

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - October 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	0	20	173	395	580	723	804	824	771	645	476	263	64	0	0	0	0	0	0	5739
2	0	0	0	0	0	0	23	176	392	577	723	802	814	759	632	455	239	57	0	0	0	0	0	0	5649
3	0	0	0	0	0	0	19	165	380	560	710	792	811	758	638	467	254	58	0	0	0	0	0	0	5614
4	0	0	0	0	0	0	9	50	153	347	335	566	562	568	580	460	207	54	0	0	0	0	0	0	3889
5	0	0	0	0	0	0	12	99	251	422	613	696	454	421	432	431	209	46	0	0	0	0	0	0	4085
6	0	0	0	0	0	0	14	153 ?	351	541	668	745	761	716	525	209	34	17	0	0	0	0	0	0	4735
7	0	0	0	0	0	0	5	106	253	373	336	445	446	478	362	236	121	18	0	0	0	0	0	0	3178
8	0	0	0	0	0	0	14	129	204	323	243	315	336	234	289	159	143	38	0	0	0	0	0	0	2426
9	0	0	0	0	0	0	22	81	250	256	660	616	725	753	605	437	182	52	0	0	0	0	0	0	4639
10	0	0	0	0	0	0	14	121	333	487	574	791	563	491	408	276	157	33	0	0	0	0	0	0	4249
11	0	0	0	0	0	0	9	147	372	558	693	772	785	726	595	426	211	37	0 ?	0	0	0	0	0	5332
12	0	0	0	0	0	0	9	112 ?	337	572	693	774	780	723	596	423	205	35	0 ?	0	0	0	0	0	5259
13	0	0	0	0	0	0	9	88 ?	337	549	688	773	786	726	598	424	200	34	0 ?	0	0	0	0	0	5214
14	0	0	0	0	0	0	9	176 ?	320	546	678	750	760	703	574	402	185	28	0	0	0	0	0	0	5134
15	0	0	0	0	0	0	9	142	355	547	678	737	741	676	519	384	206	34	0 ?	0	0	0	0	0	5029
16	0	0	0	0	0	0	10	139	346	537	665	691	742	687	562	390	175	29	0 ?	0	0	0	0	0	4973
17	0	0	0	0	0	0	9	128	313	455	629	708	699	665	541	343	152	22	0	0	0	0	0	0	4665
18	0	0	0	0	0	0	8	104	313	477	609	675	689	600	500	335	149	19	0	0	0	0	0	0	4477
19	0	0	0	0	0	0	4	99	293	456	570	566	595	398	323	201	80	13	0	0	0	0	0	0	3599
20	0	0	0	0	0	0	15	150	305	366	467	376	463	226	456	227	92	14	0	0	0	0	0	0	3157
21	0	0	0	0	0	0	6	97 ?	311	469	541	730	658	564	430	345	147	16	0	0	0	0	0	0	4313
22	0	0	0	0	0	0	6	153	275	455	574	661	672	614	500	317	140	14	0	0	0	0	0	0	4382
23	0	0	0	0	0	0	5	76	293	476	616	698	712	661	533	353	152	16	0	0	0	0	0	0	4591
24	0	0	0	0	0	0	5	111	318	503	631	706	710	656	529	353	151	13	0	0	0	0	0	0	4686
25	0	0	0	0	0	0	4	84	330	489	514	707	706	656	526	351	146	13	0	0	0	0	0	0	4524
26	0	0	0	0	0	0	2	97	297	475	608	678	691	645	521	348	146	11	0	0	0	0	0	0	4520
27	0	0	0	0	0	0	3	101	306	488	621	684	691	646	521	332	130	10	0	0	0	0	0	0	4534
28	0	0	0	0	0	0	4	82	240	399	522	589	595	546	426	239	111	8	0	0	0	0	0	0	3760
29	0	0	0	0	0	0	3	45	143	377	554	609	460	473	342	265	110	8	0	0	0	0	0	0	3388
30	0	0	0	0	0	0	2	81	266	473	603	660	672	615	483	309	117	7	0	0	0	0	0	0	4287
Avg	0	0	0	0	0	0	9	116	301	471	591	671	663	605	506	346	160	27	0	0	0	0	0	0	4468
S D	0	0	0	0	0	0	6	35	61	81	115	119	125	141	94	86	51	17	0	0	0	0	0	0	776
S/A	0	0	0	0	0	0	0.62	0.31	0.2	0.17	0.2	0.18	0.19	0.23	0.18	0.25	0.32	0.61	4.36	0	0	0	0	0	0.17
Min	0	0	0	0	0	0	2	45	143	256	243	315	336	226	289	159	34	7	0	0	0	0	0	0	2426
Max	0	0	0	0	0	0	23	176	395	580	723	804	824	771	645	476	263	64	0	0	0	0	0	0	5739

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 4119 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: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 7.98 uV/Wm-2
Serial Number: 28401F3
Calibration Date: 5/19/1998

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - October 2000**

Field: DNI

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	0	46	21	6	0	0	0	0	0	0	1	6	5	0	0	0	0	0	0	86
2	0	0	0	0	0	0	77	22	2	0	0	0	0	0	0	3	10	6	0	0	0	0	0	0	119
3	0	0	0	0	0	0	53	87	84	0	0	0	0	0	0	2	11	4	18	0	0	0	0	0	259
4	0	0	0	0	0	0	17	24	36	63	48	49	55	40	4	15	41	17	2	0	0	0	0	0	410
5	0	0	0	0	0	0	20	49	38	51	18	2	22	35	29	14	8	9	0	0	0	0	0	0	296
6	0	0	0	0	0	0	34	9	22	1	0	0	2	2	23	12	8	0	0	0	0	0	0	0	113
7	0	0	0	0	0	0	15	41	46	51	50	61	60	60	56	49	37	11	7	0	0	0	0	0	544
8	0	0	0	0	0	0	23	52	49	54	36	41	42	33	46	36	44	30	0	0	0	0	0	0	486
9	0	0	0	0	0	0	33	37	47	36	2	25	5	0	4	20	34	14	0	0	0	0	0	0	257
10	0	0	0	0	0	0	20	26	25	10	0	0	21	18	20	38	38	23	0	0	0	0	0	0	239
11	0	0	0	0	0	0	10	12	5	0	0	0	0	0	0	5	5	18	0	0	0	0	0	0	56
12	0	0	0	0	0	0	19	604	34	14	0	0	0	0	0	6	7	17	0	0	0	0	0	0	702
13	0	0	0	0	0	0	20	453	53	2	0	0	0	0	0	4	12	6	0	0	0	0	0	0	551
14	0	0	0	0	0	0	56	465	30	1	0	0	0	0	0	7	14	7	0	0	0	0	0	0	579
15	0	0	0	0	0	0	38	6	10	3	0	0	0	1	8	10	19	43	0	0	0	0	0	0	139
16	0	0	0	0	0	0	47	16	16	5	0	0	0	0	0	6	11	23	0	0	0	0	0	0	124
17	0	0	0	0	0	0	27	28	19	10	0	0	0	0	1	14	19	8	0	0	0	0	0	0	126
18	0	0	0	0	0	0	25	49	58	24	4	0	0	3	9	17	20	10	0	0	0	0	0	0	220
19	0	0	0	0	0	0	3	22	40	30	16	18	17	33	47	38	32	34	0	0	0	0	0	0	327
20	0	0	0	0	0	0	32	64	64	65	49	41	37	28	19	19	37	18	0	0	0	0	0	0	472
21	0	0	0	0	0	0	83	257	150	18	21	14	16	21	16	8	14	17	0	0	0	0	0	0	635
22	0	0	0	0	0	0	12	284	47	36	11	14	5	19	18	21	34	12	0	0	0	0	0	0	513
23	0	0	0	0	0	0	10	40	57	21	7	0	0	9	4	0	14	9	0	0	0	0	0	0	172
24	0	0	0	0	0	0	11	23	28	10	1	0	0	6	2	0	12	29	0	0	0	0	0	0	123
25	0	0	0	0	0	0	11	13	52	4	3	0	0	0	1	0	10	18	0	0	0	0	0	0	114
26	0	0	0	0	0	0	7	4	24	4	0	0	0	0	1	0	9	7	0	0	0	0	0	0	57
27	0	0	0	0	0	0	16	5	23	2	0	0	0	0	2	1	16	8	0	0	0	0	0	0	72
28	0	0	0	0	0	0	8	31	43	32	22	11	14	22	30	31	36	7	0	0	0	0	0	0	286
29	0	0	0	0	0	0	6	20	41	32	16	23	32	36	31	29	34	18	0	0	0	0	0	0	317
30	0	0	0	0	0	0	4	3	27	14	0	0	1	2	10	2	16	12	0	0	0	0	0	0	91
Avg	0	0	0	0	0	0	26	92	39	20	10	10	11	12	12	14	20	15	1	0	0	0	0	0	283
S/D	0	0	0	0	0	0	20	154	28	20	16	17	17	16	16	14	12	9	3	0	0	0	0	0	191
S/A	0	0	0	0	0	0	0.78	1.67	0.71	1.02	1.54	1.69	1.59	1.32	1.32	0.97	0.59	0.62	3.83	0	0	0	0	0	0.68
Min	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	5	4	0	0	0	0	0	0	56
Max	0	0	0	0	0	0	83	604	150	65	50	61	60	60	56	49	44	43	18	0	0	0	0	0	702

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4119 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: SS
 Latitude: 32.03° N
 Longitude: 81.07° W
 Elevation: 11 Meters AMSL
 Time Zone: -5

Instrument: Estimated DNI
 Calibration Constant: 0.00
 Serial Number: XXXXXXX
 Calibration Date: 1/1/1997

Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - October 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	0	15	159	331 ?	?	?	?	?	?	?	?	225 ?	66	0	0	0	0	0	0	796 ?
2	0	0	0	0	0	0	16	162	331 ?	?	?	?	?	?	?	367 ?	229	57	0	0	0	0	0	0	1162 ?
3	0	0	0	0	0	0	14	143	298 ?	?	?	?	?	?	?	?	222 ?	58	0	0	0	0	0	0	735 ?
4	0	0	0	0	0	0	8	44	137	279	300	420 ?	468 ?	392 ?	439 ?	408 ?	159	52	0	0	0	0	0	0	3105 ?
5	0	0	0	0	0	0	11	88	217	333 ?	449 ?	440 ?	411	366	342 ?	308 ?	187 ?	47	0	0	0	0	0	0	3198 ?
6	0	0	0	0	0	0	12	163 ?	307 ?	?	?	?	?	547 ?	402 ?	197	30	16	0	0	0	0	0	0	1674 ?
7	0	0	0	0	0	0	5	96	234	342	301	398	398	433	325	212	108	16	0	0	0	0	0	0	2868
8	0	0	0	0	0	0	12	117	183	291	218	283	302	210	259	141	121	34	0	0	0	0	0	0	2172
9	0	0	0	0	0	0	21	73	230	236	487 ?	453 ?	514 ?	?	471 ?	363 ?	167	39	0	0	0	0	0	0	3054 ?
10	0	0	0	0	0	0	12	116	303 ?	414 ?	524 ?	?	444 ?	412 ?	320	257	130	30	0	0	0	0	0	0	2962 ?
11	0	0	0	0	0	0	9	135	?	?	?	?	?	?	?	347 ?	193	37	0	0	0	0	0	0	721 ?
12	0	0	0	0	0	0	9	111	235 ?	?	?	?	?	?	?	351 ?	185	33	0 ?	0	0	0	0	0	924 ?
13	0	0	0	0	0	0	8	127	310	?	?	?	?	?	?	?	178	31	0 ?	0	0	0	0	0	654 ?
14	0	0	0	0	0	0	7	111	286 ?	?	?	?	?	?	?	348 ?	183	28	0	0	0	0	0	0	963 ?
15	0	0	0	0	0	0	6	142	248 ?	?	?	?	?	538 ?	500 ?	301 ?	159 ?	33	0 ?	0	0	0	0	0	1927 ?
16	0	0	0	0	0	0	6	149	295 ?	?	?	592 ?	?	?	?	332 ?	173	26	0 ?	0	0	0	0	0	1572 ?
17	0	0	0	0	0	0	7	125	295	399 ?	?	?	547 ?	583 ?	?	291 ?	147	21	0	0	0	0	0	0	2416 ?
18	0	0	0	0	0	0	6	98	296	451	?	?	?	304 ?	470 ?	327	143	18	0	0	0	0	0	0	2114 ?
19	0	0	0	0	0	0	4	94	277	433	543 ?	525 ?	537 ?	376	279	160	71	11	0	0	0	0	0	0	3311
20	0	0	0	0	0	0	14	128	232 ?	312	380 ?	346	390	207	330 ?	144 ?	82	13	0	0	0	0	0	0	2576
21	0	0	0	0	0	0	5	109	305	441 ?	421 ?	?	545 ?	524 ?	408	337	143	15	0	0	0	0	0	0	3255 ?
22	0	0	0	0	0	0	6	94	233 ?	436	553 ?	?	?	519 ?	450 ?	309	132	13	0	0	0	0	0	0	2745 ?
23	0	0	0	0	0	0	4	68	273	410 ?	?	?	?	?	?	312 ?	150	15	0	0	0	0	0	0	1233 ?
24	0	0	0	0	0	0	4	112	272 ?	?	?	?	?	?	?	296 ?	149	12	0	0	0	0	0	0	846 ?
25	0	0	0	0	0	0	3	96	245 ?	?	393 ?	?	?	?	?	292 ?	145	12	0	0	0	0	0	0	1187 ?
26	0	0	0	0	0	0	2	99	287 ?	?	?	?	?	?	?	300 ?	145	10	0	0	0	0	0	0	844 ?
27	0	0	0	0	0	0	3	105	252 ?	?	?	?	?	?	?	302 ?	126	10	0	0	0	0	0	0	797 ?
28	0	0	0	0	0	0	3	77	225	383	508	582	585	531	409	226	103	7	0	0	0	0	0	0	3639
29	0	0	0	0	0	0	2	41	128	361	512 ?	535 ?	422	439	325	254	102	8	0	0	0	0	0	0	3129
30	0	0	0	0	0	0	1	82	224 ?	?	?	?	?	?	419 ?	308	114	7	0	0	0	0	0	0	1155 ?
Avg	0	0	0	0	0	0	8	109	258	368	430	457	464	425	384	288	147	26	0	0	0	0	0	0	1925
S/D	0	0	0	0	0	0	5	31	50	65	102	96	80	115	71	68	44	17	0	0	0	0	0	0	991
S/A	0	0	0	0	0	0	0.6	0.28	0.19	0.18	0.24	0.21	0.17	0.27	0.18	0.24	0.3	0.64	3.53	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	1	41	128	236	218	283	302	207	259	141	30	7	0	0	0	0	0	0	654
Max	0	0	0	0	0	0	21	163	331	451	553	592	585	583	500	408	229	66	0	0	0	0	0	0	3639

Daylight Data Recovery: 0% missing; 44% exceed the 15% QC threshold -- 4119 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: SS
Latitude: 32.03° N
Longitude: 81.07° W
Elevation: 11 Meters AMSL
Time Zone: -5

Instrument: PSP
Calibration Constant: 7.53 uV/Wm-2
Serial Number: 17862F3
Calibration Date: 5/19/1998