

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - May 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	
2	0	0	0	0	0	5	98	276	496	674	816	868	822	778	266	200	389	205	48	0	0	0	0	0	5941	
3	0	0	0	0	0	8	86	275	493	685	721	778	878	835	702	487	362	216	65	0	0	0	0	0	6590	
4	0	0	0	0	0	6	112	288	495	709	865	967	929	939	848	559	498	263	58	0	0	0	0	0	7535	
5	0	0	0	0	0	6	87	214	468	711	807	899	801	820	444	468	334	170	45	0	0	0	0	0	6274	
6	0	0	0	0	0	7	94	265	541	755	892	982	1012	971	864	700	494	264	61	0	0	0	0	0	7901	
7	0	0	0	0	0	8	101	313	544	737	884	971	999	952	844	688	487	262	63	0	0	0	0	0	7853	
8	0	0	0	0	0	8	126	314	543	738	887	976	1001	955	847	692	490	266	57	0	0	0	0	0	7900	
9	0	0	0	0	0	8	117	314	540	730	879	944	990	905	856	669	464	249	60	0	0	0	0	0	7726	
10	0	0	0	0	0	9	124	313	508	682	759	951	845	805	688	601	414	196	60	1	0	0	0	0	6955	
11	0	0	0	0	0	8	112	305	509	698	853	900	800	769	730	674	399	211	56	0	0	0	0	0	7024	
12	0	0	0	0	0	9	117	309	530	703	838	890	900	843	808	651	458	236	62	0	0	0	0	0	7353	
13	0	0	0	0	0	10	120	313	532	701	858	954	951	829	714	628	452	257	60	0	0	0	0	0	7380	
14	0	0	0	0	0	10	111	234	523	676	842	969	834	483	604	407	219	162	81	2	0	0	0	0	6157	
15	0	0	0	0	0	8	108	245	421	509	809	817	968	926	737	642	363	241	68	1	0	0	0	0	6863	
16	0	0	0	0	0	10	109	307	529	740	828	882	954	908	791	663	409	242	67	0	0	0	0	0	7440	
17	0	0	0	0	0	10	107	256	316	167	269	803	536	300	434	564	435	240	40	1	0	0	0	0	4478	
18	0	0	0	0	0	14	113	311	535	517	791	868	909	876	788	668	461	223	64	1	0	0	0	0	7141	
19	0	0	0	0	0	12	114	246	466	650	818	923	975	919	795	664	471	241	52	2	0	0	0	0	7346	
20	0	0	0	0	0	10	121	338	500	682	854	945	954	938	826	662	465	239	73	1	0	0	0	0	7608	
21	0	0	0	0	0	9	80	164	403	680	694	647	924	831	665	464	307	161	42	1	0	0	0	0	6073	
22	0	0	0	0	0	5	47	197	480	728	453	170	27	19	80	277	219	246	24	4 ?	0	0	0	0	0	2975
23	0	0	0	0	0	14	128	320	535	720	855	933	870	578	509	374	401	178	74	1	0	0	0	0	6490	
24	0	0	0	0	0	9	86	162	303	517	791	949	819	721	791	659	453	246	99	1	0	0	0	0	6606	
25	0	0	0	0	0	16	132	233	419	679	812	912	915	882	735	611	465	254	36	2	0	0	0	0	7104	
26	0	0	0	0	0	15	124	297	470	525	582	854	465	160	279	10	26	83	36	1	0	0	0	0	3927	
27	0	0	0	0	0	12	116	329 ?	471	691	840	909	978	930	795	654	409	271	78	2	0	0	0	0	7485	
28	0	0	0	0	0	17	126	322	503	719	850	814	905	821	671	431	397	177	64	2	0	0	0	0	6820	
29	0	0	0	0	0	15	143	354	563	747	877	923	632	697	737	577	462	273	55	3	0	0	0	0	7057	
30	0	0	0	0	0	18	148	356	567	759	888	986	1009	972	867	705	507	294	79	2	0	0	0	0	8158	
31	0	0	0	0	0	17	146	354	564	750	874	967	996	951	850	697	506	296	94	3	0	0	0	0	8064	
Avg	0	0	0	0	0	10	112	284	492	666	793	878	853	777	685	558	407	229	61	1	0	0	0	0	6807	
S D	0	0	0	0	0	4	21	52	64	117	134	150	202	236	197	165	102	45	16	1	0	0	0	0	1178	
S/A	0	0	0	0	0	0.34	0.19	0.18	0.13	0.18	0.17	0.17	0.24	0.3	0.29	0.3	0.25	0.2	0.27	0.97	0	0	0	0	0	0.17
Min	0	0	0	0	0	5	47	162	303	167	269	170	27	19	80	10	26	83	24	0	0	0	0	0	0	2975
Max	0	0	0	0	0	18	148	356	567	759	892	986	1012	972	867	705	507	296	99	4	0	0	0	0	0	8158

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4966 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 - May 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
2	0	0	0	0	0	18	181	395	570	612	624	551	343	285	48	30	320	253	50	0	0	0	0	0	4281
3	0	0	0	0	0	29	99	368	543	591	320	186	160	98	109	116	115	131	42	0	0	0	0	0	2908
4	0	0	0	0	0	452	103	287	514	608	388	104	130	93	103	60	206	408	135	0	0	0	0	0	3593
5	0	0	0	0	0	20	81	227	343	364	93	66	99	95	69	93	93	45	38	3	0	0	0	0	1728
6	0	0	0	0	0	17	173	400	536	158	28	0	0	0	0	0	14	75	125	11	0	0	0	0	1538
7	0	0	0	0	0	24	204	509	290	49	0	0	0	0	0	0	8	30	44	12	0	0	0	0	1169
8	0	0	0	0	0	25	319	378	95	4	0	0	0	0	0	0	5	23	14	30	0	0	0	0	892
9	0	0	0	0	0	23	245	141	42	0	0	1	8	5	1	3	14	27	1	0	0	0	0	0	511
10	0	0	0	0	0	56	197	56	39	19	26	5	12	18	23	32	36	43	15	0	0	0	0	0	577
11	0	0	0	0	0	23	84	20	27	5	0	8	22	17	20	19	34	37	5	0	0	0	0	0	323
12	0	0	0	0	0	22	53	4	9	0	0	2	7	12	0	3	11	23	1	6	0	0	0	0	153
13	0	0	0	0	0	14	33	3	8	4	0	0	9	11	20	13	12	18	2	6	0	0	0	0	152
14	0	0	0	0	0	27	36	39	24	17	14	6	43	44	65	62	43	52	56	26	0	0	0	0	553
15	0	0	0	0	0	16	45	46	55	55	38	16	3	10	31	32	40	27	3	22	0	0	0	0	438
16	0	0	0	0	0	11	21	22	23	5	9	12	5	3	5	9	45	25	5	0	0	0	0	0	201
17	0	0	0	0	0	39	23	20	38	19	32	50	34	22	29	30	37	37	19	1	0	0	0	0	432
18	0	0	0	0	0	47	32	26	34	48	18	7	12	16	11	14	23	26	29	1	0	0	0	0	344
19	0	0	0	0	0	25	46	43	45	20	6	4	0	0	10	5	12	9	14	2	0	0	0	0	242
20	0	0	0	0	0	24	11	16	22	3	0	0	0	0	0	4	17	18	3	4	0	0	0	0	122
21	0	0	0	0	0	18	40	41	47	18	28	53	28	36	61	64	56	36	19	5	0	0	0	0	550
22	0	0	0	0	0	7	21	45	40	38	40	18	3	2	8	41	39	16	1	6	0	0	0	0	325
23	0	0	0	0	0	15	21	5	7	0	0	0	10	23	27	40	37	51	33	4	0	0	0	0	274
24	0	0	0	0	0	19	40	44	49	61	16	2	43	33	7	0	20	34	31	1	0	0	0	0	401
25	0	0	0	0	0	22	33	41	69	27	2	1	14	19	27	23	20	22	16	3	0	0	0	0	340
26	0	0	0	0	0	63	19	33	43	39	45	41	46	19	22	1	4	25	23	0	0	0	0	0	424
27	0	0	0	0	0	22	90	133	20	8	0	2	0	0	0	5	18	16	0	6	0	0	0	0	319
28	0	0	0	0	0	15	10	17	16	1	0	14	2	14	25	21	24	24	27	4	0	0	0	0	214
29	0	0	0	0	0	20	4	1	0	0	0	5	37	42	19	25	23	18	6	4	0	0	0	0	203
30	0	0	0	0	0	15	0	1	0	0	0	0	4	0	0	275	753	595	206	20	0	0	0	0	1870
31	0	0	0	0	0	49	341	608	752	822	844	871	877	865	838	798	734	593	273	7	0	0	0	0	9271
Avg	0	0	0	0	0	39	87	132	143	120	86	67	65	59	53	61	94	91	41	6	0	0	0	0	1145
S D	0	0	0	0	0	78	92	172	213	225	196	181	166	159	149	147	185	156	62	8	0	0	0	0	1827
S/A	0	0	0	0	0	1.98	1.06	1.3	1.48	1.87	2.29	2.68	2.54	2.68	2.83	2.42	1.97	1.71	1.51	1.28	0	0	0	0	1.6
Min	0	0	0	0	0	7	0	1	0	0	0	0	0	0	0	0	4	9	0	0	0	0	0	0	122
Max	0	0	0	0	0	452	341	608	752	822	844	871	877	865	838	798	753	595	273	30	0	0	0	0	9271

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4966 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: XXXXXXXX
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 - May 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
2	0	0	0	0	0	4	63	121	167	223	279	355	495	516	225	180	225	121	41	0	0	0	0	0	3014
3	0	0	0	0	0	7	66	129	178	248	445	604	715	718 ?	612	405	302	174	59	0	0	0	0	0	4662
4	0	0	0	0	0	6	91	173	196	258	532	775 ?	792 ?	714 ?	725 ?	515	373	130	36	0	0	0	0	0	5315 ?
5	0	0	0	0	0	6	70	129	265	442	507 ?	555 ?	652	617 ?	386	404	285	137	40	0	0	0	0	0	4496
6	0	0	0	0	0	7	61	102	231	559 ?	?	?	?	?	?	?	?	195 ?	40	0	0	0	0	0	1195 ?
7	0	0	0	0	0	7	60	110	342	590 ?	?	?	?	?	?	?	?	204 ?	56	0	0	0	0	0	1368 ?
8	0	0	0	0	0	7	62	167	441 ?	?	?	?	?	?	?	?	?	194 ?	55	0	0	0	0	0	925 ?
9	0	0	0	0	0	7	67	262	437 ?	?	?	804 ?	555 ?	494 ?	?	?	413 ?	234	60	0	0	0	0	0	3332 ?
10	0	0	0	0	0	8	86	277	442 ?	573 ?	589 ?	716 ?	671 ?	654 ?	509 ?	449 ?	358 ?	182	59	1	0	0	0	0	5572 ?
11	0	0	0	0	0	7	94	297	470 ?	?	?	785 ?	642 ?	651 ?	547 ?	484 ?	358 ?	198	55	0	0	0	0	0	4589 ?
12	0	0	0	0	0	8	107	309	444 ?	?	?	683 ?	634 ?	597 ?	641 ?	?	408 ?	227	62	1	0	0	0	0	4120 ?
13	0	0	0	0	0	9	115	315	449 ?	603 ?	?	?	789 ?	531 ?	545 ?	528 ?	446	240	62	0	0	0	0	0	4631 ?
14	0	0	0	0	0	9	104	213	461 ?	557 ?	713 ?	?	728 ?	398	550	362	196	144	73	0 ?	0	0	0	0	4508 ?
15	0	0	0	0	0	8	98	226	380	405	610 ?	514 ?	?	?	523 ?	508 ?	324	231	68	1	0	0	0	0	3895 ?
16	0	0	0	0	0	9	105	298	447 ?	603 ?	551 ?	662 ?	609 ?	458 ?	540 ?	?	362	234	66	0	0	0	0	0	4945 ?
17	0	0	0	0	0	10	102	246	293	153	241	555 ?	405	218	370	457 ?	415	227	37	1	0	0	0	0	3729
18	0	0	0	0	0	13	107	300	380 ?	432	559 ?	736 ?	764 ?	788 ?	642 ?	633 ?	436 ?	214	60	1	0	0	0	0	6065 ?
19	0	0	0	0	0	10	105	227	323 ?	488 ?	543 ?	653 ?	?	?	692 ?	?	421 ?	232	50	2	0	0	0	0	3746 ?
20	0	0	0	0	0	9	120	332	463 ?	651 ?	?	?	753 ?	?	?	?	430 ?	233	73	1	0	0	0	0	3065 ?
21	0	0	0	0	0	8	71	147	327	542 ?	445 ?	597	610 ?	718 ?	495 ?	419	276	148	39	1	0	0	0	0	4842 ?
22	0	0	0	0	0	4	42	177	388 ?	530 ?	375	153	24	18	74	248	197	54 ?	24	4 ?	0	0	0	0	2312
23	0	0	0	0	0	13	123	330	461 ?	?	?	744 ?	616 ?	481	380 ?	320	366	160	68	1	0	0	0	0	4062 ?
24	0	0	0	0	0	8	77	144	273	396 ?	481 ?	?	661 ?	454 ?	616 ?	550 ?	437	227	94	1	0	0	0	0	4417 ?
25	0	0	0	0	0	14	124	215	377	584 ?	?	?	661 ?	715 ?	603 ?	571 ?	428 ?	245	34	2	0	0	0	0	4575 ?
26	0	0	0	0	0	14	120	283	444	375 ?	449 ?	465 ?	381	143	211	9	24	74	32	1	0	0	0	0	3024
27	0	0	0	0	0	12	117	338 ?	430	635 ?	?	?	756 ?	?	?	609 ?	304 ?	377 ?	265	80	2	0	0	0	3923 ?
28	0	0	0	0	0	16	124	315	455 ?	?	?	701 ?	685 ?	573 ?	607 ?	258 ?	326 ?	155	59	2	0	0	0	0	4276 ?
29	0	0	0	0	0	14	145	344 ?	?	?	?	753 ?	489	602	598 ?	475 ?	372 ?	229 ?	54	3	0	0	0	0	4077 ?
30	0	0	0	0	0	17	151	334 ?	?	?	?	?	?	?	?	84 ?	81	69	38	2	0	0	0	0	777 ?
31	0	0	0	0	0	13	63	90	100	115	123	130	136	132	127	112	90	71	41	3	0	0	0	0	1345
Avg	0	0	0	0	0	9	95	232	359	453	465	604	586	509	493	376	323	182	54	1	0	0	0	0	3693
S/D	0	0	0	0	0	3	27	83	106	159	145	188	190	207	174	165	115	59	16	1	0	0	0	0	1384
S/A	0	0	0	0	0	0.36	0.29	0.36	0.29	0.35	0.31	0.31	0.32	0.41	0.35	0.44	0.36	0.32	0.29	0.99	0	0	0	0	0.37
Min	0	0	0	0	0	4	42	90	100	115	123	130	24	18	74	9	24	54	24	0	0	0	0	0	777
Max	0	0	0	0	0	17	151	344	470	651	713	804	792	788	725	633	446	265	94	4	0	0	0	0	6065

Daylight Data Recovery: 0% missing; 35% exceed the 15% QC threshold -- 4966 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
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<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