

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

August 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	41	168	282	505	?	464 ?	?	?	?	?	?	351 ?	227	58	2	0	0	0	0	2098 ?
2	0	0	0	0	0	24	121	305 ?	491 ?	?	?	?	?	?	?	?	351 ?	234	59	3	0	0	0	0	1589 ?
3	0	0	0	0	0	31	155	322	293	233 ?	272 ?	?	403 ?	?	467 ?	447	319	220	64	2	0	0	0	0	3227 ?
4	0	0	0	0	0	30	139	313	513	683	805	778	693	739	608	568	382	184	33	1	0	0	0	0	6471
5	0	0	0	0	0	18	90	187	418	578	697	821	841	775	715	326	226	54 ?	0	0	0	0	0	0	5745
6	0	0	0	0	0	12	67	245	205	572	505	712	735	600	598	440	336	157	28	0	0	0	0	0	5212
7	0	0	0	0	0	26	102	280	475	651	776	868	722	642	577	567	347	164	32	0	0	0	0	0	6229
8	0	0	0	0	0	17	104	266	428	623	779	851	847	798	696	507	356	178	33	0	0	0	0	0	6483
9	0	0	0	0	0	21	129	290	477	640	770	825	839	798	664	125 ?	?	36 ?	21	0	0	0	0	0	5633 ?
10	0	0	0	0	0	9	30	121	237	445	555	742	811	770	392 ?	?	?	?	8	0	0	0	0	0	4121 ?
11	0	0	0	0	0	9	55	77	120	253	538	589	467	537	602	473	368	170	44	0	0	0	0	0	4302
12	0	0	0	0	0	26	145	346	552	681	865	940	951	906	777	617	417	202	45	0	0	0	0	0	7469
13	0	0	0	0	0	19	104	276	376	666	799	815	805	700	534	566	369	166	32	0	0	0	0	0	6227
14	0	0	0	0	0	23	133	313	520	699	762	889	918	872	750	590	392	187	35	0	0	0	0	0	7085
15	0	0	0	0	0	17	119	303	491	606	802	857	898	854	538	485	343	156	34	0	0	0	0	0	6503
16	0	0	0	0	0	17	99	251	431	540	730	835	834	783	677	512	311	136	26	0	0	0	0	0	6182
17	0	0	0	0	0	6	18	79	116	217	355	454	524	649	645	515	340	151	29	0	0	0	0	0	4098
18	0	0	0	0	0	16	130 ?	327	528	695	777	896	750	680	611	451	188	144	36	0	0	0	0	0	6232
19	0	0	0	0	0	16	105	260	377	518	519	639	460	572	533	435	220	85	23	0	0	0	0	0	4762
20	0	0	0	0	0	15	90	267	460	632	784	842	848	794	686	449	333	143	30	0	0	0	0	0	6373
21	0	0	0	0	0	12	100	203 ?	451	641	699	800	794	788	696	552	313	131	16	0	0	0	0	0	6198
22	0	0	0	0	0	6	55	128	336	326	521	521	520	267	402	442	220	102	19	0	0	0	0	0	3865
23	0	0	0	0	0	10	92	209 ?	486 ?	619	548	296	428	341	483	507	267	140	28	0	0	0	0	0	4457
24	0	0	0	0	0	12	78	205	381	571	512	550	686	518	687	511	309	128	22	0	0	0	0	0	5169
25	0	0	0	0	0	20	84	210	341	661	762	827	717	770	670	516	324	134	23	0	0	0	0	0	6059
26	0	0	0	0	0	15	110	291	482	589	551	842	880	703	550	96 ?	35 ?	22	5	0	0	0	0	0	5171
27	0	0	0	0	0	7	64	170	411	529	521	730	727	803	692	503	294	127	22	0	0	0	0	0	5599
28	0	0	0	0	0	13	110	297	486	681	806	881	880	817	692	535	336	137	21	0	0	0	0	0	6691
29	0	0	0	0	0	15	107	293	471	646	807	883	892	820	698	538	341	135	18	0	0	0	0	0	6664
30	0	0	0	0	0	20	92	253	488	669	808	884	883	815	695	496	306	104	5	0	0	0	0	0	6518
31	0	0	0	0	0	15	106	277	468	573	696	678	692	740	566	397	288	108	22	0	0	0	0	0	5625
Avg	0	0	0	0	0	17	100	247	413	567	659	759	739	709	617	470	310	142	28	0	0	0	0	0	5421
S D	0	0	0	0	0	8	34	72	114	140	156	154	160	151	99	119	75	51	15	1	0	0	0	0	1398
S/A	0	0	0	0	0	0.45	0.34	0.29	0.28	0.25	0.24	0.2	0.22	0.21	0.16	0.25	0.24	0.36	0.53	2.71	0	0	0	0	0.26
Min	0	0	0	0	0	6	18	77	116	217	272	296	403	267	392	96	35	22	0	0	0	0	0	0	1589
Max	0	0	0	0	0	41	168	346	552	699	865	940	951	906	777	617	417	234	64	3	0	0	0	0	7469
n	0	0	0	0	0	233	367	346	354	344	341	336	343	336	337	322	321	348	301	5	0	0	0	0	4635

Daylight Data Recovery: 0.0% missing; 0.0% untested; 7.4% exceed the 15% QC threshold -- 5006 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.

August 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	63	252	225	370	?	112 ?	?	?	?	?	?	431 ?	409	216	0	0	0	0	0	2078 ?
2	0	0	0	0	0	1	60	425 ?	486 ?	?	?	?	?	?	?	?	452 ?	422	211	0	0	0	0	0	2057 ?
3	0	0	0	0	0	105	361	411	133	23 ?	24 ?	?	61 ?	?	77 ?	124	207	239	136	0	0	0	0	0	1900 ?
4	0	0	0	0	0	61	237	400	530	594	619	496	340	458	414	503	421	256	53	0	0	0	0	0	5381
5	0	0	0	0	0	2	4	31	144	177	223	296	401	359	382	49	32	0	0 ?	0	0	0	0	0	2100
6	0	0	0	0	0	2	2	142	10	229	111	243	241	138	276	237	282	159	9	0	0	0	0	0	2081
7	0	0	0	0	0	1	42	161	333	446	487	510	343	249	296	357	223	105	14	0	0	0	0	0	3568
8	0	0	0	0	0	2	36	131	236	383	508	534	517	509	472	348	308	156	37	0	0	0	0	0	4178
9	0	0	0	0	0	16	128	294	429	493	539	511	495	491	324	0	0 ?	2	1	0	0	0	0	0	3723
10	0	0	0	0	0	0	1	7	46	149	158	342	413	367	173 ?	0	0	1	16	0	0	0	0	0	1672
11	0	0	0	0	0	0	0	0	0	4	96	109	41	76	292	272	414	311	170	0	0	0	0	0	1784
12	0	0	0	0	0	161	484	683	770	691	836	859	858	838	831	799	729	582	259	0	0	0	0	0	9379
13	0	0	0	0	0	10	50	108	155	467	587	443	446	452	329	506	430	271	72	0	0	0	0	0	4325
14	0	0	0	0	0	90	342	480	618	695	632	708	766	793	759	715	623	469	156	0	0	0	0	0	7846
15	0	0	0	0	0	40	258	438	487	335	538	589	674	665	285	342	402	240	62	0	0	0	0	0	5354
16	0	0	0	0	0	12	102	214	311	292	460	526	538	524	517	440	303	170	24	0	0	0	0	0	4434
17	0	0	0	0	0	0	1	1	2	6	11	16	70	307	455	467	408	256	59	0	0	0	0	0	2059
18	0	0	0	0	0	87	411 ?	618	705	721	599	648	448	377	383	235	39	110	38	0	0	0	0	0	5420
19	0	0	0	0	0	26	162	242	124	168	129	179	44	149	231	215	97	9	1	0	0	0	0	0	1778
20	0	0	0	0	0	13	115	319	441	501	561	596	613	610	538	311	400	218	46	0	0	0	0	0	5281
21	0	0	0	0	0	6	154	282 ?	406	514	374	418	500	612	642	608	399	218	5	0	0	0	0	0	5138
22	0	0	0	0	0	1	2	3	119	88	131	98	53	1	21	161	48	32	16	0	0	0	0	0	773
23	0	0	0	0	0	0	93	252 ?	500 ?	464	184	0	27	9	60	193	206	231	73	0	0	0	0	0	2294 ?
24	0	0	0	0	0	1	19	102	138	325	150	194	298	181	489	416	333	194	16	0	0	0	0	0	2856
25	0	0	0	0	0	16	67	160	241	536	542	572	439	521	585	564	447	245	49	0	0	0	0	0	4983
26	0	0	0	0	0	32	279	514	599	529	259	518	731	548	352	0	0	0	0	0	0	0	0	0	4362
27	0	0	0	0	0	0	1	7	108	116	157	361	394	611	625	478	382	256	51	0	0	0	0	0	3546
28	0	0	0	0	0	56	349	540	636	752	762	773	748	731	698	666	555	362	91	0	0	0	0	0	7721
29	0	0	0	0	0	44	281	499	534	613	747	771	792	741	716	692	615	420	98	0	0	0	0	0	7564
30	0	0	0	0	0	129	318	478	617	692	733	754	764	737	682	519	387	162	0	0	0	0	0	0	6971
31	0	0	0	0	0	51	275	401	514	443	418	313	344	492	343	255	289	79	9	0	0	0	0	0	4224
Avg	0	0	0	0	0	33	158	276	347	395	390	442	428	448	422	361	318	212	64	0	0	0	0	0	4091
S D	0	0	0	0	0	43	146	200	229	231	250	238	254	239	213	224	195	150	71	0	0	0	0	0	2178
S/A	0	0	0	0	0	1.29	0.92	0.73	0.66	0.59	0.64	0.54	0.59	0.53	0.5	0.62	0.61	0.71	1.11	5.57	0	0	0	0	0.53
Min	0	0	0	0	0	0	0	0	0	4	11	0	27	1	21	0	0	0	0	0	0	0	0	0	773
Max	0	0	0	0	0	161	484	683	770	752	836	859	858	838	831	799	729	582	259	0	0	0	0	0	9379
n	0	0	0	0	0	233	364	347	355	344	341	336	343	336	337	343	349	372	300	5	0	0	0	0	4706

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.0% exceed the 15% QC threshold -- 5006 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

August 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	37	95	161	193	?	271 ?	?	?	?	?	?	92 ?	69	27	2	0	0	0	0	948 ?
2	0	0	0	0	0	26	101	131 ?	141 ?	?	?	?	?	?	?	?	79 ?	65	28	3	0	0	0	0	574 ?
3	0	0	0	0	0	23	63	109	196	206 ?	239 ?	?	266 ?	?	324 ?	284	199	157	46	2	0	0	0	0	2113 ?
4	0	0	0	0	0	23	85	150	189	221	249	298	354	307	267	225	175	112	27	1	0	0	0	0	2683
5	0	0	0	0	0	18	90	178	331	437	489	530	463	454	410	299	213	48 ?	0	0	0	0	0	0	3958
6	0	0	0	0	0	14	67	189	202	401	412	484	506	471	377	282	201	114	27	0	0	0	0	0	3746
7	0	0	0	0	0	30	93	215	278	309	345	377	392	410	336	331	243	137	31	0	0	0	0	0	3527
8	0	0	0	0	0	19	100	216	291	331	333	339	342	323	307	277	212	139	31	0	0	0	0	0	3261
9	0	0	0	0	0	22	103	174	227	271	295	335	364	349	402	112 ?	?	32 ?	21	0	0	0	0	0	2707 ?
10	0	0	0	0	0	9	30	121	210	329	413	408	401	423	240 ?	?	?	9 ?	7	0	0	0	0	0	2600 ?
11	0	0	0	0	0	9	55	77	120	253	455	490	433	471	365	283	162	87	25	0	0	0	0	0	3285
12	0	0	0	0	0	17	44	61	75	133	97	85	93	115	86	74	64	46	17	0	0	0	0	0	1008
13	0	0	0	0	0	22	94	237	274	306	274	377	367	276	262	229	161	96	25	0	0	0	0	0	3001
14	0	0	0	0	0	19	64	121	146	154	183	190	160	128	120	112	95	65	18	0	0	0	0	0	1575
15	0	0	0	0	0	14	69	131	199	364	321	286	246	244	304	264	158	97	29	0	0	0	0	0	2727
16	0	0	0	0	0	18	83	173	259	324	331	338	318	307	263	228	176	96	24	0	0	0	0	0	2939
17	0	0	0	0	0	6	18	79	116	217	354	450	463	372	286	218	155	88	24	0	0	0	0	0	2848
18	0	0	0	0	0	13	57 ?	80	103	140	242	274	322	341	299	293	168	116	32	0	0	0	0	0	2483
19	0	0	0	0	0	15	92	169	315	398	411	478	426	447	355	300	174	83	23	0	0	0	0	0	3687
20	0	0	0	0	0	14	80	176	213	263	302	282	265	247	260	250	153	90	25	0	0	0	0	0	2623
21	0	0	0	0	0	14	84	121 ?	249	258	372	397	303	230	179	159	125	73	16	0	0	0	0	0	2579
22	0	0	0	0	0	7	55	128	307	274	407	433	473	267	389	339	199	94	17	0	0	0	0	0	3388
23	0	0	0	0	0	10	75	145 ?	?	304	388	296	407	337	436	378	180	82	23	0	0	0	0	0	3061 ?
24	0	0	0	0	0	12	76	169	297	330	391	368	401	359	303	249	163	80	21	0	0	0	0	0	3219
25	0	0	0	0	0	22	74	146	196	264	286	287	307	308	217	163	130	80	20	0	0	0	0	0	2497
26	0	0	0	0	0	15	57	95	137	203	327	340	184	208	268	87 ?	30 ?	22	5	0	0	0	0	0	1978
27	0	0	0	0	0	8	64	170	342	440	382	387	347	255	212	200	131	72	18	0	0	0	0	0	3028
28	0	0	0	0	0	13	51	92	115	115	138	150	170	165	153	123	99	59	14	0	0	0	0	0	1458
29	0	0	0	0	0	14	59	105	162	181	155	154	135	160	146	116	84	47	11	0	0	0	0	0	1527
30	0	0	0	0	0	17	58	118	136	154	169	175	158	159	171	173	143	68	5	0	0	0	0	0	1705
31	0	0	0	0	0	17	61	128	173	232	316	382	372	311	303	252	171	93	21	0	0	0	0	0	2833
Avg	0	0	0	0	0	17	71	141	206	269	312	335	325	302	277	225	149	81	21	0	0	0	0	0	2567
S D	0	0	0	0	0	7	21	44	74	90	97	112	111	104	90	82	50	33	9	1	0	0	0	0	861
S/A	0	0	0	0	0	0.4	0.29	0.31	0.36	0.33	0.31	0.33	0.34	0.34	0.33	0.36	0.33	0.41	0.44	2.7	0	0	0	0	0.34
Min	0	0	0	0	0	6	18	61	75	115	97	85	93	115	86	74	30	9	0	0	0	0	0	0	574
Max	0	0	0	0	0	37	103	237	342	440	489	530	506	471	436	378	243	157	46	3	0	0	0	0	3958
n	0	0	0	0	0	214	364	347	350	344	341	336	343	336	337	324	326	353	302	5	0	0	0	0	4624

Daylight Data Recovery: 0.0% missing; 0.0% untested; 7.6% exceed the 15% QC threshold -- 5006 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

August 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	22.7	22.5	21.8	20.9	20.2	20	22	24.7	26.6	28.3	29.3	30	30.1	30.5	30.3	30	29.5	28.9	27.6	26	25.1	24.3	23.5	23	25.7
2	22.7	22.2	21.8	20.8	20.2	19.7	20.9	23.7	26.4	27.4	28.4	29.3	29.7	30.1	29.9	29.8	29.1	28.3	27.2	26.2	25.6	25	24.5	24	25.5
3	23.5	23.1	22.4	22.1	21.9	21.9	24.3	26	26.7	28.1	29.1	29.8	30.4	30.6	30.2	29	28.6	28.5	27.8	26.4	25.5	24.7	24.4	24.2	26.2
4	24.1	23.8	23.6	23.3	23	22.9	23.4	25.4	27.5	29.3	31.4	32.5	33	32.8	33	32.7	32.1	31.3	30.3	29.1	28.1	27.1	26.5	26.1	28
5	25.6	25.2	24.6	24.2	24.1	23.9	24.4	25.7	27.1	28.4	30.1	31.5	32.2	33	33.4	32.3	32.2	30.9	25.7	23.1	24.3	23.9	23.4	23.6	27.2
6	23.8	23.6	23.7	23.3	23.7	24.3	24.8	25.8	26.9	28	28.6	29.7	30.5	30.7	31.2	32	31.9	31.5	30.4	29.1	28.4	27.8	27.3	26.9	27.7
7	26.6	26.3	26.1	26.1	26	25.7	25.9	27.1	28.4	29.9	31.3	33	33.8	33.8	34.2	34.8	33.8	32.7	31.6	30.4	29.4	28.6	28.2	27.9	29.7
8	27.7	27.6	27.5	27.5	27.4	27.3	27.6	28.4	29.3	30.6	32.1	33.6	34.8	36	36.7	36.9	37	35.8	34.4	32.9	32	31.2	30.3	29.8	31.4
9	29	28.4	27.8	27.5	27.1	26.7	27	28.2	29.9	32.1	33.9	34.9	35.3	35.7	36.1	34.9	26.1	25	25.5	26	26.2	26.5	26.6	27.3	29.3
10	27.5	27.3	26.9	26.3	26.1	26.3	26.4	27.1	27.8	28.6	29.4	30.6	32.2	33.7	30.9	23.2	23.5	24.1	24.1	23.8	24	23.8	23.7	23.7	26.7
11	23.6	24	24.2	24.6	24.5	24	23.6	23.1	23.2	23.8	24.9	26.1	25.6	25.7	26	25.8	25.6	24.7	23.4	22.2	21.7	21.3	20.9	20.5	23.9
12	20.1	19.4	18.9	18.5	18.4	18.6	19.4	21.8	23.5	24.7	26.1	26.9	27.5	27.7	28.1	27.7	27.6	27.1	25.5	23.9	23.3	22.4	21.5	20.9	23.3
13	20.8	20.5	19.8	19.7	19.8	20.1	21	23.1	24.4	26.5	28.3	29.4	30.4	31.3	31.5	32.1	31.5	30.4	28.9	27.5	26.9	26.1	25.1	24	25.8
14	23.5	23.4	23.1	22.5	22.1	21.4	22	24.1	26.6	27.6	28.1	28.3	28.9	29.2	29.3	29.2	28.5	27.2	25.6	24.3	24	23.9	23.4	22.3	25.4
15	21.8	21.2	21.4	21.6	20.7	21	21.4	24.4	26.1	27.5	28.5	28.9	30	30.9	31.1	30.5	29.6	29.3	28.9	27.5	26.6	26.3	26.1	25.8	26.1
16	25.4	25.1	24.9	24.8	24.6	24.5	25.1	26.2	27.5	28.6	29.8	30.9	32.1	32.6	33.2	33.3	32.7	31.7	30.2	28.9	28.1	27.3	26.8	26.5	28.4
17	26.1	25.4	23.7	21.8	21.2	21.7	23.1	23.9	24.3	24.6	26.3	27.7	28.9	29.9	30.5	30.4	30.5	30.2	29.3	28.5	28.1	27.8	27.5	27.2	26.6
18	26.8	26.2	25.4	25.1	24.5	23.6	23.9	25.8	26.8	27.7	28.1	28.4	28.5	27.1	27	26.7	25.7	25.1	24.4	23.6	23.1	22.9	22.8	22.9	25.5
19	22.2	21.9	22	21.5	21	21.4	22.4	23.8	25	25.8	26.4	27.9	28.8	29.6	30.1	30	29.3	28.1	27.3	26.9	26.6	26.4	26.3	26	25.7
20	25.6	25.4	25.3	25.2	25.2	25.2	25.3	26.1	27.2	28.3	29.5	30.5	31.6	32.8	34.1	32.7	29	27.8	26.5	25.8	25.7	26.4	26.9	26.7	27.7
21	26.7	26.5	26.2	25.9	25.6	25.4	25.7	26.8	28.1	29	29.6	30.1	32	33.1	34.1	34.7	34.9	34.3	31.7	30.4	24.7	22.8	22.9	23.2	28.5
22	23.3	22.8	22.8	22.9	23	22.9	22.8	23.2	24.4	25.8	26.5	27	27.5	26.8	26.7	27.3	26.6	25.5	24.5	23.9	23.7	23.3	23.1	23.1	24.6
23	23.2	23.2	22.8	22.8	22.8	22.8	22.9	23.9	25.3	26.4	27	26.9	27.1	27.1	27.1	27.2	26.6	25.7	24.7	23.8	23.4	22.9	22.5	21.8	24.6
24	21.3	21	21.3	21.5	21.6	21.5	22.2	23.6	24.9	27	27.7	29.1	29.9	29.6	30.2	30.4	30.1	28.4	27.3	26.7	26	25.5	25.4	25.2	25.7
25	24.9	24.6	24.4	24.2	24	23.9	24.5	25.4	26.5	28.7	29.8	31.1	32.4	33.1	33.5	33.6	32.9	31.8	29.8	28.2	27.6	27.1	26.4	26	28.1
26	25.6	25.3	24.9	24.5	24.4	24.3	24.8	26.2	27.9	29.3	30.1	30.8	31.4	32.3	31	25.9	23.7	23.8	23.6	23.2	23.2	23.1	23.1	23.3	26.1
27	23	22.6	22.4	22.2	21.9	21.7	21.8	22.2	24	25.9	27.4	28.9	29.2	29.9	30.2	29.9	29.1	27.6	26.1	25.1	24.3	24	23.8	23.7	25.3
28	23.1	22.4	22.2	22	21.7	21.7	22.7	24.1	25.6	27.3	28.5	28.9	29.1	29.1	28.9	28	27.3	26.4	24.8	23.7	23.1	22.6	22	21.2	24.9
29	21.1	21.1	20.4	20.4	20.9	20.5	21.5	23	24.4	26.2	27.2	27.9	28.3	28.7	28.5	27.9	27.1	26	24.5	23.3	22.5	21.7	21.1	20.9	24
30	19.4	18.7	18.5	18.1	17.9	17.9	19.5	22.2	24	25.9	27.3	28.2	28.4	28.6	28.6	28.1	27	25.8	24.1	23.2	22.9	22.4	20.5	18.9	23.2
31	18.4	18.2	18.1	18	18.1	18.1	18.9	20.8	23.9	26	27.2	28.4	29.2	30	29.9	29.3	28.7	27.7	26.4	25.4	24.7	24.4	22.8	22.6	24
Avg	23.8	23.5	23.2	22.9	22.7	22.6	23.3	24.7	26.1	27.5	28.6	29.6	30.3	30.7	30.8	30.2	29.3	28.4	27.2	26.1	25.4	25	24.5	24.2	26.3
S D	2.6	2.6	2.5	2.6	2.6	2.5	2.2	1.9	1.8	1.8	1.9	2.1	2.3	2.5	2.7	3.1	3.2	3	2.8	2.7	2.3	2.3	2.4	2.5	2
S/A	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.1	0.11	0.11	0.1	0.1	0.09	0.09	0.1	0.1	0.07
Min	18.4	18.2	18.1	18	17.9	17.9	18.9	20.8	23.2	23.8	24.9	26.1	25.6	25.7	26	23.2	23.5	23.8	23.4	22.2	21.7	21.3	20.5	18.9	23.2
Max	29	28.4	27.8	27.5	27.4	27.3	27.6	28.4	29.9	32.1	33.9	34.9	35.3	36	36.7	36.9	37	35.8	34.4	32.9	32	31.2	30.3	29.8	31.4
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

August 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	?	104.9	?	?	?	?	103.3	?	98.9	91.6	79.5	74.1	70.6	65.6	59.9	56.9	64.9	66.1	69.9	78.6	88.4	95.6	100.3	103.7	104.9	?	83	?			
2	?	?	?	?	?	?	?	102.4	?	94.1	84.8	77.9	73.5	69.8	67	67.2	68.1	71.7	78.6	87.3	90	91.6	92.2	94	97	82.8	?				
3	99.7	101	102.9	104.1	104.6	104.9	?	100.7	97.5	93.5	83.1	77.8	72.9	71.2	63.3	65.6	80.1	82.3	83.5	87.8	94	97.6	99.8	100.7	102.6	90.5	?				
4	104.3	104.4	104.7	?	?	?	?	104.1	?	97.8	86.7	79.8	70.7	63	60.4	64.4	56.9	59.9	66.4	70	79.2	86.5	88.2	92.8	95.3	96	82.5	?			
5	101.5	102.7	102.7	103.4	102	102.8	101.2	96.6	90.5	86.3	80.9	77	74.5	69.4	67.6	72.7	71.4	74	90.8	103.7	102.7	104.1	?	104.1	?	104.2	?	91.1			
6	?	?	?	104.7	103.7	100.9	99	97.4	95.1	92.9	91.4	88.4	86.1	85.4	83.6	81.2	81.1	82.6	89.6	97.1	100.3	99.7	99.9	103.9	93.5	?	?				
7	?	?	?	?	?	?	?	103	?	99.5	94.3	88.8	81.8	76.5	76.7	73.3	70.7	77.8	83.5	92.2	96	96.6	100.2	102.7	103.6	89.3	?	?			
8	104.6	104.9	105	?	?	?	?	104.6	?	102.5	99.2	95.9	89.5	82.5	77.1	67.7	63.3	62.9	62	72	78.7	87.3	94.2	88.6	90	88.9	86.7	?			
9	92.2	94.6	97.2	99.6	101.2	102.8	102.7	99.8	93.9	85.5	78.9	76.8	77.7	75.5	70.8	69.9	94	103.4	104.5	?	104.9	?	?	104.9	?	104.5	?	92.5	?		
10	?	?	?	?	?	?	?	104.7	?	103.2	99.1	95.5	95.3	93.2	88	83.5	84.3	102.8	?	103	?	102.1	103.8	104.7	?	104.6	?	98.3	?		
11	?	105	?	?	104.7	104.2	104	102.6	100.4	96.7	90.8	87.7	89.3	87.7	85.3	100.4	84.9	85	86.8	91.5	95.3	97.7	99.4	99.7	99.5	95.2	?	?			
12	100.3	102.4	104	104.9	105	?	104.9	?	101.8	94.4	87	83	71.9	64.6	64.9	67.2	60.5	61	61.7	62.9	73.8	83	86.3	89.5	93.3	96.1	84.3	?	?		
13	96.8	99.6	102.6	104.2	105	?	?	104.2	?	99.9	95.4	87.5	75.8	70.3	67.9	67.3	64.6	59.5	64.5	72.9	80.5	88.1	93.3	95.6	97.7	101.5	86.7	?	?		
14	104.1	?	?	?	104.7	?	104.9	?	103.6	98.9	90.1	79.1	73.3	72.7	61	57.9	56	55.9	59	69	78.1	84.5	86.6	83.8	86.5	92.2	81	?	?		
15	92.7	94.2	93.3	92.5	95.7	93.4	92.8	83.4	78.3	62.7	67.1	75	71.5	65	67	71.3	78.1	81.4	86.4	91.8	96.1	98.5	100.3	101.2	84.6	?	?	?	?		
16	101.9	102.9	104.2	104.9	?	?	104.9	?	103.2	98.5	94.3	87.9	81.9	77	75.5	72.6	73.2	75.1	80.9	88.7	93.4	94	94.9	96.4	97.5	91.1	?	?	?		
17	99	98.2	99.5	103.1	?	?	?	?	104.6	?	104.4	104.2	101.1	98.6	93.5	84.4	82.8	82.2	82	85.2	89.6	92	96.9	100.4	101.3	102.1	95.5	?	?		
18	102.9	103.8	101.1	92.8	83.5	81.7	79.5	71.1	69.3	62.9	60.6	60.6	63.4	73.5	72.6	72.3	73.6	73.7	75.3	78.2	79.6	80.2	80.7	80.7	78.1	?	?	?	?		
19	85.5	88.1	88.5	90.6	91.1	86	81.5	78.2	75.6	75.6	79.5	82	80.8	77.6	76.5	79	83.9	89.8	94.1	96.7	97.9	98.7	99.4	101.2	86.6	?	?	?	?		
20	103	103.8	104.1	104.2	104.4	102.4	99.4	94.3	88.8	86	82.5	79.2	75.9	72.4	69	77.2	92.3	96.3	100.9	104	104.8	?	103.9	?	100.7	99.4	93.7	?	?		
21	99.2	101.1	102.3	102.6	102.4	102.1	100.9	98.4	95.5	91.9	87	84.2	79.4	73.2	68.4	64.9	60.6	68.9	82.6	90.4	94.6	?	?	?	?	88.1	?	?	?		
22	?	?	?	?	?	?	?	?	101.1	97	94.5	93	90.7	92.5	92.2	89.1	90.8	95.2	99.6	102.2	103.1	103.9	104.2	103.5	97	?	?	?	?		
23	101.3	101.6	102.7	101.1	99.9	100.5	100.6	97.7	93.4	89.6	86.6	87.6	87.7	87.4	88.5	88.4	89.5	92.4	95.4	99.9	102.5	104.2	104.9	?	?	95.8	?	?	?		
24	?	?	?	?	?	?	?	?	103.3	?	99.5	94.1	92.1	87.4	85.5	87.7	85.1	83.1	83.7	91.8	97.1	99.9	100.6	102.3	102.9	103.9	94.1	?	?	?	
25	104.5	104.7	?	?	?	?	?	?	103.6	?	101	95	89.7	85.7	81.3	77.5	72.2	70.9	76.3	81.4	88.6	94	96	97.2	99.3	101.7	90.6	?	?	?	
26	103.3	104.5	?	?	?	?	?	?	103.1	98	92.5	88.5	82.4	76.6	70.4	79.9	94	102.8	?	?	?	?	?	?	?	?	91.3	?	?	?	
27	?	?	?	?	?	?	?	?	?	101.1	94.9	86.5	83.9	79.2	77	77.4	83.3	84.9	92.8	97.1	100.6	102.8	104.6	?	?	90.4	?	?	?	?	
28	?	?	?	?	?	?	?	102.6	100.1	96.2	81	72.4	68.4	66.6	62.9	68.6	73.5	75.7	79.1	90.2	98.5	100.8	103.1	104.6	?	85	?	?	?	?	
29	?	?	?	?	?	?	?	102.7	?	99.9	95	82.8	75.3	69.5	62.7	59.9	61	56.1	58.4	68.5	81.7	90	93.8	98.1	100.8	102.2	81	?	?	?	
30	104.5	?	?	?	?	?	?	103.8	?	97.8	92.9	78	58.5	54.8	54.4	53	52	52.9	56.3	66.4	74	78	79.6	83	93.2	100.1	75.4	?	?	?	
31	101.2	102.6	102.7	102.9	102.4	103	100.3	92.8	83.4	79.8	77.6	74	69.2	65.4	68.3	71.4	76.8	81.8	84.2	89.7	93.7	94.6	100.3	101.8	88.3	?	?	?	?	?	
Avg	100.1	101.2	101.1	101	100.7	99.6	100.1	97.5	92.9	86.8	81.7	78.2	75.2	72.6	71.3	73.3	76.9	81	87.9	93.3	95.5	97	98.8	99.6	88.5	?	?	?	?	?	
S D	5	4.4	4.5	4.9	6.1	7.3	6.7	7.7	8	9.8	10.4	10.2	10.1	10.1	10.3	11.7	12.6	10.6	8.5	7.3	6.6	6.8	5.9	5.6	5.8	?	?	?	?	?	
S/A	0.05	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.09	0.11	0.13	0.13	0.13	0.13	0.14	0.14	0.16	0.16	0.13	0.1	0.08	0.07	0.07	0.06	0.07	?	?	?	?	?	
Min	85.5	88.1	88.5	90.6	83.5	81.7	79.5	71.1	69.3	62.7	58.5	54.8	54.4	53	52	52.9	56.3	62.9	73.8	78	79.6	80.2	80.7	80.7	75.4	?	?	?	?	?	
Max	104.6	105	105	104.9	105	104.9	104.9	104.6	104.4	104.2	101.1	98.6	93.5	92.5	92.2	102.8	103	103.4	104.5	104.9	104.8	104.9	104.9	105	98.3	?	?	?	?	?	
n	233	224	176	174	155	148	227	324	360	372	372	372	372	372	372	372	364	358	360	352	346	335	317	323	274	7287	?	?	?	?	?

Data Recovery: 0.0% missing; 0.0% untested; 18.4% 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

August 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	22.3	22.1	21.7	21.2	20.6	20.1	20.7	23.2	26.7	30.5	33.3	34.8	35	34.6	34.8	35.2	35.2	34.4	32.5	29.1	26.1	24.5	23.3	22.4	27.7
2	21.8	21.6	21.3	20.8	20.3	19.9	20.2	22.2	26	30.3	33	34.7	35.2	34.9	34.9	35.1	34.8	33.7	31.7	28.8	26.6	25.3	24.3	23.7	27.5
3	23	22.3	21.6	21	20.7	20.5	21.5	25.1	28.7	30.7	32.6	35.1	36.3	35.4	35.5	34.3	33.2	32.1	31.4	29.1	26.6	25.1	24.2	23.8	27.9
4	23.5	23.3	23.1	23.1	23	22.9	23.2	24.9	28.2	31.5	34.7	37.6	38.6	38.5	38.1	38	37.5	36.3	34.2	31.4	29.4	28.1	27	26.2	30.1
5	25.6	25.3	24.9	24.5	24.1	23.7	23.7	25	27	29.9	32.7	35.4	37	37.6	38.1	37.7	36	34.2	31.5	26.1	24.1	23.8	23.6	23.3	29
6	23.5	23.7	23.7	23.4	23.1	23.2	23.8	25	27.4	29.2	31.2	32.5	34.2	35.1	35.3	36	36.6	36.2	34.3	31.7	29.8	28.6	27.8	27.2	29.3
7	26.7	26.5	26.3	26.3	26.2	26.1	26.1	27.1	30	33.4	36.2	38	39.7	39.8	39.8	40.2	40.2	38.3	35.6	33	31.2	30	29	28.3	32.2
8	27.9	27.8	27.7	27.5	27.4	27.3	27.5	28.6	30.6	32.6	35	37.5	39	39.8	40.6	41.3	41.3	40.7	38.7	35.8	33.6	32.4	31.3	30.4	33.4
9	29.8	29.1	28.5	28	27.6	27.1	27.2	28.8	31.5	35	38.5	40.9	41.9	41.9	41.9	40.8	35.1	28	26.1	25.8	25.8	26	26.1	26.4	31.6
10	27	27.2	27.2	26.8	26.5	26.3	26.3	26.7	27.9	29.6	31.5	33.4	35.6	37.6	38.5	31.7	25.9	24.2	23.8	23.8	23.9	23.7	23.6	23.6	28
11	23.4	23.4	23.7	24.1	24.6	24.7	24.5	24.3	24.3	24.6	26.1	28.8	30.1	30	30.5	31	30.5	29.5	27.5	24.7	22.4	21.2	20.4	19.9	25.6
12	19.5	18.8	18.2	17.7	17.4	17.4	18.1	20.6	23.9	26.7	29	30.8	31.6	32	32.5	33.3	33.2	32.7	30.7	26.9	24.1	22.6	21.2	19.9	25
13	19.2	19.1	18.8	18.8	19	19.3	19.8	21.7	24.6	27.7	31	33.5	34.9	35.5	36.4	37	37	35.8	33.3	30.1	28	26.7	25.4	24.3	27.4
14	23.3	22.7	22.7	22.5	22	21.3	21.2	23	26.3	29.6	31.5	32.6	33.2	33.4	33.8	34.3	34.3	33	30.3	26.7	24.3	23.4	22.8	22	27.1
15	20.7	20.2	19.7	19.6	19.4	19.2	19.6	22.4	26.3	29.4	32	33.7	34.5	35.5	36	35.6	34.7	33.3	31.7	29.6	27.7	26.6	26	25.6	27.5
16	25.3	25	24.8	24.6	24.5	24.4	24.5	25.9	28.2	30.7	32.8	34.5	35.6	36.2	36.7	37.3	37.2	35.9	33.8	31.2	29.5	28.5	27.7	27.2	30.1
17	26.9	26.5	25.8	24.2	22.5	22	22.2	22.9	23.6	24.4	26.3	28.5	30.3	31.8	33.5	34.3	34.2	33.7	32.3	30.2	28.8	28.1	27.8	27.5	27.8
18	27.1	26.6	25.9	24.9	24.3	23.4	23.1	25.1	27.8	30.1	31.9	33.1	33.8	33	32.1	31.7	30.6	28.6	27.1	25	23.5	22.6	22.1	22	27.3
19	21.7	21	20.9	20.8	20.3	20	20.7	22.9	25.5	27.6	28.9	30.3	31.9	32.8	33.6	34	33.7	31.7	29.7	28.3	27.4	26.8	26.5	26.3	26.8
20	26.1	25.8	25.5	25.4	25.2	25.1	25.2	26.3	28.3	30.5	32.5	34.2	35.4	36.3	37.9	39.6	37.2	34	31	28.2	26.7	26.1	26.2	26.4	29.8
21	26.4	26.5	26.3	26	25.7	25.3	25.5	27	29.3	31.5	33.5	34.5	35.4	36.6	37.8	39	39.4	38.8	36.5	33.1	30.3	26	24.2	23.6	30.8
22	23.6	23.5	23.2	23.1	23.2	23.2	23.2	23.3	24.2	26.7	28.4	30.3	31.4	31.4	30.4	30.9	31.2	29.7	27.5	25.5	24.3	23.8	23.2	23.1	26.2
23	23.2	23.4	23.4	23.3	23.2	23.2	23.1	24.3	26.9	29.9	32.1	32.1	31.3	31.4	31.3	31.8	31.7	30.5	28.4	25.8	24	23.1	22.4	21.9	26.7
24	21.4	20.9	20.9	21.1	21.2	21.3	21.5	22.7	24.8	28.8	31.9	33.8	35.2	35.5	35.5	36.2	35.7	34	31	28.5	27.1	26.1	25.5	25.2	27.7
25	24.9	24.7	24.4	24.2	24.1	23.9	24	25.1	27	29.6	33.1	35.3	36.9	38	38.4	38.9	38.7	37.3	34.6	31.1	29	27.8	26.9	26.2	30.2
26	25.8	25.3	25	24.6	24.3	24.2	24.5	26.3	29.4	32.6	34.9	35.8	36.3	36.5	36.4	33.6	28.2	25.3	24.3	23.8	23.4	23	22.8	22.9	27.9
27	23	22.9	22.8	22.5	22.2	22	22.1	22.5	23.6	26.6	29.5	31.8	33.3	34.1	35.1	35.6	35.1	33.1	30.2	27.4	25.5	24.4	23.7	23.3	27.2
28	23	22.5	22	21.8	21.4	21.2	21.4	23.3	26.2	29.1	31.5	33.2	33.8	33.7	33.8	33.7	33	31.6	28.9	25.7	23.7	22.6	21.9	21.3	26.7
29	20.8	20.7	20.4	20	20.1	20	20.2	21.9	24.9	27.9	30.5	32.3	33	33.1	33.4	33.3	32.6	31.2	28.6	25.1	22.7	21.2	20.3	19.7	25.6
30	19.3	18.5	18	17.6	17.3	17	17.7	19.8	23.4	27.3	30.3	32.1	33.2	33.1	33.4	33.5	32.6	30.7	27.6	24.6	23	21.8	20.8	19.1	24.7
31	18	17.2	16.9	16.8	16.8	16.8	17.3	19.8	23.6	27.4	30	32.1	33.4	34.3	35.1	34.9	34	32.6	29.8	27.1	25.3	24.4	23.4	22.5	25.4
Avg	23.7	23.4	23.1	22.8	22.5	22.3	22.6	24.1	26.7	29.4	31.8	33.7	34.8	35.1	35.5	35.5	34.5	32.9	30.8	28.2	26.4	25.3	24.6	24	28.1
S D	2.9	3	3	2.9	2.9	2.9	2.7	2.3	2.2	2.4	2.6	2.7	2.7	2.8	2.8	2.9	3.3	3.7	3.4	3	2.8	2.7	2.7	2.8	2.1
S/A	0.12	0.13	0.13	0.13	0.13	0.13	0.12	0.1	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.08
Min	18	17.2	16.9	16.8	16.8	16.8	17.3	19.8	23.4	24.4	26.1	28.5	30.1	30	30.4	30.9	25.9	24.2	23.8	23.8	22.4	21.2	20.3	19.1	24.7
Max	29.8	29.1	28.5	28	27.6	27.3	27.5	28.8	31.5	35	38.5	40.9	41.9	41.9	41.9	41.3	41.3	40.7	38.7	35.8	33.6	32.4	31.3	30.4	33.4
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

August 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	0.8	0.2	0.6	0.4	0.1	0	0	0.5	1.7	1.7	2.4	3.1	3.6	3.4	3.7	3	2.9	2	2.1	1.2	1	0.4	0	0	1.5
2	0	0	0	0	0.1	0	0.1	0.3	0.8	1.2	1.6	1.9	2.4	2.9	3.3	3.1	3.6	4	3.4	2.5	1.9	1.3	1.1	0.4	1.5
3	0.2	0	0	0	0	0	0	0.2	0.6	0.8	1.3	2.1	2.4	2.7	3.4	4.2	3.6	3	2.6	1.2	0.5	0.5	0.9	0.5	1.3
4	0.6	0.2	0.8	0.6	0.3	0.7	1.6	1.7	2.4	1.9	1.1	1.4	1.4	2.4	2.9	3.2	3	2.9	1.6	1.7	1.7	1.2	1.1	0.7	1.5
5	0.9	2.2	1.9	1.7	0.2	0.2	0.6	1.7	2.7	2.7	2.1	2.2	2.6	3	3.6	4.1	3.9	3	4.4	1.8	1.6	1.2	1.5	0.4	2.1
6	0.2	0.6	1.6	1.6	1.4	1.5	1.7	2.1	1.8	3.5	3.4	2.9	2.9	3.1	2.9	2	2	1.9	1.8	1.7	1	1.2	1.1	0.9	1.9
7	1.2	0.9	1	1.4	1.6	1.2	0.7	0.9	1.2	1.1	1.6	1.5	1.5	1.9	1.7	2	2.7	2.7	2.5	2.1	2.6	1.9	1.9	2.1	1.7
8	2.2	2.4	2.3	2.4	2.1	1.8	2.1	2.9	3.7	3.1	2.7	2.3	2.7	3.1	2.8	2.9	2.6	2	1.7	1.7	2.4	1.5	1.4	2.2	2.4
9	1.9	2.1	1.9	1.1	1.5	1.6	1.8	1.8	1.1	0.5	0.9	1.3	1.4	2.2	2.7	2.1	4	0.6	0.2	0.2	0	0.8	0.9	0.7	1.4
10	0.6	0.4	0.4	0.5	0.2	0.1	0.1	0.9	2.7	3	2.7	2.2	1.8	1.8	3.5	2.7	1.6	2.1	0.2	0.7	1.7	0.8	0.2	0.1	1.3
11	0	0.8	1.2	2.6	2.7	2.4	2.3	2.9	2.8	3.3	3.1	2.5	3.2	2.7	3	3.2	3.1	3.2	3	1.8	0.9	0.7	0.9	1	2.2
12	0.6	0.3	0.1	0.3	0.4	0.7	0.9	2.3	2.9	2.9	2.7	2.6	2.5	2.5	2	2.4	2.1	1.9	2.2	1.5	1.2	0.5	0.1	0	1.5
13	0.1	0	0.2	0.3	0.5	0.1	1.1	1.8	2.5	2.4	1.8	1.8	2.1	1.5	1.4	2.1	2.2	1.9	1.8	1.8	0.6	0.6	0.5	0.1	1.2
14	0.1	0.8	0.6	0.3	0.3	0.5	0.9	2.2	2.9	3.6	3.4	3.1	2.9	3	2.8	2.5	2.7	2.8	2.3	1.6	1.7	1.5	0.8	0	1.8
15	0.3	0.2	0.3	0.2	0.1	0	0.3	0.9	2.3	2.6	2.1	2.3	1.7	2.1	2.4	3.5	4	2.8	2.4	1.8	1.6	1.3	0.8	1.3	1.5
16	1.5	1.5	1.7	2.3	1.7	1.4	1.9	2.5	2.8	2.8	3.3	3.8	3.8	4.5	4.4	3.9	4.1	3.7	3.3	3.2	3.9	3.7	4.4	2.5	3
17	1.5	1.6	2	1.8	2.1	1.4	2.5	1.9	2.4	2.6	3.2	3.6	4.4	2.8	3.2	3.8	3.6	2.8	1.8	1.3	1.7	2.5	2.9	3.1	2.5
18	2.9	2.7	2.1	2.8	1.9	1	1	2.7	3.1	3.1	2.8	3	2.8	3.8	3.1	2.8	3.2	2.7	2.4	2.2	1.4	1.5	1.7	1.5	2.4
19	0.3	0.7	1.2	0.6	0.8	1.2	1.4	2.4	3.3	3.9	3.6	3.3	2.7	2.9	3.4	3.5	3.3	2.8	2.9	3.1	3	2.9	3.4	3.3	2.5
20	3.5	3.9	4	3.4	2.8	3.1	3.4	3.7	3.4	3.7	3.3	3	2.7	2.1	1.2	2.3	3.7	3.3	3	2.1	0.5	1.2	2.2	2	2.8
21	2.5	2.5	2.2	1.8	1.1	2	2.9	3.5	3.5	3.4	3.3	3.2	2.4	2.4	2.3	2.3	1.7	1.1	1.9	1.3	6.7	2.4	1.5	1.7	2.5
22	0.6	2	2.2	1.5	0.5	1.3	0.9	1.2	2	1.5	1.8	2.9	2.8	2.8	2.6	2.6	3	2.4	1.9	1.9	1.5	1.5	1.3	1.4	1.8
23	1.6	1.2	1.6	1.8	1.9	1.5	1.3	1.7	2	1.5	1.9	1.7	1.7	2.5	2.6	2.7	2.9	2.8	2.1	1.4	0.8	0.5	0.3	0	1.7
24	0	0	0	0	0	0	0	0.2	0.7	0.8	0.7	0.7	1.3	2.1	2.1	2.6	3	3.6	1.9	2	2.5	1.7	1.6	1.5	1.2
25	1.6	1.7	1.4	1.6	1.4	0.4	1.1	1.7	2.5	2.6	2.5	1.8	1.7	2.3	2.6	2.6	2.6	2.6	3	2.6	2.2	1.9	1.9	2.3	2
26	2	1.5	1.4	0.5	1.1	0.9	0.6	1.2	1.7	1.6	1.3	3	3.1	2.7	4.8	3.2	2.3	3.1	0.7	1.1	0.1	0.1	0.1	0.2	1.6
27	0.9	1.3	0.3	0	0.4	0.3	0.6	0.7	1.3	2.4	2.4	2.5	2.7	2.8	2.6	2.8	3.1	3.3	2.7	1.9	1.4	0.9	0.6	0.6	1.6
28	0.1	0	0.6	0.5	0.4	1	2.1	2	2.6	3.1	3.1	3.2	3.2	3.2	3.3	3.2	3	2.7	1.7	1.1	0.9	0.7	0.4	0.4	1.8
29	0.7	0.9	0.3	0.7	1	0.5	1.4	1.8	2.6	2.3	2.5	2.8	2.8	2.7	3.2	3.6	3	2.1	2	0.6	0.1	0.1	0.1	0.3	1.6
30	0.1	0.1	0	0.1	0	0	0	1.1	1.4	2	2.9	2.5	2.7	2.7	3	2.9	3.2	2.6	1.5	1.7	0.9	0.4	0	0	1.3
31	0	0.1	0	0.2	0.1	0.2	0.5	0.7	1.3	2.1	2.6	2.1	2	2	2.1	2.2	1.9	1.9	1.4	0.5	0.5	0.2	0.1	0.2	1
Avg	0.9	1.1	1.1	1.1	0.9	0.9	1.2	1.7	2.2	2.4	2.4	2.5	2.5	2.7	2.9	2.9	3	2.6	2.1	1.7	1.6	1.2	1.2	1	1.8
S D	0.9	1	1	1	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.8	0.6	0.7	0.7	0.9	0.7	1.3	0.8	1	1	0.5
S/A	1	0.95	0.87	0.9	0.92	0.92	0.79	0.55	0.39	0.4	0.34	0.3	0.29	0.23	0.27	0.21	0.23	0.28	0.41	0.41	0.83	0.7	0.9	0.96	0.28
Min	0	0	0	0	0	0	0	0.2	0.6	0.5	0.7	0.7	1.3	1.5	1.2	2	1.6	0.6	0.2	0.2	0	0.1	0	0	1
Max	3.5	3.9	4	3.4	2.8	3.1	3.4	3.7	3.7	3.9	3.6	3.8	4.4	4.5	4.8	4.2	4.1	4	4.4	3.2	6.7	3.7	4.4	3.3	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: 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

August 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	55	40	18	348	1	0	13	46	63	66	85	97	93	104	106	107	119	114	121	127	117	116	131	0	98
2	164	0	0	0	355	18	50	47	127	102	102	137	152	135	146	175	162	167	173	178	175	198	184	199	157
3	202	206	0	0	0	0	0	287	268	288	169	190	147	185	194	190	193	205	217	217	220	228	216	244	197
4	243	262	263	266	268	275	277	309	300	305	307	304	216	170	196	202	198	191	185	210	214	217	214	221	228
5	259	276	273	289	298	205	266	264	284	294	262	239	229	221	210	183	184	190	349	152	184	8	198	134	236
6	25	222	252	241	222	230	241	247	250	257	268	253	252	251	260	238	224	215	209	216	229	240	236	246	243
7	260	262	265	264	264	278	270	285	290	277	282	245	252	214	250	230	211	194	191	208	214	230	240	240	238
8	238	239	244	245	253	257	261	265	272	285	270	280	289	305	290	279	267	236	244	236	248	259	262	272	265
9	271	274	278	297	273	276	282	280	288	267	205	199	221	214	219	276	3	74	161	206	8	61	106	158	266
10	202	280	288	12	48	195	271	237	259	260	282	279	284	215	352	274	290	295	353	322	315	327	346	31	285
11	0	49	75	85	89	92	59	54	66	79	80	88	97	92	86	84	91	90	96	91	76	35	44	37	81
12	34	33	25	22	31	25	12	46	54	74	73	82	105	121	126	150	132	105	116	132	158	204	206	209	95
13	212	253	312	287	282	288	312	309	311	314	308	315	320	351	350	21	76	115	130	150	158	204	238	266	332
14	276	288	342	11	17	3	22	59	90	83	68	79	78	100	109	112	118	105	120	127	141	135	158	172	95
15	211	221	193	203	171	170	197	203	201	200	217	249	268	229	215	191	179	187	195	215	220	232	260	210	
16	261	255	257	268	265	254	250	249	251	248	251	252	248	255	246	237	238	241	242	242	249	250	260	296	251
17	273	318	343	9	163	220	221	260	277	274	275	278	284	266	258	271	280	276	272	252	245	252	263	277	270
18	295	321	349	15	16	14	32	57	74	67	92	108	109	114	113	129	131	130	142	155	175	170	156	162	99
19	159	173	181	207	201	176	171	178	176	194	198	230	235	230	227	228	229	225	223	231	235	244	253	262	220
20	267	268	268	271	270	276	277	285	294	307	310	311	305	316	324	102	114	108	113	120	118	207	227	238	277
21	242	253	261	266	278	275	279	288	316	329	331	315	311	299	297	294	296	85	157	124	30	283	153	136	300
22	299	302	309	284	333	334	12	23	28	34	55	61	59	56	54	84	88	101	78	92	92	107	100	94	57
23	96	60	50	56	60	60	25	38	82	58	54	40	38	75	74	85	92	109	111	105	102	105	94	334	73
24	340	351	0	56	55	0	93	122	170	276	344	163	202	188	204	195	187	179	171	198	214	220	234	259	200
25	273	266	263	264	266	260	251	264	274	286	303	282	270	240	224	226	216	205	218	223	242	241	256	262	250
26	260	258	267	254	249	260	273	260	276	265	257	216	208	202	200	273	24	158	348	360	86	74	52	32	238
27	61	55	14	352	19	351	349	354	46	54	74	70	86	87	103	99	97	103	98	97	102	100	99	95	83
28	32	27	45	40	56	54	62	63	71	83	90	96	79	81	93	91	95	96	100	103	96	59	42	20	83
29	37	46	0	51	40	22	69	60	77	88	84	90	64	77	100	114	102	105	108	95	84	63	66	69	84
30	359	3	8	5	17	61	48	81	61	76	87	91	80	81	91	89	98	110	100	102	102	100	0	320	89
31	358	341	347	4	4	7	357	352	6	31	55	56	63	81	95	113	119	119	123	130	136	135	304	340	76
Avg	266	280	285	296	275	280	289	310	320	332	3	214	174	163	173	174	152	154	155	171	198	227	228	251	222
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

August 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	2.1	1	1.6	1.5	0.6	0	0.1	1.6	3.1	3.3	4.3	5.5	6.5	6	6.3	5.4	5.4	3.8	3.7	2.3	2.2	1.3	0.3	0	2.8
2	0	0	0	0	0.4	0.3	0.6	1.1	2	2.9	3.2	3.8	4.4	5	5.3	5.4	5.9	6.4	5.6	4	3.2	2.4	2.1	1.2	2.7
3	0.6	0.1	0	0	0	0	0	0.8	1.6	1.8	3	3.9	5	4.8	5.5	6.8	6	5.4	4.9	2.4	1.5	1.8	2.1	1.5	2.5
4	1.9	0.8	1.9	1.5	1.2	1.6	2.7	3.2	3.8	3.6	2.5	3.2	2.8	4	4.9	5.2	5	4.9	2.8	3.2	3.1	2.5	2	1.8	2.9
5	2	3.4	3	2.8	0.7	0.7	1.3	2.9	4.4	4.3	3.7	3.8	4.6	5.4	6.5	6.6	6.4	5	8.8	3.1	2.9	2.6	2.8	1	3.7
6	0.8	1.7	3	3.5	3.3	3.6	3.5	4.1	3.6	6.1	5.9	5.3	5.1	5.2	4.6	3.5	3.3	3.3	3.1	3.1	2	2.5	2.4	2.2	3.5
7	2.3	1.9	2.2	2.7	3.1	2.2	1.9	2.2	2.5	2.4	3.3	3	3	3.5	3.3	3.7	4.4	4.4	4	4	4.6	4.2	3.7	4	3.2
8	4.2	4.8	4.2	4.8	4	3.6	4.2	5.3	5.9	5	4.5	4.4	4.9	5.4	5	4.9	4.3	3.8	3.2	3.4	4.5	2.8	2.5	3.7	4.3
9	3	3.3	2.9	2.1	2.6	2.7	3	3.1	2.5	1.5	2.2	2.8	3	4.2	4.7	4.6	8.2	1.6	1.2	0.5	0	1.7	2.3	1.7	2.7
10	1.4	0.8	1.2	1.2	0.7	0.6	0.9	2.1	4.7	5.1	4.8	4	3.5	3.7	7.5	4.6	3.2	3.8	0.8	1.7	3.4	2	0.7	0.5	2.6
11	0	2.3	2.9	4.9	5	4.1	4.4	5.2	5.1	6.3	5.6	4.7	5.9	4.9	5.2	5.5	5.4	5.6	5.1	3.5	2.2	1.7	1.9	2.5	4.2
12	1.9	1	0.9	1.1	1.3	1.8	2.6	4	4.8	5	4.9	5.1	4.8	4.5	4	4.6	3.8	3.5	4	3	2.3	1.4	0.5	0.3	3
13	0.4	0.1	0.6	1	1.2	0.3	2.1	3.5	4.2	4	3.6	3.8	4.3	3.7	3.6	4.4	4.1	3.3	3.1	2.9	1.5	1.6	1.5	0.5	2.5
14	0.3	1.7	1.8	1.3	1.1	1.3	2.4	4.3	5.6	6.2	6.4	5.9	5.2	5.3	4.8	4.5	4.6	5	4.1	3	3.3	3.2	2	0.2	3.5
15	0.9	1	1	0.8	0.4	0.2	0.8	2.1	4.1	4.7	4.1	4.4	3.9	4.3	4.3	5.4	6	4.3	4.1	3.6	3.2	2.9	2.2	2.4	3
16	2.7	3.1	3.1	3.9	3.2	2.5	3.5	4.1	4.6	5	5.7	6.5	6.6	7.7	7.5	7.1	7.1	6.6	5.9	5.7	6.9	6.3	8.2	4.5	5.3
17	2.7	3.3	4.2	4.1	3.9	3.1	5	3.6	4	4.5	5.3	6	7.4	4.7	5.7	6.5	6.2	4.6	3	2.4	3.4	4.2	5.1	5.2	4.5
18	4.8	4.9	4.3	5.2	3.6	2.1	2.2	4.9	5.5	5.7	5	5.3	4.9	6.4	5.8	4.7	5.4	4.7	4.1	3.7	2.6	2.9	2.9	2.8	4.4
19	1.1	1.7	2.3	1.6	1.7	2.3	2.7	3.7	5.2	6.2	6.1	6.2	5	5.5	6.3	6.6	6.7	5.5	6	6.3	5.9	5.6	6.1	6.1	4.7
20	6	6.8	7.2	5.6	4.6	5.3	5.6	6.1	5.5	6	5.9	5.8	4.7	4.2	3.3	4.5	6.1	5.7	4.9	3.8	1.6	2.5	4.4	4	5
21	4.7	4.6	3.9	3.4	2.1	3.4	4.9	5.9	6.6	6.3	5.9	5.6	4.7	4.4	4	4.1	3.1	2.4	3.1	2.8	11.9	4.6	2.9	3.3	4.5
22	1.3	3.3	3.7	2.7	1.6	2.7	2.6	3.1	4.5	3.7	3.8	5.1	5	4.9	4.8	4.4	4.9	3.9	3.5	3.4	2.9	3	2.7	2.7	3.5
23	2.9	2.4	3.2	3.5	3.5	2.8	3.1	3.4	3.7	3.1	3.4	3.5	3.6	4.4	4.6	4.7	5.1	5	3.6	2.5	1.7	1.5	0.8	0.2	3.2
24	0.1	0.1	0	0.1	0.1	0	0.1	1.1	2	2	1.9	1.7	2.8	3.9	3.8	4	4.7	5.3	3.2	3.4	4.6	3.4	3.4	2.8	2.3
25	2.8	3	2.8	2.8	2.7	1.5	2.4	3.3	4.1	4.7	4.1	3.4	3.7	4.3	4.7	4.9	4.5	4.6	5.4	4.9	4.2	3.5	3.5	4	3.7
26	3.6	3.1	2.7	1.6	2.5	2.1	1.8	2.7	3.3	3	2.8	5	5.2	4.5	7.6	6.2	4.6	5.1	1.7	2.9	0.7	0.5	0.5	1	3.1
27	2.4	3	1.1	0.4	1.5	1.4	1.9	2.1	2.5	4.5	4.8	5	4.8	4.7	4.3	5	5.4	5.9	4.7	3.7	2.5	1.9	1.6	1.5	3.2
28	0.3	0.2	1.6	1.6	1.4	2.2	4	3.9	4.7	5.6	5.6	5.9	5.7	5.7	5.6	5.8	5.2	4.9	3.3	2.6	2.3	2.1	1.3	1.4	3.4
29	2	2.1	1.3	1.8	2.2	1.6	2.9	3.6	4.7	4.8	4.9	4.9	5	5	5.3	5.9	5.4	4	3.8	1.5	0.7	0.7	0.6	0.9	3.1
30	0.3	0.6	0.2	0.6	0.2	0.3	0.3	2.6	2.9	3.9	5.2	4.7	4.9	4.9	5.3	5.1	5.2	4.7	3.2	3.4	2.1	1.1	0	0.3	2.6
31	0	0.6	0.5	0.9	0.8	0.9	1.7	2.2	3.1	4.2	4.9	4.4	4	4	4.2	4	3.4	3.2	2.5	1.2	1.2	0.8	0.3	0.6	2.2
Avg	1.9	2.1	2.2	2.2	2	1.8	2.4	3.3	4	4.4	4.4	4.6	4.7	4.8	5.1	5.1	5.1	4.5	3.9	3.2	3.1	2.6	2.4	2.1	3.4
S D	1.6	1.7	1.6	1.6	1.4	1.4	1.5	1.3	1.2	1.4	1.2	1.1	1.1	0.9	1.2	0.9	1.2	1.1	1.5	1.2	2.2	1.4	1.8	1.6	0.8
S/A	0.82	0.78	0.73	0.72	0.72	0.73	0.62	0.41	0.31	0.32	0.28	0.24	0.23	0.18	0.22	0.18	0.23	0.24	0.4	0.37	0.73	0.53	0.76	0.78	0.24
Min	0	0	0	0	0	0	0	0.8	1.6	1.5	1.9	1.7	2.8	3.5	3.3	3.5	3.1	1.6	0.8	0.5	0	0.5	0	0	2.2
Max	6	6.8	7.2	5.6	5	5.3	5.6	6.1	6.6	6.3	6.4	6.5	7.4	7.7	7.6	7.1	8.2	6.6	8.8	6.3	11.9	6.3	8.2	6.1	5.3
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: 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

August 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	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013	
2	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016	1016	1016	1016	1015	1015	1016	1016	1016	1016	1016	1016	1016
3	1016	1016	1015	1015	1015	1016	1016	1016	1016	1017	1017	1016	1016	1016	1015	1015	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015
4	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013
5	1013	1013	1012	1012	1013	1013	1013	1013	1013	1014	1014	1013	1013	1013	1012	1011	1011	1011	1013	1012	1012	1013	1013	1013	1013	1013
6	1013	1012	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1011
7	1010	1010	1010	1010	1010	1011	1011	1011	1012	1012	1012	1012	1011	1011	1010	1010	1010	1009	1010	1010	1010	1010	1011	1011	1011	1011
8	1010	1010	1009	1009	1010	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1007	1007	1007	1007	1007	1008	1008	1009	1009	1009	1009
9	1009	1008	1008	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1009	1008	1008	1009	1008	1008	1008	1008	1008	1009	1009	1009	1009
10	1008	1008	1008	1007	1007	1007	1008	1008	1008	1008	1008	1007	1007	1006	1006	1007	1006	1006	1006	1006	1007	1007	1007	1007	1008	1007
11	1008	1009	1008	1009	1009	1010	1011	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1016	1016	1013
12	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1016
13	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1011	1011	1010	1010	1009	1009	1009	1009	1010	1010	1010	1010	1011
14	1010	1010	1010	1010	1010	1010	1011	1011	1012	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012
15	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014
16	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1015	1015	1015	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014
17	1014	1014	1014	1015	1014	1013	1012	1013	1013	1013	1014	1013	1012	1011	1011	1011	1011	1010	1010	1010	1011	1011	1012	1012	1012	1012
18	1012	1012	1013	1014	1015	1016	1017	1018	1018	1019	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1018
19	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020	1020	1019	1019	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1017	1019
20	1016	1016	1015	1015	1015	1016	1016	1016	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
21	1015	1014	1014	1014	1015	1015	1015	1016	1016	1017	1016	1016	1016	1015	1014	1014	1014	1014	1014	1014	1015	1017	1016	1015	1015	1015
22	1015	1015	1015	1015	1016	1016	1017	1017	1017	1018	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017
23	1018	1018	1017	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018
24	1017	1017	1017	1016	1016	1016	1017	1017	1017	1017	1017	1016	1016	1016	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015
25	1014	1014	1014	1013	1013	1013	1014	1013	1014	1014	1013	1013	1012	1012	1011	1011	1011	1010	1010	1011	1011	1011	1011	1012	1012	1012
26	1011	1011	1011	1011	1011	1012	1012	1012	1012	1013	1013	1013	1012	1011	1011	1012	1013	1013	1013	1013	1013	1013	1013	1014	1015	1012
27	1015	1014	1014	1014	1014	1015	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1016
28	1018	1017	1017	1017	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1018
29	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017	1017	1017	1016	1016	1016	1016	1015	1015	1015	1015	1015	1015	1017
30	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1012	1012	1011	1011	1011	1011	1011	1012	1011	1011	1013	1013
31	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1014	1014	1012	1012
Avg	1014	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014
S D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Min	1008	1008	1008	1007	1007	1007	1008	1008	1008	1008	1008	1007	1007	1006	1006	1007	1006	1006	1006	1006	1006	1007	1007	1007	1008	1007
Max	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1019	1019
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.

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

August 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	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	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	12.9	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
4	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.3	13.2	13.1	13	13	13	13	13	13	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.1	13.2	13.1	13.1	13	13	13	13	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
6	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.1	13.2	13.2	13.1	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	12.9
7	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
8	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
9	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.1	13	13	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
10	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.8	13.1	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	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	12.6	12.7	12.8	13.1	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
12	12.7	12.7	12.6	12.6	12.6	12.6	13	13.4	13.3	13.2	13.2	13.1	13.2	13.2	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
13	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.2	13.1	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	12.9
14	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
15	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	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	12.9
16	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
17	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13	13.1	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
18	12.7	12.7	12.7	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
19	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
20	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	13	13.1	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
21	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
22	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.3	13.2	13.2	13.2	13.1	13.2	13.2	13.2	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
23	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.3	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
24	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.2	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
25	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.1	13.2	13.1	13.1	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
26	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
27	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
28	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.9
29	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
30	12.6	12.6	12.6	12.6	12.6	12.5	13	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
31	12.6	12.6	12.6	12.6	12.6	12.5	13	13.4	13.3	13.2	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	12.9
Avg	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
S D	0	0	0	0	0	0	0.1	0.2	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.01	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0
Min	12.6	12.6	12.6	12.6	12.6	12.5	12.6	12.7	12.8	13	13	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
Max	12.7	12.7	12.7	12.6	12.6	12.6	13	13.4	13.3	13.2	13.2	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	12.7	12.9
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.