

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - January 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	0	11	165	308	456	538	571	533	440	288	118	7	0	0	0	0	0	0	3435
2	0	0	0	0	0	0	0	14	41	138	94	46	51	98	94	59	36	3	0	0	0	0	0	0	673
3	0	0	0	0	0	0	0	1	25	291	315	207	173	189	160	251	125	8	0	0	0	0	0	0	1744
4	0	0	0	0	0	0	0	22	168	325	466	568	605	573	480	322	139	9	0	0	0	0	0	0	3678
5	0	0	0	0	0	0	0	10	153	340	496	589	621	585	487	325	141	11	0	0	0	0	0	0	3757
6	0	0	0	0	0	0	0	23	188 ?	231	281	548	536	335	472	316	138	10	0	0	0	0	0	0	3078
7	0	0	0	0	0	0	0	17	155	327	360	527	593	553	457	304	128	9	0	0	0	0	0	0	3431
8	0	0	0	0	0	0	0	16	94	248	477	511	470	381	104	200	94	5	0	0	0	0	0	0	2600
9	0	0	0	0	0	0	0	11	85	239	367	321	422	252	72	20	12	1	0	0	0	0	0	0	1802
10	0	0	0	0	0	0	0	6	95	320	480	578	620	592	497	337	151	12	0	0	0	0	0	0	3689
11	0	0	0	0	0	0	0	10	147	331	484	577	610	579	486	332	147	14	0	0	0	0	0	0	3719
12	0	0	0	0	0	0	0	16	124	319	481	577	611	580	455	329	94	18	0	0	0	0	0	0	3603
13	0	0	0	0	0	0	0	16	106	231	204	234	204	189	402	241	131	12	0	0	0	0	0	0	1970
14	0	0	0	0	0	0	0	9	83	130	237	331	403	284	368	287	87	7	0	0	0	0	0	0	2227
15	0	0	0	0	0	0	0	6	80	221	489	600	640	610	512	360	137	12	0	0	0	0	0	0	3665
16	0	0	0	0	0	0	0	21	185	337	488	586	623	590	499	348	163	17	0	0	0	0	0	0	3857
17	0	0	0	0	0	0	0	15	75	109	266	486	406	312	213	180	73	7	0	0	0	0	0	0	2142
18	0	0	0	0	0	0	0	6	61	56 ?	217	228	278	224	194	156	32	0	0	0	0	0	0	0	1520
19	0	0	0	0	0	0	0	22	179	341	498	593	634	604	511	364	173	23	0	0	0	0	0	0	3942
20	0	0	0	0	0	0	0	11	100	321	473	576	617	581	487	333	157	21	0	0	0	0	0	0	3676
21	0	0	0	0	0	0	0	4	64	232	290	535	601	342	380	300	152	21	0	0	0	0	0	0	2921
22	0	0	0	0	0	0	0	9	92	203	381	501	550	459	300	295	110	15	0	0	0	0	0	0	2913
23	0	0	0	0	0	0	0	13	108	113	277	484	467	550	394	131	9 ?	0	0	0	0	0	0	0	2546
24	0	0	0	0	0	0	0	2	59	185	507	610	660	635	538	387	195	34	0	0	0	0	0	0	3812
25	0	0	0	0	0	0	0	19	163	353	513	614	657	628	538	389	197	31	0	0	0	0	0	0	4103
26	0	0	0	0	0	0	0	18	157	347	501	587	609	512	492	370	186	30	0	0	0	0	0	0	3808
27	0	0	0	0	0	0	0	12	89	195	392	599	644	575	474	367	195	35	0	0	0	0	0	0	3578
28	0	0	0	0	0	0	0	16	100	255	486	595	556	520	357	214	145	37	0	0	0	0	0	0	3281
29	0	0	0	0	0	0	0	20	168	348	382	447	341	315	295	276	127	18	0	0	0	0	0	0	2736
30	0	0	0	0	0	0	0	11	71	192	227	355	359	221	134	81	34	4	0	0	0	0	0	0	1688
31	0	0	0	0	0	0	0	2	25	56	57	73	147	137	80	32	13	3	0	0	0	0	0	0	626
Avg	0	0	0	0	0	0	0	13	110	246	371	471	491	438	368	266	121	15	0	0	0	0	0	0	2910
S D	0	0	0	0	0	0	0	6	47	89	136	161	171	167	152	105	53	11	0	0	0	0	0	0	964
S/A	0	0	0	0	0	0	0	0.49	0.43	0.36	0.37	0.34	0.35	0.38	0.41	0.39	0.44	0.71	0	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	0	1	25	56	57	46	51	98	72	20	9	0	0	0	0	0	0	0	626
Max	0	0	0	0	0	0	0	23	188	353	513	614	660	635	538	389	197	37	0	0	0	0	0	0	4103

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3835 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 - January 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	0	61	632	733	844	865	885	869	842	720	488	53	0	0	0	0	0	0	6992
2	0	0	0	0	0	0	0	26	13	20	5	2	2	6	6	5	7	2	0	0	0	0	0	0	95
3	0	0	0	0	0	0	0	0	2	514	222	23	12	17	19	398	451	45	0	0	0	0	0	0	1703
4	0	0	0	0	0	0	0	73	462	720	817	900	935	935	906	795	572	62	0	0	0	0	0	0	7176
5	0	0	0	0	0	0	0	54	593	822	917	953	964	949	912	794	563	82	0	0	0	0	0	0	7601
6	0	0	0	0	0	0	0	289	830	101	30	828	427	150	818	787	569	112	0	0	0	0	0	0	4940
7	0	0	0	0	0	0	0	155	566	712	335	720	894	900	859	732	494	71	0	0	0	0	0	0	6437
8	0	0	0	0	0	0	0	26	92	340	698	500	288	171	8	61	60	5	0	0	0	0	0	0	2248
9	0	0	0	0	0	0	0	30	24	180	263	98	303	22	5	0	1	0	0	0	0	0	0	0	928
10	0	0	0	0	0	0	0	10	153	700	840	895	934	944	912	800	578	90	0	0	0	0	0	0	6856
11	0	0	0	0	0	0	0	82	552	796	894	927	938	932	891	780	539	95	0	0	0	0	0	0	7425
12	0	0	0	0	0	0	0	147	418	756	903	939	941	925	786	760	203	95	0	0	0	0	0	0	6873
13	0	0	0	0	0	0	0	50	96	126	25	17	12	15	431	244	250	29	0	0	0	0	0	0	1296
14	0	0	0	0	0	0	0	13	23	34	78	140	234	35	198	377	56	5	0	0	0	0	0	0	1195
15	0	0	0	0	0	0	0	8	109	430	889	961	983	977	938	810	269	19	0	0	0	0	0	0	6393
16	0	0	0	0	0	0	0	238	755	818	912	947	961	943	906	813	613	147	0	0	0	0	0	0	8054
17	0	0	0	0	0	0	0	21	31	10	78	424	242	33	66	32	25	4	0	0	0	0	0	0	966
18	0	0	0	0	0	0	0	6	13	7	5	20	15	32	21	24	268	91	0	0	0	0	0	0	503
19	0	0	0	0	0	0	0	221	722	826	919	948	975	965	926	845	628	162	0	0	0	0	0	0	8137
20	0	0	0	0	0	0	0	73	267	705	832	884	902	853	780	656	432	79	0	0	0	0	0	0	6464
21	0	0	0	0	0	0	0	3	15	157	57	587	733	63	201	392	313	78	0	0	0	0	0	0	2599
22	0	0	0	0	0	0	0	9	68	102	401	462	496	355	275	418	47	13	0	0	0	0	0	0	2646
23	0	0	0	0	0	0	0	14	89	13	67	338	236	439	261	21	0	0	0	0	0	0	0	0	1479
24	0	0	0	0	0	0	0	1	22	103	794	892	922	928	895	807	606	193	0	0	0	0	0	0	6162
25	0	0	0	0	0	0	0	138	571	790	903	951	970	960	927	845	659	210	0	0	0	0	0	0	7925
26	0	0	0	0	0	0	0	95	479	712	790	766	640	407	571	651	477	104	0	0	0	0	0	0	5692
27	0	0	0	0	0	0	0	27	26	35	298	842	812	579	522	594	564	182	0	0	0	0	0	0	4482
28	0	0	0	0	0	0	0	84	197	359	572	686	588	455	223	117	106	52	0	0	0	0	0	0	3438
29	0	0	0	0	0	0	0	75	464	639	254	212	48	73	218	354	138	55	0	0	0	0	0	0	2531
30	0	0	0	0	0	0	0	13	17	58	33	88	51	20	12	8	5	2	0	0	0	0	0	0	307
31	0	0	0	0	0	0	0	0	3	6	5	5	11	10	6	3	3	1	0	0	0	0	0	0	54
Avg	0	0	0	0	0	0	0	66	268	398	474	575	560	483	495	472	322	69	0	0	0	0	0	0	4181
S D	0	0	0	0	0	0	0	74	271	323	368	365	380	406	375	325	238	60	0	0	0	0	0	0	2817
S/A	0	0	0	0	0	0	0	1.13	1.01	0.81	0.78	0.63	0.68	0.84	0.76	0.69	0.74	0.87	0	0	0	0	0	0	0.67
Min	0	0	0	0	0	0	0	0	2	6	5	2	2	6	5	0	0	0	0	0	0	0	0	0	54
Max	0	0	0	0	0	0	0	289	830	826	919	961	983	977	938	845	659	210	0	0	0	0	0	0	8137

Daylight Data Recovery: 3% missing; 0% exceed the 15% QC threshold -- 110545 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 - January 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	0	8	38	50	59	65	66	63	51	44	29	4	0	0	0	0	0	0	475
2	0	0	0	0	0	0	0	14	39	131	91	45	50	95	91	57	35	3	0	0	0	0	0	0	650
3	0	0	0	0	0	0	0	1	25	107	215	195	166	180	151	123	44	5	0	0	0	0	0	0	1211
4	0	0	0	0	0	0	0	19	73	72	79	74	68	62	56	48	31	5	0	0	0	0	0	0	587
5	0	0	0	0	0	0	0	6	35	51	61	65	66	65	58	49	33	5	0	0	0	0	0	0	494
6	0	0	0	0	0	0	0	9	67	197	267	89	289	253	89	41	27	4	0	0	0	0	0	0	1332
7	0	0	0	0	0	0	0	10	43	77	192	126	76	57	49	46	30	4	0	0	0	0	0	0	710
8	0	0	0	0	0	0	0	16	76	123	144	236	303	285	101	180	81	5	0	0	0	0	0	0	1550
9	0	0	0	0	0	0	0	11	80	176	242	267	245	240	69	20	11	1	0	0	0	0	0	0	1362
10	0	0	0	0	0	0	0	6	57	71	78	80	74	65	58	49	33	5	0	0	0	0	0	0	575
11	0	0	0	0	0	0	0	6	35	48	56	60	60	57	54	49	35	6	0	0	0	0	0	0	465
12	0	0	0	0	0	0	0	9	38	48	46	51	57	58	71	52	56	11	0	0	0	0	0	0	498
13	0	0	0	0	0	0	0	13	89	187	192	224	197	180	194	151	78	9	0	0	0	0	0	0	1515
14	0	0	0	0	0	0	0	8	78	117	197	252	264	264	273	139	82	7	0	0	0	0	0	0	1681
15	0	0	0	0	0	0	0	6	59	63	56	55	54	51	48	55	75	10	0	0	0	0	0	0	532
16	0	0	0	0	0	0	0	7	33	41	43	48	48	48	47	41	28	5	0	0	0	0	0	0	389
17	0	0	0	0	0	0	0	16	69	105	227	243	261	293	178	168	66	7	0	0	0	0	0	0	1633
18	0	0	0	0	0	0	0	6	59	54	63 ?	206	219	259	213	185	98	23	0	0	0	0	0	0	1386
19	0	0	0	0	0	0	0	8	34	38	45	47	43	41	41	37	28	7	0	0	0	0	0	0	370
20	0	0	0	0	0	0	0	9	36	59	60	65	68	81	87	76	52	13	0	0	0	0	0	0	606
21	0	0	0	0	0	0	0	4	60	171	261	190	152	305	278	144	83	13	0	0	0	0	0	0	1663
22	0	0	0	0	0	0	0	9	75	166	184	231	245	247	162	125	98	14	0	0	0	0	0	0	1556
23	0	0	0	0	0	0	0	12	91	108	242	284	322	289	252	122	8 ?	0	0	0	0	0	0	0	1730
24	0	0	0	0	0	0	0	2	53	142	105	85	87	79	69	61	45	14	0	0	0	0	0	0	742
25	0	0	0	0	0	0	0	9	39	54	54	51	51	49	48	45	33	9	0	0	0	0	0	0	441
26	0	0	0	0	0	0	0	11	51	75	98	132	207	262	192	102	64	18	0	0	0	0	0	0	1213
27	0	0	0	0	0	0	0	11	83	182	231	95	132	223	189	124	50	15	0	0	0	0	0	0	1336
28	0	0	0	0	0	0	0	11	56	115	189	183	182	240	238	163	119	32	0	0	0	0	0	0	1527
29	0	0	0	0	0	0	0	14	64	101	257	320	310	269	178	128	85	17	0	0	0	0	0	0	1742
30	0	0	0	0	0	0	0	11	67	168	209	300	326	209	128	77	33	4	0	0	0	0	0	0	1532
31	0	0	0	0	0	0	0	2	25	54	54	70	140	131	76	30	12	3	0	0	0	0	0	0	597
Avg	0	0	0	0	0	0	0	9	56	102	139	143	156	161	122	88	51	9	0	0	0	0	0	0	1035
S D	0	0	0	0	0	0	0	4	19	50	80	89	97	96	75	50	28	7	0	0	0	0	0	0	498
S/A	0	0	0	0	0	0	0	0.45	0.34	0.49	0.58	0.62	0.62	0.6	0.61	0.57	0.55	0.76	0	0	0	0	0	0	0.48
Min	0	0	0	0	0	0	0	1	25	38	43	45	43	41	41	20	8	0	0	0	0	0	0	0	370
Max	0	0	0	0	0	0	0	19	91	197	267	320	326	305	278	185	119	32	0	0	0	0	0	0	1742

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3835 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