

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - March 2001

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	0	46	258	429	509	705	706	677	616	499	311	102	4	0	0	0	0	0	4863
2	0	0	0	0	0	0	2	26	46	188	418	448	692	725	546	458	150	80	6	0	0	0	0	0	3786
3	0	0	0	0	0	0	1	91	226	352	488	556	238	174	52	34	133	62	4	0	0	0	0	0	2410
4	0	0	0	0	0	0	0	4	31	74	74	166	317	343	393	356	240	70	4	0	0	0	0	0	2073
5	0	0	0	0	0	0	1	91	303	509	674	789	841	806	704	541	336	119	5	0	0	0	0	0	5721
6	0	0	0	0	0	0	2	103	321	526	682	791	832	802	711	547	346	121	5	0	0	0	0	0	5789
7	0	0	0	0	0	0	2	105	321	528	691	802	852	818	719	555	347	122	5	0	0	0	0	0	5868
8	0	0	0	0	0	0	2	102	320	523	684	798	838	798	698	538	334	114	5	0	0	0	0	0	5752
9	0	0	0	0	0	0	2	59	150	313	359	554	302	288	263	146	67	21	0	0	0	0	0	0	2525
10	0	0	0	0	0	0	3	103	321	532	702	818	863	827	723	559	353	125	5	0	0	0	0	0	5933
11	0	0	0	0	0	0	3	91	401 ?	524	672	672	680	618	486	477	320	94	10	0	0	0	0	0	5048
12	0	0	0	0	0	0	1	33	101	151	85	159	234	243	132	354	110	17	1	0	0	0	0	0	1621
13	0	0	0	0	0	0	1	52	55	189	476	769	830	816	705	553	356	129	8	0	0	0	0	0	4938
14	0	0	0	0	0	0	6	122	220	411	562	687	869	811	621	450	145	36	2	0	0	0	0	0	4945
15	0	0	0	0	0	0	0	5	6	6	16	9	107	141	400	202	44	80	16	0	0	0	0	0	1033
16	0	0	0	0	0	0	2	62	182	513	701	821	779	756	718	521	357	134	10	0	0	0	0	0	5556
17	0	0	0	0	0	0	4	129	319	481	364	353	552	526	397	187	100	24	4	0	0	0	0	0	3439
18	0	0	0	0	0	0	1	14	53	153	101	148	120	191	78	70	100	45	6	0	0	0	0	0	1080
19	0	0	0	0	0	0	3	27	73	160	181	123	185	106	140	70	33	13	2	0	0	0	0	0	1115
20	0	0	0	0	0	0	1	12	55	137	612	622	462	576	518	306	205	142	8	0	0	0	0	0	3656
21	0	0	0	0	0	0	7	23	89	155	116	213	505	457	324	144	43	39	2	0	0	0	0	0	2119
22	0	0	0	0	0	0	15	153	392	585	758	863	902	863	754	595	388	154	13	0	0	0	0	0	6435
23	0	0	0	0	0	0	15	164	394	599	769	867	899	855	749	585	374	152	12	0	0	0	0	0	6433
24	0	0	0	0	0	0	20	159	288	471	544	798	873	832	709	458	354	102	12	0	0	0	0	0	5620
25	0	0	0	0	0	0	4	35	49	58	94	118	75	161	104	81	217	109	13	0	0	0	0	0	1118
26	0	0	0	0	0	0	19	178 ?	408	611	775	878	916	877	771	610	402	159	15	0	0	0	0	0	6620
27	0	0	0	0	0	0	15	117	348	503	628	773	821	862	742	582	325	160	15	0	0	0	0	0	5890
28	0	0	0	0	0	0	28	190	363	596	650	879	502	488	526	217	73	21	1	0	0	0	0	0	4534
29	0	0	0	0	0	0	2	19	57	108	116	55	86	304	651	438	137	58	6	0	0	0	0	0	2037
30	0	0	0	0	0	0	4	130	210	166	161	320	255	530	357	237	154	157	12	0	0	0	0	0	2694
Avg	0	0	0	0	0	0	6	82	212	352	455	552	571	576	510	379	229	92	7	0	0	0	0	0	4022
S D	0	0	0	0	0	0	7	55	134	195	253	295	297	264	231	187	123	48	5	0	0	0	0	0	1873
S/A	0	0	0	0	0	0	1.26	0.67	0.63	0.55	0.56	0.53	0.52	0.46	0.45	0.49	0.54	0.52	0.66	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	0	4	6	6	16	9	75	106	52	34	33	13	0	0	0	0	0	0	1033
Max	0	0	0	0	0	0	28	190	408	611	775	879	916	877	771	610	402	160	16	0	0	0	0	0	6620

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4303 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/W/m-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 - March 2001**

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	1	29	511	482	388	622	645	583	733	779	583	195	9	0	0	0	0	0	5559
2	0	0	0	0	0	0	10	23	7	29	180	113	555	681	495	498	63	50	12	0	0	0	0	0	2716
3	0	0	0	0	0	0	7	110	125	184	217	263	41	16	6	5	42	26	9	0	0	0	0	0	1052
4	0	0	0	0	0	0	2	1	4	8	6	14	32	48	73	134	143	37	12	0	0	0	0	0	515
5	0	0	0	0	0	0	10	337	662	768	836	898	932	914	881	809	676	386	19	0	0	0	0	0	8125
6	0	0	0	0	0	0	11	435	738	838	863	885	887	886	887	821	707	389	19	0	0	0	0	0	8364
7	0	0	0	0	0	0	40	447	746	866	921	952	973	960	932	866	739	431	22	0	0	0	0	0	8896
8	0	0	0	0	0	0	15	364	706	830	883	934	935	896	866	807	673	355	21	0	0	0	0	0	8288
9	0	0	0	0	0	0	12	43	41	98	51	241	32	30	35	17	12	8	1	0	0	0	0	0	620
10	0	0	0	0	0	0	10	323	662	813	889	932	949	934	903	844	723	419	59	0	0	0	0	0	8461
11	0	0	0	0	0	0	83	113	517	688	739	481	412	336	275	448	426	86	11	0	0	0	0	0	4614
12	0	0	0	0	0	0	3	14	21	22	9	18	21	25	18	116	21	7	4	0	0	0	0	0	298
13	0	0	0	0	0	0	1	26	9	42	266	746	840	910	857	815	714	401	33	0	0	0	0	0	5661
14	0	0	0	0	0	0	8	221	184	302	408	515	956	808	519	327	30	10	3	0	0	0	0	0	4292
15	0	0	0	0	0	0	1	2	1	1	2	1	9	14	107	37	10	40	49	0	0	0	0	0	274
16	0	0	0	0	0	0	8	84	68	592	778	894	706	653	824	650	670	390	46	0	0	0	0	0	6364
17	0	0	0	0	0	0	10	353	379	390	70	51	232	156	76	27	18	9	9	0	0	0	0	0	1781
18	0	0	0	0	0	0	7	6	11	21	10	15	11	18	8	9	18	14	8	0	0	0	0	0	157
19	0	0	0	0	0	0	38	10	14	20	18	11	22	9	13	7	6	4	6	0	0	0	0	0	179
20	0	0	0	0	0	0	3	4	9	63	555	419	138	297	295	84	69	144	9	0	0	0	0	0	2089
21	0	0	0	0	0	0	19	10	17	20	12	26	126	98	44	23	7	13	2	0	0	0	0	0	415
22	0	0	0	0	0	0	78	456	772	841	928	957	967	955	920	872	758	474	75	0	0	0	0	0	9055
23	0	0	0	0	0	0	87	514	775	868	931	944	944	928	888	829	693	448	71	0	0	0	0	0	8920
24	0	0	0	0	0	0	46	238	196	378	362	740	840	835	737	442	553	111	27	0	0	0	0	0	5505
25	0	0	0	0	0	0	7	13	10	8	10	11	7	16	11	11	50	92	123	0	0	0	0	0	370
26	0	0	0	0	0	0	104	764	766	859	910	934	947	936	907	860	754	443	52	0	0	0	0	0	9235
27	0	0	0	0	0	0	23	172	422	363	524	601	734	878	808	769	483	373	53	0	0	0	0	0	6204
28	0	0	0	0	0	0	113	314	330	568	437	718	136	80	164	36	14	6	4	0	0	0	0	0	2920
29	0	0	0	0	0	0	2	5	9	14	12	5	7	62	397	281	28	20	6	0	0	0	0	0	848
30	0	0	0	0	0	0	6	129	145	21	18	32	18	201	94	58	92	313	20	0	0	0	0	0	1146
Avg	0	0	0	0	0	0	26	185	295	367	408	466	468	472	459	409	326	190	27	0	0	0	0	0	4097
S D	0	0	0	0	0	0	33	198	301	342	363	383	404	394	373	354	315	180	28	0	0	0	0	0	3358
S/A	0	0	0	0	0	0	1.28	1.07	1.02	0.93	0.89	0.82	0.86	0.83	0.81	0.87	0.97	0.95	1.04	0	0	0	0	0	0.82
Min	0	0	0	0	0	0	1	1	1	1	2	1	7	9	6	5	6	4	1	0	0	0	0	0	157
Max	0	0	0	0	0	0	113	764	775	868	931	957	973	960	932	872	758	474	123	0	0	0	0	0	9235

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4303 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 2001

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	0	42	86	188	258	251	213	245	129	78	92	63	4	0	0	0	0	0	1650
2	0	0	0	0	0	0	1	24	44	173	297	364	265	216	213	183	125	72	5	0	0	0	0	0	1985
3	0	0	0	0	0	0	1	71	188	260	345	362	206	162	48	32	119	56	3	0	0	0	0	0	1852
4	0	0	0	0	0	0	0	4	30	70	69	156	292	307	345	284	187	62	3	0	0	0	0	0	1809
5	0	0	0	0	0	0	1	36	74	111	123	118	114	112	104	94	74	44	4	0	0	0	0	0	1008
6	0	0	0	0	0	0	1	33	63	86	110	126	136	126	104	90	70	43	4	0	0	0	0	0	994
7	0	0	0	0	0	0	2	32	56	69	78	83	84	81	78	70	56	35	3	0	0	0	0	0	728
8	0	0	0	0	0	0	2	40	65	81	90	88	95	107	98	83	66	41	4	0	0	0	0	0	859
9	0	0	0	0	0	0	2	53	135	258	324	371	277	265	238	137	62	20	0	0	0	0	0	0	2142
10	0	0	0	0	0	0	3	44	75	90	97	102	102	100	91	77	62	37	3	0	0	0	0	0	883
11	0	0	0	0	0	0	3	71	206	?	146	166	300	348	355	300	214	141	73	9	0	0	0	0	2333
12	0	0	0	0	0	0	1	30	93	139	79	145	217	223	120	286	101	16	1	0	0	0	0	0	1450
13	0	0	0	0	0	0	1	46	52	165	288	186	146	97	98	81	62	41	5	0	0	0	0	0	1268
14	0	0	0	0	0	0	5	83	151	251	280	284	87	170	253	257	132	34	2	0	0	0	0	0	1989
15	0	0	0	0	0	0	0	4	5	5	15	8	100	130	324	180	40	73	14	0	0	0	0	0	900
16	0	0	0	0	0	0	1	42	154	170	152	111	196	232	125	141	75	45	6	0	0	0	0	0	1452
17	0	0	0	0	0	0	3	52	169	255	315	312	359	399	342	171	92	22	4	0	0	0	0	0	2495
18	0	0	0	0	0	0	1	13	48	140	93	136	111	177	72	65	93	42	6	0	0	0	0	0	997
19	0	0	0	0	0	0	3	25	67	148	167	114	167	98	130	66	30	12	2	0	0	0	0	0	1030
20	0	0	0	0	0	0	1	12	51	97	201	285	346	337	295	253	174	109	8	0	0	0	0	0	2167
21	0	0	0	0	0	0	7	21	82	143	108	192	399	377	291	131	40	36	2	0	0	0	0	0	1828
22	0	0	0	0	0	0	9	49	65	82	78	80	81	79	73	66	57	39	7	0	0	0	0	0	765
23	0	0	0	0	0	0	8	43	62	76	83	91	94	90	90	79	71	42	7	0	0	0	0	0	837
24	0	0	0	0	0	0	17	103	206	242	271	186	154	141	158	190	109	75	10	0	0	0	0	0	1862
25	0	0	0	0	0	0	4	32	45	53	87	108	69	148	96	74	195	90	12	0	0	0	0	0	1011
26	0	0	0	0	0	0	10	47	70	83	94	100	99	96	89	79	65	45	9	0	0	0	0	0	886
27	0	0	0	0	0	0	13	81	167	268	242	268	184	126	132	104	103	65	10	0	0	0	0	0	1762
28	0	0	0	0	0	0	21	109	211	244	322	276	383	421	399	194	67	19	1	0	0	0	0	0	2667
29	0	0	0	0	0	0	2	17	54	99	107	51	80	254	346	258	124	53	5	0	0	0	0	0	1450
30	0	0	0	0	0	0	4	96	151	153	147	293	240	364	286	199	118	73	10	0	0	0	0	0	2135
Avg	0	0	0	0	0	0	4	45	97	145	170	185	188	201	182	141	93	49	5	0	0	0	0	0	1506
S D	0	0	0	0	0	0	5	28	58	72	96	102	101	106	105	75	42	22	3	0	0	0	0	0	569
S/A	0	0	0	0	0	0	1.19	0.61	0.6	0.5	0.57	0.55	0.54	0.53	0.58	0.53	0.45	0.45	0.64	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	0	4	5	15	8	69	79	48	32	30	12	0	0	0	0	0	0	0	728
Max	0	0	0	0	0	0	21	109	211	268	345	371	399	421	399	286	195	109	14	0	0	0	0	0	2667

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 4303 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