

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - March 1999

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	1	82	289	520	695	806	854	817	711	553	346	123	3	0	0	0	0	0	5801
2	0	0	0	0	0	0	1	89	302	510	671	782	824	799	698	503	317	110	3	0	0	0	0	0	5609
3	0	0	0	0	0	0	2	63	134	242	224	462	121	70	366	547	361	124	4	0	0	0	0	0	2719
4	0	0	0	0	0	0	1	102	323	533	715	833	877	846	741	574	361	129	4	0	0	0	0	0	6039
5	0	0	0	0	0	0	2	116	301	515	693	730	804	761	619	552	272	121	5	0	0	0	0	0	5488
6	0	0	0	0	0	0	1	90	214	377	287	358	448	652	649	532	318	124	4	0	0	0	0	0	4055
7	0	0	0	0	0	0	2	101	313	529	693	814	857	830	728	564	355	117	4	0	0	0	0	0	5904
8	0	0	0	0	0	0	2	120	336	540	716	831	860	791	664	491	313	97	3	0	0	0	0	0	5765
9	0	0	0	0	0	0	2	84	74	67	129	60	91	354	655	363	324	115	8	0	0	0	0	0	2327
10	0	0	0	0	0	0	3	70	263	543	716	828	866	839	729	565	360	135	6	0	0	0	0	0	5925
11	0	0	0	0	0	0	3	112	323	529	402	691	834	813	717	555	338	123	7	0	0	0	0	0	5448
12	0	0	0	0	0	0	4	126	344	551	726	835	880	828	674	392	199	73	4	0	0	0	0	0	5636
13	0	0	0	0	0	0	3	121	230	304	548	766	843	796	705	413	184	62	4	0	0	0	0	0	4977
14	0	0	0	0	0	0	0	9	26	50	160	53	74	51	101	216	247	92	13	0	0	0	0	0	1092
15	0	0	0	0	0	0	3	51	149	237	210	147	242	461	161	153	214	97	8	0	0	0	0	0	2132
16	0	0	0	0	0	0	9	115	339	533	712	841	883	850	746	575	369	144	10	0	0	0	0	0	6126
17	0	0	0	0	0	0	8	128	330	552	726	834	871	835	691	568	368	146	5	0	0	0	0	0	6061
18	0	0	0	0	0	0	9	139	363	572	738	847	886	855	732	557	353	144	12	0	0	0	0	0	6207
19	0	0	0	0	0	0	10	145	369	577	748	860	901	852	747	580	367	143	9	0	0	0	0	0	6307
20	0	0	0	0	0	0	14	126	244	313	488	522	547	675	639	498	242	107	7	0	0	0	0	0	4421
21	0	0	0	0	0	0	9	120	214	262	237	142	603	734	679	352	212	160	14	0	0	0	0	0	3738
22	0	0	0	0	0	0	13	163	398	611	763	878	910	869	776	603	402	164	13	0	0	0	0	0	6564
23	0	0	0	0	0	0	13	111	297	603	752	829	933	815	719	601	391	144	18	0	0	0	0	0	6225
24	0	0	0	0	0	0	20	182	326	565	717	831	881	859	728	557	354	149	14	0	0	0	0	0	6181
25	0	0	0	0	0	0	21	127	342	550	697	814	873	818	625	535	240	38	3	0	0	0	0	0	5683
26	0	0	0	0	0	0	4	20	37	119	133	49	81	83	71	135	68	16	1	0	0	0	0	0	819
27	0	0	0	0	0	0	20	179	415	622	762	900	944	904	792	616	402	168	16	0	0	0	0	0	6739
28	0	0	0	0	0	0	24	190	369	621	780	902	940	901	793	616	402	152	18	0	0	0	0	0	6708
29	0	0	0	0	0	0	25	188	425	495	655	835	912	838	719	442	312	97	9	0	0	0	0	0	5952
30	0	0	0	0	0	0	32	169	401	597	694	615	798	513	517	320	186	70	7	0	0	0	0	0	4919
31	0	0	0	0	0	0	3	14	65	271	743	555	524	268	284	246	69	31	12	0	0	0	0	0	3085
Avg	0	0	0	0	0	0	8	111	276	449	578	653	708	690	619	477	298	113	8	0	0	0	0	0	4989
S D	0	0	0	0	0	0	8	47	110	168	221	278	285	254	198	136	89	38	5	0	0	0	0	0	1638
S/A	0	0	0	0	0	0	1	0.43	0.4	0.38	0.38	0.43	0.4	0.37	0.32	0.29	0.3	0.34	0.6	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	9	26	50	129	49	74	51	71	135	68	16	1	0	0	0	0	0	819
Max	0	0	0	0	0	0	32	190	425	622	780	902	944	904	793	616	402	168	18	0	0	0	0	0	6739

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4453 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
Note: Instrument was changed during month.

**Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - March 1999**

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	2	290	571	895	982	1006	1003	977	958	906	785	487	12	0	0	0	0	0	8873
2	0	0	0	0	0	0	4	380	743	882	938	967	970	956	920	745	644	362	8	0	0	0	0	0	8519
3	0	0	0	0	0	0	2	50	39	65	67	137	8	6	295	852	806	454	21	0	0	0	0	0	2801
4	0	0	0	0	0	0	3	459	780	900	981	1020	1026	1020	992	930	809	501	122	0	0	0	0	0	9542
5	0	0	0	0	0	0	22	534	613	845	910	569	716	681	512	723	325	343	14	0	0	0	0	0	6807
6	0	0	0	0	0	0	4	161	102	301	39	77	63	501	739	799	561	368	9	0	0	0	0	0	3725
7	0	0	0	0	0	0	20	354	680	837	889	942	952	954	925	861	731	354	9	0	0	0	0	0	8508
8	0	0	0	0	0	0	12	478	759	840	907	922	859	754	648	543	331	147	7	0	0	0	0	0	7209
9	0	0	0	0	0	0	8	46	17	12	19	7	10	79	585	157	559	312	19	0	0	0	0	0	1829
10	0	0	0	0	0	0	8	39	237	809	901	927	930	935	888	831	713	433	35	0	0	0	0	0	7688
11	0	0	0	0	0	0	17	339	626	697	201	559	848	887	860	780	609	326	20	0	0	0	0	0	6770
12	0	0	0	0	0	0	17	436	703	819	907	929	942	886	673	281	55	32	6	0	0	0	0	0	6686
13	0	0	0	0	0	0	8	234	177	62	171	639	816	804	764	272	37	34	6	0	0	0	0	0	4025
14	0	0	0	0	0	0	5	6	6	8	22	6	8	5	14	39	99	69	54	0	0	0	0	0	340
15	0	0	0	0	0	0	11	25	41	34	32	17	38	86	21	40	158	126	29	0	0	0	0	0	657
16	0	0	0	0	0	0	43	276	611	712	780	889	907	896	865	786	669	403	46	0	0	0	0	0	7884
17	0	0	0	0	0	0	30	361	581	771	857	889	889	843	720	761	668	415	18	0	0	0	0	0	7801
18	0	0	0	0	0	0	37	379	676	809	872	907	919	914	841	749	621	389	49	0	0	0	0	0	8163
19	0	0	0	0	0	0	42	409	682	804	878	916	929	877	850	793	650	382	35	0	0	0	0	0	8248
20	0	0	0	0	0	0	30	105	66	47	184	124	144	416	466	421	125	63	14	0	0	0	0	0	2205
21	0	0	0	0	0	0	21	166	81	109	56	17	367	545	615	199	100	341	44	0	0	0	0	0	2661
22	0	0	0	0	0	0	62	483	755	866	901	947	954	933	908	840	750	473	66	0	0	0	0	0	8936
23	0	0	0	0	0	0	50	71	110	802	884	812	913	748	674	804	698	343	48	0	0	0	0	0	6955
24	0	0	0	0	0	0	74	300	412	694	728	775	780	769	737	624	520	310	34	0	0	0	0	0	6755
25	0	0	0	0	0	0	39	190	475	626	691	742	746	698	487	573	265	17	3	0	0	0	0	0	5552
26	0	0	0	0	0	0	8	9	8	19	18	5	8	9	20	14	6	3	0	0	0	0	0	0	137
27	0	0	0	0	0	0	67	428	686	797	817	917	943	936	899	829	707	441	62	0	0	0	0	0	8530
28	0	0	0	0	0	0	101	475	608	812	867	921	928	918	893	823	681	338	54	0	0	0	0	0	8419
29	0	0	0	0	0	0	97	460	635	374	413	763	876	784	689	350	409	114	13	0	0	0	0	0	5978
30	0	0	0	0	0	0	81	334	628	701	593	367	493	78	142	43	47	30	9	0	0	0	0	0	3546
31	0	0	0	0	0	0	5	5	15	39	510	88	139	35	43	47	14	16	20	0	0	0	0	0	976

Avg	0	0	0	0	0	0	30	267	423	548	581	606	649	643	633	562	457	272	29	0	0	0	0	0	5701
S D	0	0	0	0	0	0	29	171	289	346	368	381	377	352	303	312	279	167	25	0	0	0	0	0	2920
S/A	0	0	0	0	0	0	0.95	0.64	0.68	0.63	0.63	0.63	0.58	0.55	0.48	0.56	0.61	0.61	0.88	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	2	5	6	8	18	5	8	5	9	20	14	6	3	0	0	0	0	0	137
Max	0	0	0	0	0	0	101	534	780	900	982	1020	1026	1020	992	930	809	501	122	0	0	0	0	0	9542

Daylight Data Recovery: 2% missing; 0% exceed the 15% QC threshold -- 118707 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 - March 1999

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	1	35	103	70	67	72	87	91	74	65	53	32	2	0	0	0	0	0	752
2	0	0	0	0	0	0	1	30	54	63	67	73	78	85	82	97	74	40	2	0	0	0	0	0	747
3	0	0	0	0	0	0	1	57	121	207	183	360	114	66	177	84	55	35	3	0	0	0	0	0	1463
4	0	0	0	0	0	0	1	31	57	69	74	76	80	76	70	63	51	33	2	0	0	0	0	0	682
5	0	0	0	0	0	0	1	36	90	74	96	306	244	244	269	155	149	53	4	0	0	0	0	0	1722
6	0	0	0	0	0	0	1	62	183	226	261	300	398	271	146	87	95	50	4	0	0	0	0	0	2084
7	0	0	0	0	0	0	1	40	70	85	99	102	105	98	91	82	67	46	3	0	0	0	0	0	891
8	0	0	0	0	0	0	2	40	63	91	107	131	178	209	216	183	179	61	3	0	0	0	0	0	1462
9	0	0	0	0	0	0	2	75	68	61	116	54	83	294	243	279	108	41	7	0	0	0	0	0	1432
10	0	0	0	0	0	0	2	64	173	102	104	115	121	111	107	91	73	44	4	0	0	0	0	0	1112
11	0	0	0	0	0	0	3	49	89	149	261	261	150	120	112	107	90	53	5	0	0	0	0	0	1449
12	0	0	0	0	0	0	3	44	79	98	101	114	117	131	197	227	175	66	3	0	0	0	0	0	1356
13	0	0	0	0	0	0	3	72	183	269	432	262	179	161	162	244	168	55	3	0	0	0	0	0	2194
14	0	0	0	0	0	0	0	8	24	46	145	49	67	47	92	194	209	79	10	0	0	0	0	0	970
15	0	0	0	0	0	0	3	46	134	218	188	134	210	392	145	131	139	73	6	0	0	0	0	0	1819
16	0	0	0	0	0	0	7	59	97	126	159	135	135	132	123	111	88	52	7	0	0	0	0	0	1231
17	0	0	0	0	0	0	6	53	96	107	117	125	134	157	169	118	86	50	4	0	0	0	0	0	1222
18	0	0	0	0	0	0	7	58	88	103	114	119	120	116	120	111	89	54	8	0	0	0	0	0	1108
19	0	0	0	0	0	0	7	56	89	107	116	121	123	140	127	104	88	53	6	0	0	0	0	0	1137
20	0	0	0	0	0	0	13	104	218	285	357	422	425	334	302	242	188	90	6	0	0	0	0	0	2986
21	0	0	0	0	0	0	8	81	178	201	199	128	293	286	224	226	171	79	10	0	0	0	0	0	2083
22	0	0	0	0	0	0	9	53	79	94	103	103	101	102	105	93	75	49	8	0	0	0	0	0	973
23	0	0	0	0	0	0	12	95	244	119	101	163	155	198	225	111	85	56	14	0	0	0	0	0	1579
24	0	0	0	0	0	0	17	104	146	144	177	191	213	222	178	174	126	71	11	0	0	0	0	0	1775
25	0	0	0	0	0	0	18	79	135	167	182	198	233	238	260	180	110	34	2	0	0	0	0	0	1836
26	0	0	0	0	0	0	4	18	34	107	120	45	74	76	64	122	62	15	1	0	0	0	0	0	742
27	0	0	0	0	0	0	14	70	108	129	146	133	128	119	115	101	85	56	9	0	0	0	0	0	1211
28	0	0	0	0	0	0	15	67	93	114	123	128	133	129	118	103	95	64	13	0	0	0	0	0	1195
29	0	0	0	0	0	0	16	67	139	256	343	189	147	175	195	228	123	62	8	0	0	0	0	0	1947
30	0	0	0	0	0	0	26	78	112	156	241	304	367	447	409	293	165	62	6	0	0	0	0	0	2664
31	0	0	0	0	0	0	3	12	58	246	352	481	401	238	251	217	62	28	10	0	0	0	0	0	2358
Avg	0	0	0	0	0	0	7	56	110	138	169	174	174	178	167	149	109	53	6	0	0	0	0	0	1490
S/D	0	0	0	0	0	0	6	24	52	67	93	109	101	97	78	66	45	16	3	0	0	0	0	0	571
S/A	0	0	0	0	0	0	0.97	0.42	0.47	0.48	0.55	0.63	0.58	0.55	0.47	0.44	0.41	0.31	0.55	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	0	8	24	46	67	45	67	47	64	63	51	15	1	0	0	0	0	0	682
Max	0	0	0	0	0	0	26	104	244	285	432	481	425	447	409	293	209	90	14	0	0	0	0	0	2986

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4453 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
Note: Instrument was changed during month.