

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - December 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	0	29	217 ?	319	486	534	548	488	364	234	75	0	0	0	0	0	0	0	3295
2	0	0	0	0	0	0	0	29	145 ?	342 ?	464	548	567	519	412	252	85	1	0	0	0	0	0	0	3363
3	0	0	0	0	0	0	0	28	148	362	466	595	317	568	369	242	99	1	0	0	0	0	0	0	3195
4	0	0	0	0	0	0	0	35	140	284	391	473	430	418	215	209	77	2	0	0	0	0	0	0	2673
5	0	0	0	0	0	0	0	20	93	169	358	532	559	523	442	251	90	1	0	0	0	0	0	0	3039
6	0	0	0	0	0	0	0	22	113	251	462	543	562	519	412	252	88	1	0	0	0	0	0	0	3225
7	0	0	0	0	0	0	0	21	159	256	462	551	557	526	413	254	86	1	0	0	0	0	0	0	3285
8	0	0	0	0	0	0	0	25	168	312	364	537	565	523	413	254	84	0	0	0	0	0	0	0	3245
9	0	0	0	0	0	0	0	15	79	323	452	548	571	520	419	260	89	1	0	0	0	0	0	0	3277
10	0	0	0	0	0	0	0	21	98	337	424	493	521	325	301	207	85	1	0	0	0	0	0	0	2814
11	0	0	0	0	0	0	0	19	170	337	474	550	569	522	419	260	92	2	0	0	0	0	0	0	3413
12	0	0	0	0	0	0	0	6	40	107	202	170	124	91	107	36	13	0	0	0	0	0	0	0	896
13	0	0	0	0	0	0	0	19	104	108	147	182	146	169	68	51	39	2	0	0	0	0	0	0	1034
14	0	0	0	0	0	0	0	1	20	51	76	130	202	166	132	70	26	1	0	0	0	0	0	0	874
15	0	0	0	0	0	0	0	9	41	105	107	101	90	112	66	38	17	3	0	0	0	0	0	0	688
16	0	0	0	0	0	0	0	14	149	335	482	565	590	550	445	279	104	2	0	0	0	0	0	0	3514
17	0	0	0	0	0	0	0	12	160	333	475	546	586	551	446	279	104	3	0	0	0	0	0	0	3496
18	0	0	0	0	0	0	0	12	171	342	482	561	566	527	429	277	93	1	0	0	0	0	0	0	3461
19	0	0	0	0	0	0	0	7	57	179	431	389	452	487	411	254	89	2	0	0	0	0	0	0	2757
20	0	0	0	0	0	0	0	14	116	341	408	513	554	464	340	231	95	3	0	0	0	0	0	0	3079
21	0	0	0	0	0	0	0	17	123	279	345	469	525	467	331	207	73	3	0	0	0	0	0	0	2839
22	0	0	0	0	0	0	0	7	68	151	411	479	504	354	280	153	46	4	0	0	0	0	0	0	2458
23	0	0	0	0	0	0	0	6	59	169	126	85	108	68	68	25	12	1	0	0	0	0	0	0	727
24	0	0	0	0	0	0	0	6	43	72	100	85	124	84	71	45	22	1	0	0	0	0	0	0	652
25	0	0	0	0	0	0	0	1	9	45	52	59	62	38	28	18	4	0	0	0	0	0	0	0	316
26	0	0	0	0	0	0	0	2	20	39	47	33	40	53	63	63	36	3	0	0	0	0	0	0	399
27	0	0	0	0	0	0	0	6	46	128	261	513	573	531	431	154	47	2	0	0	0	0	0	0	2694
28	0	0	0	0	0	0	0	14	74	171	248	269	256	389	333	222	99	5	0	0	0	0	0	0	2080
29	0	0	0	0	0	0	0	5	42	106	70	70	91	132	157	94	70	6	0	0	0	0	0	0	843
30	0	0	0	0	0	0	0	9	151	336	491	581	612	575	473	312	129	7	0	0	0	0	0	0	3676
31	0	0	0	0	0	0	0	9	144	320	471	559	592	559	456	303	118	4	0	0	0	0	0	0	3535
Avg	0	0	0	0	0	0	0	14	102	226	330	396	405	381	300	187	71	2	0	0	0	0	0	0	2414
S D	0	0	0	0	0	0	0	9	55	109	158	199	204	189	150	95	34	2	0	0	0	0	0	0	1142
S/A	0	0	0	0	0	0	0	0.62	0.53	0.48	0.48	0.5	0.5	0.5	0.51	0.48	0.77	0	0	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	0	1	9	39	47	33	40	38	28	18	4	0	0	0	0	0	0	0	316
Max	0	0	0	0	0	0	0	35	217	362	491	595	612	575	473	312	129	7	0	0	0	0	0	0	3676

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3755 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 - December 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	0	18	613	556	685	665	726	697	601	529	281	1	0	0	0	0	0	0	5371
2	0	0	0	0	0	0	0	60	568	811	748	802	831	818	768	629	363	3	0	0	0	0	0	0	6403
3	0	0	0	0	0	0	0	68	351	741	796	828	286	756	548	405	303	4	0	0	0	0	0	0	5086
4	0	0	0	0	0	0	0	129	334	461	481	565	524	510	219	398	257	3	0	0	0	0	0	0	3882
5	0	0	0	0	0	0	0	20	26	24	243	746	820	788	649	470	192	1	0	0	0	0	0	0	3979
6	0	0	0	0	0	0	0	78	252	482	782	828	840	814	781	647	398	5	0	0	0	0	0	0	5907
7	0	0	0	0	0	0	0	44	457	525	816	875	844	854	815	674	390	4	0	0	0	0	0	0	6297
8	0	0	0	0	0	0	0	49	391	518	492	827	876	862	770	641	327	0	0	0	0	0	0	0	5753
9	0	0	0	0	0	0	0	10	19	600	754	849	872	854	819	695	432	8	0	0	0	0	0	0	5911
10	0	0	0	0	0	0	0	19	24	401	355	399	346	96	207	150	237	1	0	0	0	0	0	0	2234
11	0	0	0	0	0	0	0	75	577	762	845	875	883	862	813	682	420	9	0	0	0	0	0	0	6803
12	0	0	0	0	0	0	0	8	6	8	23	9	6	5	8	3	2	0	0	0	0	0	0	0	78
13	0	0	0	0	0	0	0	45	29	13	18	12	7	16	3	5	10	1	0	0	0	0	0	0	159
14	0	0	0	0	0	0	0	2	3	4	5	9	14	11	12	7	6	2	0	0	0	0	0	0	76
15	0	0	0	0	0	0	0	5	11	10	8	6	5	6	4	4	4	6	0	0	0	0	0	0	68
16	0	0	0	0	0	0	0	9	470	795	900	933	950	940	897	764	516	24	0	0	0	0	0	0	7199
17	0	0	0	0	0	0	0	36	562	765	861	849	924	931	880	732	468	24	0	0	0	0	0	0	7032
18	0	0	0	0	0	0	0	50	651	823	910	923	844	840	772	624	363	6	0	0	0	0	0	0	6806
19	0	0	0	0	0	0	0	4	13	184	595	404	514	733	760	594	329	16	0	0	0	0	0	0	4146
20	0	0	0	0	0	0	0	38	315	755	709	759	810	689	460	337	293	26	0	0	0	0	0	0	5192
21	0	0	0	0	0	0	0	18	71	469	478	493	589	528	390	218	92	8	0	0	0	0	0	0	3355
22	0	0	0	0	0	0	0	54	14	35	470	541	504	242	144	38	12	25	0	0	0	0	0	0	2078
23	0	0	0	0	0	0	0	5	15	42	10	5	6	4	4	2	1	1	0	0	0	0	0	0	96
24	0	0	0	0	0	0	0	5	8	7	7	5	7	5	5	4	1	0	0	0	0	0	0	0	59
25	0	0	0	0	0	0	0	1	1	4	3	3	3	2	2	1	1	0	0	0	0	0	0	0	22
26	0	0	0	0	0	0	0	1	3	3	3	2	2	3	4	7	9	2	0	0	0	0	0	0	38
27	0	0	0	0	0	0	0	5	10	18	33	657	870	844	738	32	4	14	0	0	0	0	0	0	3224
28	0	0	0	0	0	0	0	15	27	19	29	25	23	183	282	363	188	11	0	0	0	0	0	0	1166
29	0	0	0	0	0	0	0	4	8	12	4	4	5	10	16	18	37	16	0	0	0	0	0	0	134
30	0	0	0	0	0	0	0	43	585	822	931	964	981	971	930	814	580	84	0	0	0	0	0	0	7702
31	0	0	0	0	0	0	0	42	553	788	898	930	946	937	852	769	502	30	0	0	0	0	0	0	7246
Avg	0	0	0	0	0	0	0	31	225	370	448	509	512	510	457	363	226	11	0	0	0	0	0	0	3661
S/D	0	0	0	0	0	0	0	30	244	331	360	374	384	382	352	300	188	16	0	0	0	0	0	0	2758
S/A	0	0	0	0	0	0	0	0.95	1.09	0.89	0.8	0.73	0.75	0.75	0.77	0.83	0.83	1.48	0	0	0	0	0	0	0.75
Min	0	0	0	0	0	0	0	1	1	3	3	2	2	2	2	1	1	0	0	0	0	0	0	0	22
Max	0	0	0	0	0	0	0	129	651	823	931	964	981	971	930	814	580	84	0	0	0	0	0	0	7702

Daylight Data Recovery: 3% missing; 0% exceed the 15% QC threshold -- 106710 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
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - December 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	0	27	81	96	136	151	121	107	90	64	28	1	0	0	0	0	0	0	901
2	0	0	0	0	0	0	0	22	62	81	83	88	80	73	63	49	25	1	0	0	0	0	0	0	627
3	0	0	0	0	0	0	0	22	60	69	63	122	151	159	115	106	49	1	0	0	0	0	0	0	916
4	0	0	0	0	0	0	0	21	70	103	150	150	124	139	118	86	33	2	0	0	0	0	0	0	997
5	0	0	0	0	0	0	0	19	87	159	230	109	84	97	150	99	59	1	0	0	0	0	0	0	1094
6	0	0	0	0	0	0	0	17	52	62	71	76	77	80	60	45	24	1	0	0	0	0	0	0	565
7	0	0	0	0	0	0	0	16	45	54	56	59	71	66	47	39	22	1	0	0	0	0	0	0	477
8	0	0	0	0	0	0	0	20	78	116	121	73	61	60	67	50	31	1	0	0	0	0	0	0	678
9	0	0	0	0	0	0	0	15	74	93	80	74	71	63	52	39	20	0	0	0	0	0	0	0	581
10	0	0	0	0	0	0	0	20	93	183	246	272	323	275	210	161	48	1	0	0	0	0	0	0	1833
11	0	0	0	0	0	0	0	12	39	51	61	64	65	62	55	43	24	1	0	0	0	0	0	0	477
12	0	0	0	0	0	0	0	6	39	103	191	165	121	88	103	35	13	0	0	0	0	0	0	0	865
13	0	0	0	0	0	0	0	18	98	103	138	175	142	160	67	49	38	2	0	0	0	0	0	0	990
14	0	0	0	0	0	0	0	1	20	49	74	125	194	160	127	67	25	1	0	0	0	0	0	0	841
15	0	0	0	0	0	0	0	8	38	101	103	98	88	109	64	37	16	3	0	0	0	0	0	0	665
16	0	0	0	0	0	0	0	13	38	44	49	53	52	50	45	36	20	1	0	0	0	0	0	0	402
17	0	0	0	0	0	0	0	10	39	54	62	80	63	56	53	46	28	2	0	0	0	0	0	0	493
18	0	0	0	0	0	0	0	9	33	43	48	56	88	80	81	80	28	1	0	0	0	0	0	0	547
19	0	0	0	0	0	0	0	7	55	105	146	169	161	98	71	62	33	2	0	0	0	0	0	0	910
20	0	0	0	0	0	0	0	12	49	66	69	98	96	97	132	120	48	2	0	0	0	0	0	0	790
21	0	0	0	0	0	0	0	16	107	107	119	200	192	182	157	149	54	3	0	0	0	0	0	0	1287
22	0	0	0	0	0	0	0	7	65	139	183	186	220	227	211	141	44	3	0	0	0	0	0	0	1427
23	0	0	0	0	0	0	0	6	56	154	121	82	104	66	66	24	11	1	0	0	0	0	0	0	692
24	0	0	0	0	0	0	0	6	41	69	97	82	120	81	68	44	21	1	0	0	0	0	0	0	630
25	0	0	0	0	0	0	0	1	9	43	50	57	60	37	27	18	4	0	0	0	0	0	0	0	307
26	0	0	0	0	0	0	0	2	19	38	46	32	39	51	61	34	3	0	0	0	0	0	0	0	387
27	0	0	0	0	0	0	0	6	44	122	246	151	81	79	94	143	47	3	0	0	0	0	0	0	1017
28	0	0	0	0	0	0	0	14	68	164	234	256	242	292	209	96	66	4	0	0	0	0	0	0	1647
29	0	0	0	0	0	0	0	5	41	102	68	68	88	127	149	88	63	5	0	0	0	0	0	0	803
30	0	0	0	0	0	0	0	7	33	47	53	55	54	52	47	39	25	3	0	0	0	0	0	0	414
31	0	0	0	0	0	0	0	8	32	42	48	52	53	53	63	44	25	2	0	0	0	0	0	0	422
Avg	0	0	0	0	0	0	0	12	54	89	111	112	112	107	94	70	33	2	0	0	0	0	0	0	796
S/D	0	0	0	0	0	0	0	7	24	40	63	60	64	64	51	39	15	1	0	0	0	0	0	0	364
S/A	0	0	0	0	0	0	0	0.57	0.44	0.45	0.57	0.54	0.57	0.6	0.54	0.56	0.47	0.71	0	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	0	1	9	38	46	32	39	37	27	18	4	0	0	0	0	0	0	0	307
Max	0	0	0	0	0	0	0	27	107	183	246	272	323	292	211	161	66	5	0	0	0	0	0	0	1833

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3755 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