

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - November 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	3	117	225	466	509	711	690	604	483	310	124	8	0	0	0	0	0	0	4250
2	0	0	0	0	0	0	4	56	252	437	511	655	641	576	457	320	119	10	0	0	0	0	0	0	4037
3	0	0	0	0	0	0	1	41	75	113	128	64	187	520	398	238	113	5	0	0	0	0	0	0	1883
4	0	0	0	0	0	0	2	47	143	228	221	281	319	270	155	102	40	2	0	0	0	0	0	0	1810
5	0	0	0	0	0	0	0	8	45	101	282	571	587	569	502	325	128	7	0	0	0	0	0	0	3124
6	0	0	0	0	0	0	2	68	119	234	292	523	676	617	486	306	118	6	0	0	0	0	0	0	3446
7	0	0	0	0	0	0	1	86	276	461	596	673	678	611	488	303	120	5	0	0	0	0	0	0	4299
8	0	0	0	0	0	0	2	77	256	429	558	629	641	499	439	242	61	7	0	0	0	0	0	0	3840
9	0	0	0	0	0	0	1	54	209	239	180	643	649	555	393	287	102	4	0	0	0	0	0	0	3316
10	0	0	0	0	0	0	1	69	255	431	565	610	543	447	424	272	80	4	0	0	0	0	0	0	3701
11	0	0	0	0	0	0	1	47	125	206	270	453	442	334	157	70	11	1	0	0	0	0	0	0	2118
12	0	0	0	0	0	0	1	78	237	411	461	511	495	489	415	266	102	5	0	0	0	0	0	0	3470
13	0	0	0	0	0	0	1	46	212	182	347	409	518	466	245	219	82	3	0	0	0	0	0	0	2729
14	0	0	0	0	0	0	1	50	120	210	258	573	443	208	309	230	49	1	0	0	0	0	0	0	2451
15	0	0	0	0	0	0	0	36	73	111	193	231	206	297	193	52	32	1	0	0	0	0	0	0	1425
16	0	0	0	0	0	0	1	23	78	145	213	380	524	438	241	101	66	6	0	0	0	0	0	0	2215
17	0	0	0	0	0	0	0	63	192	277	529	604	568	349	442	275	100	3	0	0	0	0	0	0	3403
18	0	0	0	0	0	0	0	57	224	399	521	612	520	556	265	45	27	1	0	0	0	0	0	0	3228
19	0	0	0	0	0	0	0	31	110	210	341	403	411	263	127	133	40	2	0	0	0	0	0	0	2072
20	0	0	0	0	0	0	0	28	87	139	342	573	527	318	412	226	72	2	0	0	0	0	0	0	2726
21	0	0	0	0	0	0	0	25	91	251	324	464	421	438	201	84	19	0	0	0	0	0	0	0	2319
22	0	0	0	0	0	0	0	12	47	87	199	316	383	194	150	87	27	0	0	0	0	0	0	0	1503
23	0	0	0	0	0	0	0	31	185	363	336	309	242	415	192	135	35	0	0	0	0	0	0	0	2244
24	0	0	0	0	0	0	0	15	67	200	394	341	496	176	228	108	46	4	0	0	0	0	0	0	2075
25	0	0	0	0	0	0	0	35	171	357	498	564	583	527	403	246	88	3	0	0	0	0	0	0	3476
26	0	0	0	0	0	0	0	37	167	334	503	581	604	548	436	269	93	2	?	0	0	0	0	0	3575
27	0	0	0	0	0	0	0	40	221	397	530	604	617	560	446	272	92	1	?	0	0	0	0	0	3779
28	0	0	0	0	0	0	0	44	259	372	511	590	603	545	437	268	90	0	?	0	0	0	0	0	3718
29	0	0	0	0	0	0	0	36	165	421	473	519	509	547	425	229	88	1	0	0	0	0	0	0	3413
30	0	0	0	0	0	0	0	36	143	332	253	197	37	64	158	168	59	2	0	0	0	0	0	0	1449
Avg	0	0	0	0	0	0	1	46	161	285	378	486	492	433	337	206	74	3	0	0	0	0	0	0	2903
S D	0	0	0	0	0	0	1	23	70	120	137	158	158	148	125	88	34	3	0	0	0	0	0	0	861
S/A	0	0	0	0	0	0	1.3	0.5	0.44	0.42	0.36	0.32	0.32	0.34	0.37	0.43	0.46	0.8	0	0	0	0	0	0	0.3
Min	0	0	0	0	0	0	0	8	45	87	128	64	37	64	127	45	11	0	0	0	0	0	0	0	1425
Max	0	0	0	0	0	0	4	117	276	466	596	711	690	617	502	325	128	10	0	0	0	0	0	0	4299

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3801 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 - November 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	12	333	364	688	506	722	768	736	674	544	293	15	0	0	0	0	0	0	5656
2	0	0	0	0	0	0	23	71	380	635	548	657	566	633	561	552	261	18	0	0	0	0	0	0	4905
3	0	0	0	0	0	0	2	18	19	15	12	8	13	491	389	182	225	10	0	0	0	0	0	0	1385
4	0	0	0	0	0	0	4	27	20	23	28	35	35	33	21	18	12	3	0	0	0	0	0	0	261
5	0	0	0	0	0	0	1	3	8	13	41	375	418	586	793	661	433	34	0	0	0	0	0	0	3365
6	0	0	0	0	0	0	5	63	29	42	37	247	810	807	769	629	373	33	0	0	0	0	0	0	3843
7	0	0	0	0	0	0	11	324	642	794	859	897	896	858	800	647	410	26	0	0	0	0	0	0	7163
8	0	0	0	0	0	0	6	261	584	722	780	800	665	414	606	305	77	16	0	0	0	0	0	0	5237
9	0	0	0	0	0	0	2	17	305	47	24	560	740	517	422	527	273	12	0	0	0	0	0	0	3448
10	0	0	0	0	0	0	4	217	613	751	797	690	422	351	438	293	33	7	0	0	0	0	0	0	4618
11	0	0	0	0	0	0	6	18	19	81	81	287	209	146	17	10	3	2	0	0	0	0	0	0	879
12	0	0	0	0	0	0	13	120	275	441	343	402	416	462	506	400	282	33	0	0	0	0	0	0	3691
13	0	0	0	0	0	0	19	48	329	35	155	146	388	265	111	193	77	8	0	0	0	0	0	0	1775
14	0	0	0	0	0	0	3	28	29	16	38	384	142	21	190	251	18	0	0	0	0	0	0	0	1121
15	0	0	0	0	0	0	3	16	12	13	22	22	17	26	23	7	8	0	0	0	0	0	0	0	169
16	0	0	0	0	0	0	3	12	11	18	22	62	343	345	71	20	74	9	0	0	0	0	0	0	989
17	0	0	0	0	0	0	2	294	306	133	765	831	625	342	746	544	323	8	0	0	0	0	0	0	4919
18	0	0	0	0	0	0	19	211	526	665	727	653	427	487	108	8	6	20	0	0	0	0	0	0	3857
19	0	0	0	0	0	0	0	18	26	37	60	149	189	82	13	23	19	7	0	0	0	0	0	0	622
20	0	0	0	0	0	0	0	12	15	16	154	532	468	163	458	272	62	12	0	0	0	0	0	0	2164
21	0	0	0	0	0	0	0	18	19	61	53	252	234	300	29	11	4	3	0	0	0	0	0	0	986
22	0	0	0	0	0	0	0	10	9	11	26	71	152	20	15	11	5	0	0	0	0	0	0	0	329
23	0	0	0	0	0	0	0	30	335	565	168	112	30	218	25	19	11	1	0	0	0	0	0	0	1513
24	0	0	0	0	0	0	0	23	11	32	207	124	354	27	156	38	36	6	0	0	0	0	0	0	1013
25	0	0	0	0	0	0	0	31	299	578	729	760	775	712	478	415	137	5	0	0	0	0	0	0	4920
26	0	0	0	0	0	0	0	100	346	589	777	827	860	828	773	650	372	4	0	0	0	0	0	0	6126
27	0	0	0	0	0	0	0	209	705	859	928	953	955	929	877	727	427	4	0	0	0	0	0	0	7574
28	0	0	0	0	0	0	0	247	834	773	881	930	939	905	855	717	436	1	0	0	0	0	0	0	7517
29	0	0	0	0	0	0	0	107	399	885	670	592	562	790	797	558	399	3	0	0	0	0	0	0	5763
30	0	0	0	0	0	0	0	78	227	505	95	84	2	4	72	168	268	3	0	0	0	0	0	0	1504
Avg	0	0	0	0	0	0	5	99	257	335	351	439	447	417	393	313	178	10	0	0	0	0	0	0	3244
S D	0	0	0	0	0	0	6	105	245	331	339	313	300	301	314	259	162	10	0	0	0	0	0	0	2308
S/A	0	0	0	0	0	0	1.36	1.07	0.96	0.99	0.96	0.71	0.67	0.72	0.8	0.83	0.91	0.99	0	0	0	0	0	0	0.71
Min	0	0	0	0	0	0	0	3	8	11	12	8	2	4	13	7	3	0	0	0	0	0	0	0	169
Max	0	0	0	0	0	0	23	333	834	885	928	953	955	929	877	727	436	34	0	0	0	0	0	0	7574

Daylight Data Recovery: 3% missing; 0% exceed the 15% QC threshold -- 102955 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: XXXXXXX
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 - November 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	3	51	97	118	194	221	163	134	120	94	58	7	0	0	0	0	0	0	1260
2	0	0	0	0	0	0	4	42	115	118	177	213	254	176	156	103	59	8	0	0	0	0	0	0	1425
3	0	0	0	0	0	0	1	38	68	106	121	59	177	215	186	165	64	4	0	0	0	0	0	0	1204
4	0	0	0	0	0	0	1	43	136	217	204	258	295	249	144	95	38	2	0	0	0	0	0	0	1682
5	0	0	0	0	0	0	0	8	42	94	257	322	307	208	87	72	38	4	0	0	0	0	0	0	1440
6	0	0	0	0	0	0	2	61	109	213	270	358	137	118	86	66	43	4	0	0	0	0	0	0	1466
7	0	0	0	0	0	0	1	33	63	78	86	86	85	84	75	61	36	3	0	0	0	0	0	0	692
8	0	0	0	0	0	0	1	35	66	84	98	108	205	250	126	125	50	6	0	0	0	0	0	0	1155
9	0	0	0	0	0	0	1	52	131	216	166	280	164	240	173	92	46	3	0	0	0	0	0	0	1564
10	0	0	0	0	0	0	1	31	59	78	102	166	269	236	205	165	72	4	0	0	0	0	0	0	1387
11	0	0	0	0	0	0	1	44	119	171	224	268	306	248	149	66	11	1	0	0	0	0	0	0	1607
12	0	0	0	0	0	0	1	63	147	209	263	255	227	214	160	123	53	3	0	0	0	0	0	0	1721
13	0	0	0	0	0	0	1	40	112	166	258	316	269	310	186	158	67	3	0	0	0	0	0	0	1886
14	0	0	0	0	0	0	1	47	111	203	235	332	352	195	219	138	45	1	0	0	0	0	0	0	1879
15	0	0	0	0	0	0	0	34	70	105	180	217	195	281	181	50	31	1	0	0	0	0	0	0	1346
16	0	0	0	0	0	0	1	21	75	137	200	342	308	232	208	95	55	5	0	0	0	0	0	0	1680
17	0	0	0	0	0	0	0	29	106	218	102	91	176	148	81	86	42	2	0	0	0	0	0	0	1082
18	0	0	0	0	0	0	0	30	70	105	120	212	255	273	209	42	25	1	0	0	0	0	0	0	1342
19	0	0	0	0	0	0	0	29	103	193	308	312	293	215	121	125	37	2	0	0	0	0	0	0	1739
20	0	0	0	0	0	0	0	26	83	132	254	250	237	226	194	129	62	2	0	0	0	0	0	0	1595
21	0	0	0	0	0	0	0	23	86	225	295	311	278	263	187	80	18	0	0	0	0	0	0	0	1767
22	0	0	0	0	0	0	0	11	44	83	185	273	290	183	143	83	26	0	0	0	0	0	0	0	1322
23	0	0	0	0	0	0	0	29	87	124	247	243	224	292	180	129	33	0	0	0	0	0	0	0	1589
24	0	0	0	0	0	0	0	14	64	186	281	268	282	161	154	97	41	4	0	0	0	0	0	0	1553
25	0	0	0	0	0	0	0	31	88	112	113	114	116	129	179	107	65	3	0	0	0	0	0	0	1057
26	0	0	0	0	0	0	0	25	73	87	95	94	88	87	78	55	30	1	0	0	0	0	0	0	711
27	0	0	0	0	0	0	0	16	36	43	45	45	47	45	41	34	18	0 ?	0	0	0	0	0	0	369
28	0	0	0	0	0	0	0	19	43	57	53	47	45	44	43	35	17	0	0	0	0	0	0	0	402
29	0	0	0	0	0	0	0	24	62	63	130	174	177	111	59	50	22	0	0	0	0	0	0	0	873
30	0	0	0	0	0	0	0	28	92	132	205	149	36	62	146	114	45	2	0	0	0	0	0	0	1011
Avg	0	0	0	0	0	0	1	33	85	136	182	213	209	188	143	95	42	3	0	0	0	0	0	0	1327
S D	0	0	0	0	0	0	1	13	29	55	75	94	87	75	52	37	16	2	0	0	0	0	0	0	400
S/A	0	0	0	0	0	0	1.31	0.41	0.34	0.41	0.41	0.44	0.42	0.4	0.36	0.39	0.39	0.79	0	0	0	0	0	0	0.3
Min	0	0	0	0	0	0	0	8	36	43	45	45	36	44	41	34	11	0	0	0	0	0	0	0	369
Max	0	0	0	0	0	0	4	63	147	225	308	358	352	310	219	165	72	8	0	0	0	0	0	0	1886

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3801 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