

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 1998

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	12	99	258	372	440	278	849	585	414	330	271	84	7	0	0	0	0	0	3998
2	0	0	0	0	0	0	34	186	420	623	786	883	913	860	742	599	387	159	14	0	0	0	0	0	6605
3	0	0	0	0	0	0	32	161	320	556	445	355	441	500	308	324	241	104	14	0	0	0	0	0	3801
4	0	0	0	0	0	0	34	210	454	666	835	943	976	930	814	639	416	189	22	0	0	0	0	0	7129
5	0	0	0	0	0	0	37	216	410	482	747	652	788	948	811	636	419	189	24	0	0	0	0	0	6360
6	0	0	0	0	0	0	36	219	467	664	845	945	988	946	832	654	434	194	26	0	0	0	0	0	7248
7	0	0	0	0	0	0	38	198	303	605	754	496	887	881	778	591	385	171	23	0	0	0	0	0	6110
8	0	0	0	0	0	0	39	174	173	94	224	77	22	10	14	6	12	13	4	0	0	0	0	0	862
9	0	0	0	0	0	0	2	62	224	444	682	716	952	922	833	656	443	209	34	0	0	0	0	0	6179
10	0	0	0	0	0	0	50	242	476	698	788	868	841	495	254	249	233	68	12	0	0	0	0	0	5274
11	0	0	0	0	0	0	51	242	474	687	843	946	935	962	837	649	432	206	30	0	0	0	0	0	7295
12	0	0	0	0	0	0	60	251	487	695	865	965	988	941	824	654	439	210	32	0	0	0	0	0	7411
13	0	0	0	0	0	0	56	258	485	693	859	963	992	949	723	471	449	170	23	0	0	0	0	0	7090
14	0	0	0	0	0	0	72	189	422	317	719	635	160	76	71	78	25	22	1	0	0	0	0	0	2789
15	0	0	0	0	0	0	31	130	109	296	355	428	261	426	481	342	229	99	24	0	0	0	0	0	3211
16	0	0	0	0	0	0	43	162	390	656	815	865	931	906	469	481	228	185	30	0	0	0	0	0	6162
17	0	0	0	0	0	0	50	194	279	532	503	374	602	605	358	238	170	75	14	0	0	0	0	0	3995
18	0	0	0	0	0	0	48	193	391	454	629	538	717	753	730	573	357	192	28	0	0	0	0	0	5601
19	0	0	0	0	0	1	27	74	167	221	611	617	504	347	283	210	91	71	10	0	0	0	0	0	3234
20	0	0	0	0	0	0	21	61	136	428	586	770	520	778	422	624	442	217	39	0	0	0	0	0	5043
21	0	0	0	0	0	1	67	231	378	590	879	980	1012	963	847	654	439	212	38	0	0	0	0	0	7292
22	0	0	0	0	0	1	74	254	482	657	717	855	295	858	702	656	393	124	47	0	0	0	0	0	6115
23	0	0	0	0	0	1	85	247	472	713	881	901	555	388	256	273	247	229	24	0	0	0	0	0	5272
24	0	0	0	0	0	2	80	278	483	709	877	901	868	803	643	474	365	210	40	0	0	0	0	0	6733
25	0	0	0	0	0	2	90	283	503	712	871	977	999	933	794	643	457	223	42	0	0	0	0	0	7530
26	0	0	0	0	0	2	85	282	508	710	867	1018	847	864	723	601	384	205	44	0	0	0	0	0	7139
27	0	0	0	0	0	2	50	133	359	677	853	952	910	577	762	690	435	172	45	0	0	0	0	0	6617
28	0	0	0	0	0	1	13	29	58	149	288	390	514	561	533	291	215	167	31	0	0	0	0	0	3239
29	0	0	0	0	0	2	9	10	34	49	62	124	300	472	681	266	196	74	25	0	0	0	0	0	2304
30	0	0	0	0	0	1	22	52	67	82	152	213	434	598	414	253	386	148	13	0	0	0	0	0	2835
Avg	0	0	0	0	0	1	45	177	340	508	659	687	700	695	578	460	321	153	25	0	0	0	0	0	5349
S D	0	0	0	0	0	1	24	79	150	212	238	285	286	263	243	198	129	62	12	0	0	0	0	0	1828
S/A	0	0	0	0	0	1.27	0.52	0.44	0.44	0.42	0.36	0.42	0.41	0.38	0.42	0.43	0.4	0.41	0.49	0	0	0	0	0	0.34
Min	0	0	0	0	0	0	2	10	34	49	62	77	22	10	14	6	12	13	1	0	0	0	0	0	862
Max	0	0	0	0	0	2	90	283	508	713	881	1018	1012	963	847	690	457	229	47	0	0	0	0	0	7530

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 32931 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: 9.16 uV/Wm-2
Serial Number: 18078F3
Calibration Date: 9/13/96

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 1998**

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	15	35	52	54	53	34	67	57	49	39	37	25	7	0	0	0	0	0	524
2	0	0	0	0	0	0	16	4	0	3	14	14	18	23	28	20	4	3	6	0	0	0	0	0	153
3	0	0	0	0	0	0	15	23	48	43	45	41	49	45	29	45	36	26	19	0	0	0	0	0	465
4	0	0	0	0	0	0	41	0	0	2	11	9	9	11	15	15	4	4	2	0	0	0	0	0	122
5	0	0	0	0	0	0	11	0	10	27	37	48	40	17	18	17	2	0	0	0	0	0	0	0	224
6	0	0	0	0	0	0	11	18	61	0	2	2	1	3	8	8	0	0	12	0	0	0	0	0	125
7	0	0	0	0	0	0	29	46	41	27	39	38	39	31	34	32	17	16	15	0	0	0	0	0	405
8	0	0	0	0	0	0	35	21	30	13	27	10	3	1	2	1	3	5	5	0	0	0	0	0	155
9	0	0	0	0	0	0	2	18	40	38	62	59	36	16	12	7	0	0	40	0	0	0	0	0	330
10	0	0	0	0	0	0	13	0	0	8	23	36	36	48	31	34	47	24	11	0	0	0	0	0	311
11	0	0	0	0	0	0	14	0	0	1	8	10	22	13	13	8	0	0	0	0	0	0	0	0	89
12	0	0	0	0	0	0	17	0	0	0	0	1	2	10	6	0	0	3	0	0	0	0	0	0	40
13	0	0	0	0	0	0	35	30	0	0	1	3	5	4	23	44	8	6	12	0	0	0	0	0	174
14	0	0	0	0	0	0	22	9	27	31	43	46	14	9	10	13	6	8	1	0	0	0	0	0	240
15	0	0	0	0	0	0	28	39	20	47	47	47	30	46	52	40	38	25	19	0	0	0	0	0	476
16	0	0	0	0	0	5	30	33	18	12	21	44	27	26	42	47	27	22	18	0	0	0	0	0	372
17	0	0	0	0	0	3	16	12	37	43	41	38	54	57	39	34	30	21	10	0	0	0	0	0	436
18	0	0	0	0	0	2	26	25	30	39	48	43	57	51	46	38	34	30	11	0	0	0	0	0	479
19	0	0	0	0	0	3	19	20	28	28	60	57	50	36	32	27	17	21	11	0	0	0	0	0	409
20	0	0	0	0	0	1	14	17	22	51	52	32	36	27	32	17	0	0	0	0	0	0	0	0	302
21	0	0	0	0	0	13	21	29	31	40	11	5	165	918	885	772	641	409	77	0	0	0	0	0	4016
22	0	0	0	0	0	6	116	372	623	672	550	633	39	699	525	699	457	77	80	0	0	0	0	0	5549
23	0	0	0	0	0	6	217	418	621	787	770	627	259	158	54	79	181	427	56	0	0	0	0	0	4658
24	0	0	0	0	0	5	173	510	686	837	893	749	672	589	499	427	408	318	265	0	0	0	0	0	7031
25	0	0	0	0	0	11	230	510	685	790	846	859	858	781	706	690	575	381	71	0	0	0	0	0	7992
26	0	0	0	0	0	8	177	489	675	770	814	809	528	615	539	495	376	295	69	0	0	0	0	0	6659
27	0	0	0	0	0	5	38	49	190	547	741	767	641	272	565	672	477	151	38	0	0	0	0	0	5153
28	0	0	0	0	0	3	11	11	14	27	44	56	73	51	83	50	52	31	26	3	0	0	0	0	535
29	0	0	0	0	0	31	10	2	9	10	11	19	41	44	331	47	49	30	20	2	0	0	0	0	655
30	0	0	0	0	0	4	17	19	17	16	25	32	46	201	105	55	167	70	8	1	0	0	0	0	784
Avg	0	0	0	0	0	4	47	92	134	165	178	172	131	162	161	149	123	81	30	0	0	0	0	0	1629
S D	0	0	0	0	0	6	63	167	237	288	300	287	223	261	244	245	192	133	50	1	0	0	0	0	2427
S/A	0	0	0	0	0	1.71	1.34	1.81	1.77	1.74	1.69	1.67	1.71	1.61	1.52	1.64	1.56	1.64	1.64	3.37	0	0	0	0	1.49
Min	0	0	0	0	0	0	2	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	40
Max	0	0	0	0	0	31	230	510	686	837	893	859	858	918	885	772	641	427	265	3	0	0	0	0	7992

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 70015 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
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - April 1998

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	12	90	234	337	399	249	586 ?	441 ?	376	255	255	76	7	0	0	0	0	0	3317
2	0	0	0	0	0	0	32	162 ?	349 ?	?	?	?	?	?	550 ?	?	394 ?	149	14	0	0	0	0	0	1650 ?
3	0	0	0	0	0	0	32	158	272	438 ?	388	319	397	398	246	296	216	97	13	0	0	0	0	0	3271
4	0	0	0	0	0	0	35	157 ?	?	?	?	?	?	?	?	?	409 ?	160 ?	22	0	0	0	0	0	784 ?
5	0	0	0	0	0	0	39	161 ?	379 ?	259 ?	444 ?	526	539 ?	?	?	?	?	153 ?	25	0	0	0	0	0	2525 ?
6	0	0	0	0	0	0	38 ?	?	380 ?	?	?	?	?	?	?	?	?	157 ?	27	0	0	0	0	0	602 ?
7	0	0	0	0	0	0	39	175	282	448 ?	528 ?	382	678 ?	701 ?	?	504 ?	376	167	22	0	0	0	0	0	4303 ?
8	0	0	0	0	0	0	37	168	159	85	202	68	20	9	13	5	11	11	3	0	0	0	0	0	792
9	0	0	0	0	0	0	2	56	203	285 ?	547 ?	552 ?	654 ?	?	?	?	?	155 ?	35	0	0	0	0	0	2489 ?
10	0	0	0	0	0	0	54	174 ?	?	?	627 ?	645 ?	605 ?	422	230	227	210	61	11	0	0	0	0	0	3267 ?
11	0	0	0	0	0	0	54	176 ?	?	?	679 ?	?	710 ?	?	?	?	?	154 ?	32	0	0	0	0	0	1806 ?
12	0	0	0	0	0	0	63	177 ?	?	?	?	?	?	?	?	?	?	159 ?	34	0	0	0	0	0	433 ?
13	0	0	0	0	0	0	57	297 ?	?	?	?	?	?	?	429 ?	378	?	138 ?	22	0	0	0	0	0	1321 ?
14	0	0	0	0	0	0	52	187	354 ?	264	512 ?	405 ?	150	68	63	69	22	20	1	0	0	0	0	0	2170
15	0	0	0	0	0	0	28	117	98	264	317	386	233	385	409	316	210	92	23	0	0	0	0	0	2877
16	0	0	0	0	0	0	40	144	256 ?	?	?	658 ?	754 ?	?	363	430	215	154	29	0	0	0	0	0	3043 ?
17	0	0	0	0	0	0	49	190	260	501	387 ?	340	551	537	326	216	155	69	13	0	0	0	0	0	3594
18	0	0	0	0	0	0	45	185	374	427	578	440	600 ?	644 ?	634 ?	531	329	173	27	0	0	0	0	0	4987
19	0	0	0	0	0	0	25	67	152	201	561	565	458	315	258	192	82	65	10	0	0	0	0	0	2950
20	0	0	0	0	0	0	19	55	124	369	457	570 ?	406	385 ?	359	558 ?	362 ?	169 ?	41	0	0	0	0	0	3875 ?
21	0	0	0	0	0	1	66	221	305 ?	483 ?	?	?	148 ?	137	128	132	116	85	28	0	0	0	0	0	1850 ?
22	0	0	0	0	0	1	54	119	139	180	255	275	259	229	276	184	152	100	40	0	0	0	0	0	2264
23	0	0	0	0	0	1	49	97	126	148	234	326	313	243	212	218	163	95	19	0	0	0	0	0	2243
24	0	0	0	0	0	1	49	90	100	107	124	213	236	267	232	191	158	112	30	0	0	0	0	0	1913
25	0	0	0	0	0	2	51	95	121	141	156	186	190	224	218	172	164	101	31	0	0	0	0	0	1851
26	0	0	0	0	0	2	52	101	129	152	176	272	349	306	282	263	196	113	34	0	0	0	0	0	2426
27	0	0	0	0	0	2	43	115	246	278	222	242	304	328	293	228	190	125	39	0	0	0	0	0	2656
28	0	0	0	0	0	1	12	25	50	129	250	337	445	515	464	257	188	159	27	0	0	0	0	0	2858
29	0	0	0	0	0	2	8	9	29	42	53	107	261	432	404	234	171	64	22	0	0	0	0	0	1837
30	0	0	0	0	0	1	19	45	58	70	131	182	390	418	325	216	303	123	11	0	0	0	0	0	2291
Avg	0	0	0	0	0	1	38	131	207	255	358	359	409	353	308	264	210	115	23	0	0	0	0	0	2408
S/D	0	0	0	0	0	1	17	63	109	139	178	163	195	168	140	135	105	44	11	0	0	0	0	0	1051
S/A	0	0	0	0	0	1.27	0.43	0.48	0.52	0.54	0.5	0.45	0.48	0.48	0.45	0.51	0.5	0.38	0.46	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	2	9	29	42	53	68	20	9	13	5	11	11	1	0	0	0	0	0	433
Max	0	0	0	0	0	2	66	297	380	501	679	658	754	701	634	558	409	173	41	0	0	0	0	0	4987

Daylight Data Recovery: 0% missing; 14% exceed the 15% QC threshold -- 32931 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:	8.29 uV/Wm-2
Serial Number:	18040F3
Calibration Date:	9/13/96