

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - August 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	1	24	97	124	159	199	147	81	99	93	215	45	48	36	3	0	0	0	0	1371	
2	0	0	0	0	0	3	70	254	453	678	731	741	809	763	559	276	206	123	75	2	0	0	0	0	5744	
3	0	0	0	0	0	3	110	277	554	709	686	591	590	610	469	267	169	207	60	1	0	0	0	0	5304	
4	0	0	0	0	0	3	91	274	306	455	750	883	934	961	845	768	452	290	103	1	0	0	0	0	7116	
5	0	0	0	0	0	1	64	112	431	444	634	630	834	862	714	624	386	243	48	2	0	0	0	0	6030	
6	0	0	0	0	0	1	55	146	391	502	563	686	604	847	575	354	498	288	85	1	0	0	0	0	5596	
7	0	0	0	0	0	3	77 ?	77	62	675	806	898	847	670	762	371	288	103	18	1	0	0	0	0	5658	
8	0	0	0	0	0	6	135	280	394	729	748	928	985	812	771	426	218	120	41	1	0	0	0	0	6594	
9	0	0	0	0	0	3	59	97	348	372	84	58	79	150	325	422	276	156	43	0	0	0	0	0	2473	
10	0	0	0	0	0	1	16	27	58	249	305	558	669	733	792	421	288	260	79	1	0	0	0	0	4456	
11	0	0	0	0	0	1	77	262	467	665	818	785	863	734	819	490	430	233	31	0	0	0	0	0	6676	
12	0	0	0	0	0	3	56	87	310	315	548	848	773	162	98	194	341	121	22	0	0	0	0	0	3879	
13	0	0	0	0	0	2	55	116	194	291	624	624	510	462	488	306	290	82	38	3	0	0	0	0	4085	
14	0	0	0	0	0	1	22	181	387	375	408	404	385	696	219	174	57	116	28	0	0	0	0	0	3452	
15	0	0	0	0	0	1	61	246	395	427	695	603	767	645	327	614	276	217	31	0	0	0	0	0	5306	
16	0	0	0	0	0	2	90	230	481	562	683	781	903	576	832	625	462	214	7	0	0	0	0	0	6450	
17	0	0	0	0	0	1	57	239	465	595	792	702	733	798	432	207	270	218	46	1	0	0	0	0	5556	
18	0	0	0	0	0	1	44	114	379	294	241	476	77	51	25	30	50	57	24	0	0	0	0	0	1864	
19	0	0	0	0	0	1	48	272	474	628	817	935	881	883	771	331	377	218	47	0	0	0	0	0	6683	
20	0	0	0	0	0	1	22	162	99	180	466	676	572	687	466	615	421	217	45	0	0	0	0	0	4629	
21	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Avg	0	0	0	0	0	2	62	177	339	465	580	648	645	610	519	387	290	177	45	1	0	0	0	0	4710	
S/D	0	0	0	0	0	1	29	81	147	178	218	232	280	272	263	185	133	73	24	1	0	0	0	0	1893	
S/A	0	0	0	0	0	0.67	0.48	0.45	0.43	0.38	0.38	0.36	0.43	0.45	0.51	0.48	0.46	0.41	0.52	1.22	0	0	0	0	0.4	
Min	0	0	0	0	0	1	16	27	58	159	84	58	77	51	25	30	45	48	7	0	0	0	0	0	0	
Max	0	0	0	0	0	6	135	280	554	729	818	935	985	961	845	768	498	290	103	3	0	0	0	0	7116	

Daylight Data Recovery: 35% missing; 0% exceed the 15% QC threshold -- 4959 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 - August 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	6	18	33	29	27	29	19	10	13	14	34	10	16	28	9	0	0	0	0	296	
2	0	0	0	0	0	11	95	400	499	672	441	453	513	480	286	59	43	71	149	8	0	0	0	0	4181	
3	0	0	0	0	0	17	241	324	663	846	409	125	124	181	129	39	28	97	27	4	0	0	0	0	3254	
4	0	0	0	0	0	67	202	493	187	205	533	757	777	933	862	860	557	615	291	1	0	0	0	0	7338	
5	0	0	0	0	0	5	78	27	266	99	314	348	357	579	541	444	262	329	27	9	0	0	0	0	3686	
6	0	0	0	0	0	7	37	53	247	243	97	205	76	403	318	278	695	543	147	14	0	0	0	0	3364	
7	0	0	0	0	0	15	176	37	13	657	716	655	493	463	634	194	215	61	13	4	0	0	0	0	4347	
8	0	0	0	0	0	43	242	368	325	586	613	715	816	610	618	157	53	43	32	3	0	0	0	0	5225	
9	0	0	0	0	0	28	66	29	143	173	12	7	11	20	32	94	51	43	25	0	0	0	0	0	734	
10	0	0	0	0	0	2	11	10	12	66	61	143	220	378	477	236	170	243	92	0	0	0	0	0	2120	
11	0	0	0	0	0	16	141	405	551	666	726	566	538	406	642	305	338	192	21	0	0	0	0	0	5513	
12	0	0	0	0	0	14	49	28	73	50	103	475	367	39	10	51	229	51	14	7	0	0	0	0	1561	
13	0	0	0	0	0	11	44	44	47	58	128	181	63	73	137	51	90	29	41	22	0	0	0	0	1019	
14	0	0	0	0	0	8	15	81	191	93	88	146	102	352	30	30	14	58	22	1	0	0	0	0	1230	
15	0	0	0	0	0	9	89	332	260	138	476	298	467	390	122	559	251	325	38	0	0	0	0	0	3753	
16	0	0	0	0	0	17	242	362	682	543	488	552	702	331	793	704	640	407	3	0	0	0	0	0	6465	
17	0	0	0	0	0	18	74	322	488	524	602	341	332	424	215	35	177	124	51	9	0	0	0	0	3736	
18	0	0	0	0	0	12	38	41	300	65	35	135	10	6	4	6	12	22	24	2	0	0	0	0	712	
19	0	0	0	0	0	23	82	525	711	714	838	874	780	760	723	270	492	381	86	0	0	0	0	0	7260	
20	0	0	0	0	0	3	18	63	43	27	177	247	183	229	61	429	412	281	60	0	0	0	0	0	2233	
21	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
Avg	0	0	0	0	0	17	98	199	287	323	344	362	347	354	332	242	237	197	60	5	0	0	0	0	3092	
S D	0	0	0	0	0	15	78	181	230	280	265	250	271	248	290	239	214	180	66	6	0	0	0	0	2248	
S/A	0	0	0	0	0	0.89	0.8	0.91	0.8	0.87	0.77	0.69	0.78	0.7	0.87	0.99	0.9	0.91	1.12	1.23	0	0	0	0	0.73	
Min	0	0	0	0	0	2	11	10	12	27	12	7	10	6	4	6	10	16	3	0	0	0	0	0	0	
Max	0	0	0	0	0	67	242	525	711	846	838	874	816	933	862	860	695	615	291	22	0	0	0	0	7338	

Daylight Data Recovery: 2% missing; 0% exceed the 15% QC threshold -- 90439 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 - August 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	1	21	85	108	139	174	129	70	87	82	190	40	42	31	3	0	0	0	0	1200	
2	0	0	0	0	0	3	53	107	169	186	359	314	313	310	310	234	182	99	48	2	0	0	0	0	2689	
3	0	0	0	0	0	3	61	168	174	90	345	475	470	438	357	239	153	186	55	1	0	0	0	0	3217	
4	0	0	0	0	0	2	52	91	210	302	285	171	184	85	104	139	134	56	48	1	0	0	0	0	1865	
5	0	0	0	0	0	1	48	101	284	372	363	305	490	319	250	292	238	119	44	2	0	0	0	0	3228	
6	0	0	0	0	0	1	48	128	243	327	478	495	531	474	303	162	107	85	57	1	0	0	0	0	3441	
7	0	0	0	0	0	3	60 ?	65	55	191	199	285	373	243	217	229	163	80	16	0	0	0	0	0	2178	
8	0	0	0	0	0	5	86 ?	154	211	302	231	260	202	245	238	310	187	105	35	1	0	0	0	0	2571	
9	0	0	0	0	0	3	50	86	264	252	74	52	69	131	297	354	249	141	38	0	0	0	0	0	2061	
10	0	0	0	0	0	1	14	23	51	200	252	425	458	383	383	253	199	174	62	1	0	0	0	0	2878	
11	0	0	0	0	0	1	51	116	162	186	203	262	348	360	275	265	242	160	28	0	0	0	0	0	2659	
12	0	0	0	0	0	2	50	76	269	280	460	409	422	125	90	159	218	103	20	0	0	0	0	0	2682	
13	0	0	0	0	0	2	49	101	168	249	516	457	450	394	374	271	237	72	33	2	0	0	0	0	3376	
14	0	0	0	0	0	1	20	150	281	312	334	268	288	372	194	152	49	97	24	0	0	0	0	0	2543	
15	0	0	0	0	0	1	46	128	254	332	293	329	324	282	229	217	140	109	24	0	0	0	0	0	2708	
16	0	0	0	0	0	1	54	96	110	177	275	272	237	269	170	130	120	64	6	0	0	0	0	0	1981	
17	0	0	0	0	0	1	44	123	199	221	286	389	419	410	254	182	184	173	40	1	0	0	0	0	2926	
18	0	0	0	0	0	1	40	101	210	250	212	351	68	46	22	26	44	50	21	0	0	0	0	0	1440	
19	0	0	0	0	0	1	35	88	90	124	116	134	145	185	174	130	122	89	33	0	0	0	0	0	1466	
20	0	0	0	0	0	1	20	139	79	161	313	450	400	476	416	318	203	123	36	0	0	0	0	0	3133	
21	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Avg	0	0	0	0	0	2	45	106	180	233	288	312	313	282	237	213	161	106	35	1	0	0	0	0	2392	
S/D	0	0	0	0	0	1	17	33	74	75	112	121	145	132	105	78	64	42	14	1	0	0	0	0	829	
S/A	0	0	0	0	0	0.61	0.37	0.31	0.41	0.32	0.39	0.39	0.46	0.47	0.45	0.37	0.4	0.39	0.4	1.19	0	0	0	0	0.35	
Min	0	0	0	0	0	1	14	23	51	90	74	52	68	46	22	26	40	42	6	0	0	0	0	0	0	
Max	0	0	0	0	0	5	86	168	284	372	516	495	531	476	416	354	249	186	62	3	0	0	0	0	3441	

Daylight Data Recovery: 35% missing; 0% exceed the 15% QC threshold -- 4959 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