8	5.9	5.8	4.5	4.1	3.4	2.5	2.4	2	1.1	2.5
18	0.4	0	0.6	0.2	0	0.4	1	1.9	3.3	5.2	7.2	7.3	7.8	7.2	7.1	7.3	6.4	5.4	5.2	4.9	4.1	3.7	3.5	3.7	3.9
19	3.7	2.9	2.3	2.3	2.8	2.7	2.8	3.6	4.9	5	4.8	5.6	5.8	4.9	5	3.8	4.9	5.5	6.1	6.5	6.5	5.7	5.8	5.4	4.5
20	4.9	4.4	3.9	2.4	3.3	3.3	2.4	3.4	4.6	4.7	6.3	6.8	7	6.7	8.6	8.1	6.6	2.4	2.1	1.9	1.9	0.9	0.9	0.5	4.1
21	0.9	1.2	0.8	0.8	0.1	2.8	1.4	1.3	0.6	3.4	4.8	5.2	5.6	5.1	6	4.9	4.6	2.8	2.4	2	1.8	0.7	1.1	0.9	2.6
22	0.6	0.8	0.4	0.6	0	0	0	1.2	2.5	5.7	5.9	5.4	5.4	4.4	4.7	4.4	4	2.3	2.9	1.8	0.9	1.3	1.6	1.2	2.4
23	2	1.6	1.2	1.4	1.7	2.4	1.7	2.2	3.7	4.7	6	6.2	7.5	6.8	6.7	6.4	5	4.2	4.8	4.9	5.3	4.8	4.4	3.8	4.1
24	3.7	3.2	3.1	3.9	4.3	4.5	4.4	4.5	5.3	6.1	7	7.7	6.3	8.3	8.4	7	6.1	6	4.8	1.1	1.5	2	4.9	5.8	5
25	3.5	1.5	2.2	1.3	1.3	2.8	3	2.6	2.1	2.5	4.4	3.9	3.6	3.3	1.7	2.3	3.3	5.1	4.4	3	2.9	3.3	3	2.6	2.9
26	1.5	2.2	3.9	4.5	3.8	3.6	2.1	3.1	4.4	4.3	4.3	5.6	4.9	4	5.3	4.2	2.7	2.7	3.3	3.5	2.6	2.9	2.7	2	3.5
27	3.2	3.7	3	2.9	4.1	5.1	4.8	5.4	4.2	4.2	4.5	4.1	3.7	2.8	2.9	3.2	2.5	2.7	2.3	1	1.8	3.6	3.6	3.5	3.4
28	4	5	3.6	3.5	3.5	3.9	3.6	3.9	5.6	8.2	9.2	9	8.1	8.5	8.2	6.6	5.6	4.1	3.1	3.1	4.3	3	1.8	4.5	5.2
29	7.4	6.9	6.8	5.6	6.7	6.4	6.5	7.5	8.3	8.5	8	6.3	5.5	5.2	4.8	5.3	4	2.3	1.7	1.6	1.3	0.5	0.2	0.2	4.9
30	0	0	0	0.6	0.3	0.4	0.3	0.8	1.9	3	3	3.3	2.6	2.9	3.1	3.2	3.3	3.3	2.8	1.4	0.3	0.5	0.5	0.2	1.6
31	0	0	0.1	0	0	0	0	0.2	1	3.2	3.5	4.1	4.8	3.9	5.3	5.2	5.1	3.1	2.9	2.5	1.6	1.7	1.2	1.3	2.1
Avg	1.9	1.8	1.9	1.8	1.9	2	2	2.5	3.5	4.3	4.8	4.9	5	5	5.4	5.3	4.6	3.6	3	2.5	2.3	2.1	2	2	3.2
S D	1.8	1.7	1.6	1.5	1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.5	1.6	1.6	1.3	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1
S/A	0.94	0.96	0.87	0.84	0.93	0.87	0.84	0.69	0.5	0.39	0.37	0.34	0.29	0.32	0.3	0.26	0.26	0.34	0.39	0.53	0.62	0.7	0.74	0.82	0.33
Min	0	0	0	0	0	0	0	0	0.6	1.7	1.6	2.3	2.6	2.4	1.7	2.3	2.1	1	1	0.6	0	0	0	0	1.6
Max	7.4	6.9	6.8	5.6	6.7	6.4	6.5	7.5	8.3	8.5	9.2	9	8.1	8.5	8.6	8.1	6.6	6	6.1	6.5	6.5	5.7	5.8	5.8	5.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	1026	1026	1026	1026	1026	1026	1027	1027	1028	1027	1027	1027	1026	1026	1025	1025	1025	1024	1024	1024	1024	1024	1023	1023	1025
2	1023	1022	1022	1022	1022	1022	1023	1023	1023	1023	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1019	1019	1018	1021
3	1018	1018	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1017	1017	1017	1017	1017	1018	1018	1017
4	1018	1018	1017	1018	1018	1018	1019	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1021	1019
5	1021	1020	1020	1020	1020	1021	1021	1022	1022	1023	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021
6	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1020	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1017	1019
7	1017	1017	1016	1016	1016	1017	1017	1017	1018	1018	1017	1017	1016	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1014	1016
8	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1015	1015	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1014
9	1012	1011	1011	1011	1010	1010	1011	1011	1011	1011	1010	1009	1008	1008	1007	1006	1006	1006	1006	1006	1007	1007	1006	1006	1009
10	1006	1005	1005	1005	1005	1005	1006	1006	1007	1006	1006	1006	1005	1005	1004	1003	1003	1003	1003	1003	1003	1003	1002	1002	1004
11	1002	1001	1000	1000	1000	1000	1000	1001	1002	1002	1002	1002	1002	1001	1001	1001	1002	1002	1002	1003	1004	1004	1005	1005	1002
12	1006	1006	1006	1006	1006	1007	1008	1008	1009	1009	1009	1009	1008	1008	1008	1008	1008	1008	1009	1010	1010	1011	1011	1012	1008
13	1012	1012	1012	1012	1012	1013	1013	1014	1015	1015	1015	1014	1013	1012	1012	1012	1013	1013	1013	1014	1014	1015	1015	1015	1013
14	1015	1015	1015	1015	1015	1016	1016	1017	1017	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1017
15	1019	1019	1019	1019	1019	1020	1020	1021	1022	1022	1022	1021	1021	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020
16	1019	1019	1019	1018	1019	1019	1019	1020	1020	1020	1020	1019	1018	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018
17	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1017	1016	1016	1016	1016	1016	1016	1016	1017	1016	1016	1017
18	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1013
19	1009	1009	1008	1008	1008	1008	1008	1007	1007	1007	1007	1006	1005	1004	1003	1003	1003	1003	1003	1003	1004	1004	1004	1005	1006
20	1005	1005	1004	1005	1005	1006	1007	1008	1008	1009	1009	1009	1008	1008	1009	1009	1010	1012	1013	1014	1015	1015	1016	1016	1009
21	1017	1017	1018	1018	1019	1019	1020	1021	1022	1023	1023	1023	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1023	1021
22	1023	1023	1022	1022	1023	1023	1023	1024	1024	1024	1024	1023	1023	1022	1021	1020	1020	1020	1020	1020	1020	1019	1019	1018	1022
23	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1014	1013	1012	1011	1010	1010	1009	1009	1010	1010	1010	1010	1010	1010	1013
24	1010	1009	1009	1009	1009	1009	1010	1010	1011	1011	1010	1010	1009	1008	1008	1008	1009	1010	1010	1010	1011	1011	1010	1011	1010
25	1010	1010	1010	1011	1011	1012	1012	1013	1014	1015	1015	1015	1015	1016	1016	1016	1016	1017	1017	1018	1018	1018	1019	1018	1015
26	1018	1019	1019	1019	1018	1018	1019	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1019
27	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1017	1016	1017	1017	1018	1018	1019	1019	1019	1020	1020	1018
28	1020	1021	1021	1021	1022	1022	1023	1024	1024	1025	1025	1025	1025	1025	1025	1026	1026	1026	1027	1027	1028	1028	1028	1028	1025
29	1028	1028	1028	1028	1029	1029	1029	1030	1031	1031	1031	1031	1031	1030	1030	1029	1029	1029	1029	1029	1029	1029	1029	1029	1029
30	1028	1028	1028	1028	1028	1029	1029	1030	1030	1030	1030	1029	1028	1028	1028	1027	1027	1027	1027	1027	1027	1027	1027	1027	1028
31	1027	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1025	1024	1023	1023	1022	1022	1022	1022	1022	1022	1021	1021	1020	1024
Avg	1016	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1016	1017
SD	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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	1002	1001	1000	1000	1000	1000	1000	1001	1002	1002	1002	1002	1002	1001	1001	1001	1002	1002	1003	1003	1003	1003	1002	1002	1002
Max	1028	1028	1028	1028	1029	1029	1029	1030	1031	1031	1031	1031	1031	1030	1030	1029	1029	1029	1029	1029	1029	1029	1029	1029	1029
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

October 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	12.5	12.9	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.3	13.1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
2	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.3	13.3	13.2	13.1	13.1	13.2	13.1	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
4	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.2	13.2	13.2	13.2	13.1	13.1	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
6	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.2	13.2	13.1	13.2	13.2	13.1	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
7	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
8	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.2	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	12.7	12.7	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	12.7	13.3	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13	12.8	12.7	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	12.8	13	12.9	13.1	13.3	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
11	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.2	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
12	12.6	12.6	12.6	12.6	12.5	12.5	13	13.7	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
13	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.7	13.5	13.4	13.3	13.3	13.3	13.4	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
14	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.7	13.6	13.4	13.3	13.2	13.2	13.3	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
15	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.7	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9
16	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.6	13.5	13.4	13.3	13.2	13.2	13.3	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
17	12.7	12.6	12.6	12.6	12.6	12.5	12.8	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
18	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
19	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.1	13.2	13.2	13.2	13.2	13.2	12.8	13.3	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
20	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8
21	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.6	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
22	12.6	12.6	12.6	12.6	12.6	12.5	12.5	13	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.3	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
23	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.9	12.9	13.1	13.3	13.2	13.2	13.1	13.1	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
24	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13.2	13.2	13.1	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
25	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.6	12.6	13.3	13.3	13.2	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
26	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.2	13.1	13.3	13.2	13.2	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8
27	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	13.1	13.1	13.1	13.3	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.7
28	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.4	13.5	13.5	13.4	13.4	13.4	13.5	13.5	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
29	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.1	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
30	12.6	12.6	12.5	12.5	12.5	12.5	12.8	13.8	13.7	13.6	13.5	13.4	13.4	13.3	13.4	13.4	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13
31	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.5	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
Avg	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
S/D	0	0	0	0	0	0	0.2	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0	0	0	0	0	0	0	0	0.1
S/A	0	0	0	0	0	0	0.01	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0
Min	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	13.1	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7
Max	12.7	12.7	12.6	12.6	12.6	12.6	13	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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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