

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

September 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	9	82	255	432	479	637	628	673	805	651	534	348	132	22	0	0	0	0	0	5687
2	0	0	0	0	0	9	106	305	515	597	828	756	632	548	690	544	341	131	27	0	0	0	0	0	6030
3	0	0	0	0	0	9	101	290	492	546	865	949	926	660	701	439	323	122	18	0	0	0	0	0	6441
4	0	0	0	0	0	10	94	261	446	638	765	842	837	587	410	398	246	102	14	0	0	0	0	0	5651
5	0	0	0	0	0	10	91	272	468	639	766	838	827	771	638	467	282	99	12	0	0	0	0	0	6181
6	0	0	0	0	0	9	85	261	455	627	754	831	813	752	635	477	280	95	14	0	0	0	0	0	6087
7	0	0	0	0	0	8	87	267	462	629	764	828	816	761	645	486	293	100	11	0	0	0	0	0	6159
8	0	0	0	0	0	8	88	271	471	642	669	775	755	743	646	498	299	102	11	0	0	0	0	0	5977
9	0	0	0	0	0	5	54	82	398	569	378	805	685	396	497	120	119	47	9	0	0	0	0	0	4162
10	0	0	0	0	0	6	42	240	443	527	730	796	803	714	515	353	233	62	5	0	0	0	0	0	5469
11	0	0	0	0	0	8	88	194	450	617	734	798	807	747	569	419	236	70	4	0	0	0	0	0	5742
12	0	0	0	0	0	3	41	106	244	439	661	871	773	732	630	467	261	72	6	0	0	0	0	0	5306
13	0	0	0	0	0	6	79	264	469	641	769	839	837	755	564	473	200	56	10	0	0	0	0	0	5962
14	0	0	0	0	0	4	72	202	424	273	372	446	440	467	341	101	116	41	2	0	0	0	0	0	3302
15	0	0	0	0	0	3	47	133	424	554	364	331	701	527	398	208	133	34	4	0	0	0	0	0	3862
16	0	0	0	0	0	4	72	281	475	616	482	712	801	672	566	461	245	67	4	0	0	0	0	0	5457
17	0	0	0	0	0	4	78	266	462	585	559	376	402	621	423	301	224	69	4	0	0	0	0	0	4377
18	0	0	0	0	0	6	58	243	374	414	471	573	813	651	531	356	204	43	3	0	0	0	0	0	4741
19	0	0	0	0	0	1	10	45	119	191	270	198	256	242	226	134	84	27	2	0	0	0	0	0	1805
20	0	0	0	0	0	2	11	68	114	147	132	172	206	274	158	101	50	20	0	0	0	0	0	0	1456
21	0	0	0	0	0	2	12	109	151	333	471	676	505	424	390	297	113	25	0	0	0	0	0	0	3510
22	0	0	0	0	0	3	43	134	220	435	379	669	515	268	337	258	227	48	0	0	0	0	0	0	3536
23	0	0	0	0	0	4	51	178 ?	404	575	700	767	762	678	548	384	193	44	0	0	0	0	0	0	5288
24	0	0	0	0	0	4	62	208 ?	457	623	751	820	812	741	609	431	224	53	0	0	0	0	0	0	5794
25	0	0	0	0	0	4	57	256	450	634	708	724	671	670	602	424	217	50	0	0	0	0	0	0	5467
26	0	0	0	0	0	4	39	240	427	561	688	800	779	673	509	279	132	52	0	0	0	0	0	0	5181
27	0	0	0	0	0	0	23	63	112	164	209	393	298	141	171	368	169	23	0	0	0	0	0	0	2132
28	0	0	0	0	0	1	47	119	320	474	551	619	747	529	414	219	147	41	0	0	0	0	0	0	4228
29	0	0	0	0	0	1	60	251	445	612	627	715	795	721	587	402	199	43	0	0	0	0	0	0	5457
30	0	0	0	0	0	0	56	238	440	608	735	796	787	714	587	401	195	43	0	0	0	0	0	0	5600
Avg	0	0	0	0	0	5	61	203	385	513	593	678	683	599	506	360	211	64	6	0	0	0	0	0	4868
S D	0	0	0	0	0	3	27	78	122	150	195	204	191	181	149	130	76	32	7	0	0	0	0	0	1355
S/A	0	0	0	0	0	0.64	0.44	0.39	0.32	0.29	0.33	0.3	0.28	0.3	0.29	0.36	0.36	0.5	1.19	0	0	0	0	0	0.28
Min	0	0	0	0	0	0	10	45	112	147	132	172	206	141	158	101	50	20	0	0	0	0	0	0	1456
Max	0	0	0	0	0	10	106	305	515	642	865	949	926	805	701	544	348	132	27	0	0	0	0	0	6441
n	0	0	0	0	0	83	360	350	358	360	360	360	360	360	360	360	360	346	62	0	0	0	0	0	4439

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.3% exceed the 15% QC threshold -- 4451 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.

September 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	3	86	183	341	257	332	259	399	687	624	653	633	437	135	0	0	0	0	0	5028
2	0	0	0	0	0	87	458	690	783	601	754	473	304	316	747	767	612	224	157	0	0	0	0	0	6974
3	0	0	0	0	0	0	352	583	562	501	792	834	829	487	707	510	628	400	95	0	0	0	0	0	7279
4	0	0	0	0	0	11	187	370	489	633	656	715	684	415	268	383	310	218	35	0	0	0	0	0	5373
5	0	0	0	0	0	37	299	550	666	728	750	766	763	739	666	549	479	265	37	0	0	0	0	0	7294
6	0	0	0	0	0	30	238	462	576	641	674	691	682	642	623	574	445	227	41	0	0	0	0	0	6549
7	0	0	0	0	0	25	273	516	634	658	695	702	703	689	695	653	557	320	63	0	0	0	0	0	7181
8	0	0	0	0	0	16	279	542	667	711	572	555	523	649	699	711	620	363	63	0	0	0	0	0	6968
9	0	0	0	0	0	1	13	5	226	384	127	651	527	26	336	3	10	43	1	0	0	0	0	0	2352
10	0	0	0	0	0	0	0	258	450	236	604	650	632	557	361	234	295	81	0	0	0	0	0	0	4357
11	0	0	0	0	0	12	221	244	563	612	621	641	660	588	438	412	314	112	0	0	0	0	0	0	5438
12	0	0	0	0	0	0	0	0	5	204	439	561	549	607	691	585	491	163	0	0	0	0	0	0	4295
13	0	0	0	0	0	11	264	573	709	767	793	813	793	698	502	599	223	17	49	0	0	0	0	0	6811
14	0	0	0	0	0	1	155	249	429	57	10	25	10	57	33	0	12	6	0	0	0	0	0	0	1045
15	0	0	0	0	0	0	0	102	499	425	57	5	425	228	239	43	22	41	25	0	0	0	0	0	2112
16	0	0	0	0	0	25	360	702	775	673	267	460	599	440	447	574	408	279	63	0	0	0	0	0	6071
17	0	0	0	0	0	0	344	618	712	558	315	74	43	337	199	163	374	281	12	0	0	0	0	0	4031
18	0	0	0	0	0	0	67	436	443	144	113	161	579	411	303	188	213	45	0	0	0	0	0	0	3104
19	0	0	0	0	0	0	0	0	2	3	1	1	6	2	1	0	0	0	0	0	0	0	0	0	17
20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
21	0	0	0	0	0	0	0	4	2	25	21	149	19	16	29	147	41	8	0	0	0	0	0	0	461
22	0	0	0	0	0	1	12	20	11	291	133	417	255	64	242 ?	235	539	234	0	0	0	0	0	0	2454
23	0	0	0	0	0	0	155	446 ?	636	660	677	684	673	603	555	501	351	118	0	0	0	0	0	0	6060
24	0	0	0	0	0	0	132	654 ?	801	860	872	888	888	878	851	790	661	347	0	0	0	0	0	0	8623
25	0	0	0	0	0	0	183	652	776	776	699	702	631	754	835	767	623	256	0	0	0	0	0	0	7655
26	0	0	0	0	0	0	26	522	691	698	721	853	801	638	377	258	97	91	0	0	0	0	0	0	5774
27	0	0	0	0	0	0	0	0	1	3	3	47	5	0	1	478	398	58	0	0	0	0	0	0	993
28	0	0	0	0	0	0	68	57	131	269	297	358	511	325	335	129	237	196	0	0	0	0	0	0	2915
29	0	0	0	0	0	0	353	705	791	834	597	611	822	871	833	758	619	292	0	0	0	0	0	0	8085
30	0	0	0	0	0	0	276	642	783	832	857	840	865	865	846	759	582	244	0	0	0	0	0	0	8392
Avg	0	0	0	0	0	9	160	360	472	468	448	486	506	453	449	414	360	179	26	0	0	0	0	0	4790
S D	0	0	0	0	0	18	142	263	289	286	307	301	293	291	280	273	229	132	42	0	0	0	0	0	2662
S/A	0	0	0	0	0	2.08	0.89	0.73	0.61	0.61	0.68	0.62	0.58	0.64	0.62	0.66	0.64	0.74	1.63	0	0	0	0	0	0.56
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Max	0	0	0	0	0	87	458	705	801	860	872	888	888	878	851	790	661	437	157	0	0	0	0	0	8623
n	0	0	0	0	0	83	360	350	359	359	360	360	360	360	356	360	360	346	62	0	0	0	0	0	4435

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.4% exceed the 15% QC threshold -- 4451 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

September 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	11	70	191	240	288	349	377	299	196	163	136	86	41	12	0	0	0	0	0	2460
2	0	0	0	0	0	10	33	54	71	149	178	315	355	275	127	84	88	82	18	0	0	0	0	0	1838
3	0	0	0	0	0	10	40	77	160	171	182	177	160	233	168	120	71	44	13	0	0	0	0	0	1626
4	0	0	0	0	0	12	65	134	182	187	212	189	222	233	219	177	134	64	13	0	0	0	0	0	2044
5	0	0	0	0	0	10	45	82	102	116	131	137	134	140	151	154	101	52	11	0	0	0	0	0	1365
6	0	0	0	0	0	11 ?	49	101	141	170	190	205	205	212	185	152	114	57	13	0	0	0	0	0	1803
7	0	0	0	0	0	10 ?	47	92	116	159	184	193	191	180	143	116	86	45	10	0	0	0	0	0	1572
8	0	0	0	0	0	10 ?	45	85	108	130	175	258	273	188	129	92	67	38	9	0	0	0	0	0	1608
9	0	0	0	0	0	6 ?	52	76	264	310	273	191	194	378	258	120	116	43	8	0	0	0	0	0	2289
10	0	0	0	0	0	8 ?	42	136	193	346	228	214	238	246	260	232	125	50	5	0	0	0	0	0	2323
11	0	0	0	0	0	8	55	100	147	187	221	226	220	259	260	194	128	51	4	0	0	0	0	0	2061
12	0	0	0	0	0	3	41	106	242	282	285	359	252	219	143	139	90	44	6	0	0	0	0	0	2212
13	0	0	0	0	0	6	39	70	87	100	111	113	129	173	212	154	118	56	9	0	0	0	0	0	1377
14	0	0	0	0	0	4	47	114	195	237	371	429	439	420	323	101	115	40	2	0	0	0	0	0	2837
15	0	0	0	0	0	4 ?	47	90	151	261	326	330	329	336	241	188	126	31	4	0	0	0	0	0	2464
16	0	0	0	0	0	5 ?	26	49	60	137	256	304	261	290	251	153	98	31	3	0	0	0	0	0	1925
17	0	0	0	0	0	6 ?	32	61	82	182	290	310	362	342	278	217	105	31	4	0	0	0	0	0	2301
18	0	0	0	0	0	7 ?	45	88	129	313	374	423	286	294	310	249	139	35	3	0	0	0	0	0	2695
19	0	0	0	0	0	1	10	45	112	191	270	198	251	242	226	134	84	27	2	0	0	0	0	0	1793
20	0	0	0	0	0	2	11	68	114	147	130	172	206	274	158	101	50	20	0	0	0	0	0	0	1455
21	0	0	0	0	0	2 ?	12	108	151	320	465	530	494	415	375	222	95	25	0	0	0	0	0	0	3215
22	0	0	0	0	0	4 ?	42	131	217	227	264	314	286	217	212	152	70	22	0	0	0	0	0	0	2157
23	0	0	0	0	0	5 ?	35	78 ?	101	136	164	180	192	211	187	141	92	30	0	0	0	0	0	0	1553
24	0	0	0	0	0	4	31	52	52	53	62	61	63	60	55	52	41	16	0	0	0	0	0	0	602
25	0	0	0	0	0	?	27	52	57	124	167	119	121	85	64	58	47	22	0	0	0	0	0	0	943
26	0	0	0	0	0	?	32	80	95	98	130	85	110	179	262	151	110	46	0	0	0	0	0	0	1376
27	0	0	0	0	0	0	23	63	112	164	209	354	298	141	171	157	52	18	0	0	0	0	0	0	1761
28	0	0	0	0	0	?	39	107	255	302	326	313	323	274	196	162	87	21	0	0	0	0	0	0	2404
29	0	0	0	0	0	?	21	45	59	71	163	201	114	66	62	56	41	15	0	0	0	0	0	0	912
30	0	0	0	0	0	0	25	50	59	70	83	98	76	68	60	57	46	19	0	0	0	0	0	0	710
Avg	0	0	0	0	0	6	38	86	135	188	226	246	236	228	195	141	91	37	5	0	0	0	0	0	1856
S D	0	0	0	0	0	4	15	33	63	83	94	114	102	95	80	52	29	16	5	0	0	0	0	0	622
S/A	0	0	0	0	0	0.59	0.39	0.38	0.47	0.44	0.42	0.46	0.43	0.42	0.41	0.37	0.32	0.43	1.06	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	10	45	52	53	62	61	63	60	55	52	41	15	0	0	0	0	0	0	602
Max	0	0	0	0	0	12	70	191	264	346	465	530	494	420	375	249	139	82	18	0	0	0	0	0	3215
n	0	0	0	0	0	63	360	355	359	360	360	360	360	360	360	360	360	360	346	62	0	0	0	0	4425

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.6% exceed the 15% QC threshold -- 4451 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.

September 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	22.4	22.5	22.5	22.2	22.3	22	22.2	24	25.1	25.9	26.4	26.6	27.1	27.4	27.5	26.7	25.7	24.4	23.3	21.9	21.2	20.7	20.4	19.3	23.7
2	17.9	17.3	17.8	17.9	18	17.9	18.4	21.8	24.3	24.8	25.4	25.9	25.5	25	25.8	25.5	25	24	23.1	22.4	22	21.6	21	20.8	22
3	20.5	20.6	20	19.5	19.3	19.5	20.5	23	25.1	26.6	27.8	27.5	27.8	27.7	28	27.4	27.6	26.5	25.1	24	23.2	22.5	21.9	21.5	23.9
4	20.6	19.8	19.1	19	18.6	18.5	19.7	22.4	24.8	26.3	28.4	29.1	30.1	30.7	29.6	29.9	28.8	27.5	26.1	25.2	24	22.6	22.3	21.7	24.4
5	21.2	20.6	20.1	19.9	19.6	19.4	20	22.8	25.6	27.9	29.4	30.2	31.2	31.7	31.5	29.6	29.1	27.6	25.7	24.9	24.4	24.1	23.7	23.4	25.2
6	23.3	23	21.9	21.6	21.4	21.3	22.1	24.6	25.9	27.4	28.6	28.9	29.4	29.3	29.1	28.5	27.9	26.7	25.3	24.6	24.3	24.1	23.8	23.4	25.3
7	23.2	23	22.8	22.3	21.9	21.5	21.2	24.2	25.9	26.4	27.3	27.3	27.8	27.5	27.7	27.4	26.9	25.8	24.6	23.6	22.9	22.8	22.5	22.3	24.5
8	21.9	21.3	19.4	19.6	18.8	18.9	19.3	22.3	24.7	26.1	26.7	27.3	27.4	27.5	27.7	27.4	27	25.8	24.5	23.9	23.3	23.2	22.8	22.7	23.7
9	22.7	22.9	23.3	23.9	24.2	24.7	25.1	25.6	26.2	26.8	27	27.9	28.6	27.7	27.7	26	24.9	24.7	24.5	24	23.8	23.6	23.5	23.3	25.1
10	23.2	23.2	22.7	22	22.1	22.4	22.5	23.2	24.8	26.7	28.6	30.5	31.8	32.5	31.9	32.6	31.7	29.7	28.5	28.1	27.5	26.8	26.3	25.6	26.9
11	24.8	24.3	23.9	23.6	23.3	23.1	23.8	25	26.9	28.5	29.9	31	32.1	32.8	33.4	33.5	33.5	32.7	30.5	28.4	28.1	28.2	27.1	26.7	28.1
12	26.2	25.7	25	25	25	24	23.5	23.8	24.7	25.8	26.2	27.1	27.4	26.9	26.7	26.2	25.5	24.5	23.7	23.2	22.8	22.2	21.4	22	24.8
13	22.4	22.3	21.9	21.2	21	20.7	21.7	23.5	25.4	26.5	27	27.3	27.5	27.3	27.2	26.6	25.6	24.4	23.5	23	22.7	22.4	22.3	22	24
14	22.2	22.1	22	20.9	20.9	21.1	21.7	23	25.2	25.4	25.2	25.8	26.1	26.6	26.2	25.5	25.1	24.7	24.3	24.2	24.2	24.6	24.8	24	24
15	22.3	21.9	21.9	21.8	21.5	20.3	20	19.7	21.4	23	23	22	23.8	25.1	24.9	24.4	24.1	22.8	21.5	20.2	19.4	18.5	17.7	17.1	21.6
16	16.7	16.3	16.1	15.9	15.5	14.9	14.7	17	18.7	20.5	21.1	21.8	21.8	21.6	21.4	21.2	20.4	19.6	18.3	17.1	16.3	15.8	15.4	15.3	18.1
17	15	14.5	14.5	14.7	15	14.7	15.4	17.2	19.1	21.1	21.9	21.9	22	22.2	21.9	21.4	21.3	20.4	19.2	18.3	17.9	17.3	16.6	16.1	18.3
18	15.6	15.6	15.9	15.8	15.3	15	16.2	17.7	19.5	20.6	22	22.6	23	23.3	22.8	22.1	21.4	20.8	20.3	20.2	20.2	20.1	20.1	20.1	19.4
19	20.1	20.2	20.1	20.2	20.5	20.4	20.6	21	21.8	22.7	23	23.2	23.4	23.1	22.9	22.2	21.6	21.4	20.9	20.8	20.9	20.9	20.9	21	21.6
20	20.9	20.7	20.9	21.1	21	21.1	21.3	21.4	21.9	22.4	22.4	22.3	22.3	22.6	22.5	22.2	22.1	21.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7
21	21.7	21.8	21.7	21.8	21.8	21.7	21.7	22.1	22.6	23.6	24.9	26.5	27.2	26.9	27	26.9	26.2	24.9	23.8	23.1	22.7	22.3	22.2	22.2	23.6
22	22	21.6	21.6	21.7	21.7	21.7	21.9	22.8	24.2	25.6	26.8	28.5	29	27.7	27.3	25.1	26.2	26	24.8	24.2	23.9	23.5	23.2	23	24.3
23	22.8	22.5	22.3	22	21.7	21.4	21.4	23	26.1	27.5	29.3	30.1	29.7	28.6	27.3	26.5	25.7	24.1	22.6	21.8	21.2	20.7	19.8	19	24
24	18.4	17.2	16.4	16.2	15.8	16.2	16.5	17.9	21	23.8	25.8	27	27.4	27.6	27.4	26.6	25.3	23.6	21.7	20.9	20.2	19	18.2	17.4	21.2
25	16.9	16.6	16.6	17.2	16.9	17.4	17.9	20.1	23.1	24.3	26.1	26.6	26.9	27	27.1	26.9	26.2	24.9	23.7	22.8	22.1	21.5	21	20.7	22.1
26	20.5	20.3	20.1	19.8	19.8	19.4	20.3	22.2	24.2	25.4	26.9	28.1	29.1	29.1	28.6	27.9	27.6	27.4	26.1	25.1	24.6	24.4	24.1	23.7	24.4
27	23.5	23.4	23	22.7	23	23.2	23.3	23.5	23.8	24.4	25.3	26.3	26.8	24.6	22.8	24.1	24.9	24.2	23.4	22.9	22.6	22.3	22.4	22.5	23.7
28	22.2	22.1	21.9	21.7	21.3	21.1	21.2	21.8	22.6	24.4	25.7	26.4	27.8	27.5	27.9	27.4	26.9	26.1	24	22.5	20.9	21.2	20.9	19.6	23.5
29	18	17.1	16.4	15.4	16	16.4	15.9	17.4	18.9	20.2	21.3	21.8	22.3	22.9	23.1	22.6	22	20.9	19.4	18.5	18	16.7	15.6	15.1	18.8
30	15.1	14.9	14.9	14.7	14.6	14.5	14.6	17.8	20.8	22.4	23.3	23.6	23.9	23.9	24	23.3	22.7	21.5	20.2	19.6	19	18.5	18.3	18.1	19.3
Avg	20.8	20.5	20.2	20	19.9	19.8	20.2	21.7	23.5	24.8	25.8	26.4	26.9	26.8	26.6	26.1	25.7	24.7	23.5	22.7	22.2	21.8	21.4	21	23
S D	2.9	3	2.9	2.9	2.9	2.8	2.8	2.5	2.4	2.3	2.5	2.8	2.9	3	3	3	2.9	2.8	2.7	2.6	2.6	2.8	2.8	2.9	2.4
S/A	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.12	0.1	0.09	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.14	0.11
Min	15	14.5	14.5	14.7	14.6	14.5	14.6	17	18.7	20.2	21.1	21.8	21.8	21.6	21.4	21.2	20.4	19.6	18.3	17.1	16.3	15.8	15.4	15.1	18.1
Max	26.2	25.7	25	25	25	24.7	25.1	25.6	26.9	28.5	29.9	31	32.1	32.8	33.4	33.5	33.5	32.7	30.5	28.4	28.1	28.2	27.1	26.7	28.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: CSI 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.

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

September 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	102.4	102	100.9	101.7	101.6	101.9	101.1	96.1	94.2	90.5	84.9	81.7	72.3	67	66.5	71.7	78.6	80.1	76.7	80.7	88	93.2	96.3	99.8	88.7
2	103.6	104.9 ?	104.4	103.7	102.6	101.8	99.6	85.1	68	62.9	60.8	58.4	61.6	65.1	61.4	62.7	64.9	68	74.1	80	84.4	87.6	91.7	95	81.3
3	96.5	98.2	99.9	102.5	103.7	104	102.3	97.2	88.8	76.3	69.6	71.7	72.3	72.3	69.2	68.9	64.9	72.1	78.3	81.7	84.4	86.4	89.3	91.4	85.1
4	95.9	99.4	102.3	103.2	104.7 ?	?	102.8 ?	96.2	82.4	73.7	69	66	61.7	58.5	65.2	63.6	66.7	73.6	80	84.3	89	94.5	93.1	95.9	83.5
5	97.7	99.5	100.9	102.3	103.1	103.6	103.1	94.2	75.6	68.7	62.1	58	53.9	54	58.6	73.4	71.9	80.6	92	96.4	98.4	98.9	99.4	99.2	85.2
6	99	100	103.2	?	?	104.7 ?	103.5	98.6	93.5	84.5	71.9	69.4	69.4	69.6	67.2	65.5	63.5	74.3	84.6	90.3	96.5	99	100.6	100	86.8 ?
7	97.6	96.9	97	98	98.5	101.8	103.6	94.9	81.7	76.5	73.1	73.3	71.2	70	62.9	58.6	67.6	75.9	80.3	87.4	91.2	92.9	90.2	87.1	84.5
8	86.1	89.6	97.5	99.3	103	104.1 ?	103.1	91.8	78.5	71.8	70.7	71.1	70.7	71.1	71.5	71.7	75.2	84.1	92	97.5	99.9	101.1	103	103.9	87.8
9	103.9	104.5	104.8 ?	?	?	?	104.7 ?	104.2	102.1 ?	100.9	99.7	94.5	87.2	90.6	90.2	98.4	103.1	104.8 ?	105 ?	?	?	?	104.7 ?	104.5 ?	100.4 ?
10	?	?	?	?	?	?	?	?	103	96.4	86.3	77.6	68.5	66.7	72.2	61.7	65.5	81.2	88.3	89	94.2	90.1	86.1	89.3	82.3 ?
11	93.8	97.3	101.1	102.9	104.5	?	103.4	99.2	89.8	80	72.7	68.5	62.6	58.7	56.1	53.8	53	54.6	69.8	92.2	91.7	84.4	91	90.5	81.4
12	90.9	89.6	87.6	86.3	85.9	91.4	94.1	92.4	90.9	75.6	68.9	62.9	60.8	62.9	61.6	63.1	65.4	67.6	73.2	78.1	81.6	85.8	89.8	89.8	79
13	90.9	92.5	94.1	97	98.8	99.3	94.6	85.2	74.6	67.2	65.4	65.6	64	61.8	58.4	63.1	70.3	75.1	81.1	86.5	88	89.9	90.7	94.1	81.2
14	93.7	92.9	94.8	98.5	102.1	104.4	104.1	100.9	93.6	90.3	89.8	84.1	80.8	81.8	87.7	94.2	97.9	100.4	102.6	104.3	104.9 ?	104.9 ?	104.7	103.9	96.6
15	?	?	?	?	?	?	?	?	100.4	94.5	91.1	94.2	83.1	72.3	67.7	66.4	67.5	71.8	76	79.2	82.7	80.2	78.3	80.4	80.4 ?
16	81.2	83	84.3	83.5	84.2	85.9	84.9	77.7	76.6	73.4	67.7	61.9	62.5	64.2	65.6	66.3	67.3	70.9	77.1	81.3	85.1	87.4	89.2	90.3	77.1
17	91.8	91.9	90.6	91.1	89.7	91.3	90.1	86.4	83.3	80.4	82.2	82.2	80.8	79.3	79.3	79.1	78	80.9	84.1	86.5	88	89.6	94.3	97.8	86.2
18	99.7	100.1	97.5	96.2	96.4	98	96.4	91.1	88.4	88.8	84.8	81.9	80.2	78.4	80.2	82.7	85.6	89.7	93.6	95.5	96.3	97	97.2	98.3	91.4
19	99.7	101.4	102.8	104.3 ?	?	?	?	104.5	101.6	98.2	96.3	95.9	94.7	95.6	95.3	95.9	97.3	98.6	101.4	103.1	104.4 ?	104.2	102.6	101.2	99.9 ?
20	101.9	103.4	102.6	102.1	103	103.3	103.5	104.3	103.7	102.3	102.8	104.8 ?	105 ?	104.2	104.5 ?	?	?	?	?	?	?	?	?	?	103.4 ?
21	?	?	?	?	?	?	?	?	?	103.1 ?	101.2	95.2	81.9	85	89.2	89.8	92	99.2	103.5	?	?	?	?	?	94 ?
22	?	?	?	?	?	?	?	?	103.9 ?	100.4	96.6	88.6	86.1	91.5	91.4	98.2	92.9	94.6	101.9	104.6 ?	?	?	?	?	95.9 ?
23	?	?	?	?	?	?	?	?	101.3 ?	92.5	86.6	80.3	72.3	73.5	81.3	84.3	83.7	86	91.3	96.8	99.8	102.5	104.6 ?	?	89.1 ?
24	?	?	?	?	?	?	?	?	?	95.2 ?	80.8	59.8	49	47.3	50.1	54	62.6	68.8	78	91.2	96.4	99.8	103	?	74 ?
25	?	?	?	?	?	?	?	103.3 ?	98.5	92	78.3	75.2	73.8	74.6	73.1	73.6	75	83.2	93.7	96.2	98	100.1	102.6	104.6 ?	88 ?
26	?	?	?	?	?	?	?	?	100.1	92.2	79.3	66.7	66.7	71.3	79.6	85.7	89.1	87.9	93.9	98.8	101.2	102.2	103.9	104.9 ?	89 ?
27	?	?	?	?	?	?	?	?	?	?	103.3 ?	99.4	94.4	93.4	98.6	103.4 ?	102.1 ?	99	101.6	102.3	104.3	?	?	?	100.2 ?
28	104.9 ?	?	?	?	?	?	?	?	103.5	98.1	92.5	82.5	72.7	71.8	69.5	68.1	63.5	58.6	74.4	83.5	84.6	71.1	66	68.6	78.5 ?
29	74	77.7	80.7	87.5	85.1	82.8	86	75.7	73	72.8	69.5	66.3	63.5	57.8	61.6	67	69.7	74.9	81.5	88	94.4	98.8	101.7	102.3	78.9
30	101.8	100.6	99.6	99.9	100.8	101.6	101.4	91.9	79.7	68.4	63.7	62.8	60.6	61.2	59.7	63.1	65.8	73.1	82.8	86.3	88.3	92.7	95.2	96.7	83.2
Avg	95.6	96.3	97.3	97.8	98.1	98.7	99.1	94.2	89.9	85	79.7	75.9	72.7	72.9	73.6	74.3	76.1	80.9	87.3	90.8	92.7	93.6	94.2	95.4	87.1 ?
S D	7.8	7.2	6.8	6.5	7.2	7	6.3	8.2	10.9	12.4	13.4	13.7	12.7	13.5	14.1	13.7	13.3	12.7	10.7	8.5	7.2	8.5	9.1	8.6	7.7
S/A	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.09	0.12	0.15	0.17	0.18	0.17	0.19	0.19	0.18	0.18	0.16	0.12	0.09	0.08	0.09	0.1	0.09	0.09
Min	74	77.7	80.7	83.5	84.2	82.8	84.9	75.7	68	62.9	59.8	49	47.3	50.1	54	53.8	53	54.6	69.8	78.1	81.6	71.1	66	68.6	74
Max	104.9	104.9	104.8	104.3	104.7	104.7	104.7	104.5	103.9	103.3	102.8	104.8	105	104.2	104.5	102.1	103.1	104.8	105	104.6	104.9	104.9	104.7	104.9	103.4
n	246	228	233	208	198	177	217	245	318	351	360	356	353	360	347	345	348	345	338	316	291	288	280	269	7017

Data Recovery: 0.0% missing; 0.0% untested; 18.8% failed QC -- 8640 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 0.10 %/mV Calibration Date: 01/1999

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

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

Prepared by: Afshin M. Andreas, NREL

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

September 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	22.2	22.2	22.3	22.2	22	21.8	21.6	23	25.9	28.1	29.7	30.7	30.9	31.1	31.8	31.9	31.4	29.7	27	23.9	21.7	20.5	19.6	18.9	25.4
2	17.9	17	16.5	16.5	16.6	16.6	16.9	19.6	23.5	26.7	28.2	29.9	30.4	29.5	29.4	30.3	30.2	29	26.6	24	22.6	21.7	21.2	20.5	23.4
3	20.2	20	19.7	19.3	18.9	18.7	19	21.7	25.4	29.5	32.1	34.4	34.4	33.5	33.1	32.9	32.1	31.3	28.8	25.8	24	22.5	21.3	20.4	25.8
4	19.5	18.5	17.8	17.4	17.3	17.5	17.9	20.1	24.4	28.8	32.3	34.7	36.1	36.5	35.3	34.5	33.8	32.1	29.5	26.8	24.7	22.9	21.3	20.5	25.8
5	19.7	19.3	19	18.6	18.4	18.2	18.4	20.8	25.1	29.5	33.4	35.3	36.4	36.9	37.2	36.3	34.7	32.9	29.7	26.7	25.1	24.1	23.4	22.8	26.7
6	22.3	22	21.4	21	20.9	20.7	20.8	22.6	26.2	29.3	32.3	34	34.5	34.5	34.2	33.6	32.8	31.2	28.5	26	24.7	24	23.5	23	26.8
7	22.6	22.3	21.9	21.5	20.9	20.2	20.2	22.4	26.5	29.4	31.6	33.3	33.2	32.8	32.4	32.2	31.5	30.3	27.7	24.9	23	22	21.4	20.9	26
8	20.4	19.8	18.8	17.8	17.6	17.5	17.8	19.9	24	28.1	30.9	32.2	32.7	32.2	32.4	32.5	32.2	31	28.2	25.4	23.8	22.9	22.7	22.4	25.1
9	22.4	22.3	22.6	22.9	23.4	23.9	24.6	25.4	25.9	27.5	28.4	29	31	31.3	31.1	29.6	27.1	26	25.6	25.1	24.7	24.3	24.2	24	25.9
10	23.8	23.5	23.1	22.6	22.2	22.3	22.6	23.3	25.9	29.1	31.7	34.5	36.6	37.8	37.4	36.8	36.5	34.5	31.5	29.4	28.3	27.4	26.7	26.1	28.9
11	25.4	24.6	24	23.6	23.3	22.9	23	24.5	26.8	29.7	31.8	33.4	34.5	35.3	36.1	36.5	36.4	35.6	33.4	30.7	28.9	28.4	27.7	27.1	29.3
12	26.6	26.1	25.5	24.9	24.7	24.7	24.2	24.1	24.9	26.7	28.6	30.8	32.2	32.1	31.6	31.2	30.5	28.8	26.1	24	22.9	22.1	21.4	20.9	26.5
13	21.4	21.9	22	21.4	20.6	20.1	20.1	22.2	25.5	28.4	30.5	31.7	32	31.7	31.5	31.3	30.5	28	25.5	23.7	22.7	22.1	21.8	21.5	25.3
14	21.2	21.2	21.2	20.8	20.1	20.1	20.3	21.9	24.7	27.4	27.6	28.3	28.9	29.9	30	29.4	27.9	27.1	25.8	24.9	24.5	24.4	24.6	24.6	24.9
15	23.6	22.7	22.2	22.1	22	21.5	20.7	20.3	21.2	24.5	26.6	26.1	26.1	28	28.4	28	27	25.4	23.3	21.2	19.5	18.4	17.5	16.6	23
16	15.8	15.2	14.9	14.8	14.5	14	13.6	15.5	18.9	21.7	23.7	24.9	25.9	26.1	25.9	25.9	25.3	23.4	20.9	18.1	16.4	15.4	14.8	14.3	19.2
17	14.1	13.7	13.4	13.3	13.6	13.9	14.2	16.3	19.3	22.3	24.6	25.3	25.2	25.3	25.9	25.2	24.7	24	21.8	19.4	17.9	17.2	16.5	15.8	19.3
18	15	14.6	14.6	14.7	14.7	14.2	14.3	16.3	19.2	21.6	23.3	25	26.3	27.1	27.1	26.5	25.3	24.1	22.3	21.3	20.9	20.7	20.6	20.6	20.4
19	20.6	20.6	20.6	20.6	20.5	20.5	20.5	20.6	21	22.3	23.8	24.6	25.2	25.3	25.4	25.2	24.6	23.9	23	22.4	21.9	21.3	21.1	21.2	22.4
20	21.3	21	20.8	21	21.2	21.2	21.4	21.6	22.1	22.8	23.4	23.3	23	23.1	23.1	22.8	22.6	22.2	22	21.9	21.8	21.8	21.8	21.9	22
21	21.9	21.9	21.9	21.9	21.9	21.9	21.8	22	22.6	23.6	25.7	28.5	31.2	31.4	31	30.7	30.3	28.2	26.3	24.7	23.6	22.8	22.4	22.2	25
22	22	21.8	21.6	21.7	21.7	21.8	21.8	22.4	23.5	25.6	29.3	31.8	34.3	33.6	31.7	28.2	26.8	28.4	27.1	25.1	24.1	23.6	23.2	22.9	25.6
23	22.8	22.6	22.4	22.2	22	21.7	21.5	22.6	25.3	29.3	32.1	34.2	34.8	34.3	33.3	32.2	30.8	28.8	25.6	23.1	21.6	20.5	19.6	18.6	25.9
24	18.3	17.8	17.1	16.7	16.4	16.1	16.2	17.7	20.3	23.7	27.4	30.1	31.4	31.7	32	31.9	31	28.8	25	21.7	20	18.7	17.6	16.9	22.7
25	16.4	16.1	15.9	15.9	16.1	16.3	16.8	18.9	22.3	26.1	29.9	32.1	32.5	31.8	31.6	31.8	31.2	29.5	26.4	23.9	22.3	21.2	20.4	19.9	23.6
26	19.7	19.6	19.5	19.4	19.4	19.2	19.5	21	23.8	27.2	30.1	32.1	33.3	33.8	33.9	32.9	31.5	30.2	28.4	26.4	25.2	24.6	24.1	23.7	25.8
27	23.3	23.2	23	22.7	22.7	22.9	23	23.2	23.6	24.5	25.8	27.9	29.8	29.5	26.5	24.9	26.7	26.8	24.9	23.5	22.7	22.2	21.9	21.8	24.5
28	21.8	21.7	21.6	21.5	21.3	21.1	21	21.6	22.7	25.3	28	30	31.2	32.3	32.1	31.5	30.2	28.8	26.2	23.3	21	19.8	19.7	19.2	24.7
29	17.6	16.1	15.2	14.3	13.8	14.1	14.6	16.3	19.1	21.6	23.7	25	25.8	26.3	26.7	27	26.5	25	21.8	19.2	17.8	16.5	15.1	14.1	19.7
30	13.5	13.3	13.3	13.2	13.2	13.2	13.1	15.3	19.4	23	25.4	27.1	27.8	27.9	28.1	28	27.2	25.6	22.4	20	18.7	18	17.4	17	20
Avg	20.4	20.1	19.8	19.6	19.4	19.3	19.4	20.8	23.3	26.1	28.4	30	30.9	31.1	30.9	30.4	29.6	28.4	26	23.9	22.6	21.7	21.1	20.7	24.3
S D	3.2	3.3	3.3	3.3	3.3	3.3	3.2	2.7	2.5	2.8	3.2	3.6	3.8	3.7	3.6	3.6	3.5	3.3	3	2.8	2.8	2.9	3	3.2	2.7
S/A	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.13	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.15	0.11
Min	13.5	13.3	13.3	13.2	13.2	13.2	13.1	15.3	18.9	21.6	23.3	23.3	23	23.1	23.1	22.8	22.6	22.2	20.9	18.1	16.4	15.4	14.8	14.1	19.2
Max	26.6	26.1	25.5	24.9	24.7	24.7	24.6	25.4	26.8	29.7	33.4	35.3	36.6	37.8	37.4	36.8	36.5	35.6	33.4	30.7	28.9	28.4	27.7	27.1	29.3
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

September 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	0.1	0.2	0.4	0.2	0.5	0.2	0.6	1.2	3	2.9	3.7	3.6	3.8	3.9	3.4	3.8	3.8	3.7	2.8	2.4	2	0.9	0.3	0	2
2	0	0.1	0.3	0.7	0.7	0.7	0.2	1.2	3.1	3.9	4	3.4	3.7	3.5	3	3.2	3.2	2.6	1.3	0.6	0.5	0.3	0.2	0.4	1.7
3	0.8	0.5	0.8	0.5	0.5	0.3	0.2	1.1	0.9	0.7	1.2	2.5	2.6	2.9	3.2	3.3	2.9	3.1	2.2	2	1.2	0.2	0.1	0.1	1.4
4	0	0	0	0	0	0	0	0.2	0.4	0.7	1	0.6	1.3	1.1	1.7	2	3.1	2.9	2	0.5	0.2	0	0	0	0.7
5	0	0.1	0	0	0	0	0	0.4	1.2	0.5	1.4	1.4	1.3	1.6	2.7	3.6	3.3	2.9	2.3	2.2	1.5	1.2	0.4	0.3	1.2
6	0.3	0	0	0.1	0	0.3	0	0.5	1.9	1.7	2.3	2.7	2.7	3.1	3.8	4	3.2	3	2.9	2.7	2.1	1.8	0.4	1.1	1.7
7	1.1	0.4	0.5	0	0	0	0	0.1	1.7	2.3	1.5	2.8	2.9	3.3	3.4	3.9	3.1	3	2.1	1	0.8	0.9	0.4	1	1.5
8	0.3	0.2	0	0	0.2	0	0.1	0.4	1.2	1.4	1.5	2.4	3	3.1	3	3.3	3	2.9	2.5	1.5	1	1.3	1.2	1.4	1.5
9	1.2	1.4	1.6	2.2	1.9	2.6	3.2	3.4	3.9	3.3	3.7	5.3	5.7	5	5.6	3.2	3	3.1	2.9	2.6	2	2.2	2.4	2.5	3.1
10	2.6	1.9	1.7	1.8	1.6	1.6	0.9	1.1	1.6	1.8	1.8	1.4	1.3	2.2	3.1	2.2	3.1	2.8	1.9	2.4	2.4	2.4	3	3.1	2.1
11	2.4	2.2	2.2	2	1.6	1.7	2.2	3	4.3	5	5.6	6	5.9	6.2	5.6	5.3	4.2	3	2.8	3	2.8	1.1	1.2	1.2	3.4
12	0.7	0.9	0.9	0.8	1.3	1.1	1.3	1.5	1.8	3.7	3.7	3.3	3.3	4	4.2	3.9	3.9	3.2	2.1	1.6	1.4	0.5	0.4	0.4	2.1
13	0.2	0.3	0.5	0.9	0.5	0.7	0.8	1.5	3	3.4	3.7	3.8	4.2	4.2	4	3.9	3.5	3	2.2	2.1	2.3	2.2	2.2	1.8	2.3
14	2	1.7	1.3	0.5	0.8	1	0.9	1.5	3.3	3.7	4	3.9	3.4	3	3.2	2.2	2.2	1.7	0.5	0.4	0.9	2	2.9	4.4	2.1
15	2.9	3	3.5	2.7	2.4	1.4	1.3	1.1	1.6	2.6	4	3.5	2.7	2.9	3	2.3	2.3	2.3	2	1.9	1.8	2.6	2.2	1.5	2.4
16	1.4	1.7	2.2	2.1	1.6	0.8	0.8	2.4	2.9	3.3	3.4	3.6	3.7	4.1	3.5	3.7	3.6	2.5	1.7	1.4	1.4	1.6	1.4	1.8	2.4
17	1.2	0.6	0.7	1.7	2.4	2.1	2.6	2.9	3	3.8	3.8	4.2	4.6	4.8	4.3	3.8	3.9	3.6	2.4	1.9	1.6	1.1	0.7	0.2	2.6
18	0.6	0.8	1.8	1	1.1	1.6	2.4	3.6	3.7	4.2	3.8	4.6	5.1	4.5	5.1	5.1	4.9	4.4	4.2	3.7	3.1	3.2	3.6	3.1	3.3
19	2.6	2.2	2.2	2.3	3.1	2.2	2.5	2.4	2.4	4	5.1	4.1	4.6	4.2	4.8	4	4.4	3.3	2.5	2.4	2.4	2.2	2.3	2.3	3.1
20	2.3	2	2.3	2.5	2.3	2.1	2.3	2.2	2.9	3.1	3.2	2	2	2.8	2.3	2.3	2.7	2.2	1.6	0.8	0.9	0.7	0.7	1.4	2.1
21	1.7	1.3	1.9	1.9	1.4	1	0.1	1.5	1.7	2.1	2.7	1.6	3.5	3.2	2.9	2.6	2.7	1.9	2	1.7	1	1.2	0.6	0.4	1.8
22	0.1	0.1	0.2	0.2	0.2	0	0	0.5	0.8	0.8	1	0.8	1.4	2.5	2.6	2.7	1.8	1	1	0.3	0.6	0.8	0.6	0.5	0.9
23	0.5	0.2	0.4	0.3	0.3	0.1	0.1	0.8	1	2.2	2.6	3.5	4	3.9	3.7	3.5	2.8	2.3	1.8	1.4	1.3	0.9	0.2	0.2	1.6
24	0	0.1	0	0	0.1	0.1	0.2	0.3	1.8	1.9	2.7	2.8	2.8	2.9	2.9	3	3.1	2.9	2	1.2	0.4	0	0	0	1.3
25	0	0	0	0	0.1	0	0	0	0.6	1.4	1	2	2.4	3.1	2.8	3.1	3.1	2.8	2.2	1.6	1.3	0.9	0.6	0.6	1.2
26	0.6	0.2	0	0	0.1	0	0.4	0.8	1.4	1.7	1.9	2.6	2.7	3.1	3.7	3.4	2.4	2.6	2.1	1.9	1.9	1.1	0.7	0.4	1.5
27	0.8	0.6	0	0	0.7	0	0	0.2	0.4	0.8	0.7	1	1.5	3.8	1.6	1.7	1.7	1.1	0.4	0.8	0.4	0.5	0.7	1.4	0.9
28	1.8	2.2	1.8	2	1.3	1.4	1.8	2.3	2.6	2.4	2.3	3.3	3	3.2	2.5	3.4	3.4	2.4	1.1	0.5	0.6	2.6	2.3	1.3	2.1
29	0.8	1	0.9	1	1.2	2.2	2	3	4	4	3.9	4.7	4.3	4.1	3.7	3.5	3	2.3	1.3	1.4	0.7	0.1	0.1	0.2	2.2
30	0.3	0.5	0.7	1.1	1	0.7	0.9	1.6	2.7	4.8	4.2	4.6	4.1	4	3.6	4.3	3.7	2.5	1.4	1.3	1.3	1	0.9	1.1	2.2

Avg	1	0.9	1	0.9	1	0.9	0.9	1.4	2.2	2.6	2.8	3.1	3.3	3.5	3.4	3.3	3.2	2.7	2	1.6	1.4	1.2	1.1	1.1	1.9
S D	0.9	0.9	0.9	0.9	0.9	0.8	1	1.1	1.1	1.3	1.3	1.3	1.3	1	1	0.8	0.7	0.7	0.8	0.8	0.8	0.8	1	1.1	0.7
S/A	0.93	0.99	0.99	0.97	0.88	0.96	1.06	0.73	0.52	0.5	0.46	0.44	0.39	0.29	0.29	0.25	0.22	0.26	0.38	0.5	0.55	0.68	0.94	0.95	0.36
Min	0	0	0	0	0	0	0	0	0.4	0.5	0.7	0.6	1.3	1.1	1.6	1.7	1.7	1	0.4	0.3	0.2	0	0	0	0.7
Max	2.9	3	3.5	2.7	3.1	2.6	3.2	3.6	4.3	5	5.6	6	5.9	6.2	5.6	5.3	4.9	4.4	4.2	3.7	3.1	3.2	3.6	4.4	3.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: 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

September 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	359	1	19	20	25	25	33	43	67	59	70	88	90	87	88	100	95	93	88	90	89	92	94	7	82
2	345	11	35	36	46	39	29	89	99	99	108	107	101	96	107	108	110	109	102	94	87	79	51	66	99
3	66	69	59	58	58	53	69	77	70	182	115	169	156	152	140	180	189	177	180	180	199	213	213	213	157
4	357	0	0	0	0	350	0	2	299	301	24	284	158	243	184	187	176	149	157	184	209	218	0	0	178
5	0	307	347	0	314	348	8	5	360	12	111	102	108	116	134	156	133	134	138	139	157	157	183	164	132
6	145	149	101	53	61	102	104	127	151	137	129	150	135	152	156	143	144	144	148	152	155	155	160	186	147
7	187	187	180	159	0	0	4	89	138	140	148	154	144	167	164	161	163	160	177	164	159	165	178	190	160
8	207	209	0	21	33	50	37	57	80	122	116	143	147	141	142	138	134	120	123	118	91	89	79	79	124
9	68	76	88	87	83	80	95	95	117	118	133	141	150	149	149	117	81	65	44	23	14	349	329	324	102
10	324	329	325	306	302	309	320	332	311	326	322	333	282	137	171	247	186	177	181	210	230	242	250	260	260
11	256	253	265	264	259	258	257	262	271	268	268	274	269	268	267	268	266	265	235	237	286	274	257	282	265
12	287	314	293	317	341	348	7	26	52	88	104	111	120	141	143	138	138	136	130	128	124	99	105	122	115
13	110	83	98	64	73	98	97	112	120	120	125	131	138	149	141	140	140	129	127	133	131	129	124	124	129
14	129	129	119	97	108	112	112	122	130	122	124	130	130	135	132	135	128	127	127	161	216	226	240	265	140
15	261	266	278	293	308	312	333	343	351	355	26	26	50	65	77	72	58	54	67	83	66	50	53	48	21
16	55	48	53	54	50	39	21	47	49	64	78	80	80	82	83	101	99	82	77	61	48	46	48	50	69
17	47	21	22	45	55	54	54	49	50	70	80	95	100	103	95	90	87	89	86	74	64	42	28	30	76
18	24	29	45	33	21	31	45	52	63	66	81	89	86	86	86	86	86	82	83	81	68	71	77	69	74
19	59	52	49	61	73	69	76	75	83	98	97	97	102	95	95	99	96	97	94	80	73	68	74	78	85
20	91	84	84	86	87	61	79	83	85	92	87	94	102	99	86	89	97	100	95	87	73	81	71	56	87
21	62	75	79	91	98	108	122	114	119	122	123	108	162	145	138	136	128	128	117	120	117	137	144	125	121
22	117	85	87	111	104	113	79	157	187	176	105	345	166	177	176	149	167	179	182	212	237	258	265	284	174
23	282	293	295	286	299	310	352	358	10	49	84	87	103	103	102	94	100	104	103	96	94	102	89	63	90
24	4	350	8	352	17	45	28	32	49	71	77	89	105	107	105	115	108	113	117	113	102	66	91	0	98
25	352	347	3	69	33	68	75	35	107	156	174	143	149	134	143	169	177	173	175	199	218	226	221	217	166
26	221	231	230	216	212	217	213	216	237	269	229	229	235	219	169	154	154	188	201	197	194	203	188	187	201
27	175	185	315	152	154	143	0	207	259	257	198	195	146	152	188	153	157	149	198	196	214	226	235	252	180
28	262	268	258	279	261	264	274	301	318	337	14	43	27	47	44	35	36	35	48	43	16	33	36	27	3
29	356	3	345	359	359	16	17	26	34	42	42	45	63	64	82	96	90	86	93	89	60	32	16	11	52
30	30	25	23	19	24	24	29	59	97	105	102	97	105	98	110	111	108	99	91	103	97	97	96	98	95
Avg	33	10	25	29	40	37	44	56	75	87	95	105	117	122	126	126	122	119	121	123	111	95	79	37	105
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

September 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	0.5	0.6	1.3	0.7	1.5	0.9	2	3.1	5.3	5.2	6.5	6.5	6.6	6.8	5.8	6.8	6.9	6.4	4.8	4.5	3.9	2.3	1.2	0.3	3.8
2	0.1	0.7	1.1	1.3	1.7	1.7	1.1	2.7	5.4	6.8	7.2	6.2	6.4	6	5.4	5.6	5.5	4.9	2.9	1.6	1.5	1.3	0.8	1.3	3.3
3	1.8	1.4	1.8	1.6	1.8	1.5	0.8	2.7	2.3	1.9	2.9	4.3	4.8	5.1	5.4	5.3	4.8	5	3.3	3.2	2.2	1	0.6	0.3	2.7
4	0	0	0	0	0	0.2	0	0.9	1.3	1.7	2.6	2.1	3	2.6	3.3	3.7	4.5	4.7	3.3	1.3	0.7	0	0	0	1.5
5	0	0.3	0.1	0	0.2	0.2	0.1	1.5	2.6	1.8	2.8	2.8	3.1	3.3	4.5	5.7	5.5	4.9	4.3	4.3	2.8	2.4	1.3	1.2	2.3
6	1.3	0.2	0	0.5	0.3	0.7	0.3	1.5	3.4	3.3	3.8	4.4	4.6	5.1	6.1	6.1	5.5	5	4.8	4.3	3.6	3.3	1.5	2.4	3
7	2.5	1.4	1.4	0.2	0	0	0.1	0.4	2.9	4	3.2	4.9	5.3	5.7	5.9	6.2	5.1	4.8	3.4	2.1	1.9	2	1	2	2.8
8	1.1	0.7	0	0.2	0.5	0.1	0.7	1.2	2.1	3	3.1	4.6	5.4	5.1	5.3	5.3	5.3	4.8	4.5	3.2	2.2	2.8	2.5	2.7	2.8
9	2.6	3.3	3.4	4.1	3.9	5	6.3	6.2	6.8	5.9	6.6	8.4	9.5	8.6	9.5	5.5	5.2	5.1	5.2	5.3	4.6	4.5	4.6	4.8	5.6
10	4.9	3.8	3.3	3.2	3.1	3.3	2.7	2.8	3.4	3.7	3.5	2.9	3.1	3.9	4.9	3.9	4.8	4.6	3.3	4.3	4.6	4.3	5.6	5.3	3.9
11	4.2	3.8	3.6	3.4	3	3.4	4	5.6	7.2	8.4	9.3	9.8	9.7	9.9	9.3	8.9	7.5	5.4	5.2	5.5	5.2	2	2.3	2.1	5.8
12	1.3	1.7	1.8	1.6	2.9	2.6	3	3.4	3.7	6.6	6.2	5.4	5.6	6.4	6.8	6.5	6.4	5.7	3.8	3.3	2.8	1.5	1.2	1.3	3.8
13	0.9	1.2	1.6	2	1.3	1.7	1.9	3.1	5.3	6.2	6.4	6.6	6.9	7.1	6.4	6.4	5.7	5.3	4.3	4.2	4.6	4	3.9	3.3	4.2
14	3.8	3.2	2.5	1.3	1.9	2.2	2.3	3	5.8	6.4	6.7	6.7	5.6	5.6	5.4	4	4	3.3	1.7	1.5	2.4	4.1	5.8	7.7	4
15	5.3	5.7	5.9	4.9	4.6	3.3	3.1	3	4	5	7.5	6.7	4.9	5.3	5.7	4.3	4.2	4.2	4	3.7	3.3	4.7	4	3.1	4.6
16	2.9	3.1	4.2	4	3.3	2.4	2.4	4.5	5.5	6.2	6	6.3	6.7	7.2	6.7	6.4	6.3	4.7	3.5	3	3	2.9	2.9	3.6	4.5
17	2.7	2.1	2.1	3.4	4.6	4.1	4.9	5.6	5.9	6.9	7.3	7.6	8.2	9	7.7	7.3	7.3	6.3	4.7	3.9	3.5	2.8	2.1	1.2	5
18	2.1	2.5	3.3	2.4	2.6	3	4.8	6.3	6.7	7.3	7	8.2	9.1	8.3	8.6	8.7	9	8.5	7.8	7	5.9	5.7	7	5.7	6.1
19	4.9	4.1	4	4.3	5.8	4.6	5	4.5	5.1	7.5	9.1	7.3	7.8	7.3	8.3	7	7.2	5.9	4.5	4.4	4.5	4.4	4.4	4.3	5.7
20	4.4	3.8	4.4	4.8	4.1	3.9	4.1	4.4	5.3	5.5	5.6	3.9	4.2	5.3	4.2	4.5	4.9	4.2	3.1	2.3	2.5	2	1.9	3	4
21	3.4	3	3.9	4	3.2	2.7	0.5	3	3.1	4	5	3.3	5.6	5.2	4.4	4.3	4.3	3.4	3.4	2.9	2.1	2.5	1.4	1.3	3.3
22	0.8	0.5	0.7	1	1	0.2	0.2	1.4	1.7	2.1	1.9	2.2	2.7	3.9	4.2	4.4	3.1	2.1	1.9	0.8	1.7	1.7	1.5	1.3	1.8
23	1.1	0.8	1.4	1.2	1.2	0.5	0.7	2.2	2.6	3.6	4.6	6.1	6.6	6.4	6.3	6	4.8	4.2	3.1	2.6	2.3	1.6	0.5	0.5	3
24	0	0.4	0.2	0.2	0.7	0.8	0.9	1.4	3.4	3.6	4.6	5	4.7	4.9	5.2	5.1	5	4.8	3.4	2.3	1	0.1	0	0	2.4
25	0.1	0	0.3	0.1	0.4	0.1	0.1	0.3	1.9	2.7	2.6	3.8	4.5	5.1	4.7	5	4.8	4.6	3.4	2.7	2.4	2.1	1.5	1.5	2.3
26	1.5	1.2	0.4	0.1	0.3	0.1	1.2	2.2	2.8	3.4	3.6	4.4	5	5.9	5.9	5.3	3.9	4.3	3.3	3.3	3.1	2.2	1.5	0.8	2.7
27	1.6	1.3	0.1	0.1	1.5	0.2	0	0.8	1.3	1.7	1.8	2.3	2.7	6.1	2.6	3.1	3	2	1.1	1.8	1.6	1.7	2.3	3	1.8
28	3.1	3.7	3.1	3.1	2.3	2.3	2.9	4	4.6	4.9	4.9	5.8	5.6	5.8	4.9	6	6.5	4.7	2.3	1.4	1.3	4.4	4.1	2.5	3.9
29	1.6	2.1	2	2.2	2.9	4.2	3.9	5.9	7	7	7.4	8	7.3	7.2	6.6	6.2	5.4	4.6	2.7	2.9	1.8	0.6	0.8	0.8	4.2
30	0.9	1.4	1.5	2	2	1.7	2.2	3.1	4.8	8	7.5	7.9	7	7	6.2	7.2	6.4	4.6	3	2.7	2.6	2.1	1.9	1.9	4

Avg	2	1.9	2	1.9	2.1	1.9	2.1	3	4.1	4.8	5.2	5.5	5.7	6	5.9	5.7	5.4	4.8	3.7	3.2	2.8	2.6	2.3	2.3	3.6
S D	1.6	1.5	1.6	1.6	1.5	1.6	1.8	1.7	1.8	2.1	2.1	1.9	1.9	1.6	1.6	1.4	1.3	1.2	1.3	1.4	1.3	1.4	1.8	1.8	1.2
S/A	0.78	0.77	0.81	0.84	0.74	0.81	0.86	0.58	0.43	0.43	0.41	0.38	0.34	0.27	0.28	0.24	0.24	0.25	0.35	0.43	0.45	0.55	0.77	0.8	0.34
Min	0	0	0	0	0	0	0	0.3	1.3	1.7	1.8	2.1	2.7	2.6	2.6	3.1	3	2	1.1	0.8	0.7	0	0	0	1.5
Max	5.3	5.7	5.9	4.9	5.8	5	6.3	6.3	7.2	8.4	9.3	9.8	9.7	9.9	9.5	8.9	9	8.5	7.8	7	5.9	5.7	7	7.7	6.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: 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

September 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	1014	1014	1014	1014	1014	1015	1015	1016	1016	1017	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1020	1020	1020	1017	
2	1020	1020	1020	1020	1020	1020	1021	1022	1022	1023	1023	1023	1023	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1021
3	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1019	1019	1018	1018	1017	1016	1016	1016	1015	1016	1016	1016	1015	1015	1018	
4	1015	1015	1015	1014	1014	1015	1015	1015	1015	1015	1016	1015	1015	1014	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	
5	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1017	1017	1017	1018	1018	1019	1019	1019	1017	
6	1019	1019	1019	1020	1020	1021	1021	1022	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1022	1022	
7	1022	1022	1021	1021	1022	1022	1022	1022	1023	1023	1023	1022	1022	1021	1020	1020	1019	1019	1019	1019	1020	1020	1020	1019	1021	
8	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1015	1015	1017	
9	1015	1014	1014	1013	1013	1013	1013	1013	1012	1012	1011	1011	1011	1010	1009	1009	1009	1008	1009	1009	1010	1010	1010	1011	1011	
10	1011	1011	1011	1012	1012	1013	1014	1014	1015	1015	1015	1015	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	
11	1012	1012	1011	1011	1011	1010	1010	1010	1010	1010	1009	1009	1008	1007	1007	1006	1007	1007	1006	1007	1008	1009	1009	1010	1009	
12	1010	1010	1010	1010	1011	1011	1012	1013	1013	1014	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1014	
13	1017	1017	1017	1017	1017	1018	1018	1019	1019	1020	1020	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	
14	1018	1017	1017	1017	1017	1017	1017	1018	1017	1017	1017	1016	1015	1014	1013	1013	1012	1011	1011	1011	1011	1010	1010	1010	1015	
15	1009	1009	1009	1009	1010	1011	1012	1012	1013	1014	1014	1014	1014	1014	1014	1015	1015	1016	1017	1017	1018	1019	1019	1019	1014	
16	1019	1019	1019	1019	1019	1020	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	
17	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	
18	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1021	1021	1022	
19	1021	1020	1019	1019	1020	1020	1020	1020	1020	1021	1021	1021	1021	1020	1020	1019	1019	1019	1020	1020	1019	1019	1019	1019	1020	
20	1019	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1017	1018	1017	1017	1017	1017	1017	1017	1018	
21	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	
22	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	
23	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1020	1020	1019	1019	1019	1018	1018	1019	1019	1019	1020	1020	1020	1020	1019	
24	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	
25	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1021	1021	1021	1020	1019	1019	1019	1018	1018	1019	1019	1019	1019	1019	1020	
26	1019	1018	1018	1018	1018	1018	1018	1018	1018	1019	1018	1018	1017	1016	1016	1015	1015	1015	1015	1015	1016	1016	1016	1015	1017	
27	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1012	
28	1010	1010	1010	1009	1009	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1013	1014	1015	1015	1017	1018	1012	
29	1018	1019	1019	1019	1020	1020	1021	1022	1023	1024	1024	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1026	1026	1023	
30	1026	1026	1026	1026	1026	1027	1027	1028	1028	1028	1029	1029	1028	1028	1027	1028	1028	1028	1027	1027	1027	1027	1027	1027	1027	
Avg	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	
SD	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4		
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		
Min	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1009	1009	1008	1007	1007	1006	1007	1007	1006	1007	1008	1009	1009	1010	1009	
Max	1026	1026	1026	1026	1026	1027	1027	1028	1028	1028	1029	1029	1028	1028	1027	1028	1028	1028	1027	1027	1027	1027	1027	1027	1027	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640		

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

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

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

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

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

September 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	12.7	12.6	12.6	12.6	12.6	12.8	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
2	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	13.2	13.2	13	12.7	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	13.3	13.2	13.1	13.1	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	12.9
4	12.6	12.6	12.6	12.6	12.6	12.5	12.9	13.3	13.3	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
5	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.3	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	12.8
6	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.1	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	12.6	12.6	12.6	12.6	12.6	12.7	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
8	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.4	13.3	13.2	13.1	13.1	13.1	13.2	13.1	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
9	12.7	12.7	12.6	12.6	12.6	12.6	12.7	12.8	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
10	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.2	13.2	13.1	13	13	13	13	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
11	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.2	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
12	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.2	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	12.8
13	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13.2	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
14	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.2	13.3	13.2	13.2	13.2	13.2	13	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
15	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.3	13.3	13.3	13.3	13.2	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
16	12.6	12.6	12.6	12.6	12.6	12.5	13.1	13.5	13.4	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	12.7	13
17	12.6	12.6	12.6	12.6	12.5	12.5	13.1	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.4	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
18	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.4	12.8	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	12.6	12.8	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
20	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13	13	13.2	13.4	13.3	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
21	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13	13.3	13.2	13.2	13.1	13.2	13.2	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
22	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.2	13.2	13.1	13.1	13.1	13.3	13.2	12.8	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	12.9	13.3	13.2	13.2	13.1	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
24	12.6	12.6	12.6	12.6	12.6	12.5	12.9	13.5	13.4	13.3	13.2	13.2	13.1	13.2	13.1	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.9
25	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	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
26	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.4	13.3	13.2	13.1	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	12.9
27	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13.2	13.2	13.1	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
28	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.1	13.3	13.3	13.2	13.2	13.1	13.1	13.1	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
29	12.6	12.6	12.6	12.6	12.6	12.5	13	13.5	13.4	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	12.9
30	12.6	12.6	12.6	12.6	12.5	12.5	13	13.5	13.4	13.3	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	12.9
Avg	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.2	13.2	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	12.9
S D	0	0	0	0	0	0	0.2	0.3	0.2	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	0.01	0.01	0.01	0.01	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	12.5	12.5	12.6	12.6	12.8	13.1	13	13	13	13	13	13	12.8	12.8	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	13.1	13.5	13.4	13.4	13.3	13.3	13.3	13.4	13.3	13.4	13.4	13	12.8	12.7	12.7	12.7	12.7	12.7	13
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: CSI Serial Number: Battery Calibration Factor: N/A Calibration Date: 06/1995

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

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