

January 2011

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	0	43	128	264	413	460	427	257	173	150	37	0	0	0	0	0	0	0	2352
2	0	0	0	0	0	0	0	3	29	74	84	86	153	209	70 ?	33 ?	3	0	0	0	0	0	0	0	744 ?
3	0	0	0	0	0	0	0	32	165	330	454	524	534	478	369	211	51	0	0	0	0	0	0	0	3149
4	0	0	0	0	0	0	0	8	40	171	161	171	325	282	300	151	38	0	0	0	0	0	0	0	1647
5	0	0	0	0	0	0	0	23	149	288	372	495	334	213	132	80	22	0	0	0	0	0	0	0	2108
6	0	0	0	0	0	0	0	16	36	120	222	244	221	325	172	54	23	0	0	0	0	0	0	0	1435
7	0	0	0	0	0	0	0	27	104	256	455	438	307	220	160	196	51	0	0	0	0	0	0	0	2213
8	0	0	0	0	0	0	0	45	172	284	267	111	343	315	277	133	45	3	0	0	0	0	0	0	1993
9	0	0	0	0	0	0	0	32	163	333	462	540	556	507	395	235	64	1	0	0	0	0	0	0	3288
10	0	0	0	0	0	0	0	11	76	92	196	394	387	418	174	81	20	1	0	0	0	0	0	0	1850
11	0	0	0	0	0	0	0	7	28	37	64	92	84	60	47	23	7	1	0	0	0	0	0	0	452
12	0	0	0	0	0	0	0	31	157	327	456	535	537	492	371	229	70	7	0	0	0	0	0	0	3210
13	0	0	0	0	0	0	0	32	163	333	463	542	557	509	403	241	73	2	0	0	0	0	0	0	3319
14	0	0	0	0	0	0	0	33	156	326	451	529	545	502	379	225	66	0	0	0	0	0	0	0	3213
15	0	0	0	0	0	0	0	25	105	320	448	527	540	496	381	239	73	2	0	0	0	0	0	0	3156
16	0	0	0	0	0	0	0	32	159	304	383	522	540	492	382	217	66	6	0	0	0	0	0	0	3103
17	0	0	0	0	0	0	0	20	94	194	247	238	178	105 ?	38 ?	22 ?	7 ?	2	0	0	0	0	0	0	1143 ?
18	0	0	0	0	0	0	0	5	65	107	144	164	124	162	123	100	30	4	0	0	0	0	0	0	1029
19	0	0	0	0	0	0	0	6	23	96	207	307	393	435	212	220	49	4	0	0	0	0	0	0	1953
20	0	0	0	0	0	0	0	26	162	271	283	385	321	306	288	140	59	7	0	0	0	0	0	0	2247
21	0	0	0	0	0	0	0	19	176	353	489	572	592	541	435	275	95	7	0	0	0	0	0	0	3554
22	0	0	0	0	0	0	0	19	81	171	294	482	217	119	97	36	13	3	0	0	0	0	0	0	1534
23	0	0	0	0	0	0	0	38	154	348	485	554	590	536	431	270	95	12	0	0	0	0	0	0	3513
24	0	0	0	0	0	0	0	49	190	164	169	173	246	359	448	271	82	9	0	0	0	0	0	0	2160
25	0	0	0	0	0	0	0	26	87	78	82	113	179	158	106	35 ?	12	4	0	0	0	0	0	0	880
26	0	0	0	0	0	0	0	8	54	115	143	145	73	98 ?	73	93	31	3	0	0	0	0	0	0	837
27	0	0	0	0	0	0	0	27	177	319	284	134	209	128	128	245	109	16	0	0	0	0	0	0	1774
28	0	0	0	0	0	0	0	35	109	295	386	351	287	240	425	267	86	11	0	0	0	0	0	0	2492
29	0	0	0	0	0	0	0	64	245	358	485	574	600	560	454	297	118	16	0	0	0	0	0	0	3772
30	0	0	0	0	0	0	0	54	100	261	540	578	597	605	352	299	120	17	0	0	0	0	0	0	3522
31	0	0	0	0	0	0	0	32	84	140	140	124	93	75	80	70	30	7	0	0	0	0	0	0	874
Avg	0	0	0	0	0	0	0	27	117	230	314	358	358	329	254	166	53	5	0	0	0	0	0	0	2210
S D	0	0	0	0	0	0	0	15	57	102	147	182	178	171	143	93	34	5	0	0	0	0	0	0	996
S/A	0	0	0	0	0	0	0	0.56	0.49	0.45	0.47	0.51	0.5	0.52	0.56	0.56	0.63	1.11	0	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	3	23	37	64	86	73	60	38	22	3	0	0	0	0	0	0	0	452
Max	0	0	0	0	0	0	0	64	245	358	485	574	600	605	454	299	120	17	0	0	0	0	0	0	3772
n	0	0	0	0	0	0	0	291	372	372	372	372	372	365	358	350	365	67	0	0	0	0	0	0	3656

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.3% exceed the 15% QC threshold -- 3706 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ 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.

January 2011

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	0	0	*	
2	0	0	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	0	*	
4	0	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	0	*	
6	0	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	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	*	
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
Avg	0	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	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	0	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	
Max	0	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	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: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 3706 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 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.

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

January 2011

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	0	29	55	148	100	137	189	190	171	117	32	0	0	0	0	0	0	0	1169
2	0	0	0	0	0	0	0	4	29	74	84	86	149	194	65 ?	20	3	0	0	0	0	0	0	0	708
3	0	0	0	0	0	0	0	13	31	41	47	49	49	45	39	30	12	0	0	0	0	0	0	0	357
4	0	0	0	0	0	0	0	9	40	164	159	171	270	236	106	124	38	0	0	0	0	0	0	0	1317
5	0	0	0	0	0	0	0	18	43	164	112	83	181	188	132	80	22	0	0	0	0	0	0	0	1022
6	0	0	0	0	0	0	0	18	36	115	222	243	184	188	137	54	23	0	0	0	0	0	0	0	1221
7	0	0	0	0	0	0	0	23	93	169	128	214	272	213	159	113	38	0	0	0	0	0	0	0	1423
8	0	0	0	0	0	0	0	14	36	56	224	111	250	154	158	100	34	3	0	0	0	0	0	0	1140
9	0	0	0	0	0	0	0	15	35	48	54	54	53	52	46	42	18	0	0	0	0	0	0	0	416
10	0	0	0	0	0	0	0	13	76	92	153	314	290	256	157	81	20	1	0	0	0	0	0	0	1453
11	0	0	0	0	0	0	0	7	28	37	64	92	84	60	44	23	8	1	0	0	0	0	0	0	449
12	0	0	0	0	0	0	0	18	46	60	69	75	93	94	89	59	27	6	0	0	0	0	0	0	633
13	0	0	0	0	0	0	0	14	34	46	51	53	53	50	45	35	17	1	0	0	0	0	0	0	400
14	0	0	0	0	0	0	0	21	34	46	51	55	57	52	59	38	14	0	0	0	0	0	0	0	428
15	0	0	0	0	0	0	0	22	68	54	59	62	64	61	54	43	21	2	0	0	0	0	0	0	511
16	0	0	0	0	0	0	0	16	47	78	102	71	68	69	71	84	49	6	0	0	0	0	0	0	660
17	0	0	0	0	0	0	0	20	92	192	246	238	178	86	34	20	8	2	0	0	0	0	0	0	1115
18	0	0	0	0	0	0	0	5	65	107	144	164	124	162	123	100	30	4	0	0	0	0	0	0	1029
19	0	0	0	0	0	0	0	6	23	96	205	297	361	351	176	148	26	3	0	0	0	0	0	0	1692
20	0	0	0	0	0	0	0	24	148	210 ?	266	365	309	248	192	122	55	7	0	0	0	0	0	0	1944
21	0	0	0	0	0	0	0	18	129 ?	?	?	?	315	104	50	37	21	2	0	0	0	0	0	0	677 ?
22	0	0	0	0	0	0	0	21	80	167	271	368	203	119	97	36	13	3	0	0	0	0	0	0	1378
23	0	0	0	0	0	0	0	41	130 ?	?	351	187	81	63	57	45	27	7	0	0	0	0	0	0	991 ?
24	0	0	0	0	0	0	0	45	192 ?	162	169	173	241	243	149	56	32	8	0	0	0	0	0	0	1471
25	0	0	0	0	0	0	0	26	87	78	82	113	179	158	106	30	12	4	0	0	0	0	0	0	875
26	0	0	0	0	0	0	0	8	54	115	143	145	73	80	65	81	31	3	0	0	0	0	0	0	799
27	0	0	0	0	0	0	0	19	53	113	218	134	209	127	126	118	47	12	0	0	0	0	0	0	1174
28	0	0	0	0	0	0	0	35	101	166	232	310	256	203	101	71	67	7	0	0	0	0	0	0	1548
29	0	0	0	0	0	0	0	26	69	67	66	72	66	62	56	49	30	9	0	0	0	0	0	0	572
30	0	0	0	0	0	0	0	36	100	154	134	91	63	119	220	49	30	9	0	0	0	0	0	0	1004
31	0	0	0	0	0	0	0	32	80	140	140	124	93	75	80	70	30	7	0	0	0	0	0	0	871
Avg	0	0	0	0	0	0	0	20	69	109	145	155	163	139	102	67	27	3	0	0	0	0	0	0	982
S D	0	0	0	0	0	0	0	10	40	52	80	97	95	79	52	36	14	3	0	0	0	0	0	0	422
S/A	0	0	0	0	0	0	0	0.53	0.58	0.48	0.55	0.63	0.58	0.57	0.51	0.53	0.53	1.01	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	4	23	37	47	49	49	45	34	20	3	0	0	0	0	0	0	0	357
Max	0	0	0	0	0	0	0	45	192	210	351	368	361	351	220	148	67	12	0	0	0	0	0	0	1944
n	0	0	0	0	0	0	0	269	353	340	360	360	371	369	367	370	370	67	0	0	0	0	0	0	3597

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.9% exceed the 15% QC threshold -- 3706 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

January 2011

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	6.3	6.3	6	5.4	5.2	4.9	4.8	5	6.2	9.3	12.2	14.9	17.1	18.3	17.7	17.8	16.5	15.1	14.7	14.8	14.9	14.9	14.6	14.4	11.6
2	14.4	14.4	14.1	14.3	14.2	14	14	14.1	13.9	14.2	14.7	15.2	16.2	17.7	17.7	16.5	16.2	14.3	8.7	8.2	8.1	8	7.6	6.5	13.2
3	5.1	3.8	2.8	1.8	1.2	0.4	0	-0.2	0.6	1.6	2.4	3.1	3.5	4.2	5.1	5	4.4	2.7	1.9	0.5	-0.5	-1.2	-1.2	-1.3	1.9
4	-1.5	-1.5	-1.6	-1.4	-1.5	-1.2	-0.5	0.2	0.8	2.1	3.3	4	5.1	6.9	8.2	8.3	8.1	7.3	6.2	5.7	5.7	5.3	5	4.7	3.2
5	4.3	4.4	3.9	3.1	2.5	1.6	1.5	1.4	2.3	4.5	5.5	6.6	7	6.8	6.3	5.7	4.7	3.7	3	2.9	3	3.1	3	3	3.9
6	2.9	3	2.9	2.6	2.5	2.6	2.7	2.7	2.7	2.5	3.3	4.4	5	5.9	6.1	4.4	3.5	2.6	2	1.6	1.2	0.7	0	-0.5	2.8
7	-0.2	0.1	-0.1	0.4	0.5	0.8	0.7	0.6	1.1	2.4	4.9	6.1	5.6	5.6	5.4	6	5.7	4.2	2.9	1.9	1.4	1.4	1.5	1.6	2.5
8	1.6	1.7	1.9	1.9	1.9	1.2	0.1	0	1	2.6	4.1	3.7	4	5.1	5.7	4.6	3	2.3	1.6	0.4	-0.8	-1.8	-2.4	-3.1	1.7
9	-3.5	-3.9	-4.2	-4.6	-5	-5.3	-5.7	-5.8	-4.7	-3.1	-1.5	-0.1	0.7	1.1	2	2.3	1.8	0.3	-0.5	-1.1	-1.7	-2.2	-2.5	-3	-2.1
10	-3.5	-3.6	-3.5	-3.1	-2.8	-2.8	-2.7	-2.7	-2.3	-1.8	-1.2	0.5	0.9	2.1	2	2	1.7	1.5	0.8	-0.1	-0.1	0.1	0.1	-0.1	-0.8
11	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.2	-0.1	0.2	0.3	0.5	1	1.3	1.5	1.3	1.1	0.7	0.4	0.4	0.1	-0.2	-0.1	-0.1	0.1	0.2
12	0.2	0.3	0.3	0.3	0.3	-0.2	-0.6	-0.7	-0.3	0.5	1	1.5	1.9	2.5	2.8	2.7	2.5	1.6	1	0.7	0.4	0	-0.5	-0.7	0.7
13	-1.2	-1.5	-2	-2.5	-2.9	-3.2	-3.7	-4	-2.6	-0.9	0.3	1.3	2.1	2.7	3.2	3.8	3.4	1.9	1	-0.1	-0.6	-1	-1.5	-1.7	-0.4
14	-2.6	-2.6	-2.6	-2.8	-3.1	-3.7	-4.4	-4.4	-3.1	-1.3	0.3	1.2	2.3	2.8	3.4	3.7	3.6	1.2	-0.3	-0.9	-1.2	-1.4	-1.5	-2	-0.8
15	-2	-2.5	-2.4	-2.5	-2	-1.7	-1.4	-1.1	-0.2	2	3.7	4.8	5.8	6.6	7.4	7.6	7.6	6	4.9	4.1	3.2	3.1	3	2.4	2.3
16	2.3	2.4	2.4	1.7	1.1	0.8	0.8	1	2.6	5	6.5	7.8	8.7	9.2	9	8.1	6.5	4.5	3.2	2.7	2.5	2.4	2.1	1.9	4
17	1.8	1.5	1.7	2.1	1.9	2.5	2.8	2.9	3.7	5.3	7.1	8.1	8.3	8	7.5	6.7	5.6	5.5	5.7	6.2	6.8	7.3	8.3	9	5.3
18	9	9.2	9.4	9.5	8	6.5	5.3	4.4	3.9	3.6	3.8	4	4	4.3	4.5	5	5	4.7	4.4	4.4	4.5	4.5	4.5	4.6	5.5
19	4.8	5	5.3	5.6	5.9	6	6.1	6.1	6.3	6.6	7.4	8.4	9.5	11.1	12.5	13.8	13.6	10.7	10	9.3	8.9	8.8	8.5	7.7	8.2
20	7	6.1	5.4	4.4	4.1	3.9	3.9	3.8	4.9	5.8	6	6.5	6.7	6.6	6.6	6	5.6	4.6	4.1	3.7	3.6	4.3	6.1	7.5	5.3
21	8.1	8.7	9.5	9.4	9.2	8.6	7.6	6	5.6	5.8	6	6.4	6.9	7.2	7.2	6.9	6.3	4.8	3.5	2.4	1.3	0.7	-0.1	-1	5.7
22	-1.6	-2	-2.3	-2.7	-3.1	-3.6	-4	-4.3	-4.3	-3.9	-3.4	-2.7	-2.7	-3.2	-3.2	-3.4	-3.9	-4.1	-4.1	-4.1	-4.2	-4.6	-5.2	-5.8	-3.6
23	-6.7	-7.3	-7.3	-7.6	-7.9	-8.1	-7.7	-7.1	-5	-2.4	-0.1	1.7	3.3	4.3	4.4	4.8	2	0	-0.9	-1.4	-1.7	-1.9	-2.3	-2.5	-2.4
24	-2.7	-2.9	-3.1	-3.2	-3.5	-3.8	-4.1	-3.9	-2.1	-0.7	0.2	0.6	1.2	1.9	2.9	3.3	3.2	1.7	0.7	0.1	-0.1	0.2	0.4	1.1	-0.5
25	2	3.6	3.9	3.2	2.6	2.1	2.6	2.4	3.7	5.1	4.7	4.8	6.3	7.6	7.9	7.6	7.2	7	6.9	6.4	6.1	5.8	5.8	6.4	5.1
26	8	9	9.8	9.7	9.8	9.3	8.5	8.1	8.1	8.7	9.2	9.5	9.4	9.1	9.2	9.2	9.6	9.4	8.2	6.7	4.2	3	2.5	2.6	8
27	2.9	3.4	3.7	3.1	2.3	1.8	2.2	2.3	3	4.2	5	4.9	5.1	4.5	3.6	4	4.1	2.4	1.3	0.9	0.6	0.5	0.5	0.6	2.8
28	0.6	0.8	0.8	0.4	0.3	0.3	0.6	1	1.6	3.2	6.1	7	7.6	8	9.5	9.8	9.6	8.7	7.6	7.1	6.4	5.5	3.9	2.5	4.6
29	1.4	1.1	0.2	-0.4	-0.9	-1.1	-1.3	-1.5	0.1	3.2	4.6	5.3	6.5	7.4	8.7	9.2	10.1	9.2	7.5	6.4	5.9	6.6	6.7	6.3	4.2
30	6	6.2	6.2	5.4	4.3	4.2	4.4	4.4	4.8	7.1	9.5	10.6	11.5	11.8	11.2	10.3	9.3	7.4	5.5	4.3	3.9	4	4.4	4.7	6.7
31	4.5	4.4	4.1	3.8	3.5	3.2	3	3	3.3	4.3	4.8	4.6	4	3.3	2.9	2.7	2.8	2.9	3.1	3	3.2	3.3	3.2	2.8	3.5
Avg	2.2	2.2	2.1	1.8	1.6	1.3	1.1	1.1	1.8	3.1	4.2	5	5.6	6.2	6.4	6.3	5.8	4.7	3.7	3.1	2.7	2.6	2.4	2.2	3.3
SD	4.5	4.7	4.8	4.7	4.7	4.6	4.5	4.4	4.1	3.9	4	4.1	4.3	4.5	4.4	4.4	4.4	4.2	3.8	3.9	3.9	4	4.2	4.3	3.8
S/A	2.07	2.15	2.29	2.59	3	3.62	4.01	4.03	2.27	1.28	0.94	0.81	0.75	0.72	0.69	0.69	0.76	0.9	1.03	1.23	1.43	1.58	1.73	1.94	1.16
Min	-6.7	-7.3	-7.3	-7.6	-7.9	-8.1	-7.7	-7.1	-5	-3.9	-3.4	-2.7	-2.7	-3.2	-3.2	-3.4	-3.9	-4.1	-4.1	-4.1	-4.2	-4.6	-5.2	-5.8	-3.6
Max	14.4	14.4	14.1	14.3	14.2	14	14	14.1	13.9	14.2	14.7	15.2	17.1	18.3	17.7	17.8	16.5	15.1	14.7	14.8	14.9	14.9	14.6	14.4	13.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

January 2011

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	92.8	96.6	100.4	103.8	104.7 ?	?	?	?	?	103.2 ?	99.1	90.1	83.4	86.1	92.1	93.8	98	101.5	102.6	100.7	99.8	99.3	99.7	100.2	97.4 ?	
2	101.5	103.3	103.4	103.3	104.2	104.9 ?	?	?	?	?	?	?	104.2 ?	100.4	99.5	104.4	?	104.9 ?	?	104.2 ?	102.7	102.2	97.5	91.7	102 ?	
3	83.6	74.3	75.8	77.8	78.1	83.3	83.7	80.6	71.6	66.1	57.5	57.3	52.7	50.8	48.5	47.2	47.2	57.3	62.4	76	82.6	87.9	88.1	96.6	70.3	
4	101.1	103.8	104.8 ?	104.4	104.2	103.9	104	100.5	101.3	93.9	85.7	85.4	80.7	68.7	60.9	61.8	65.3	70.8	75	75.4	73.2	74.3	75.2	77.9	85.5	
5	81.6	83.1	85.1	88.4	88.7	92.1	90.4	89	84.6	74.4	68.9	64.6	60.4	59.1	61.7	72	80.9	87.9	93.7	95	96.6	97.7	98.4	99.8	83.1	
6	101.1	101.6	102.9	104.9 ?	104.3	103.6	102.9	102.8	102.5	103.2	101.3	97	91.9	80.2	78	95.5	96.1	97.3	96.3	97.2	98	100.9	103.5	?	98.4	
7	?	?	?	?	?	?	?	?	?	99.8	85.3	75.4	71.5	70	73.2	71.4	72.8	81.1	92	99.3	101.9	102.9	104.3 ?	?	85.8 ?	
8	?	104.5	104.5	?	?	104.8 ?	?	?	?	104.1 ?	98.6	90.3	86.2	81	72.6	60.3	68.9	73.3	74.9	61.7	51.7	53.9	53.6	54.3	57.1	76.6 ?
9	57.1	58.3	57.7	57.9	59.1	60.5	62.5	64.5	61.2	55.1	49.4	44.7	42.7	40.6	38.6	37.7	39.6	46.5	49.4	51.5	53.6	57.6	60.4	63.4	52.9	
10	65.7	66.6	67.9	68.5	68	69.2	70.5	70.6	71	68.1	64.3	55.5	53.1	49.4	49.8	49.6	50.4	52.3	65.2	83.1	81.8	77.4	76.4	75.6	65.4	
11	81.9	88.2	93.9	95.5	95.7	95.7	96.2	99.2	102.9 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	94.3 ?
12	103.9 ?	103.5	102.2	101.5	100.4	102.2	101.5	97.7	91.6	82.1	76.2	72.3	70.3	64.3	61.2	61.8	62.3	66.9	69.8	68.8	67.6	69.1	70.8	70.8	80.8	
13	72.6	73.4	76.4	78	78.8	80.6	82.3	84.1	76.5	64.5	56.3	52	50.2	50.2	48	46.1	45.9	54.1	57.5	61.2	64	64.6	67	68.7	64.7	
14	76.6	78.3	80.9	81.9	83.4	85.5	90.7	90.4	82.1	76.3	71.1	65.8	59	55.7	51.8	50.2	50.4	70.4	84.9	84.8	88	90.6	91.8	96.1	76.5	
15	95.4	99	101.6	102.9	102	101.2	101.1	103.2	103.1	89.5	74.6	65.2	60.8	56.6	52.7	53.1	55	61	63.6	71.3	75.2	76.2	75	77.4	79.9	
16	77.9	78.8	80.6	84.5	87.7	90	89.9	88.3	82.3	73.1	67.3	63	58.5	57.5	58.8	61.4	68.2	85.1	98.3	103.7	?	?	?	?	77.7 ?	
17	?	?	104.8 ?	104.5	?	103.3 ?	101.1	101.9	101.1	98.3	94.6	91.4	90.8	92.2	97.1	101.2 ?	?	?	?	?	?	?	?	?	?	98.6 ?
18	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	104.3	104	104.7 ?	?	?	?	?	?	?	?	104.4 ?
19	?	?	?	?	?	?	?	?	?	?	104.1 ?	101.3	98.4	94.1	87.4	79	79	96	96.9	98.9	99.7	98.4	90.2	87.1	93.6 ?	
20	92.7	100.6	101.8	104	104.6	104.5	104	100.7	88.7	76.4	76.5	72.1	69.3	70.4	71	79.3	83.9	88.3	92.2	95.1	98.9	100.9	102.2	101.4	90.8	
21	103.4	104.7	?	104.2 ?	104.2	103.4	89.3	81.3	69	62	57.8	52.4	41.5	38.9	37.8	37.2	40.5	46.3	53.3	60.9	66.4	69.1	74.1	72.1	68.3	
22	72.5	71.7	70.7	66.6	71.3	74.3	77.7	80	79.8	78.8	75.8	71.7	71.1	73.1	72.3	74.2	74.6	75.5	79.2	79.7	81.6	81.3	81.2	82.9	75.7	
23	82.5	81.8	82	84.2	85.1	85.6	84.6	85.1	75.2	65.8	59	56.3	51.8	49.1	47.7	45.9	67	76.4	82.2	87	87.6	85.8	86.8	83.6	74.1	
24	82.1	80	83	82.5	82.5	83.7	85.8	85.7	80.1	77.6	73.9	74	72.8	72.9	70.8	71.5	74.2	83.1	89.2	93.8	97.5	100.6	102.2	102.9	83.4	
25	103.3	104.1	104.5	104.7 ?	?	?	?	?	?	?	?	?	104.2 ?	102.1	102.6	103.5	?	?	?	?	?	?	?	?	103.6 ?	
26	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	103.3 ?	100.9	99.9	100.5	100.6	99.8	98.3	99.3	100.3 ?	
27	99.3	99	94.4	95	101	103.3	103.5	101.6	97.2	94.2	90.7	88.5	89.3	90.9	90.4	88.2	88.8	94.1	98.9	99.6	100.1	100.6	101.1	102.9	96.4	
28	104	104.8 ?	?	?	?	?	?	?	?	100.1	88.6	84.2	83.1	82.2	77.4	74	76.1	76.7	83.2	86.6	90.1	93.3	99.3	103.6	88.7 ?	
29	?	?	?	?	?	?	?	?	?	99.5 ?	86.1	82.2	73.7	67.6	64.6	65.2	60.8	65.9	76.1	83.7	86.6	84	87.5	91	78.3 ?	
30	93.2	91.9	92	95	98.2	98.3	96.7	96.1	94.3	83.9	70.6	66.4	64.7	63.1	68.1	73.3	75.6	81.9	94.5	102.9 ?	?	102.7 ?	95	94.5	86.6	
31	96.5	97.8	97.3	98.3	99.7	100.5	99.2	96.9	97.8	93.5	93.8	96.4	98.8	99.4	99.6	99.8	100.4	101.6	101.5	101	101	101	101.8	102.9	99	
Avg	88.4	90	90.4	91.3	91.2	92.8	91.3	90.5	87.2	83.1	77.7	73.5	72.5	69.9	68.6	71.4	71.6	78.7	81.5	85.7	86	87.4	87.8	87.5	84.9 ?	
S D	13.4	14.1	13.9	14.1	13.7	12.9	11.6	11	13.1	14.7	15.2	15.7	18.3	18.3	19.1	20.8	19.1	17.9	16.5	16.2	15.5	15.3	14.5	14.1	13.1	
S/A	0.15	0.16	0.15	0.15	0.15	0.14	0.13	0.12	0.15	0.18	0.2	0.21	0.25	0.26	0.28	0.29	0.27	0.23	0.2	0.19	0.18	0.17	0.17	0.16	0.15	
Min	57.1	58.3	57.7	57.9	59.1	60.5	62.5	64.5	61.2	55.1	49.4	44.7	41.5	38.9	37.8	37.2	39.6	46.3	49.4	51.5	53.6	53.6	54.3	57.1	52.9	
Max	104	104.8	104.8	104.9	104.7	104.9	104	103.2	104.1	103.2	104.1	101.3	104.2	102.1	102.6	104.4	104	104.9	102.6	104.2	102.7	102.9	104.3	103.6	104.4	
n	284	292	265	262	254	254	248	252	256	287	305	312	324	336	336	343	317	319	312	316	300	308	302	287	7075	

Data Recovery: 0.0% missing; 0.0% untested; 20.8% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 2011

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	5.3	5.5	5.3	4.7	4.2	3.8	3.8	3.9	5.4	8.7	12.9	16.8	19.4	21.1	20.5	19.9	19.3	17.1	15.6	15.2	15.2	15.2	15.1	14.9	12
2	14.6	14.3	14.1	14.2	14.3	14.3	14.2	14.4	14.5	14.7	15.2	15.8	16.6	18.2	19.4	18.4	17.3	16.7	13.7	10.4	9.1	8.5	8.1	6.9	14.1
3	5.5	4.3	3	1.6	0.5	-0.3	-1.2	-1.6	0.1	3.2	5.7	7.5	8.6	9.1	9.5	9.4	8.5	5.3	1.2	-1.1	-2.7	-3.8	-4.4	-4.5	2.7
4	-4.6	-4.2	-3.8	-3.7	-3.8	-3.6	-2.8	-1.9	-1	0.6	2.9	4.5	5.6	7.8	9.3	10.4	9.7	8.2	6.1	4.7	4.2	4.1	3.8	3.5	2.3
5	3.2	3	2.8	2.3	1.6	0.7	0	-0.2	0.8	5	7.8	10.6	12.8	12.1	10	8.3	6.8	5.2	3.7	3.1	2.9	2.8	2.8	2.8	4.6
6	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.8	2.8	3.7	5.5	7.2	8.6	9.5	8.3	6.2	4.2	2.6	1.5	0.7	-0.1	-1	-1.8	3.4
7	-2.2	-1.9	-1.6	-1.3	-0.8	-0.7	-0.5	-0.3	0.1	1.3	4.8	9	10	9.3	8.5	7.9	8.2	5.9	3.2	1.8	0.8	0.2	0.3	0.4	2.6
8	0.5	0.8	0.9	0.9	1.1	1.4	0.2	-0.6	0.7	3.9	6.5	6.6	5.7	6.9	7.6	7.5	5.9	4.2	2.4	1	-0.5	-1.8	-2.8	-3.6	2.3
9	-4.4	-4.9	-5.3	-5.5	-5.9	-6.3	-6.7	-6.9	-5.3	-2	1.1	3.6	5.2	5.5	5.4	5.5	5.1	2.4	-0.4	-2	-3.3	-3.7	-3.9	-4.2	-1.5
10	-4.5	-4.8	-4.7	-4.4	-3.9	-3.4	-3	-2.8	-1.6	-0.6	-2.1	4.5	6.4	7.1	5.6	4.2	2.9	2	1.2	0.7	0.5	0.5	0.5	0.5	0.1
11	0.3	0.1	-0.2	-0.3	-0.2	-0.2	-0.1	0	0.2	0.4	0.6	1	1.6	2	2.1	1.9	1.6	1.2	1	0.8	0.6	0.4	0.3	0.3	0.6
12	0.4	0.4	0.5	0.5	0.5	0.1	-0.7	-1.2	-0.2	1.9	3.8	5	5.8	5.9	6	5.6	5	3.4	1.5	0.4	-0.1	-0.6	-1.1	-1.5	1.7
13	-1.8	-2.3	-2.7	-3.3	-3.9	-4.4	-4.8	-5.2	-3.4	0.4	3.4	5.3	6.8	7.5	7.3	7	6.7	4.5	1	-1.2	-2.5	-3.3	-3.5	-3.9	0.2
14	-4.4	-4.8	-4.8	-4.7	-4.8	-5.1	-6.1	-6.5	-4.5	-0.1	4	7.4	9	9.7	9.3	8.6	7.9	5	1.1	-0.9	-2	-2.7	-3	-3.6	0.2
15	-4	-4.2	-4.5	-4.3	-3.8	-3.2	-2.7	-2.3	-1.3	1.6	6	9.1	10.4	11.1	11.2	11	10.6	8.7	5.6	4	3.1	2.4	2.1	1.6	2.8
16	1.2	1	1	0.8	0.4	-0.2	-0.6	-0.5	1.6	6	9.7	12.2	13.9	14.7	14.6	13.4	11.1	7.8	4.7	2.9	2	1.6	1.3	1.1	5.1
17	1	0.8	0.7	0.7	0.9	1.2	1.7	2.1	2.7	4.5	6.8	8.9	10.1	10.3	9.4	8.5	7.2	6.4	6.1	6.2	6.5	7	7.7	8.5	5.2
18	9.1	9.4	9.6	9.8	9.8	8.7	7.4	6.3	5.4	5.2	5.2	5.7	5.9	6.1	6.3	6.5	6.5	6.1	5.5	5.2	5.1	5.1	5.1	5.1	6.7
19	5.1	5.3	5.6	5.8	6	6.2	6.4	6.5	6.6	6.8	7.6	9.2	11.2	13.4	15.1	15.7	15.9	13.8	11	9.3	8.4	7.7	7.5	6.9	8.9
20	6.3	5.6	4.8	3.9	3.1	3.1	3.1	3.2	4	7	8.4	9.3	10.6	10.5	10.5	9.7	8.2	6.4	4.9	4	3.5	3.5	4.3	5.7	6
21	6.9	7.7	8.5	9.2	9.3	9	8.5	7.1	6.6	8.3	9.9	11.3	12.1	12.1	11.7	11	10.1	7.8	4.2	1.9	0.2	-1.2	-1.2	-1.3	7.1
22	-1.9	-2.5	-3	-3.3	-3.5	-3.7	-4.1	-4.4	-4.3	-3.8	-2.7	-0.8	0.8	-0.2	-1.2	-1.8	-2.5	-3.1	-3.5	-3.8	-4	-4.4	-5.5	-6.6	-3.1
23	-7.4	-8.3	-8.9	-9.1	-9.3	-9.5	-9.5	-9	-6.4	-2.2	2.3	5.3	7.4	8.7	9.2	8.9	8	4.4	0.7	-1.4	-2.5	-3.1	-3.5	-4.1	-1.6
24	-4.5	-4.6	-4.9	-5	-5.1	-5.3	-5.5	-5.6	-3.2	-0.3	0.9	1.9	2.7	3.9	5.9	7.2	7.1	4.6	1.8	0	-0.8	-1	-0.9	-0.2	-0.5
25	0.9	1.9	2.9	3.5	3.4	2.9	2.9	3.1	3.4	4.9	5.8	6.1	7.1	9	10.2	10	9	8.1	7.7	7.4	7	6.7	6.4	6.4	5.7
26	7	8.1	9.1	9.7	10	10.1	9.7	9.3	8.9	9.1	9.9	10.8	11.3	11.1	10.7	10.5	10.3	10.1	9.4	8.3	6.5	4.7	3.5	3	8.8
27	2.7	3.1	3.5	3.1	2.1	1.3	1.6	2	3	6.5	9.4	9.6	8.7	8.4	7	6.6	7.1	5.7	2.7	0.9	0	-0.8	-1	-1.2	3.8
28	-1.2	-1	-0.8	-0.9	-1	-1	-0.6	0	0.9	2.4	6.3	9.2	10.2	10.5	11.5	13.1	12.4	10.8	8.2	7.1	6.1	4.7	3.6	2.4	4.7
29	1.1	0.3	-0.5	-1.3	-1.6	-1.9	-2.5	-3	-0.9	3.8	8.6	11.7	12.5	12.5	12.4	12.5	12.7	11.7	8.9	6.9	5.6	5	5.3	5.2	5.2
30	4.8	4.6	4.7	4.6	3.8	3.1	3.2	3.7	5.1	6.6	10.7	15.2	17.3	17.9	17.5	15.9	14.5	12	8.1	5.5	4.1	3.5	3.3	3.4	8.1
31	3.5	3.6	3.7	3.4	3.2	2.9	2.6	2.5	2.9	4	5.4	6.1	6	5.4	4.7	4.3	4	3.8	3.7	3.6	3.6	3.7	3.8	3.8	3.9
Avg	1.3	1.3	1.2	1.1	0.9	0.7	0.5	0.5	1.4	3.5	5.9	7.8	8.9	9.5	9.6	9.3	8.5	6.8	4.7	3.3	2.5	2	1.7	1.5	3.9
S D	4.9	5	5.1	5.2	5.2	5.2	5.1	5.1	4.5	4	4	4.2	4.4	4.5	4.6	4.5	4.3	4.2	4.2	4.3	4.4	4.4	4.6	4.7	3.9
S/A	3.64	3.99	4.22	4.7	5.51	7.02	9.74	10.69	3.24	1.12	0.68	0.54	0.49	0.48	0.48	0.48	0.52	0.64	0.9	1.26	1.72	2.25	2.67	3.17	1
Min	-7.4	-8.3	-8.9	-9.1	-9.3	-9.5	-9.5	-9	-6.4	-3.8	-2.7	-0.8	0.8	-0.2	-1.2	-1.8	-2.5	-3.1	-3.5	-3.8	-4	-4.4	-5.5	-6.6	-3.1
Max	14.6	14.3	14.1	14.2	14.3	14.3	14.2	14.4	14.5	14.7	15.2	16.8	19.4	21.1	20.5	19.9	19.3	17.1	15.6	15.2	15.2	15.2	15.1	14.9	14.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI 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

January 2011

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	1.9	1	0.3	0.1	0	0.4	0.6	0.3	0.7	1.8	2.4	2.6	2.7	3.1	2.7	2.5	1.6	2	2	2.7	3.3	2.8	2.7	2	1.8
2	2.3	3	1.8	2	1.9	2	1.9	1.5	1.1	1.1	1.4	1.4	1.6	2.1	2.2	1	0.7	2.5	4.5	3.9	3.2	2.5	2.4	2.6	2.1
3	2.8	2.9	1.9	2.2	2.1	1.4	1.9	1.9	3.4	3.4	4.1	3.6	3.2	2.3	1.8	1.7	1.5	0.2	0	0	0	0.1	0.2	0.1	1.8
4	0.6	0.8	0.4	0.3	0.2	0.5	1.3	1.4	1.7	1.7	1.8	2	2.7	2.6	3	2.8	1.2	0.8	0.9	1.2	2.1	1.9	1.7	2	1.5
5	2.1	2.2	1.9	2.2	1.4	1.2	1.3	1.3	1.5	1.8	1.9	1.5	1.1	1.1	1.4	2.1	1.6	1.1	1.2	0.8	0.7	0.7	0.2	0	1.3
6	0	0	0.3	0.2	0.2	0.3	0.4	0.6	2.3	0.5	0.7	0.4	1	1.4	1.3	2.5	2	1.8	0.9	0.1	0	0	0.1	0.2	0.7
7	0.8	1	0.4	1.3	1	1.2	1.5	0.9	1	2.4	3.4	3	2.5	1.9	2.1	1.7	0.8	0.5	1.8	1.4	0.9	1.7	1.7	1.2	1.5
8	0.9	0.2	0.2	0.8	1.7	1.4	1.1	1.6	2.3	2.1	2.5	4.6	4.5	4.6	4.7	4.3	3.9	2.6	3.7	4.2	3.3	3.2	3	2.5	2.7
9	2.8	2.7	3.3	3.1	3	2.8	2.7	2.5	3	3.5	3.9	3.5	3.9	4.1	3.3	3.2	2.7	1.5	1.6	0.5	1	1.7	1.3	1.8	2.6
10	1.1	0.6	0.8	1	1.6	2.1	1.8	2	1	1.1	1.4	1.5	1.8	1.3	0.9	0.5	0.3	0.2	1.3	1.5	0.8	0.5	0.6	1.2	1.1
11	1.2	0.9	1.2	1.9	1.8	2	2.5	3	2.7	2.6	2.7	2.9	2.9	2.3	3	2.3	2.4	2	1.3	3.1	3.7	3.2	4.5	5.5	2.6
12	5.3	4.9	4.4	4.2	4.1	3.3	3.3	3.7	4.7	5.9	7	6.4	5.8	5.8	5.1	5.6	4.9	3.9	3.5	4	3.8	3.6	3.2	3.7	4.6
13	3.2	2.9	2.4	2.1	1.6	1.7	1.6	1.4	1.7	3	3.8	3.6	3.1	3.2	3.4	2.4	2	1	0.3	0.3	0.2	0.7	0.6	0.5	2
14	0.7	0.4	0.8	1.3	1.3	0.4	0.3	0.7	0.9	1.7	1.1	1.3	1.2	1.3	1.3	0.8	0.2	1.2	1.5	1.1	0.8	0.2	0	0	0.8
15	0.1	0.1	0	0.1	0.3	0.1	0.4	0.8	1.4	2.1	2.5	3	3	3	3.1	3.3	1.8	1.2	1.6	2.2	2	2.8	1.5	1.2	1.6
16	1.3	1.6	1.3	1.2	0.6	0.6	0.9	1.1	0.8	1.2	1.7	2.4	2.7	2	2.6	3	2.7	2.4	1.7	1.7	1.3	1.3	1.1	1.4	1.6
17	1.6	1.7	2.2	2.1	2.3	2.7	2.6	2.7	3.2	3.2	3.6	3.6	3.5	3.2	3	3	2.8	3.2	3.1	3	2.6	2.2	2.4	1.6	2.7
18	1.2	1.4	0.5	0.4	1.4	2	1.5	2	2.3	3.2	2.3	2.5	2.8	2.5	2.3	2.5	2	2.1	1.6	1.1	1.9	2.7	1.3	0.9	1.9
19	1.1	0.8	1.1	1.1	2.5	2.5	1.6	1.3	1.6	2.4	2.8	2.7	2.4	1.9	1.5	1.5	0.5	1.1	0.8	0	0.3	1.4	1.1	0.9	1.5
20	1.2	0.9	0.6	0.2	0.2	0.1	0.7	1.6	2.3	3.5	2.8	2.6	1.8	2	2.8	3.3	2.6	1.8	1.5	1.4	1.7	1.9	2	1.6	1.7
21	2	1.9	3.2	3.7	4	4.1	4.3	3.7	4.6	4.2	4.3	3.6	3.9	3.6	3.4	3.2	2.7	1.3	1	1	0.3	2.1	3.4	3.4	3
22	2.7	2.6	2.6	3.4	3.4	3.7	4.1	3.8	3.8	4.3	4.1	4.3	4	4.1	3.8	4.1	4.2	4.5	4	3.4	3	2.5	1.5	1.6	3.5
23	1.7	1.7	1.4	1.2	1.4	1.6	1.9	2	2	1.8	2.9	3.2	3	2.5	2.8	2.1	2.8	2.9	2.3	1.8	1.7	1.8	1.3	1.1	2
24	1	0.9	1.3	1.3	1.3	1.3	1	1	2	2.4	2.2	2.3	2.4	3	2.4	2.3	1.9	2.2	1.2	1	1.2	1.4	1.1	1.2	1.6
25	1.1	1.5	0.6	0.3	0.8	0.4	0.1	0.3	0	0.2	0.3	0.1	0.1	0.1	0.4	0.3	0.5	1.9	1.2	1.1	0.9	2.4	2	2.5	0.8
26	3.6	4.2	3.4	2.6	2	1.9	1.5	1.7	2	1.9	1.3	0.8	0.5	0.4	0.4	2	4.6	5.7	6.3	6.3	5.6	4.8	4.6	4.2	3
27	3.7	3.5	3.5	2.2	1.3	1	1	1.2	1.1	1	0.7	0.5	0.9	2.2	2.7	2.7	2.4	2.6	2.3	2	1.3	1.6	1.2	0.8	1.8
28	1.2	0.8	1	0.7	0.6	0.4	0.6	0.4	1.3	2.4	2.8	3	2.7	1.8	1.8	2.8	2.1	1.4	1	0.7	1.1	1	1.7	1.2	1.4
29	0.6	0.6	0.2	0.6	0.8	0.3	0	0	0.2	0.5	0.8	2.1	2.5	3.5	3.4	3.2	3.3	2.8	2.5	2.5	2.1	3.2	3	2.3	1.7
30	1.9	2.3	1.5	1.6	0.6	0.2	1.2	1.4	2	2.1	2.3	2.2	2.4	2.7	2.8	3.4	3	2.5	2.3	2.6	3.1	2.9	2.9	3.1	2.2
31	3.2	3.6	4.2	4.1	4.3	3.9	3.8	3.7	4.2	4.4	4.7	4.9	5.2	5.8	5.3	4.9	4.4	4.2	3.5	3.1	3.1	3.5	3.4	3.2	4.1
Avg	1.8	1.7	1.6	1.6	1.6	1.5	1.6	1.7	2	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.3	2.1	2	1.9	1.8	2	1.9	1.8	2
S D	1.2	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.3	1.4	1.4	1.3	1.3	1.2	1.2	1.3	1.3	1.4	1.5	1.4	1.2	1.2	1.3	0.9
S/A	0.67	0.72	0.79	0.75	0.74	0.77	0.71	0.64	0.6	0.54	0.55	0.52	0.49	0.51	0.46	0.45	0.56	0.6	0.67	0.76	0.74	0.57	0.65	0.72	0.44
Min	0	0	0	0.1	0	0.1	0	0	0	0.2	0.3	0.1	0.1	0.1	0.4	0.3	0.2	0.2	0	0	0	0	0	0	0.7
Max	5.3	4.9	4.4	4.2	4.3	4.1	4.3	3.8	4.7	5.9	7	6.4	5.8	5.8	5.3	5.6	4.9	5.7	6.3	6.3	5.6	4.8	4.6	5.5	4.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

January 2011

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	198	197	200	193	203	149	135	159	150	164	167	169	170	190	190	175	166	157	163	174	175	179	172	168	174
2	162	189	204	182	190	181	179	174	179	169	174	177	181	184	192	195	214	327	328	335	328	337	335	326	232
3	321	322	317	319	318	302	314	316	332	340	349	355	337	345	321	333	339	15	30	188	162	63	111	146	332
4	153	156	157	148	181	152	158	173	184	178	181	193	203	205	204	232	222	206	194	204	228	228	229	226	201
5	233	248	262	265	267	269	280	284	301	332	34	64	91	91	122	135	114	107	102	96	123	135	122	62	224
6	5	115	39	11	339	336	349	314	332	28	82	327	320	316	4	49	44	41	33	25	325	0	151	152	12
7	147	149	170	186	167	179	191	197	226	247	274	293	298	282	260	259	268	63	101	97	70	89	101	112	227
8	113	131	197	208	260	287	249	252	252	243	238	255	252	270	280	296	293	291	291	290	289	284	281	281	273
9	280	284	278	279	284	277	279	276	293	288	288	295	291	287	293	292	288	274	278	277	260	257	272	267	283
10	277	290	305	323	326	320	327	330	335	307	320	347	347	304	295	282	302	310	41	55	47	26	16	34	335
11	32	29	4	13	1	8	15	34	30	15	27	25	21	5	351	329	332	350	332	270	274	265	258	260	340
12	263	261	258	256	253	244	250	247	256	263	265	265	260	263	273	266	265	262	260	265	265	270	271	269	262
13	268	268	269	275	275	277	284	274	294	304	318	309	305	286	285	294	290	290	285	257	266	261	265	269	288
14	322	349	319	327	325	319	291	292	303	326	0	300	339	276	325	290	322	76	95	83	76	116	153	157	335
15	152	117	152	152	157	153	193	164	164	183	186	192	188	194	186	188	182	184	186	194	192	197	201	218	188
16	204	212	210	213	220	223	243	251	268	329	8	59	64	68	79	93	76	67	61	58	62	52	44	34	69
17	30	24	39	36	31	38	37	34	37	43	53	53	55	54	47	44	33	34	31	34	29	34	50	51	41
18	327	16	50	296	282	284	290	291	290	289	291	284	273	268	263	268	260	266	271	242	237	243	229	216	274
19	197	188	190	200	228	232	247	215	229	243	257	261	246	244	264	267	262	174	194	204	201	249	280	284	238
20	346	3	357	339	340	39	4	27	36	47	53	67	57	93	84	95	95	77	68	82	109	127	141	159	73
21	165	186	226	236	253	267	290	289	292	289	292	285	287	296	292	285	288	298	288	280	279	353	24	30	285
22	23	24	15	8	16	15	359	3	2	9	20	27	29	35	18	357	346	357	339	347	325	315	295	287	4
23	286	286	286	280	274	270	263	257	256	249	257	270	299	314	301	307	51	52	46	45	51	42	14	20	308
24	354	352	15	8	13	353	3	354	27	43	45	55	59	81	85	90	69	69	46	57	40	49	23	22	45
25	26	39	8	19	293	299	199	151	264	288	209	205	249	110	78	42	83	93	56	55	62	94	87	71	66
26	74	74	70	61	44	25	11	359	338	343	329	343	259	198	237	235	234	248	254	263	274	285	280	276	289
27	286	286	291	278	274	253	236	258	281	284	23	41	52	78	69	64	76	67	65	66	66	73	74	101	15
28	115	127	143	156	149	153	156	160	152	159	181	186	190	216	210	226	260	276	252	272	315	349	10	344	199
29	302	300	266	274	268	304	0	272	300	279	131	152	166	172	162	150	180	182	159	157	174	189	188	182	175
30	184	194	230	295	320	314	327	22	65	71	72	76	63	62	74	74	65	66	61	44	46	43	48	56	60
31	43	41	41	44	44	43	35	32	37	41	39	34	29	28	29	28	23	26	3	352	13	359	349	337	27
Avg	285	289	295	296	298	299	305	310	318	316	322	317	310	298	305	305	327	7	344	325	306	298	308	301	306
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

January 2011

Peak Wind Speed (1-Minute Gust)
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	2.9	2.1	0.9	0.6	0.3	0.8	1.2	0.9	1.6	3.1	4.1	4.4	4.6	5.2	4.5	4.8	3.2	3.4	3.5	4.6	5.6	4.7	4.9	3.7	3.2
2	4.2	5.4	3.4	3.3	3.2	3.5	3.5	2.9	2.4	2.4	2.8	2.6	3.2	4	3.8	2.2	1.8	4.9	8.3	7.6	5.8	4.6	4.6	5.2	4
3	5.3	5.3	4	4.2	3.8	3.1	3.7	3.5	5.6	5.8	7	6.5	5.9	4.2	4	3.6	2.7	0.5	0.1	0.2	0.1	0.3	0.6	0.4	3.4
4	1	1.3	1	0.8	0.6	1.2	2.3	2.4	2.8	3.3	3.5	3.8	4.9	4.9	5.3	4.9	2.5	1.7	1.7	2.6	3.5	3.2	3.1	3.5	2.7
5	3.9	4	3.4	3.7	2.9	2.2	2.6	2.6	3	3.4	3.6	3	2.4	2.2	2.4	3.6	3	2.2	2.1	1.8	1.5	1.5	0.7	0	2.6
6	0	0.2	0.7	0.5	0.8	1	1.1	1.6	4.2	1.6	1.6	1.3	2.7	3	2.9	4.2	3.7	3	1.9	0.3	0	0	0.2	0.6	1.5
7	1.4	1.8	1.1	2.5	2.3	2.4	2.6	2.2	2.3	4.1	6.4	6.3	4.8	4	3.7	3.2	1.9	0.9	2.9	2.4	1.5	2.6	2.6	2.1	2.8
8	1.6	0.7	1	1.7	3	3.1	1.7	3.1	3.9	3.7	4.3	8	7.7	9	9	8.4	8.5	5.6	7.6	8.6	7.4	7	6.3	5.2	5.3
9	5.9	5.8	6.7	6.1	6.2	5.9	5.4	5.1	6.7	7	7.6	7.6	7.8	8.3	6.7	6.5	6.2	3.6	3.4	1.6	1.8	2.8	2.4	3.1	5.4
10	2.4	1.7	2	2.3	3.2	4.1	3.9	3.8	2.2	2.7	3.1	3.3	3.8	3.4	2.5	1.7	1.1	0.6	2.5	2.9	1.9	1.4	1.5	2.3	2.5
11	2.5	2	2.4	3.7	3.5	3.8	4.8	5.5	4.8	5.1	5	5.5	5	4.3	5.2	4.3	4.9	3.9	3	5.8	7	5.9	7.9	9.5	4.8
12	9.4	8.4	7.6	7.3	7.2	5.9	6	6.4	7.9	10.4	12.3	11.8	10.8	10.6	10.3	10.3	9	7.2	5.7	7.1	6.6	6.5	6.2	6.5	8.2
13	5.5	5.5	4.3	4.2	3.6	3.5	3.2	2.9	4.1	6.4	7.7	6.9	6.5	6.5	6.6	5.2	4.3	2.3	0.9	0.9	0.6	1.3	1.3	1.2	4
14	1.6	1	1.6	2.4	2.2	0.9	1.1	1.8	2.3	3.3	2.5	3	3.1	2.9	3.1	2	0.6	2.2	2.4	2	1.5	0.6	0.2	0.2	1.9
15	0.5	0.4	0.2	0.6	1.3	0.6	1.3	1.8	2.7	3.7	4.3	5	5	5.3	5.3	5.5	3.2	2.4	2.8	3.6	3.1	4.4	2.9	2.7	2.9
16	2.9	3.3	2.7	2.4	1.7	1.7	1.8	1.9	2	2.9	3.2	4	4.3	3.6	4.5	5.1	4.3	3.9	3.1	3.1	2.6	2.2	1.9	2.1	3
17	2.6	2.7	3.3	3.1	3.5	4.5	4.2	4.4	5	5.4	6.1	6.2	5.9	5.7	5.5	5.2	4.7	5.1	5	5.3	4.6	3.9	4.3	3.3	4.6
18	2.4	2.9	1.5	1.4	3.4	4.3	3.8	4.4	5	6.3	5.4	5.3	6.1	5.1	4.9	4.8	4.2	4.2	3.5	2.4	3.4	4.7	2.9	2.4	3.9
19	2.6	2	2.4	2.6	4.5	4.5	3.1	2.9	3.4	4.5	5	4.9	4.5	3.9	3.3	3.6	1.6	2.1	1.8	0.1	0.9	2.6	2.7	2.3	3
20	2.6	2	1.5	1	0.6	0.2	1.4	2.8	4	6	5.2	4.3	3.4	3.2	4.6	5.2	4.1	3.2	2.4	2.3	2.8	3.1	3.1	2.9	3
21	3.3	3.3	5.6	6.1	6.8	7.6	8.6	8.3	8.8	8.8	8.4	6.8	7.8	7.7	7.4	6.6	5.7	2.9	2.1	1.8	0.8	4	5.9	5.9	5.9
22	4.7	4.6	4.8	6	6.2	6.4	6.8	6.6	6.7	7	7.5	7.3	6.6	6.6	6.6	7.1	7	7.6	7.4	6.1	6	5	3.3	3.3	6.1
23	3.3	3.4	2.8	2.4	2.5	2.9	3	3	3.4	3.2	5.9	6.3	6.2	5.3	5.6	4.4	4.6	4.8	4	2.8	3.1	2.8	2.4	2.1	3.8
24	1.9	1.7	2.4	2.4	2.5	2.2	1.8	1.9	3.4	4.1	3.6	3.9	3.9	4.8	4.2	3.9	3.2	3.4	1.8	1.4	1.8	2.2	1.6	1.8	2.7
25	1.9	2.4	1.2	0.8	1.8	1.3	0.4	0.7	0.2	1	1	0.6	0.4	0.4	1.1	0.9	1	3.3	2.1	2.2	1.9	3.8	3.4	4.4	1.6
26	5.7	6.6	6.2	4.3	3.8	3.5	3	3.1	3.4	3.4	2.7	1.8	1.5	1.3	1.1	4	8.5	9.9	11.5	11.3	11	10	9.2	8.2	5.6
27	7.4	7.7	7.1	4.6	2.8	1.9	2.2	2.6	2.8	2.8	2	1.4	2	3.8	4.1	4.3	3.9	4.2	3.8	3.3	2.2	2.4	2	1.6	3.5
28	1.8	1.4	1.7	1.2	1.2	1	1.8	1.5	2.5	3.9	4.9	4.8	4.8	3.1	3.3	4.8	3.9	2.8	1.5	1.3	1.8	1.6	2.9	1.9	2.6
29	1.3	1.3	0.6	1.3	1.4	0.9	0	0.1	0.9	1.5	1.8	3.7	4.5	5.8	5.4	5.1	5.3	4.6	3.9	4	3.5	4.9	4.6	3.8	2.9
30	3.1	3.5	2.6	2.7	1.2	0.6	1.8	2.4	3.4	3.7	4	3.8	4	4.6	4.7	5.2	4.5	4	4	4	5	4.8	5.1	5.5	3.7
31	5.3	5.6	7.1	6.7	6.8	6.3	6.1	6.4	6.8	7.4	7.5	8.5	8.7	9.9	8.8	8.2	7.9	7.2	6.3	5.3	5.8	6.1	5.6	5.4	6.9
Avg	3.3	3.2	3	3	3.1	3	3	3.2	3.8	4.5	4.8	4.9	4.9	4.9	4.8	4.8	4.2	3.8	3.7	3.5	3.4	3.6	3.4	3.3	3.8
SD	2.1	2.2	2.2	1.9	1.9	2	2	1.9	2	2.2	2.4	2.4	2.2	2.3	2.1	2	2.2	2.1	2.4	2.6	2.5	2.2	2.2	2.3	1.6
S/A	0.64	0.67	0.71	0.65	0.63	0.68	0.65	0.59	0.52	0.49	0.5	0.49	0.45	0.47	0.44	0.41	0.53	0.55	0.67	0.74	0.74	0.61	0.64	0.68	0.42
Min	0	0.2	0.2	0.5	0.3	0.2	0	0.1	0.2	1	1	0.6	0.4	0.4	1.1	0.9	0.6	0.5	0.1	0.1	0	0	0.2	0	1.5
Max	9.4	8.4	7.6	7.3	7.2	7.6	8.6	8.3	8.8	10.4	12.3	11.8	10.8	10.6	10.3	10.3	9	9.9	11.5	11.3	11	10	9.2	9.5	8.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 2011

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	1021	1021	1021	1021	1021	1020	1020	1021	1022	1022	1022	1021	1020	1019	1018	1018	1018	1018	1019	1019	1019	1018	1017	1017	1020	
2	1016	1015	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1013	1012	1010	1010	1009	1009	1010	1012	1013	1014	1015	1016	1017	1014
3	1017	1018	1018	1019	1019	1020	1021	1022	1023	1024	1024	1024	1023	1023	1023	1022	1022	1022	1023	1023	1023	1023	1022	1022	1022	
4	1022	1022	1021	1021	1020	1020	1019	1020	1020	1019	1019	1017	1016	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1016	
5	1011	1011	1012	1012	1012	1012	1013	1013	1014	1014	1014	1013	1012	1011	1011	1010	1010	1009	1009	1009	1008	1008	1008	1007	1011	
6	1006	1005	1005	1004	1003	1003	1004	1004	1005	1005	1004	1003	1002	1002	1001	1002	1002	1001	1002	1002	1001	1001	1001	1000	1003	
7	999	998	998	998	997	997	997	997	997	997	997	996	995	995	995	995	995	995	995	996	996	995	995	994	996	
8	994	993	993	993	993	994	994	995	996	996	996	996	995	995	995	997	998	1000	1002	1003	1004	1006	1007	1008	998	
9	1009	1010	1011	1012	1013	1014	1016	1017	1018	1019	1019	1019	1018	1018	1019	1020	1021	1022	1022	1023	1024	1024	1024	1025	1018	
10	1025	1025	1024	1025	1024	1025	1025	1025	1026	1027	1027	1026	1024	1024	1024	1024	1024	1024	1024	1024	1023	1023	1023	1023	1025	
11	1022	1022	1023	1022	1022	1021	1020	1020	1020	1020	1019	1018	1017	1016	1015	1015	1014	1013	1012	1011	1012	1011	1011	1011	1017	
12	1011	1011	1011	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012	1011	1012	1012	1013	1014	1014	1015	1016	1017	1017	1018	1013	
13	1018	1019	1020	1020	1021	1021	1022	1023	1024	1025	1025	1024	1024	1023	1023	1024	1024	1025	1025	1026	1026	1026	1026	1026	1023	
14	1026	1027	1027	1027	1027	1027	1027	1028	1029	1029	1029	1028	1027	1027	1026	1026	1027	1027	1027	1027	1027	1027	1027	1026	1027	
15	1025	1025	1025	1025	1024	1024	1024	1024	1024	1023	1023	1022	1020	1019	1018	1017	1017	1017	1017	1016	1016	1016	1016	1015	1020	
16	1015	1015	1015	1015	1015	1015	1016	1017	1018	1019	1019	1018	1018	1018	1017	1018	1018	1019	1019	1019	1020	1020	1020	1020	1018	
17	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020	1019	1018	1018	1018	1017	1017	1016	1015	1014	1014	1013	1018	
18	1010	1009	1008	1007	1006	1006	1006	1006	1007	1007	1007	1007	1006	1006	1006	1006	1007	1007	1007	1007	1007	1008	1007	1006	1007	
19	1007	1006	1006	1006	1006	1007	1006	1007	1007	1008	1008	1007	1007	1006	1007	1008	1008	1009	1010	1010	1011	1012	1013	1013	1008	
20	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1019	1018	1017	1016	1015	1013	1013	1012	1012	1010	1009	1008	1006	1004	1014	
21	1003	1002	1002	1001	1000	1001	1002	1004	1005	1006	1007	1007	1006	1006	1006	1007	1008	1009	1010	1011	1011	1011	1012	1012	1006	
22	1012	1013	1013	1013	1013	1013	1013	1013	1014	1013	1013	1012	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1012	1012	1012	
23	1013	1013	1013	1013	1014	1014	1015	1016	1017	1018	1018	1018	1017	1017	1017	1018	1019	1020	1022	1023	1024	1024	1025	1025	1018	
24	1026	1026	1026	1027	1027	1027	1028	1029	1029	1029	1030	1029	1028	1027	1027	1027	1027	1026	1026	1026	1026	1025	1025	1024	1027	
25	1023	1023	1022	1021	1021	1021	1021	1021	1021	1021	1021	1020	1019	1018	1017	1017	1017	1017	1017	1017	1016	1015	1015	1014	1019	
26	1011	1009	1008	1007	1005	1004	1004	1003	1002	1002	1001	1000	999	997	996	995	995	995	996	997	1000	1002	1004	1005	1001	
27	1006	1007	1008	1009	1010	1011	1012	1013	1013	1014	1014	1013	1012	1012	1012	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	
28	1011	1010	1010	1010	1009	1009	1009	1010	1009	1009	1009	1008	1007	1006	1006	1006	1006	1007	1008	1009	1010	1011	1011	1012	1009	
29	1012	1013	1013	1013	1014	1015	1015	1016	1017	1017	1017	1017	1017	1015	1014	1013	1012	1012	1012	1013	1013	1013	1014	1014	1014	
30	1013	1013	1014	1015	1015	1015	1016	1017	1018	1018	1019	1019	1018	1018	1017	1017	1017	1018	1019	1020	1020	1021	1021	1021	1017	
31	1022	1023	1022	1023	1023	1023	1024	1025	1026	1026	1026	1026	1025	1025	1025	1024	1024	1024	1025	1025	1024	1024	1024	1024	1024	
Avg	1014	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1015	1014	1014	1013	1013	1013	1014	1014	1014	1014	1015	1015	1014	1014	
S/D	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	
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	994	993	993	993	993	994	994	995	996	996	996	996	995	995	995	995	995	995	995	996	996	995	995	994	996	
Max	1026	1027	1027	1027	1027	1027	1028	1029	1029	1029	1030	1029	1028	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1026	1027	
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

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

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

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

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

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

January 2011

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	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.2	13.8	13.7	13.6	13.4	13.4	13.4	13.4	13.1	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13.1
2	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	12.9	13	13.2	13.4	13.1	12.9	12.8	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.8
3	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.3	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.6	13	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.1
4	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.8	13.7	13.8	13.8	13.7	13.7	13.2	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13
5	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.9	13.8	13.7	13.6	13.6	13.7	13.7	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13.1
6	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.8	13.8	13.7	13.7	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13
7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.7	13.7	13.9	13.8	13.7	13.7	13.7	13.8	13.8	13.4	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.3	13.9	13.8	13.8	13.4	13.8	13.8	13.8	13.6	13.4	12.9	12.9	12.8	12.8	12.8	12.7	12.7	13.1
9	12.7	12.7	12.7	12.6	12.6	12.6	12.5	13.4	14.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.7	12.9	12.9	12.8	12.8	12.8	12.7	12.7	13.2
10	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	12.7	13.1	13.1	13	12.8	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.6
11	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.1	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.7	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
12	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.5	14	13.9	13.8	13.8	13.8	13.7	13.8	13.8	13.8	13	12.9	12.8	12.8	12.8	12.8	12.7	13.2
13	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.4	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13	12.9	12.8	12.8	12.8	12.8	12.7	13.2
14	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.4	14	13.9	13.8	13.7	13.7	13.7	13.7	13.6	13.6	13.7	13.7	13	12.9	12.8	12.8	12.7	13.2
15	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.5	13.9	13.8	13.7	13.7	13.6	13.6	13.7	13.7	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
16	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.9	13.7	13.7	13.6	13.6	13.5	13.6	13.6	13.4	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
17	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.8	13.8	13.7	13.7	13.3	13	12.9	12.9	12.9	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	12.8	13.1	13.4	13.6	13.5	13.6	13.5	13.4	13	12.9	12.9	12.8	12.8	12.8	12.7	12.7	13
19	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.6	13.7	13.6	13.5	13.5	13.5	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	13
20	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
21	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.7	13.7	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
22	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.2	14.1	14	14	13.9	13.9	13.8	13	12.9	12.8	12.8	12.7	12.7	12.6	12.6	12.6	13
23	12.5	12.5	12.5	12.5	12.5	12.4	12.4	13.5	14.1	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13	12.9	12.8	12.8	12.8	12.8	12.7	13.1
24	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.4	14	14	14	13.9	13.9	13.9	13.8	13.8	13.5	13	12.9	12.9	12.8	12.8	12.8	12.8	13.2
25	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1	13.1	13	13.1	13.5	13.5	13.3	13	12.9	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.9
26	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13	13.3	13.4	13.1	13.1	13	13.1	12.9	12.8	12.8	12.7	12.6	12.6	12.6	12.6	12.8
27	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.8	13.7	13.6	13.4	13.7	13.5	13.6	13.8	13.7	13	12.9	12.8	12.8	12.8	12.8	12.8	13
28	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.6	13.9	13.7	13.7	13.7	13.7	13.6	13.6	13.5	13	12.9	12.9	12.9	12.8	12.8	12.8	13.1
29	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.4	14	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
30	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.4	13.5	13.8	13.6	13.5	13.4	13.4	13.5	13.5	13.6	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13.1
31	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.4	13.7	13.7	13.6	13.4	13.2	13.3	13.2	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
Avg	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13	13.5	13.6	13.6	13.6	13.6	13.6	13.5	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.5	12.5	12.6	12.7	13	13.1	13	12.8	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
Max	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.5	14.1	14.1	14	14	13.9	13.9	13.8	13.8	13.8	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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.