

November 2009

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	5	29	64	94	117	265	141	70 ?	39 ?	38	13	2	0	0	0	0	0	0	877 ?
2	0	0	0	0	0	0	11	22	67	123	84	107	144	95	82	74	21	2	0	0	0	0	0	0	833
3	0	0	0	0	0	0	22	90	251	433	581	629	614	533	397	216	55	0	0	0	0	0	0	0	3822
4	0	0	0	0	0	0	19	122	300	444	584	627	620	530	397	220	50	0	0	0	0	0	0	0	3914
5	0	0	0	0	0	0	19	108	297	433	561	618	606	420	417	180	54	0	0	0	0	0	0	0	3712
6	0	0	0	0	0	0	15	118	298	449	577	630	617	534	406	227	55	0	0	0	0	0	0	0	3925
7	0	0	0	0	0	0	26	108	299	429	551	583	539	532	392	212	53	0	0	0	0	0	0	0	3723
8	0	0	0	0	0	0	18	110	270	416	543	593	583	507	372	197	42	0	0	0	0	0	0	0	3650
9	0	0	0	0	0	0	14	87	323	451	528	583	569	487	355	143	40	0	0	0	0	0	0	0	3580
10	0	0	0	0	0	0	10	64	157	342	322	280	176	116	99	56	15	0	0	0	0	0	0	0	1637
11	0	0	0	0	0	0	1	7 ?	33 ?	?	44 ?	52 ?	?	51 ?	?	?	4	0	0	0	0	0	0	0	192 ?
12	0	0	0	0	0	0	0	2 ?	?	?	44 ?	47 ?	?	?	?	25 ?	18	0	0	0	0	0	0	0	136 ?
13	0	0	0	0	0	0	3	15	42	83	70	64	45 ?	63	57	39	12	0	0	0	0	0	0	0	493
14	0	0	0	0	0	0	4	21	63	136	188	139	123	138	106	51	12	0	0	0	0	0	0	0	982
15	0	0	0	0	0	0	2	25	181	376	505	478	550	454	306	166	27	0	0	0	0	0	0	0	3070
16	0	0	0	0	0	0	11	78	236	392	501	555	546	474	347	177	38	0	0	0	0	0	0	0	3354
17	0	0	0	0	0	0	16	73	216	392	491	495	475	341	171	78	17	0	0	0	0	0	0	0	2764
18	0	0	0	0	0	0	1	14	78	224	346	281	146	109	69	35	14	0	0	0	0	0	0	0	1318
19	0	0	0	0	0	0	0	7	106	135	185	180	228	285	353	82	24	0	0	0	0	0	0	0	1586
20	0	0	0	0	0	0	1	8	29	78	273	399	503	226	306	106	30	0	0	0	0	0	0	0	1960
21	0	0	0	0	0	0	5	74	210	379	399	406	375	385	303	120	26	0	0	0	0	0	0	0	2682
22	0	0	0	0	0	0	5	41	144	339	399	313	359	297	242	94	12	0	0	0	0	0	0	0	2245
23	0	0	0	0	0	0	3	23	130	206	180	109	187	317	148	55	10	0	0	0	0	0	0	0	1367
24	0	0	0	0	0	0	1	9	36	69	110	101	128	83	86	31	11	0	0	0	0	0	0	0	664
25	0	0	0	0	0	0	2	16	88	115	86	137	160	102	70	23	10	0	0	0	0	0	0	0	809
26	0	0	0	0	0	0	1	28	139 ?	369 ?	405	506	502	443	331	161	21	0	0	0	0	0	0	0	2906
27	0	0	0	0	0	0	3	49	185	369	485	539	537	469	343	118	55	0	0	0	0	0	0	0	3151
28	0	0	0	0	0	0	4	60	219	377	489	545	539	468	342	173	40	0	0	0	0	0	0	0	3256
29	0	0	0	0	0	0	1	36	171	348	417	470	466	435	331	164	30	0	0	0	0	0	0	0	2869
30	0	0	0	0	0	0	4	52	136	333	456	487	404	291	120	31	6	0	0	0	0	0	0	0	2320

Avg	0	0	0	0	0	0	8	50	164	298	351	374	389	319	250	114	27	0	0	0	0	0	0	0	2260
S D	0	0	0	0	0	0	7	38	94	137	190	208	196	175	133	69	17	0	0	0	0	0	0	0	1253
S/A	0	0	0	0	0	0	0.98	0.77	0.57	0.46	0.54	0.56	0.5	0.55	0.53	0.61	0.62	3.81	0	0	0	0	0	0	0.55
Min	0	0	0	0	0	0	0	2	29	69	44	47	45	51	39	23	4	0	0	0	0	0	0	0	136
Max	0	0	0	0	0	0	26	122	323	451	584	630	620	534	417	227	55	2	0	0	0	0	0	0	3925
n	0	0	0	0	0	0	111	352	331	331	340	344	332	339	328	343	317	2	0	0	0	0	0	0	3475

Daylight Data Recovery: 0.0% missing; 0.0% untested; 5.3% exceed the 15% QC threshold -- 3670 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 μV/W/m² Calibration Date: 07/2007

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

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

November 2009

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily		
1	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*
3	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
4	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
13	0	0	0	0	0	0	*	*	*	*	*	*	?	?	?	*	*	*	0	0	0	0	0	0	0	0	*
14	0	0	0	0	0	0	*	*	?	?	?	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
27	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
28	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	*
SD	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	0	0
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	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A
n	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	0	0

Daylight Data Recovery: 98.0% missing; 0.0% untested; 2.0% exceed the 15% QC threshold -- 3670 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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

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

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

November 2009

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	5	29	64	94	117	259	141	60 ?	34 ?	38	13	2	0	0	0	0	0	0	856
2	0	0	0	0	0	0	11	22	67	123	84	107	144	95	82	74	21	2	0	0	0	0	0	0	833
3	0	0	0	0	0	0	16	75	88	90	63	65	59	56	52	41	20	0	0	0	0	0	0	0	626
4	0	0	0	0	0	0	14	46	67	104	142	82	93	80	69	54	22	0	0	0	0	0	0	0	774
5	0	0	0	0	0	0	14	44	66	76	81	80	81	131	147	71	24	0	0	0	0	0	0	0	815
6	0	0	0	0	0	0	10	38	58	69	71	71	76	62	52	40	17	0	0	0	0	0	0	0	564
7	0	0	0	0	0	0	11	35	55	88	80	143	156	77	58	45	20	0	0	0	0	0	0	0	767
8	0	0	0	0	0	0	12	38	58	69	72	70	69	68	61	43	15	0	0	0	0	0	0	0	575
9	0	0	0	0	0	0	12	39	65	66	70	84	88	101	86	91	40	0	0	0	0	0	0	0	741
10	0	0	0	0	0	0	12	64	142	253	271	234	176	116	99	56	15	0	0	0	0	0	0	0	1438
11	0	0	0	0	0	0	1	8	21	25	31 ?	44	32	45	25 ?	14	4	0	0	0	0	0	0	0	250 ?
12	0	0	0	0	0	0	0	2 ?	?	23 ?	32 ?	35 ?	40 ?	?	20 ?	21	18	0	0	0	0	0	0	0	192 ?
13	0	0	0	0	0	0	3	15	42	83	70	64	43	63	57	39	12	0	0	0	0	0	0	0	491
14	0	0	0	0	0	0	5 ?	21	63	136	188	139	123	138	106	51	12	0	0	0	0	0	0	0	982
15	0	0	0	0	0	0	3 ?	25	136	145	120	175	95	87	87	46	11	0	0	0	0	0	0	0	929
16	0	0	0	0	0	0	8 ?	32	54	67	86	95	93	83	69	53	20	0	0	0	0	0	0	0	660
17	0	0	0	0	0	0	18 ?	57	115	122	166	150	157	235	170	77	17	0	0	0	0	0	0	0	1283
18	0	0	0	0	0	0	1	14	68	118	204	237	146	109	69	35	14	0	0	0	0	0	0	0	1015
19	0	0	0	0	0	0	0	7	97	135	185	179	218	241	156	81	23	0	0	0	0	0	0	0	1324
20	0	0	0	0	0	0	2 ?	8	28	78	272	319	198	219	125	92	28	0	0	0	0	0	0	0	1368
21	0	0	0	0	0	0	7 ?	51	96	168	233	248	272	286	194	102	25	0	0	0	0	0	0	0	1681
22	0	0	0	0	0	0	5	40	104	189	145	250	224	192	164	90	12	0	0	0	0	0	0	0	1415
23	0	0	0	0	0	0	3	23	126	197	180	109	187	295	148	55	10	0	0	0	0	0	0	0	1332
24	0	0	0	0	0	0	1	9	36	69	110	101	128	83	86	31	11	0	0	0	0	0	0	0	664
25	0	0	0	0	0	0	2 ?	16	88	115	86	137	160	102	70	23	10	0	0	0	0	0	0	0	809
26	0	0	0	0	0	0	2 ?	28	51	117	159	121	94	64	53	39	15	0	0	0	0	0	0	0	742
27	0	0	0	0	0	0	3	41	67	72	67	77	69	157	108	46	35 ?	0	0	0	0	0	0	0	743
28	0	0	0	0	0	0	?	21	43	52	56	57	58	55	49	36	15	0	0	0	0	0	0	0	442
29	0	0	0	0	0	0	1	20	48	69	71	178	108	63	44	33	12	0	0	0	0	0	0	0	647
30	0	0	0	0	0	0	?	40	80	70	61	96	247	224	120	31	6	0	0	0	0	0	0	0	976
Avg	0	0	0	0	0	0	7	30	72	103	119	133	126	124	89	52	17	0	0	0	0	0	0	0	864
S D	0	0	0	0	0	0	5	18	31	51	67	75	64	74	46	23	8	0	0	0	0	0	0	0	361
S/A	0	0	0	0	0	0	0.84	0.58	0.43	0.49	0.56	0.56	0.51	0.6	0.52	0.45	0.46	3.82	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	2	21	23	31	35	32	45	20	14	4	0	0	0	0	0	0	0	192
Max	0	0	0	0	0	0	18	75	142	253	272	319	272	295	194	102	40	2	0	0	0	0	0	0	1681
n	0	0	0	0	0	0	92	356	345	349	352	356	350	344	345	360	315	2	0	0	0	0	0	0	3567

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.8% exceed the 15% QC threshold -- 3670 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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

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

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

November 2009

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	20.9	20.7	20.6	20.4	18.2	14.1	13.6	13.7	14.3	15	15.5	16	16	15.7	14.2	13.4	13.1	13.6	13.9	14	13.7	12.6	12.5	13.5	15.4	
2	13.6	13.2	13.2	13.4	13	12.3	12.2	12.5	12.9	13.3	13.4	13.7	14.1	14.3	14.1	14.1	14.1	13.8	13.2	12.8	13	12.7	12.6	12.7	13.3	
3	12.8	12.7	12.7	12.5	11.8	11	10.5	10.4	12.2	14.3	15.7	17.1	18.4	19.5	20	20.1	17.3	14.9	14.1	13.4	12.9	12.6	11.9	11.7	14.2	
4	11.3	11.2	11.4	11.1	10.7	10.1	9.8	10.5	11.9	13.8	14.8	15.6	16	16.7	16.6	16.2	15.6	14	13.1	13.1	12.6	12.5	12.1	11.6	13	
5	11.2	11.1	12	12.2	10.8	9.7	9	9.9	12.5	14.1	15.4	16.7	17.2	17.5	17.8	17.1	16.4	14.6	13.3	11.9	11.5	10.9	10.2	8	13	
6	6.8	6.6	6.6	7.5	7	6.4	5.8	7.2	9.6	10.6	11.5	12.2	12.8	13.3	13.3	13.2	12.3	10.4	8.8	8.1	7.7	7.1	6.6	5.9	9.1	
7	4.6	4	3.3	4	4.5	3.6	2.2	4.4	9.8	11.7	12.9	13.9	14.6	15.3	16	15.7	14.3	12.8	12	11.4	10.9	10.6	10.7	10.9	9.7	
8	11.3	11.3	11.1	11	11	10.6	10.5	11.3	13.4	15.8	17.7	19.4	20.6	21	21.8	22.2	21	17.7	15.7	15.1	13.6	12.8	12.2	11.9	15	
9	11.5	11.7	11.6	10.8	10.7	10	9.2	10.9	14.9	18.6	20.3	21	21.6	21.8	22.8	22.5	20.8	19	18.5	18	17.5	17.3	16.7	16.1	16.4	
10	15.8	15.4	14.8	14.8	15	15.3	15.3	15.5	17.1	20	21.3	22.1	21.7	21.1	20.7	20.1	19.3	18.5	17.5	16.8	16.5	16.8	16.9	16.8	17.7	
11	16.7	16.1	15.8	15.3	15	15.3	14.8	14.3	14	14	14.2	14.6	14.9	14.9	14.7	14.7	14.8	14.8	14.8	14.8	14.7	14.8	14.7	14.7	14.9	
12	14.6	14.5	14.5	14.6	14.7	14.7	14.6	14.6	14.7	14.6	14.5	14.9	14.7	14.8	14.7	14.4	15.2	15.1	15.4	15.2	15.2	15.4	16.1	16.2	14.9	
13	16.4	15.9	15.7	15.8	15.1	14.4	13	12.5	12.4	13.1	13.4	13.7	13.4	13	12.9	13	13.1	13.1	13.1	13.1	13.2	13.1	13.1	12.9	13.7	
14	13	13.1	13.1	12.9	12.7	12.8	13.1	13.2	13.3	13.4	13.9	14.2	14.1	14.1	14.4	14.4	14.1	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.7	13.6
15	13.5	13.5	13.4	13.2	13	12.9	12.9	12.9	12.9	13.6	15.4	17.1	18.2	19.4	19.9	20.3	20.3	19.4	17.4	15.6	14.5	14.6	14.3	14	13.3	15.5
16	12.8	12.6	12.3	11.9	11.7	11.2	10.9	11.7	14.6	16.9	18.8	20.1	20.6	20.6	20.5	20	18.5	16.3	14.9	14	13.4	13.2	13	12.5	15.1	
17	12	11.8	11.7	11.4	11.2	10.8	10.4	10.6	11.7	13.7	15.2	15.9	16.3	16.2	15.3	15	14.6	14.3	14.2	14	13.9	13.7	13.6	13.6	13.4	
18	13.7	13.9	14.2	14.5	14.7	14.8	15.3	15.7	16.1	17	17.6	18.3	17.8	17.5	17.1	17.1	17	16.7	16.6	16.8	17.1	17	17	16.9	16.3	
19	16.7	16.8	17	17	16.9	17.5	17.6	17.7	17.9	18.5	19.3	19.9	20.6	21	21.8	21	20.6	19.6	18.6	18	17.9	18.1	18.1	17.8	18.6	
20	17.8	17.4	17.6	18.1	18	17.6	17.6	17.4	16.3	14.4	14.9	15.6	16.3	16.1	16.2	15.9	15	13.8	13.1	12.5	12	11.7	11.1	10.6	15.3	
21	9.9	9.4	9.3	9.2	9.1	9.1	9	9.4	10.9	12.6	13.6	13.8	14.1	14.6	14.4	13.4	12.6	11.8	11.2	10.5	9.5	9	8.5	8	10.9	
22	7.4	7	6.9	7	7.2	7	7.1	7.2	8.7	11.3	13.3	14.2	14.5	14.9	14.7	13.7	13.2	12.9	12.9	13.3	13.3	13.2	13.2	13.3	11.1	
23	13.3	13.1	12.7	13.1	13.3	13.6	13.9	14.3	14.8	15.7	16.7	17.2	16.8	17.1	17.3	17	16.4	15.8	15.5	15.5	15.5	15.5	15.4	15.4	15.2	
24	15.1	14.8	14.4	13.8	13.3	12.8	11.9	11.2	10.9	10.8	11	11.4	11.7	12	12.3	12.2	12.1	11.9	11.9	12	12	12.1	12.1	12	12.3	
25	12	12.1	12.2	12.2	12.1	12	11.9	11.9	12.1	12.4	12.3	12.4	13	13.4	13.4	13.3	13	12.7	12.5	12.2	12.1	11.9	11.6	11.3	12.3	
26	11.2	11	10.8	10.5	10.5	10.5	10.2	10.1	10.7	12.6	13.7	15.4	16.4	17	17.5	17.3	15.5	13.7	12.4	11.8	11.4	11.6	12.3	12.3	12.8	
27	11.2	10.5	9.2	7.7	6.5	5	4.8	5	5.8	7.4	8.7	10.1	11.2	11.9	11.6	11	10.7	9.3	8.3	7.1	6.3	5.5	4.6	3.8	8	
28	3.2	3.1	2.7	2.2	2.4	1.7	1.4	1.8	3.4	5.8	8.1	9.8	11	12.1	12.5	12.8	11.9	10.3	9.5	9.1	8.9	8.4	8.4	8.4	7	
29	8.2	7.4	7.4	7	7.2	7.3	7.1	7.1	8.4	11.4	13.8	15.5	16.2	16.7	17.5	18.4	17.6	16	15	14.4	14.4	14.6	14.3	13.7	12.4	
30	13.2	12.7	12.2	12.2	12.1	11.8	11.4	12	13	14.4	16.9	18.5	19.4	20	19.5	18.9	18.3	17.3	16.1	14.4	10.8	9	8.5	7.9	14.2	
Avg	12.4	12.1	12	11.9	11.6	11.2	10.9	11.2	12.4	13.8	14.8	15.7	16.2	16.5	16.5	16.3	15.6	14.5	13.9	13.4	13	12.7	12.5	12.3	13.5	
S D	3.8	3.8	3.9	3.9	3.8	3.8	4	3.7	3.2	3	3	3.1	3.1	3	3.2	3.2	2.9	2.6	2.5	2.6	2.7	3	3.1	3.3	2.7	
S/A	0.31	0.32	0.33	0.33	0.32	0.34	0.36	0.33	0.26	0.22	0.2	0.2	0.19	0.18	0.19	0.2	0.18	0.18	0.18	0.19	0.21	0.23	0.25	0.27	0.2	
Min	3.2	3.1	2.7	2.2	2.4	1.7	1.4	1.8	3.4	5.8	8.1	9.8	11	11.9	11.6	11	10.7	9.3	8.3	7.1	6.3	5.5	4.6	3.8	7	
Max	20.9	20.7	20.6	20.4	18.2	17.6	17.6	17.7	17.9	20	21.3	22.1	21.7	21.8	22.8	22.5	21	19.6	18.6	18	17.9	18.1	18.1	17.8	18.6	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

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

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 1.00 deg C/mV Calibration Date: 03/1988

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

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

Prepared by: Afshin M. Andreas, NREL

November 2009

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	?	?	?	?	?	?	?	?	104.8 ?	103.3	102.4	99.6	98.2	97.9	103.4 ?	?	?	?	?	104.7 ?	?	?	?	?	101.8 ?
2	?	?	104.3 ?	102.6	103.3 ?	?	104.7 ?	103.2	101.1	101.8	103.8	103.6	102.5	101.8	101.9	101	99.3	100.6	103.4	105 ?	?	?	?	?	102.6 ?
3	104.9 ?	104.9 ?	?	?	?	?	?	?	?	95.8	82.6	77	65.3	59.2	58.1	59.2	82	93.8	96.2	99.1	101.9	102.9	104.6 ?	?	86.7 ?
4	?	103.7 ?	93.5	88.4	85.2	84.6	84	79.7	75.8	71.4	66.5	63.8	63.5	64.5	63.4	69	74.7	85.8	91.1	94.8	98.3	100.4	103.7	104.4	83.1
5	104.7 ?	103.9 ?	102	102.1	103.7 ?	?	?	?	99.6 ?	91	77.3	64.5	60.3	59.1	55.2	56.3	58.1	66.4	72.1	79.5	77.3	76.3	76	87.6	79.7 ?
6	92.9	90.6	86.8	76.4	80.2	85.2	90	82.9	70.7	67.2	63.2	61.4	57.7	53	50.6	49.1	51.6	62.7	75	79.1	82.3	87.8	92.7	96.4	74.4
7	101.8	104.5 ?	?	?	?	?	?	?	93	80.3	69.5	58.4	50.6	49.9	48.5	52.8	67	78.7	78.5	78.4	83.8	89.6	94.1	97.9	76.5 ?
8	99.1	100.9	103.4	104.7 ?	?	?	?	103.8 ?	99.2	86.2	76.1	69.9	66.6	66.6	63.4	59.7	64.5	84.4	93.2	96.1	101.6	104.8 ?	?	?	86.5 ?
9	?	?	?	?	?	?	?	?	102.4 ?	92.7	82.6	76.6	70.6	66.3	63.8	65.6	74	78.4	78.8	87.1	95.4	98.5	100.8	102.3	83.5 ?
10	103 ?	?	?	?	?	?	?	104.7 ?	101.7	91.9	88	85	85.9	85.7	89.4	91.7	96.2	100	104.4 ?	?	?	?	?	?	94.4 ?
11	?	?	?	?	?	?	?	?	?	?	?	?	?	104.8 ?	104.9 ?	?	104.5 ?	104.2	103.8	104	104.4	104.3	104.2	104.3	104.3 ?
12	104.1	104	104.1	104	104	104.2	104.2	104.1	103.9	104	104.6	104.7	104.1	104	102.7	102.9	102.9	101.6	100.8	98.3	101.9	101.4	100.7	102.3	103.1
13	99.7	101.9	103.3	103.5	103.6	104.1	104.1	104.3	103.9	103.6	103.1	101.8	101.7	102.4	102.4	102.4	102.4	102.8	102.8	103.1	103.4	103.5	103.3	103	102.9
14	103	103.3	103.5	103.5	103.6	102.8	101.7	102	102.5	102.3	100.5	99	100.1	101.3	100.8	101.3	102.9	103.6	103.5	102.8	102.1	101.1	100.7	101.2	102.1
15	101.4	102	102.6	103.1	103.5	103.7	103.8	103.9	101.6	97.9	94.1	89.8	84	81.8	80.6	79.6	83.1	91.3	98.6	102.9	102.6	102.9	104.1	?	96.5
16	?	?	?	?	?	?	?	104 ?	97.8	91.8	85.8	79.2	76.1	75.9	76.1	78.5	83.5	94.2	99.1	102.6	104.8 ?	?	?	?	89.2 ?
17	?	?	?	?	?	?	?	?	100.9 ?	92.5	85.3	84.9	87.1	95.5	98.7	100.5	101.3	101.3	101.4	101.9	103	103.3	103.7	103.1	97.4 ?
18	104.8 ?	?	104.8 ?	104.7	104.2	104	103.1	102.1	101.8	100.3	99.4	98.2	99.6	101.6	104.1 ?	103.3	103.1	104	104.7	104.5	104	104.4	104.7	104.8 ?	103.1 ?
19	?	?	?	104.7 ?	104.5	102.4	101.8	102.2	102.4	102.6	102.4	99.5	97	95.6	93.6	94.8	97.1	100.8	104.1	?	?	?	?	?	100.3 ?
20	?	?	?	?	?	?	?	?	?	101.5 ?	97.2	86.2	75.5	74.7	72.6	76.4	81	86.6	89.8	90.3	93.4	95.4	96.9	100.2	87.8 ?
21	102.4	103.3	102.9	102.2	101.2	99.4	99.2	98	92.6	86	77.9	69.8	67.7	66.7	67.6	69.4	73.2	79.2	82.5	87	92.2	94.8	97.2	99.8	88
22	102.8	104.7	?	104.5 ?	104.2	104.9 ?	?	?	?	102.8	97.2	90.1	89.4	82.2	85.8	94.3	98.1	100.8	102.7	101.7	102.1	103	103.3	104.1	98.9 ?
23	104.8 ?	?	?	?	?	?	?	?	?	?	?	104.5	104.5	103.2	103.3	104.3	?	?	?	?	?	?	?	?	104.1 ?
24	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
25	?	?	?	?	?	?	?	?	?	?	?	103	99.3	97.8	98	99.2	101.2	102.4	102.6	103.6	103.9	103.8	104.6	?	101.6 ?
26	?	?	?	?	?	?	?	?	?	104.1 ?	101.6	94.4	88.2	84.6	80.5	79	90.5	99.3	103.2	104.7 ?	?	?	?	103.9 ?	94.5 ?
27	102.5	102.8	101.5	98	100.9	?	?	104.2 ?	101.4	94	83.9	74.4	67.8	61.3	59.9	62.7	59.9	58.8	61	68.7	72	73.4	75.8	78	80.1 ?
28	79.7	79.2	83.2	87.6	86.6	91.5	93.6	91	84.2	74.1	65	60.4	57	54.3	54	54	59.2	67.4	71.5	74.3	75.5	77.6	75.1	70.3	73.6
29	71.2	78	78.3	80.6	82	85.6	88.9	90.6	87.1	75.2	68.8	67.7	69	67.4	63.6	61.3	64.9	72.2	79.1	82.8	82.8	86.3	92.7	97.8	78.1
30	100.4	101.3	100.8	96.8	95.5	96.5	96.6	91.2	85.6	79.1	67.4	61.3	65	67.5	69.9	71.8	70.4	74.9	83.1	95.3	102 ?	104.8 ?	?	102.3	86.1

Avg	99.1	99.3	98.3	98.1	97.9	97.6	98.1	98.4	95.9	92.4	86.7	83.2	80.4	79.9	79.8	79.2	83.2	88.7	92.1	93.9	95.6	96.4	96.9	98.1	91.8 ?
S D	9.2	8.7	8.6	9.1	8.9	8	6.9	8.1	9.8	11.5	14.1	16	17.1	18.2	19.4	18.9	17.1	14.5	13	11.1	10.6	10.1	10	9.4	10.2
S/A	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.08	0.1	0.12	0.16	0.19	0.21	0.23	0.24	0.24	0.21	0.16	0.14	0.12	0.11	0.1	0.1	0.1	0.11
Min	71.2	78	78.3	76.4	80.2	84.6	84	79.7	70.7	67.2	63.2	58.4	50.6	49.9	48.5	49.1	51.6	58.8	61	68.7	72	73.4	75.1	70.3	73.6
Max	104.9	104.9	104.8	104.7	104.5	104.9	104.7	104.7	104.8	104.1	104.6	104.7	104.5	104.8	104.9	104.3	104.5	104.2	104.7	105	104.8	104.8	104.7	104.8	104.3
n	177	162	165	181	181	147	147	171	238	294	312	334	336	339	330	322	321	324	317	285	266	245	234	213	6046

Data Recovery: 0.0% missing; 0.0% untested; 30.0% failed QC -- 8640 total measurements.

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

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

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

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

November 2009

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	20.8	20.6	20.5	20.4	20.3	17.7	15.4	14.4	14.3	14.7	15.6	16.6	17.9	17.7	16.3	14.8	14	13.6	13.7	13.9	14	13.6	13	13.1	16.1
2	13.5	13.5	13.3	13.2	13.2	13	12.6	12.5	12.8	13.5	14.3	14.6	15.1	15.6	15.6	15.5	15.3	14.9	14.4	13.9	13.5	13.4	13.1	13	13.9
3	13	13	12.9	12.8	12	10.9	10.1	10.4	12.6	16.8	20.7	23.6	25.7	26.6	26.8	26.5	24.9	19.8	15.5	13.2	11.8	11.1	10.6	9.9	16.3
4	9.6	9.9	9.8	9.5	9.4	9.1	8.8	9.5	12.7	16.5	19.6	22	23.1	23.3	23	22.1	20.5	17.1	14.1	12.7	11.9	11.3	11.2	11.2	14.5
5	11	10.4	11	11.4	10.5	9.2	8.3	8.9	12.7	16.9	20.8	23.6	24.5	24.1	23.2	22.3	20.6	17.3	14.2	12.1	10.7	10	9.3	8	14.6
6	6.5	5.5	4.8	4.9	5.3	5	4.4	5.2	9.5	13.4	16.1	17.9	19	19	18.6	18.2	17	13.5	9.8	7.5	6.2	5.3	4.4	3.4	10
7	2.5	1.8	1.4	1	1.3	1.6	1.1	2.3	8.2	14.2	17.9	20.3	20.7	20.7	20.6	20.5	19.1	15.6	12.5	11	10	9.2	8.8	9.2	10.5
8	9.5	9.9	9.9	9.9	10	10	9.8	10.4	13.7	18.2	22	25.4	27.5	27.9	27.3	27.3	26.4	22	17.2	14.6	13.1	11.8	11.3	11.1	16.5
9	10.6	10.2	10.2	9.9	9.5	9.2	8.5	9.2	14.1	20.1	25.8	28.7	29.4	28.7	28.1	27.4	25.1	21.7	19.5	18.5	17.7	17.2	16.5	15.7	18
10	15.4	14.9	14.7	14.4	14.3	14.3	14.4	14.7	16.1	19.8	23.6	25.6	25.6	24.4	23.3	22.4	21.2	19.9	18.8	17.6	17	16.9	17	17.1	18.5
11	17.1	16.9	16.4	16	15.6	15.4	15.4	15.1	14.6	14.4	14.3	14.5	14.9	15.1	15.1	14.9	14.9	14.9	14.8	14.8	14.8	14.8	14.8	14.8	15.2
12	14.7	14.6	14.5	14.5	14.6	14.7	14.7	14.7	14.7	14.7	14.7	14.8	15	14.9	14.9	14.7	14.7	15	15.1	15.1	15	15.2	15.3	15.7	14.9
13	15.9	16	15.9	15.9	15.8	15.3	14.6	13.6	13	13	13.4	13.7	13.8	13.7	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.3	13.3	13.2	14
14	13.1	13.2	13.3	13.3	13.1	13	12.9	13.1	13.4	13.8	14.5	15.4	15.6	15.5	15.4	15.5	15.1	14.6	14.3	14.2	14.1	14	14.1	14.1	14.1
15	14	13.9	13.9	13.8	13.6	13.5	13.4	13.3	13.8	16.9	21	23.4	24.4	25.3	25.1	24.6	23.4	19.8	16.1	14	13.2	13	12.9	12.6	17
16	12.3	11.9	11.5	11.1	10.8	10.4	10.1	10.5	13.7	18.4	22.5	25.1	26.6	26.7	26.4	25.5	23.7	19.6	16.2	14.1	12.8	12.4	12.3	12.1	16.5
17	11.9	11.7	11.7	11.7	11.5	11.2	10.5	10.4	12	15.3	18.6	20.4	21.2	21.3	19.7	17.8	16.5	15.5	14.7	14.4	13.9	13.6	13.3	13.1	14.7
18	13.1	13.3	13.6	13.9	14.2	14.4	14.6	15	15.5	17.3	18.9	21	20.9	19.9	18.9	17.8	17.5	17.3	16.9	16.7	16.9	17.1	17.2	17.2	16.6
19	17.1	17	17	17	16.9	16.9	17.3	17.5	17.8	18.6	19.8	20.9	22	23	24.2	24.7	22.9	21.5	20.2	19	18.1	17.7	17.9	17.8	19.3
20	17.7	17.4	17.5	17.8	18.1	18.2	18	17.9	17.7	16.5	15.9	17.5	19.5	20.5	19.6	19.5	17.8	15.3	13.3	12.2	11.5	11	10.7	9.7	16.3
21	8.9	8.1	7.8	7.7	7.7	7.6	7.6	7.9	10.4	13.9	16.9	17.9	17.9	18.3	18.7	17.5	15	12.8	11.4	10.2	9	7.8	6.8	6.2	11.4
22	5.7	5.3	5.1	5.2	5.3	5.3	5.4	5.8	7	10.5	15.3	17.6	18.1	18.3	18.2	17.1	15.3	14.1	13.3	13.2	13.4	13.5	13.5	13.5	11.5
23	13.5	13.2	12.9	12.8	13	13.2	13.5	13.8	14.4	15.6	17.4	18.3	18.5	19.2	19.9	19.3	18.3	17.3	16.5	16.1	15.9	15.9	15.8	15.8	15.8
24	15.8	15.5	15.2	14.9	14.3	13.9	13.3	12.5	12	11.7	11.8	12	12.3	12.7	13	13.1	12.8	12.5	12.3	12.3	12.3	12.3	12.4	12.4	13.1
25	12.4	12.4	12.4	12.5	12.5	12.5	12.4	12.3	12.4	12.9	13.3	13.2	13.7	14.4	14.4	14.1	13.5	12.9	12.4	12	11.7	11.5	11.2	10.9	12.7
26	10.7	10.6	10.3	10	9.9	9.9	9.8	9.6	10	13.6	17.7	20.3	23.1	23.8	23.5	23.1	20.8	16.6	13.7	11.8	10.9	10.6	11	11.6	14.3
27	11.4	10.6	10.4	9.6	8.4	6.8	5.5	5	5.7	8.6	11.5	13.2	14.5	15.2	15.1	14.3	12.6	10.9	8.8	7.3	6	5.1	4.2	3.4	9.3
28	2.5	2.1	1.9	1.5	1.2	1.1	0.7	0.9	3.7	7.4	11.2	14.1	15.6	16.1	16	15.8	14.9	12.2	9.8	8.6	7.7	7.3	7.1	7	7.8
29	6.8	6.5	6	5.8	5.7	5.7	5.8	5.8	7.5	11.7	16.4	19.4	21.2	22.1	21.8	21.9	21	17.9	15.7	14.2	13.8	13.9	14.1	13.6	13.1
30	12.9	12.2	11.5	11	11	10.9	10.6	10.8	12.4	15.1	18.8	21.6	22.6	22.9	22.2	20.8	19.6	18.4	17.1	15.4	13.6	10.9	9.4	8.5	15
Avg	12	11.7	11.6	11.4	11.3	11	10.7	10.8	12.3	14.8	17.3	19.1	20	20.2	19.9	19.4	18.3	16.3	14.5	13.5	12.8	12.4	12.1	11.8	14.4
S D	4.3	4.4	4.5	4.5	4.5	4.4	4.4	4.2	3.3	3	3.7	4.4	4.6	4.6	4.5	4.4	4	3.1	2.7	2.8	3	3.3	3.5	3.7	2.7
S/A	0.35	0.37	0.39	0.4	0.4	0.4	0.42	0.39	0.27	0.2	0.21	0.23	0.23	0.23	0.22	0.23	0.22	0.19	0.19	0.21	0.24	0.26	0.29	0.32	0.19
Min	2.5	1.8	1.4	1	1.2	1.1	0.7	0.9	3.7	7.4	11.2	12	12.3	12.7	13	13.1	12.6	10.9	8.8	7.3	6	5.1	4.2	3.4	7.8
Max	20.8	20.6	20.5	20.4	20.3	18.2	18	17.9	17.8	20.1	25.8	28.7	29.4	28.7	28.1	27.4	26.4	22	20.2	19	18.1	17.7	17.9	17.8	19.3
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

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

November 2009

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.4	1.7	0.6	0.7	3.4	4.1	3.8	4.2	4.3	4.4	5	5.3	4.8	4	3	3.9	4.3	3.5	3.4	3.5	3.4	3.1	2.5	3.4	3.4
2	3.7	3.6	2.6	2.5	2.5	2.5	2.8	2.2	3.2	3.6	3.3	3.9	3.7	3.8	4.2	3.2	3.4	3.5	3.2	2.3	2.3	2.5	2.5	2.2	3
3	2.2	1.7	1.5	1.3	0.4	0.3	0.6	0.6	1.2	1.9	2.2	1.4	1.2	1	0.8	0.7	1.9	1.3	0.6	0.4	0.4	0.7	0	0	1
4	1.2	1.5	2.3	2.2	1.9	2	2	2.3	2.4	2.8	2.7	2.3	2.4	2.1	2.1	2.6	1.2	1.4	1.4	0.8	0.2	0.2	0.3	0.4	1.7
5	0	2.1	1.4	0.4	0.1	0.2	0.7	0.5	1.5	2.2	1.7	1.9	2.2	2.3	2.8	2.7	1.9	0.9	1.4	1.2	1.8	2.2	1.5	1	1.4
6	1.6	1.2	1.4	1.9	1.6	1.3	0.8	1.7	3	3.5	3.4	3.2	3.5	3.1	2.6	2.6	2.1	1.3	1.1	1	0.9	0.6	0.2	0.1	1.8
7	0	0	0.1	0.1	0.1	0	0	0	0.3	1.7	2	2.4	2.5	2.6	2.6	2.6	2.1	1	1.7	1.4	0.8	0.7	1.8	1.9	1.2
8	2.2	1.5	1.9	2.3	2	1.4	1.2	1.4	1.6	2	1.7	1.4	1.4	1.7	1.2	0.7	0.5	0.1	0.3	0.5	0.1	0.5	0.8	0.3	1.2
9	0	0	0.1	0	0	0	0	0	0	0.1	0.9	1.8	2.5	2.9	2.2	1.3	0.9	1	1	0.9	0.8	0.7	0.3	0.2	0.7
10	0.4	0.1	0.4	0.7	0.2	0.4	0.5	0.8	0.5	1.3	1.3	1.8	1.8	1.3	1.3	1.7	1.3	1.5	1.7	1.7	2.3	1.3	2	2.2	1.2
11	2.9	3.7	3.8	4.1	4.5	5.4	5.2	5.6	5.7	5.9	5.6	5.9	5.6	7.2	6.9	6.6	7.6	7.8	7.7	7.9	7.4	8	8	7.5	6.1
12	8	8	8.1	8.3	8.4	8.4	9.1	9.3	8.9	7.7	6.5	6.6	7.8	8.1	8.6	7.4	7.7	7.8	8.9	8.2	6.2	5.4	7.9	7.2	7.9
13	7.5	6.8	5.3	6	5.9	6.2	5.9	6.2	6	6.1	6.4	5.2	3.5	4.2	5.8	6.3	6.3	5.3	5.6	5.2	5.3	4.9	5.3	5.1	5.7
14	4.7	4.2	3.7	2.9	3.7	4.4	4.1	2.9	3.2	3.9	3.4	3.6	3.4	3.6	3.1	2.5	2.7	2.2	2.8	2.5	2.7	2.7	2.3	2.4	3.2
15	2.1	1.6	2.1	1.4	1.2	1.7	1.6	1.6	1.8	2	2.4	2.6	3.1	2.9	2.1	1.8	0.5	0.1	0.1	0.4	1	1.3	1.2	0.8	1.5
16	0.8	0.4	0.2	0.4	0.5	0.4	0.4	0.8	1.8	1.8	2.5	2.8	3	2	2.2	1.8	1.4	1.8	1.1	1	1.6	1.4	1.3	0.8	1.4
17	1.1	1.3	1.1	0.9	0.6	0.4	0.6	1.3	1.5	2.3	3.6	3.6	3.1	3.6	3.9	4	4.3	3.7	3.2	3	3.3	3	2.3	2.2	2.4
18	2.4	2.3	2.3	2.2	2.1	2.2	3.7	2.5	3.5	3.9	4.1	4	4.1	2.8	2.1	2.7	3.1	3.9	3.5	3.5	2.6	2.8	3.4	2.2	3
19	2.3	2.4	2.2	1.7	2	2.8	1.8	1	2.7	2.1	2.6	1.9	2	2.4	2.9	3	1.3	1.4	0.8	2.2	1.9	1.6	1.5	1.1	2
20	0.4	0.7	0.4	0.3	0.5	0.7	1.4	2.1	3.7	3.7	3.9	4.1	4.1	3.6	3.4	2.7	2	1.6	1.7	1.4	1.3	1.6	1.5	0.9	2
21	0.8	1	1.6	1.8	1.8	1.9	1.9	2.1	2.4	3.5	3.6	3.5	2.9	2.4	3.2	3.4	2.6	1.5	1.6	1.5	0.7	0.4	0.5	0.6	2
22	0.6	0.8	1	1.4	1	1.1	1.2	1.2	0.9	2.4	2.6	3.2	3.9	3.5	3.6	4.2	3.6	3.2	3	3.6	4.1	4.1	3.5	2.5	2.5
23	1.8	2	1.5	2.2	2.4	2.3	2.1	2.4	2.1	3.4	3.2	3.1	3.7	3.5	4	3.4	3.1	2.8	2.9	1.9	1.6	1.4	1.8	1.9	2.5
24	1.8	2.2	2.1	2.4	2.3	1.9	2.2	2.2	2.1	1.9	1.9	1.8	2.2	1.4	1.5	1	0.9	0.7	0.9	0.7	0.6	0.4	0.6	0.2	1.5
25	0.3	0.2	0.2	0.2	0.6	0.9	0.5	0.6	0.4	1.1	1.5	2	2.4	1.7	1.7	0.7	0.3	0.2	0	0.2	0.1	0.1	0	0.4	0.7
26	0.6	0.1	0	0.1	1	0.5	0.5	0.2	0.6	1.7	1.8	1.4	1.4	1	0.9	0.8	0.7	1.4	1.3	0.8	0.5	0.7	1.3	1.6	0.9
27	1.8	4.4	5.5	5.1	4.6	4.9	3.2	2.6	3.2	4.3	5.6	6.3	5.8	6.2	6.5	5.4	4.7	3.4	3.6	2.6	3.1	3.3	2.9	2.5	4.2
28	3.3	3.3	3.2	3.3	3.6	3.3	3.7	2.8	3	3.3	3.2	3.4	4	3.6	4	3.6	2.9	2.1	2.1	1.9	1.7	2.3	2.5	1.9	3
29	2.3	1.3	1.6	1.6	1.7	1.8	1.5	1.5	2.1	2.7	2.1	1.9	2	2.4	2	2.2	1.7	1.6	2.4	2.8	3.6	4	3.8	3.1	2.2
30	2.6	2	1.6	2.9	2.9	2.6	2.5	2.5	2.6	3.6	3.7	5.3	4.9	4.9	4.2	3.2	3.4	3.2	2.5	2.5	5.7	3.7	3.5	3.2	3.3
Avg	2	2.1	2	2	2.1	2.2	2.2	2.2	2.5	3	3.2	3.3	3.3	3.2	3.2	2.9	2.7	2.4	2.4	2.2	2.3	2.2	2.2	2	2.5
SD	1.9	1.9	1.8	1.9	1.9	2	2	2	1.9	1.6	1.5	1.5	1.5	1.7	1.8	1.7	2	1.9	2	2	1.9	1.8	2	1.9	1.7
S/A	0.96	0.93	0.92	0.92	0.9	0.92	0.92	0.91	0.74	0.53	0.47	0.47	0.44	0.53	0.57	0.58	0.73	0.82	0.86	0.88	0.85	0.84	0.9	0.94	0.67
Min	0	0	0	0	0	0	0	0	0	0.1	0.9	1.4	1.2	1	0.8	0.7	0.3	0.1	0	0.2	0.1	0.1	0	0	0.7
Max	8	8	8.1	8.3	8.4	8.4	9.1	9.3	8.9	7.7	6.5	6.6	7.8	8.1	8.6	7.4	7.7	7.8	8.9	8.2	7.4	8	8	7.5	7.9
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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

November 2009

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	157	155	168	318	349	358	27	40	44	46	45	52	47	26	346	5	30	30	3	11	360	356	356	33	25
2	28	32	12	356	345	346	342	341	348	347	345	346	346	346	351	342	340	335	330	326	329	333	338	342	348
3	326	317	325	323	323	303	295	297	313	319	358	334	322	9	351	296	142	122	122	120	125	135	146	135	333
4	336	353	2	18	11	4	14	27	22	48	45	66	80	73	80	75	93	113	103	106	128	12	0	332	44
5	333	334	19	48	338	306	299	305	336	342	341	316	306	294	300	290	291	276	270	256	274	293	291	265	305
6	261	284	297	300	307	307	300	317	332	339	339	319	328	314	323	352	1	26	50	52	51	45	40	359	330
7	258	257	259	19	353	0	0	0	141	156	168	172	187	185	179	153	127	146	160	163	168	186	198	197	170
8	199	199	200	200	203	207	202	198	212	231	234	227	204	150	196	223	138	91	85	86	80	8	3	2	203
9	0	0	162	0	337	339	0	0	108	84	87	80	75	75	127	148	110	106	123	126	127	116	108	94	102
10	90	13	358	23	48	83	26	35	53	64	86	83	100	88	51	53	30	55	21	20	41	26	30	32	49
11	30	24	18	30	25	31	30	32	32	32	31	32	35	41	38	42	49	53	53	54	52	49	47	46	40
12	45	40	39	38	37	34	30	30	27	9	359	8	11	17	13	0	7	13	15	8	2	359	27	31	21
13	29	18	9	0	352	339	329	327	332	336	340	335	331	321	321	328	338	332	336	332	335	331	336	340	341
14	344	342	329	307	310	340	343	322	306	314	321	321	316	313	323	322	315	307	316	320	323	334	342	336	324
15	335	319	326	333	310	307	299	300	326	317	328	348	0	2	4	358	355	338	269	260	253	263	266	269	327
16	264	280	285	290	296	289	300	304	342	20	21	25	42	37	32	43	55	67	62	57	63	65	44	25	30
17	29	29	33	29	20	5	350	339	13	19	28	26	31	35	31	30	32	32	32	41	44	40	37	31	30
18	25	23	31	16	22	26	60	50	56	59	58	56	63	63	40	39	51	61	61	68	67	60	62	59	52
19	59	57	67	63	41	63	58	77	83	64	75	90	102	102	104	104	82	62	79	93	107	119	113	123	82
20	126	111	168	181	247	285	309	325	353	10	3	5	19	352	356	5	40	48	11	6	5	358	2	6	3
21	333	342	342	343	347	352	347	345	357	3	13	29	11	12	350	355	5	10	353	332	321	320	325	324	357
22	308	304	308	324	307	313	316	313	313	350	24	37	31	29	31	35	26	13	24	38	36	42	42	32	20
23	350	0	13	32	34	25	33	31	23	27	33	37	30	36	46	39	30	24	38	23	6	2	351	331	26
24	320	331	312	305	299	298	292	291	292	294	296	300	314	301	307	301	292	290	296	300	301	301	288	290	302
25	297	312	339	264	254	256	262	245	236	236	237	229	232	227	225	225	243	173	211	187	178	208	201	275	237
26	289	302	330	301	313	358	8	355	358	23	31	22	47	74	72	86	90	71	73	77	84	96	99	197	53
27	231	245	264	283	282	269	281	278	267	260	257	266	267	267	268	267	266	276	285	281	284	289	282	276	270
28	282	273	269	263	264	262	263	269	284	278	285	273	259	255	253	257	259	249	249	247	265	253	256	249	264
29	226	213	204	213	206	199	211	210	225	232	205	192	186	172	177	189	186	174	159	182	190	195	196	197	197
30	199	197	181	193	193	193	193	190	194	213	207	214	223	220	219	209	202	200	207	233	334	332	324	319	221
Avg	0	357	349	345	340	345	350	350	354	354	0	2	5	4	355	2	14	24	17	17	6	3	8	5	360
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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

November 2009

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	2.8	3.1	1.7	1.5	6.3	7.3	6.9	7.1	8	7.8	8.8	9	8.8	6.9	5.5	6.9	7.4	6.4	6	6.5	6.3	5.8	4.6	6	6.1
2	6.6	6.7	5.5	4.8	4.6	4.7	5	4.7	5.7	6.2	5.9	6.8	6.3	6.5	7.2	6.1	6.2	5.8	5.9	4.8	4.5	4.8	4.6	3.9	5.6
3	4.4	3.9	3.1	2.6	1.2	1.1	1.7	1.8	2.7	3.9	3.9	3.1	3	2.2	2.1	1.8	3.3	2.3	1.2	0.8	1	1.3	0.2	0.1	2.2
4	2.2	2.7	4.2	3.9	3.6	3.5	3.6	4	4.3	4.8	4.6	4.2	4.2	3.8	3.8	4.2	2.1	2.3	2.3	1.5	0.5	0.6	0.7	0.8	3
5	0.1	3.8	3	1.1	0.2	0.5	1.3	1.3	3.1	3.8	3.3	3.8	4.4	4.9	5.6	5.7	4	1.6	2.6	2	3.2	4.3	3.1	1.9	2.9
6	2.6	2.5	2.8	3.8	3.1	2.6	1.8	3.5	5.6	6.9	6.9	6.5	6.8	6	5.3	5	4	2.3	1.9	1.8	1.5	1	0.7	0.3	3.6
7	0	0.1	0.3	0.1	0.3	0	0	0	0.8	3.3	3.8	4.2	4.5	5	4.8	4.3	3.4	1.6	3.2	2.8	2	1.7	3.1	3.1	2.2
8	3.4	2.5	2.9	3.3	3.1	2.3	1.9	2.7	3.2	3.7	3.2	2.8	2.8	3.1	2.4	1.5	0.9	0.4	0.7	1	0.2	0.8	1.2	0.6	2.1
9	0	0	0.2	0	0.1	0.1	0	0	0.1	0.7	1.9	3.1	3.8	4.3	3.7	2.5	1.4	1.7	1.9	1.6	1.5	1.3	0.6	0.5	1.3
10	0.7	0.2	0.8	1.2	0.6	1	0.8	1.3	1.4	2.5	2.3	2.8	3.1	2.4	2.2	2.9	2.3	2.6	3.1	3.3	3.7	2.6	3.6	4	2.1
11	5.7	6.6	6.8	7.6	8	9.1	9.6	9.5	9.9	9.9	9.6	10.5	10.5	12.6	11.4	11.4	13.5	14	13.6	13.3	13.5	14.1	13.8	13.2	10.7
12	14	14.2	14.5	15.2	14.2	14.8	15.5	15.3	14.8	13.8	11.4	11.9	13.4	13.7	14.6	12.9	13.3	13.6	15.4	14	10.9	9.4	13.5	13	13.6
13	13.4	12.5	9.8	10.6	10	10.3	10	11.3	11	10.5	10.8	9	6.8	8.3	11.1	11.4	11.1	8.8	9.7	8.7	8.8	8.7	9.2	8.9	10
14	8.5	7.4	7.1	6.1	7.4	8	7.2	6.2	6.6	7.6	6.7	7.2	6.3	6.8	6.7	5.2	5.7	5	5.7	5.2	5.5	5.1	4.3	4.5	6.3
15	4.1	3.5	4.1	2.8	3	3.6	3.8	3.7	3.6	4.2	5	4.6	5.3	4.9	3.9	3.2	1.3	0.3	0.2	0.6	1.4	1.9	1.7	1.5	3
16	1.4	1.5	1.3	1.5	1.6	1.4	1.2	2	3.1	3.4	4.4	4.9	5	3.8	4.1	3.1	2.3	2.9	1.8	1.7	2.5	2.2	2	1.4	2.5
17	1.9	2.3	2.2	2.2	2	1.3	1.6	2.5	3	4.2	6	6.3	5.6	6.3	6.7	6.9	7.3	6.5	5.2	5.1	5.5	5	4.1	4	4.3
18	4.4	4.1	4.2	3.9	3.9	3.7	6.6	4.4	6	6.8	7.4	6.7	6.7	4.9	3.7	5.2	5.8	6.6	6.3	5.9	4.4	5.2	5.8	3.9	5.3
19	3.9	4	3.6	3	3.6	4.6	3.1	2.1	4.6	3.5	4.3	3.4	3.2	4	4.7	4.7	2.2	2.4	1.8	3.4	2.9	2.6	2.3	2	3.3
20	1.1	1.2	1.2	1.3	1.5	2	3.6	4.2	6.8	6.8	6.9	7.5	7	6.1	5.8	5.1	3.5	2.6	2.7	2.3	2.4	2.5	2.4	1.6	3.7
21	1.5	1.8	2.5	2.9	2.8	3.1	2.9	3.5	4.2	5.9	6.3	6.1	4.8	4.4	6	5.9	4.5	2.9	2.6	2.6	1.4	1.1	1	1.1	3.4
22	1.2	1.4	1.6	2.3	1.8	1.9	2.1	2.2	2.1	4.1	4.4	6	6.9	6.2	6.6	7.1	6.3	5.7	5.4	6.3	7.3	6.7	6	4.8	4.4
23	3.3	3.7	3	4.1	4.8	4.2	4.1	4.6	4	5.6	5.4	5.5	6.5	6.4	6.9	5.8	5.3	5	5.3	3.6	3.1	2.9	3.2	3.4	4.6
24	4	4	4.7	5.2	5.3	4.9	4.9	5.1	5	4.6	4.5	4.2	4.3	3.8	3.6	2.8	2.8	2.4	2.8	2.5	2.3	1.8	2	1	3.7
25	1.1	1	0.7	0.8	1.7	2.2	1.9	1.8	1.6	2.6	3.4	3.9	4.1	3.4	3.6	1.8	1	1	0.5	0.8	0.8	0.6	0.2	1.2	1.7
26	2	0.4	0.1	0.5	2.2	1.3	1.3	0.9	1.4	3.2	3.1	2.7	2.7	2.3	1.9	1.7	1.5	2.5	2.1	1.5	1.2	1.7	2.8	3	1.8
27	3.6	7.2	10.2	11	9.5	9.3	6.5	5.5	6.1	8.2	9.7	11.4	10.4	11.8	12.1	9.6	8.9	6.8	7.4	5.2	6.2	6.4	5.7	5.2	8.1
28	6.6	6.5	5.4	5.3	5.8	5.2	6.3	5.5	5.7	6.6	6	6.3	7	6.2	6.6	6.3	4.7	3.3	3.3	2.9	2.6	3.3	3.5	2.7	5.2
29	3.2	2.1	2.2	2.5	2.4	2.8	2.4	2.3	3.4	4.3	3.7	3.3	3.5	4.3	3.7	4	3	3	3.8	5.1	6	6.8	6.2	5.1	3.7
30	4.5	3.4	3.2	4.5	4.8	4.3	4.2	4.2	4.7	6.5	6.7	9.4	8.5	8.5	7.4	5.7	6.1	5.4	4.2	4.7	10.1	6.6	6.5	6.4	5.8

Avg	3.7	3.8	3.8	3.9	4	4	4.1	4.1	4.7	5.5	5.7	5.9	5.9	5.8	5.8	5.3	4.8	4.3	4.3	4.1	4.1	4	4	3.6	4.5
S D	3.4	3.3	3.3	3.4	3.3	3.4	3.4	3.3	3.1	2.7	2.5	2.7	2.5	2.9	3.1	2.9	3.4	3.4	3.5	3.3	3.3	3.1	3.4	3.3	2.9
S/A	0.91	0.88	0.87	0.89	0.82	0.85	0.84	0.8	0.66	0.49	0.44	0.45	0.43	0.49	0.53	0.55	0.7	0.79	0.83	0.81	0.81	0.79	0.86	0.91	0.63
Min	0	0	0.1	0	0.1	0	0	0	0.1	0.7	1.9	2.7	2.7	2.2	1.9	1.5	0.9	0.3	0.2	0.6	0.2	0.6	0.2	0.1	1.3
Max	14	14.2	14.5	15.2	14.2	14.8	15.5	15.3	14.8	13.8	11.4	11.9	13.4	13.7	14.6	12.9	13.5	14	15.4	14	13.5	14.1	13.8	13.2	13.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 2009

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	1012	1013	1014	1015	1015	1015	1015	1014	1014	1014	1015	1015	1014	1014	1015	1015	1016	1016	1016	1015	1014
2	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1016
3	1016	1017	1017	1017	1017	1017	1017	1018	1019	1019	1019	1018	1017	1017	1017	1017	1017	1018	1018	1019	1019	1020	1020	1021	1018
4	1021	1022	1022	1023	1023	1024	1024	1025	1025	1025	1025	1025	1024	1023	1022	1021	1021	1021	1021	1021	1021	1021	1020	1020	1023
5	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1019	1018	1018	1018	1017	1018	1018	1018	1018	1019	1020	1020	1020	1019
6	1020	1021	1021	1021	1022	1023	1023	1024	1025	1025	1025	1024	1024	1023	1023	1024	1024	1024	1025	1025	1025	1025	1025	1025	1024
7	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026	1026	1025	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1024
8	1022	1022	1022	1022	1022	1022	1022	1023	1024	1024	1024	1024	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1026	1026	1023
9	1026	1026	1026	1026	1026	1027	1027	1028	1028	1029	1028	1028	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1025	1026
10	1025	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1022	1021	1021	1020	1020	1020	1019	1019	1019	1019	1018	1017	1021	
11	1017	1016	1016	1015	1015	1014	1014	1014	1015	1014	1014	1013	1012	1011	1011	1011	1010	1010	1010	1010	1010	1009	1009	1008	1012
12	1007	1006	1005	1004	1003	1003	1002	1002	1002	1002	1001	1000	998	997	996	996	996	996	997	997	997	997	997	997	1000
13	998	997	997	997	998	998	998	999	1000	1000	1000	1000	1000	999	999	999	1000	1001	1001	1002	1002	1002	1003	1003	1000
14	1002	1003	1003	1004	1005	1005	1005	1006	1007	1007	1008	1007	1007	1007	1007	1008	1008	1009	1009	1010	1010	1010	1011	1011	1007
15	1010	1011	1011	1011	1011	1012	1012	1013	1013	1013	1014	1013	1013	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1014	1012
16	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1015	1015	1015	1014	1015	1015	1015	1015	1015	1016	1016	1016	1016	1015
17	1016	1016	1016	1016	1017	1017	1018	1018	1019	1020	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1020	1019
18	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1021
19	1020	1020	1020	1019	1019	1019	1019	1020	1020	1020	1019	1018	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1015	1018
20	1015	1015	1015	1014	1015	1015	1016	1016	1017	1017	1018	1017	1017	1017	1016	1017	1017	1017	1017	1018	1018	1018	1018	1018	1016
21	1017	1017	1018	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018
22	1019	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1020	1020	1020
23	1021	1021	1020	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1015	1018
24	1015	1015	1015	1015	1016	1016	1017	1017	1018	1018	1018	1018	1017	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017
25	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014
26	1012	1012	1011	1011	1011	1010	1011	1011	1011	1011	1010	1009	1008	1007	1006	1005	1005	1005	1005	1005	1004	1004	1003	1002	1008
27	1001	1000	1000	1001	1002	1004	1005	1006	1006	1006	1005	1004	1003	1003	1003	1004	1004	1005	1006	1007	1007	1008	1009	1009	1004
28	1009	1009	1010	1011	1011	1011	1012	1013	1013	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1014	1012
29	1014	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1015	1014	1014	1013	1013	1013	1013	1013	1012	1012	1012	1012	1011	1014
30	1011	1011	1010	1010	1009	1009	1009	1009	1009	1008	1008	1007	1006	1005	1004	1004	1003	1004	1004	1004	1006	1008	1010	1011	1007

Avg	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1015	1015	1015
S/D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	998	997	997	997	998	998	998	999	1000	1000	1000	1000	998	997	996	996	996	996	997	997	997	997	997	997	1000
Max	1026	1026	1026	1026	1026	1027	1027	1028	1028	1029	1028	1028	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

November 2009

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	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13	13.1	13.4	13.3	13	12.8	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8
2	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.1	13	13.1	13.2	13.1	13	12.9	12.8	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7
3	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.5	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
4	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.7	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.2	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13	
5	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.7	13.5	13.4	13.3	13.3	13.2	13.3	13.3	13.3	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13	
6	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.8	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13	
7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.9	13.7	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13	
8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.7	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13	
9	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.7	13.5	13.3	13.2	13.2	13.1	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.9	
10	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
11	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
12	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
13	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.6	12.6	12.4	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
14	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.4	12.8	13.1	13	13	13	12.9	12.7	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.6
15	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.3	13	13.4	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8
16	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.6	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.8	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	13.5	13.6	13.5	13.4	13.3	13.3	13.3	13.4	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	
18	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.4	13.4	13.3	13.3	13.2	13	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9	
19	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.1	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
20	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.7	13.4	13.4	13.4	13.4	13.4	13.3	13	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9	
21	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.4	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	
22	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.8	13.6	13.5	13.5	13.4	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
23	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.3	13.4	13.4	13.2	13.3	13.4	13.3	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.9
24	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13	13.1	13.3	13.1	13.1	12.8	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7
25	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13	12.9	13.2	13.3	13.1	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.7
26	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.5	13.5	13.4	13.3	13.2	13.2	13.2	13.3	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9	
27	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	
28	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.8	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13.1	
29	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.2	13.7	13.6	13.4	13.4	13.3	13.3	13.3	13.3	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13	
30	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.5	13.5	13.4	13.3	13.3	13.3	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	
Avg	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9	
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.3	12.4	12.5	12.5	12.5	12.4	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	
Max	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.9	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13.1	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

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

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

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

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