

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Elizabeth City State Univ. - September 2000**

Field: GHI

Hour Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	3	82	182	431	632	178	161	744	635 ?	243	144	305	169	21	0	0 ?	?	0 ?	0	3929 ?	
2	0	0	0	0	0	6	84	219	197	432	534	456	500	? 376 ?	450	300	33	13 ?	0 ?	0	0	0	0	0	3602 ?	
3	0	0	0	0	0	3	49	207	171	143	311	735	685	804	616	325	70	52	5	0	0	0	0	0	4176	
4	0	0	0	0	0	1	41	124	207	269	171	281	416	181	233	116	59	27	2	0	0	0	0	0	2130	
5	0	0	0	0	0	0	18	25	43	46	81	48	108	134	73	100	70	33	1	0	0	0	0	0	780	
6	0	0	0	0	0	0	17	75	186	187	218	253	245	171	152	135	76	32	1	0	0	0	0	0	1748	
7	0	0	0	0	0	3	79	225	433	587	658	743	884	803	689	509	305	101	3	0	0	0	0	0	6022	
8	0	0	0	0	0	2	95	274	496	696	629	795	797	673	633	462	315	56	1	0	0	0	0	0	5926	
9	0	0	0	0	0	6	121	212	330	662	783	901	753	506	663	486	289	88	1	0	0	0	0	0	5802	
10	0	0	0	0	0	3	89	268	467	635	726	849	850	778	653	473	273	85	1	0	0	0	0	0	6151	
11	0	0	0	0	0	3	96	281	455	659	701	843	913	801	630	449	247	76	1	0	0	0	0	0	6155	
12	0	0	0	0	0	2	68	288	476	600	767	696	592	777	527	284	214	78	1	0	0	0	0	0	5369	
13	0	0	0	0	0	2	65	240	419	505	526	403	335	618	615	252	167	60	0	0	0	0	0	0	4208	
14	0	0	0	0	0	0	28	94	318	350	424	612	455	163	420	411	227	39	0	0	0	0	0	0	3543	
15	0	0	0	0	0	1	53	229	334	499	591	585	468	429	260	236	97	37	0	0	0	0	0	0	3817	
16	0	0	0	0	0	1	86	288	496	664	795	800	678	752	693	455	268	80	0	0	0	0	0	0	6055	
17	0	0	0	0	0	0	54	146	322	424	473	629	596	495	474	284	192	49	0	0	0	0	0	0	4139	
18	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Avg	0	0	0	0	0	2	66	199	340	470	504	576	589	545	468	328	204	64	3	0	0	0	0	0	4086	
S D	0	0	0	0	0	2	28	78	133	199	229	255	224	248	201	141	93	34	6	0	0	0	0	0	1852	
S/A	0	0	0	0	0	0.84	0.43	0.39	0.39	0.42	0.45	0.44	0.38	0.46	0.43	0.43	0.45	0.54	1.81	0	0	0	0	0	0.45	
Min	0	0	0	0	0	0	17	25	43	46	81	48	108	134	73	100	59	27	0	0	0	0	0	0	0	
Max	0	0	0	0	0	6	121	288	496	696	795	901	913	804	693	509	315	169	21	0	0	0	0	0	6155	

Daylight Data Recovery: 42% missing; 1% exceed the 15% QC threshold -- 4483 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: EC  
Latitude: 36.30° N  
Longitude: 76.25° W  
Elevation: 4 Meters AMSL  
Time Zone: -5

Instrument: PSP  
Calibration Constant: 9.83 uV/Wm-2  
Serial Number: 25823F3  
Calibration Date: 5/20/1998



**Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Elizabeth City State Univ. - September 2000**

Field: DHI

Hour Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	3	68	139	282	327	148	140	434	454 ?	193	127	241	134	15	0	0 ?	?	?	0 ?	2705 ?	
2	0	0	0	0	0	6	74	187	162	259	348	408	441	?	245 ?	248	150	30	4	0 ?	0 ?	0 ?	0	0	2563 ?	
3	0	0	0	0	0	3	43	188	153	124	275	458	358	293	267	169	60	52	5	0	0	0	0	0	2449	
4	0	0	0	0	0	1	37	111	183	242	152	243	362	165	205	104	53	24	2	0	0	0	0	0	1885	
5	0	0	0	0	0	0	17	23	39	41	71	43	96	118	66	89	62	29	1	0	0	0	0	0	695	
6	0	0	0	0	0	0	16	66	163	170	203	231	213	151	135	119	68	28	1	0	0	0	0	0	1563	
7	0	0	0	0	0	2	59	148	282	324	317	379	310	129	167	82	61	36	3	0	0	0	0	0	2300	
8	0	0	0	0	0	2	44	83	72	100	221	274	347	171	133	132	62	22	1	0	0	0	0	0	1665	
9	0	0	0	0	0	5	82	166	194	117	128	158	223	257	119	102	54	29	1	0	0	0	0	0	1636	
10	0	0	0	0	0	2	38	68	81	110	189	146	82	69	59	63	58	26	1	0	0	0	0	0	991	
11	0	0	0	0	0	2	38	72	101	135	233	252	195	193	150	128	103	43	1	0	0	0	0	0	1646	
12	0	0	0	0	0	2	37	64	69	148	102	121	187	92	161	117	72	33	1	0	0	0	0	0	1207	
13	0	0	0	0	0	2	60	130	213	249	358	353	298	277	244	186	122	46	0	0	0	0	0	0	2537	
14	0	0	0	0	0	0	25	83	260	305	370	360	362	146	243	159	101	30	0	0	0	0	0	0	2446	
15	0	0	0	0	0	1	46	135	237	325	312	359	287	281	220	192	87	32	0	0	0	0	0	0	2512	
16	0	0	0	0	0	1	23	44	55	64	79	127	171	142	109	94	67	31	0	0	0	0	0	0	1006	
17	0	0	0	0	0	0	29	118	246	330	388	416	391	409	339	247	140	31	0	0	0	0	0	0	3084	
18	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Avg	0	0	0	0	0	2	43	107	164	198	229	263	280	209	180	139	92	39	2	0	0	0	0	0	1827	
S D	0	0	0	0	0	2	19	48	80	98	103	122	107	107	73	53	48	25	3	0	0	0	0	0	796	
S/A	0	0	0	0	0	0.81	0.44	0.45	0.49	0.5	0.45	0.46	0.38	0.51	0.4	0.38	0.52	0.65	1.63	0	0	0	0	0	0.44	
Min	0	0	0	0	0	0	16	23	39	41	71	43	82	69	59	63	53	22	0	0	0	0	0	0	0	
Max	0	0	0	0	0	6	82	188	282	330	388	458	441	454	339	248	241	134	15	0	0	0	0	0	3084	

Daylight Data Recovery: 31% missing; 1% exceed the 15% QC threshold -- 9522 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: EC  
Latitude: 36.30° N  
Longitude: 76.25° W  
Elevation: 4 Meters AMSL  
Time Zone: -5

Instrument: PSP  
Calibration Constant: 9.07 uV/Wm-2  
Serial Number: 25819F3  
Calibration Date: 5/20/1998

1	25	25	25	25	25	24	25	25	27	28	27	27	27 ?	?	?	?	?	?	27	27 ?	?	?	25 ?	25	18 ?	
2	25	25	25	25	25	25	25	26	27	27 ?	29 ?	29 ?	?	?	28 ?	28 ?	29 ?	28	27	27	26	26	25	25	24 ?	
3	25	25	25	25	25	25	25	26	27	27	27	27	29	30	?	29 ?	26	25	25	25	25	25	25	25	25	
4	25 ?	24	23	23	23	24	24	24	25	26	25	25	27	27	26	26	23	23	23	23	23	23	23	23	24	
5	23	23	23	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	20	20	20	20	22	
6	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	21	21	21	20	21	20	20	21	21	
7	20	20	20	19	19	19	19	20	22	23	24	24	24	24	24	24	24	23	21	20	19	19	19	21	21	
8	19	19	19	18	18	18	19	21	23	25	26	26	27	27	27	27	26	25	23	22	22	21	20	20	22	
9	20	20	20	20	19	19	20	22	24	26	27	27	27	27	27	27	26	25	24	23	22	22	21	20	23	
10	19	19	18	18	18	18	19	22	24	26	26	27	27	27	27	28	28	27	25	24	23	22	22	21	23	
11	21	20	20	20	20	20	21	23	25	26	27	28	28	28	28	27	27	26	25	24	23	23	22	22	24	
12	22	22	22	22	21	20	21	23	25	27	28	28	28	28	29	29	28	28	27	26	25	24	24	23	25	
13	23	22	22	22	22	21	21	22	25	27	28	28	28	28	29	31	30	29	28	26	25	23	23	22	25	
14	22	22	22	22	22	22	22	23	25	26	26	27	28	25	25	27	27	26	25	25	24	24	24	24	24	
15	24	24	24	24	23	23	23	24	25	26	27	27	27	26	25	24	24	23	22	22	20	19	18	24	24	
16	17	16	15	14	13	12	12	14	17	18	19	19	20	20	21	21	21	20	18	16	15	15	15	14	17	
17	14	13	13	13	13	13	13	15	17	19	20	21	21	22	21	21	21	20	18	17	16	15	15	17	17	
18	15	15	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

	21	21	21	21	21		21	22	24	25	25	26		26	26	26	25	24	23	22	22	21		3
S/A	0.15	0.16	0.16	0.16	0.17	0.18	0.18	0.14	0.12	0.12	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.1	0.11	0.13	0.13	0.14	0.14	0.15
Min	14	13	13	13	13	12	12	14	17	18	19	19	20	20	21	21	21	20	18	16	15	15	15	14
Max	25	25	25	25	25	25	25	26	27	28	29	29	29	30	31	30	29	28	27	27	26	26	25	

1	?	?	?	?	?	?	?	?	?	96	91	92	95	92	89	93	93	93	89	93	96	99	?	?	?	50	?															
2	?	?	?	?	?	?	?	?	99	?	97	94	83	85	84	80	83	84	89	93	96	98	100	?	?	?	56	?														
3	?	?	?	?	?	?	?	?	99	?	97	99	?	97	90	82	75	73	76	94	96	99	?	?	99	?	61	?														
4	100	?	?	?	?	?	?	?	100	?	99	96	96	?	98	93	91	96	96	99	?	?	?	?	?	99	?	44	?													
5	?	?	?	?	99	?	100	?	?	99	?	98	98	97	98	97	98	98	96	94	?	93	?	92	?	91	?	90	?	90	?	91	?	75	?							
6	84	82	81	80	81	80	83	82	81	81	80	79	77	79	79	79	79	80	81	82	83	83	84	85	87	87	81	81	84	84	85	87	81	81	84	84	85	87	81			
7	89	91	93	95	97	98	98	93	84	78	75	73	70	70	69	69	69	71	77	84	89	94	97	99	84	89	84	89	94	97	99	84	84	89	94	97	99	84				
8	99	100	?	?	?	?	?	?	98	?	89	72	66	65	62	59	55	56	64	70	76	85	92	96	98	100	62	?	?	?	?	?	?	?	?	?	62	?				
9	100	100	?	?	?	?	?	?	95	87	67	59	57	59	61	60	61	62	64	71	77	79	82	87	87	92	59	?	?	?	?	?	?	?	?	?	59	?				
10	94	95	98	99	100	?	?	97	88	77	69	67	66	63	59	58	60	67	75	84	91	96	97	96	98	79	?	?	?	?	?	?	?	?	?	?	79	?				
11	99	?	?	?	?	?	?	100	?	96	91	78	73	71	73	72	74	75	78	86	94	98	100	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	57	?		
12	?	?	?	?	?	?	?	?	97	?	89	82	74	68	68	62	70	74	74	81	89	94	97	99	99	100	?	?	?	?	?	?	?	?	?	?	?	?	59	?		
13	?	?	?	?	?	?	?	?	?	?	94	?	86	77	77	75	70	63	67	72	77	87	95	99	?	97	?	98	?	?	?	?	?	?	?	?	?	?	?	55	?	
14	98	99	100	?	100	?	?	99	?	97	96	94	91	84	81	88	97	88	79	89	95	98	99	100	?	?	?	?	?	?	?	?	?	?	?	?	?	?	82	?		
15	?	?	?	?	?	?	?	100	?	97	94	86	75	71	72	73	71	72	72	73	79	83	78	87	84	63	59	?	?	?	?	?	?	?	?	?	?	?	59	?		
16	63	73	78	78	79	87	92	79	68	60	56	53	52	50	48	47	47	47	53	66	77	85	88	89	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69		
17	86	90	91	92	95	96	95	88	80	69	64	49	48	48	48	51	53	56	61	72	82	90	92	95	98	77	77	77	77	77	77	77	77	77	77	77	77	77	77			
18	98	95	91	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Avg	92	92	90	91	92	93	95	94	89	82	78	75	73	72	73	73	75	78	84	89	92	93	93	93	93	62	62	62	62	62	62	62	62	62	62	62	62	62	62			
S/D	11	8	8	9	8	7	5	6	8	12	13	15	14	14	16	14	14	14	12	9	7	7	6	6	10	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
S/A	0.12	0.09	0.08	0.1	0.09	0.08	0.06	0.07	0.09	0.14	0.17	0.19	0.19	0.19	0.22	0.2	0.18	0.15	0.11	0.08	0.08	0.06	0.06	0.11	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27		
Min	63	73	78	78	79	80	83	79	68	60	56	49	48	48	48	47	47	53	66	77	78	82	84	63	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Max	100	100	100	100	100	100	100	100	99	99	97	98	97	98	98	96	99	96	96	99	99	100	100	99	100	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84		

Data Recovery: 43% missing; 15% failed QC -- 8640 total 5-minute measurements.

Station: EC  
Latitude: 36.30° N  
Longitude: 76.25° W  
4 Meters AMSL  
-5

Instrument: HMP  
Calibration Constant: 1.00 %/mV  
Serial Number: P0520031 H  
Calibration Date: 6/1/1995

1	24	24	24	24	24	24	24	24	26	28	30	30	28	27 ?	?	?	?	?	28	27 ?	?	?	25 ?	24	18 ?	
2	24	24	24	24	24	24	24	24	25	27	28 ?	32 ?	32 ?	?	?	32 ?	30 ?	31 ?	29	28	27	26	25	25	24	25 ?
3	24	24	24	24	24	24	24	25	26	27	27	27	27	30	32	?	32 ?	28	25	25	24	24	24	24	24	25
4	24 ?	24	23	22	23	23	23	23	23	25	26	26	25	27	27	27	26	24	23	23	23	22	22	22	22	24
5	22	22	22	22	22	22	21	21	21	22	22	21	21	20	20	20	21	21	21	20	20	20	20	20	20	21
6	20	20	20	20	20	20	20	21	21	22	22	22	22	22	22	22	22	21	21	20	20	20	20	20	21	
7	19	19	18	18	18	17	18	19	22	25	26	27	27	27	27	27	26	25	22	20	19	18	17	18	22	
8	17	18	17	17	17	17	18	20	24	27	29	30	31	30	30	30	29	27	24	22	21	20	19	19	23	
9	19	18	18	18	18	18	19	21	23	27	30	32	32	31	30	31	30	28	25	22	21	21	20	18	24	
10	18	17	17	17	17	17	17	21	25	28	30	31	31	31	31	31	31	28	25	23	21	21	20	20	24	
11	19	19	19	19	19	19	20	23	26	29	30	32	32	32	31	31	30	28	25	23	22	22	21	21	25	
12	21	21	21	21	20	20	20	23	26	29	30	32	31	32	32	31	30	29	27	25	24	23	23	23	26	
13	22	21	21	21	21	20	20	22	26	28	30	31	31	31	34	34	31	30	27	26	24	23	22	22	26	
14	22	22	22	22	22	22	22	22	25	27	28	30	31	29	25	28	29	28	25	25	24	23	23	23	25	
15	23	23	23	23	23	22	22	24	26	27	29	30	30	29	27	26	26	24	22	21	21	20	19	18	24	
16	16	15	13	12	12	10	11	14	18	20	22	22	23	23	23	24	23	22	18	15	13	13	12	11	17	
17	11	11	10	11	11	10	11	13	15	19	21	22	25	25	24	24	23	21	18	16	14	13	13	12	16	
18	13	13	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2	
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Avg	20	20	20	20	20	19	20	21	24	26	27	28	28	28	28	28	27	26	24	22	21	20	20	20	21	
SD	4	4	4	4	4	4	4	3	3	3	4	4	4	4	4	4	3	3	3	3	3	4	4	4	6	
S/A	0.19	0.19	0.2	0.19	0.2	0.21	0.2	0.16	0.14	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.13	0.12	0.12	0.15	0.16	0.17	0.18	0.18	0.26	
Min	11	11	10	11	11	10	11	13	15	19	21	21	21	20	20	20	21	21	18	15	13	13	12	11	2	
Max	24	24	24	24	24	24	25	26	28	30	32	32	32	32	34	34	31	30	28	27	26	25	25	24	26	

Data Recovery: 43% missing; 2% failed QC -- 8640 total 5-minute measurements.

Data and Flag      Hour Column      Day Column  
 <value>\*      20% < Missing < 100%  
 <value>?  
 <blank>\*  
 <blank>?

Station: EC  
 Latitude: 36.30° N  
 Longitude: 76.25° W  
 Elevation: 4 Meters AMSL  
 Time Zone: -5

Instrument: CSIT  
 Calibration Constant: 1.00 deg C/mV  
 Serial Number: 0  
 Calibration Date: 6/1/1995

1	1	1	1	1	1	1	1	2	3	4	4	3	4	4	3	2	2	3	1	1	1	1	1	1	2	
2	1	1	0	1	0	0	0	1	2	1	2	3	3	3	4	2	2	1	1	1	0	0	0	0	1	
3	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4	3	2	1	0	0	0	1	1	2	2	
4	2	1	4	1	2	2	2	3	2	2	2	2	3	2	1	2	0	0	0	0	0	0	0	0	2	
5	0	0	1	2	4	4	4	5	4	4	5	5	5	5	5	6	5	6	5	5	5	5	4	4		
6	5	5	5	5	5	5	4	5	5	5	5	6	5	5	5	5	4	4	4	4	4	3	3	5		
7	3	3	2	2	1	2	2	2	4	5	4	4	5	4	5	4	3	3	2	2	1	1	1	2	3	
8	1	2	2	1	1	1	1	2	2	2	2	2	2	2	2	3	3	2	2	1	2	0	0	2		
9	0	0	0	0	0	0	0	1	1	2	1	2	2	2	2	2	3	2	2	2	2	1	0	1		
10	0	0	0	0	0	0	0	1	1	2	3	3	2	2	2	2	3	3	3	2	2	1	1	0	1	
11	1	1	1	1	1	1	1	2	2	3	2	3	3	3	3	3	3	3	2	1	1	1	0	2		
12	1	1	1	1	0	0	0	1	2	3	3	3	3	3	3	2	3	3	3	2	2	2	2	1	2	
13	0	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	2	2	1	2	1	2	3	1	1	
14	0	0	0	1	0	0	1	1	1	2	2	2	2	3	2	3	2	3	3	2	1	1	1	2	1	
15	1	2	2	2	2	1	2	3	4	3	3	2	2	3	3	3	2	1	1	1	0	3	3	2	2	
16	2	1	1	2	1	1	1	1	2	3	3	3	3	3	3	3	2	1	0	0	0	0	0	1	2	
17	1	0	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	0	0	0	0	0	0	1	1	
18	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Avg	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	2	2	2	1	1	1	1	2	
S/D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S/A	1.11	1.1	1	0.88	1.1	1.11	1	0.7	0.53	0.44	0.39	0.42	0.43	0.37	0.43	0.39	0.45	0.59	0.8	0.87	0.95	1.07	0.95	1.04	0.59	
Min	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	
Max	5	5	5	5	5	5	4	5	5	5	5	6	6	5	5	6	5	6	5	5	5	5	4	5	5	





1	2	2	2	2	2	1	2	3	4	6	5	5	6	6	5	4	3	4	2	1	1	2	2	2	3	
2	2	2	1	1	1	0	0	3	3	2	3	4	4	5	6	3	3	2	2	2	1	1	1	1	2	
3	1	2	2	2	1	2	2	3	4	3	5	5	6	7	5	4	2	1	1	1	2	2	2	3	3	
4	3	2	6	3	3	3	4	5	4	4	4	3	4	4	2	4	1	1	1	0	1	0	0	0	3	
5	0	0	2	3	7	7	8	8	8	8	8	7	9	9	9	9	9	10	9	8	8	8	8	7	8	
6	9	8	9	8	8	8	7	8	9	9	9	9	10	8	8	9	8	7	6	6	6	5	5	8	8	
7	6	5	4	3	3	3	3	4	7	7	7	7	7	7	7	6	5	5	4	3	1	2	2	3	5	
8	2	3	3	2	2	2	2	3	3	4	4	4	4	4	4	4	5	3	3	2	2	0	1	1	3	
9	1	1	0	0	1	0	1	1	2	3	3	3	3	4	4	4	4	4	3	3	2	2	1	0	2	
10	0	0	0	1	1	1	1	2	2	4	4	5	4	4	3	3	4	4	3	2	2	2	2	1	2	
11	1	1	2	1	1	2	2	3	3	4	4	4	5	5	5	5	5	4	3	2	2	2	1	1	3	
12	1	1	1	1	1	1	0	2	3	4	4	4	4	5	5	4	4	4	3	3	3	3	3	2	3	
13	0	0	1	0	0	0	0	1	2	2	3	2	2	2	2	3	3	3	2	3	2	3	4	1	2	
14	1	1	1	2	0	1	1	1	3	3	3	3	4	5	3	5	4	4	4	3	2	2	2	3	3	
15	3	4	4	4	3	2	3	5	6	5	5	4	4	5	5	5	4	3	1	1	1	1	5	6	4	
16	4	2	3	4	2	1	2	3	4	5	5	6	6	6	7	6	5	3	1	0	0	1	1	1	3	
17	1	1	2	2	2	2	2	2	2	3	3	3	2	2	3	2	2	1	0	0	0	0	0	2	0	
18	1	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Avg	2	2	2	2	2	2	2	3	4	5	5	5	5	5	5	4	4	3	2	2	2	2	2	2	3	
SD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
S/A	1.02	1	0.91	0.78	0.93	0.95	0.88	0.62	0.5	0.41	0.37	0.37	0.4	0.34	0.41	0.39	0.44	0.57	0.72	0.84	0.89	0.98	0.9	0.94	0.57	
Min	0	0	0	0	0	0	0	1	2	2	3	2	2	2	2	1	1	0	0	0	0	0	0	0	0	
Max	9	8	9	8	8	8	8	8	9	9	9	9	10	9	9	9	10	9	8	8	8	8	8	8	8	

Data Recovery: 43% missing; 0% failed QC -- 8640 total 5-minute measurements.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station:	EC
Latitude:	36.30° N
Longitude:	76.25° W
Elevation:	4 Meters AMSL
Time Zone:	-5

Instrument:	NRG
Calibration Constant:	0.76 m/s/mV
Serial Number:	0 WSP
Calibration Date:	6/1/1995

1	1008	1008	1009	1010	1011	1014	1016	017	1020	1014	1013	1013	1014	1012	1012	1012	1012	1012	1013	1015	1016	1018	1020	1021	1014	
2	1022	1022	1023	1025	1025	1023	1025	026	1024	1031	1037	1025	1021	1020	1020	1018	1017	1018	1019	1021	1022	1021	1020	1019	1023	
3	1019	1021	1029	1037	1038	1038	1041	041	1061	1053	1048	* 1062	* 1045	1037	1037	1043	1038	1022	1020	1017	1019	1024	1036	1044	1036	
4	1054	1062	* 1076	* 1037	* 1038	* 1038	* 1041	* 041	* 1061	* 968	* 841	* 1015	* 995	* 989	* 1012	* 973	* 964	957	931	* 947	930	921	913	895	727	*
5	*	1051	* 899	* 903	* 875	* 903	939	* 956	955	949	947	938	950	949	958	972	992	990	989	987	981	979	973	971	917	*
6	982	974	973	967	958	959	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	242	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

	1017	1023	1001	988	981		1005	1010	1015	1003	977	1011		1002	1008	1003	1004	1000	994	997	994	993	992	990	826
	23	29	55	49	60	50	39	32	38	39	76	40	32	30	27	27	25	24	33	28	35	40	45	53	282
S/A	0.02	0.03	0.05	0.05	0.06	0.05	0.04	0.03	0.04	0.04	0.08	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.34
Min	982	974	899	903	875	903	939	956	955	949	841	938	950	949	958	972	964	957	931	947	930	921	913	895	242
Max	1054	1062	1076	1037	1038	1038	1041	1041	1061	1053	1048	1062	1045	1037	1037	1043	1038	1022	1020	1021	1022	1024	1036		