

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - December 2000

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	23	161	348	491	558	554	477	364	183	59	2	0	0	0	0	0	0	3219
2	0	0	0	0	0	0	0	24	173	278	309	297	162	129	120	57	26	0	0	0	0	0	0	0	1575
3	0	0	0	0	0	0	0	7	12	43	89	145	134	200	176	103	29	1	0	0	0	0	0	0	938
4	0	0	0	0	0	0	0	21	178	366	500	574	588	544	436	263	84	0	0	0	0	0	0	0	3555
5	0	0	0	0	0	0	0	20	175	356	493	569	581	534	427	260	87	1	0	0	0	0	0	0	3504
6	0	0	0	0	0	0	0	37	251	425	442	515	420	335	324	142	55	1	0	0	0	0	0	0	2946
7	0	0	0	0	0	0	0	17	162	335	469	543	561	518	413	251	84	1	0	0	0	0	0	0	3354
8	0	0	0	0	0	0	0	17	153	319	454	525	544	500	400	242	80	1	0	0	0	0	0	0	3236
9	0	0	0	0	0	0	0	4	25	53	124	154	188	86	31	34	13	1	0	0	0	0	0	0	712
10	0	0	0	0	0	0	0	4	68	178	225	110	105	101	97	52	28	1	0	0	0	0	0	0	970
11	0	0	0	0	0	0	0	8	52	97	123	203	234	136	81	73	24	1	0	0	0	0	0	0	1032
12	0	0	0	0	0	0	0	11	40	68	112	292	387	410	394	241	74	3	0	0	0	0	0	0	2032
13	0	0	0	0	0	0	0	13	85	133	192	207	177	174	155	112	36	1	0	0	0	0	0	0	1284
14	0	0	0	0	0	0	0	5	18	128	131	302	275	215	270	167	24	1	0	0	0	0	0	0	1535
15	0	0	0	0	0	0	0	8	38	85	61	68	106	115	81	34	19	1	0	0	0	0	0	0	617
16	0	0	0	0	0	0	0	10	47	94	241	387	432	365	263	188	46	2	0	0	0	0	0	0	2077
17	0	0	0	0	0	0	0	15	149	328	474	562	588	553	448	278	103	3	0	0	0	0	0	0	3501
18	0	0	0	0	0	0	0	16	147	322	466	544	568	531	430	267	92	3	0	0	0	0	0	0	3385
19	0	0	0	0	0	0	0	23	135	54	84	74	75	38	28	24	47	0	0	0	0	0	0	0	582
20	0	0	0	0	0	0	0	15	147	328	474	553	576	537	434	267	97	2	0	0	0	0	0	0	3429
21	0	0	0	0	0	0	0	24	177	324	467	541	556	517	394	253	99	3	0	0	0	0	0	0	3355
22	0	0	0	0	0	0	0	9	118	313	487	588	564	534	437	284	107	3	0	0	0	0	0	0	3445
23	0	0	0	0	0	0	0	13	145	328	475	553	576	501	437	278	105	3	0	0	0	0	0	0	3414
24	0	0	0	0	0	0	0	11	107	303	456	529	557	536	436	271	99	3	0	0	0	0	0	0	3309
25	0	0	0	0	0	0	0	13	136	312	461	488	407	468	447	281	95	3	0	0	0	0	0	0	3112
26	0	0	0	0	0	0	0	13	133	319	333	361	421	495	529	220	125	6	0	0	0	0	0	0	2956
27	0	0	0	0	0	0	0	12	102	260	348	389	371	420	256	139	43	1	0	0	0	0	0	0	2341
28	0	0	0	0	0	0	0	2	13	23	25	38	47	33	22	12	4	1	0	0	0	0	0	0	220
29	0	0	0	0	0	0	0	10	115	305	452	534	557	525	436	281	110	6	0	0	0	0	0	0	3329
30	0	0	0	0	0	0	0	16	49	272	470	556	588	552	456	294	119	8	0	0	0	0	0	0	3381
Avg	0	0	0	0	0	0	0	14	110	237	331	392	397	369	307	185	67	2	0	0	0	0	0	0	2412
S D	0	0	0	0	0	0	0	7	61	120	165	184	189	185	157	95	36	2	0	0	0	0	0	0	1124
S/A	0	0	0	0	0	0	0	0.53	0.55	0.51	0.5	0.47	0.48	0.5	0.51	0.51	0.53	0.83	0	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	0	2	12	23	25	38	47	33	22	12	4	0	0	0	0	0	0	0	220
Max	0	0	0	0	0	0	0	37	251	425	500	588	588	553	529	294	125	8	0	0	0	0	0	0	3555

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3634 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/Wm-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 - December 2000**

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	42	48	23	11	17	0	11	20	33	26	2	0	0	0	0	0	0	234
2	0	0	0	0	0	0	0	44	21	47	22	27	6	4	7	4	10	25	0	0	0	0	0	0	217
3	0	0	0	0	0	0	0	4	2	2	4	6	5	8	7	6	5	2	0	0	0	0	0	0	49
4	0	0	0	0	0	0	0	62	33	2	0	0	0	7	4	16	0	0	0	0	0	0	0	0	125
5	0	0	0	0	0	0	0	57	26	3	2	0	0	9	8	10	10	0	0	0	0	0	0	0	124
6	0	0	0	0	0	0	0	84	80	28	37	31	38	41	44	29	11	1	0	0	0	0	0	0	424
7	0	0	0	0	0	0	0	35	34	1	0	0	0	6	5	6	5	0	0	0	0	0	0	0	93
8	0	0	0	0	0	0	0	30	40	6	1	0	0	8	8	10	3	0	0	0	0	0	0	0	105
9	0	0	0	0	0	0	0	3	3	3	9	6	11	6	3	3	3	5	0	0	0	0	0	0	54
10	0	0	0	0	0	0	0	2	12	11	9	5	4	4	5	3	5	3	0	0	0	0	0	0	63
11	0	0	0	0	0	0	0	7	7	6	5	8	9	4	3	6	5	0	0	0	0	0	0	0	58
12	0	0	0	0	0	0	0	4	3	5	3	28	26	29	15	21	21	4	0	0	0	0	0	0	160
13	0	0	0	0	0	0	0	78	7	7	8	8	6	6	7	7	5	2	0	0	0	0	0	0	141
14	0	0	0	0	0	0	0	6	3	9	6	23	12	15	30	25	7	1	0	0	0	0	0	0	137
15	0	0	0	0	0	0	0	4	4	5	2	2	4	4	4	2	4	2	0	0	0	0	0	0	37
16	0	0	0	0	0	0	0	7	6	7	7	37	12	28	45	38	5	5	0	0	0	0	0	0	197
17	0	0	0	0	0	0	0	12	23	5	7	2	0	1	12	12	20	6	0	0	0	0	0	0	100
18	0	0	0	0	0	0	0	19	19	2	4	0	0	1	10	10	16	6	0	0	0	0	0	0	88
19	0	0	0	0	0	0	0	57	79	8	4	3	4	3	2	3	12	11	0	0	0	0	0	0	184
20	0	0	0	0	0	0	0	23	22	4	7	1	0	1	10	10	25	19	0	0	0	0	0	0	122
21	0	0	0	0	0	0	0	65	39	8	4	0	0	5	16	14	17	28	0	0	0	0	0	0	195
22	0	0	0	0	0	0	0	61	22	5	6	3	1	2	13	13	17	1	0	0	0	0	0	0	144
23	0	0	0	0	0	0	0	23	15	1	2	0	0	4	10	9	22	4	0	0	0	0	0	0	89
24	0	0	0	0	0	0	0	7	23	4	2	0	0	9	9	20	3	0	0	0	0	0	0	0	76
25	0	0	0	0	0	0	0	17	19	1	2	0	0	9	9	14	3	0	0	0	0	0	0	0	74
26	0	0	0	0	0	0	0	17	15	18	27	14	19	10	39	14	35	7	0	0	0	0	0	0	215
27	0	0	0	0	0	0	0	15	26	9	30	25	17	35	35	13	5	4	0	0	0	0	0	0	214
28	0	0	0	0	0	0	0	3	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	16
29	0	0	0	0	0	0	0	10	23	5	7	0	0	9	9	15	3	0	0	0	0	0	0	0	81
30	0	0	0	0	0	0	0	14	9	9	9	1	0	1	12	14	17	4	0	0	0	0	0	0	91
Avg	0	0	0	0	0	0	0	27	22	8	8	8	6	8	13	11	13	6	0	0	0	0	0	0	130
S D	0	0	0	0	0	0	0	25	20	10	9	11	9	11	12	9	8	7	0	0	0	0	0	0	80
S/A	0	0	0	0	0	0	0	0.91	0.88	1.16	1.12	1.33	1.53	1.45	0.91	0.8	0.63	1.19	0	0	0	0	0	0	0.61
Min	0	0	0	0	0	0	0	2	2	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	16
Max	0	0	0	0	0	0	0	84	80	47	37	37	38	41	45	38	35	28	0	0	0	0	0	0	424

Daylight Data Recovery: 0% missing; 0% exceed the 15% QC threshold -- 3634 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 - December 2000

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	18	161	296 ?	?	?	?	434 ?	331 ?	151	55	2	0	0	0	0	0	0	1449 ?
2	0	0	0	0	0	0	0	18	104 ?	232	255	282	158	126	117	56	25	0	0	0	0	0	0	0	1373
3	0	0	0	0	0	0	0	6	11	42	87	141	131	196	173	101	28	1	0	0	0	0	0	0	919
4	0	0	0	0	0	0	0	14	163	?	?	?	?	?	?	199 ?	84	0	0	0	0	0	0	0	460 ?
5	0	0	0	0	0	0	0	14	162	?	?	?	?	?	?	204 ?	87	1	0	0	0	0	0	0	468 ?
6	0	0	0	0	0	0	0	27	?	?	353 ?	380 ?	385	313	275 ?	133	54	1	0	0	0	0	0	0	1920 ?
7	0	0	0	0	0	0	0	13	155	251 ?	?	?	?	?	?	204 ?	84	1	0	0	0	0	0	0	708 ?
8	0	0	0	0	0	0	0	14	150	303 ?	?	?	?	?	?	356 ?	211 ?	80	1	0	0	0	0	0	1114 ?
9	0	0	0	0	0	0	0	4	24	52	120	151	182	83	30	33	13	1	0	0	0	0	0	0	691
10	0	0	0	0	0	0	0	4	65	162	221	108	103	99	95	51	27	1	0	0	0	0	0	0	935
11	0	0	0	0	0	0	0	9	51	95	121	198	229	134	79	71	23	1	0	0	0	0	0	0	1011
12	0	0	0	0	0	0	0	11	39	67	110	276	356	353 ?	350 ?	221	71	3	0	0	0	0	0	0	1857
13	0	0	0	0	0	0	0	14	83	130	188	203	173	170	152	110	35	1	0	0	0	0	0	0	1259
14	0	0	0	0	0	0	0	5	17	124	128	289	268	207	257	159	23	1	0	0	0	0	0	0	1478
15	0	0	0	0	0	0	0	8	37	83	60	66	104	113	80	33	18	1	0	0	0	0	0	0	604
16	0	0	0	0	0	0	0	9	46	92	238	367	416	350	243	164	46	2	0	0	0	0	0	0	1974
17	0	0	0	0	0	0	0	14	145	?	?	?	?	?	?	197 ?	100	3	0	0	0	0	0	0	458 ?
18	0	0	0	0	0	0	0	15	143	238 ?	?	?	?	?	?	203 ?	90	3	0	0	0	0	0	0	691 ?
19	0	0	0	0	0	0	0	24	111 ?	52	82	72	73	37	27	23	45	0	0	0	0	0	0	0	546
20	0	0	0	0	0	0	0	14	143	?	?	?	?	?	?	203 ?	94	2	0	0	0	0	0	0	456 ?
21	0	0	0	0	0	0	0	20	164 ?	?	?	?	?	436 ?	364 ?	230 ?	97	3	0	0	0	0	0	0	1313 ?
22	0	0	0	0	0	0	0	9	113	234 ?	?	?	?	?	?	195 ?	104	3	0	0	0	0	0	0	659 ?
23	0	0	0	0	0	0	0	12	135	?	?	?	?	433 ?	?	200 ?	102	3	0	0	0	0	0	0	885 ?
24	0	0	0	0	0	0	0	11	103	280 ?	?	?	?	?	?	207 ?	96	3	0	0	0	0	0	0	699 ?
25	0	0	0	0	0	0	0	13	132	227 ?	?	458 ?	411	447 ?	?	212 ?	93	3	0	0	0	0	0	0	1998 ?
26	0	0	0	0	0	0	0	12	131	286 ?	285	306	334 ?	408 ?	?	153 ?	100 ?	6	0	0	0	0	0	0	2020 ?
27	0	0	0	0	0	0	0	11	97	241 ?	324	345	301 ?	370 ?	240	134	42	1	0	0	0	0	0	0	2107
28	0	0	0	0	0	0	0	2	13	23	25	38	46	32	21	12	4	1	0	0	0	0	0	0	216
29	0	0	0	0	0	0	0	9	110	226 ?	?	?	?	?	?	209 ?	107	6	0	0	0	0	0	0	667 ?
30	0	0	0	0	0	0	0	15	48	199 ?	?	?	?	?	?	205 ?	116	8	0	0	0	0	0	0	591 ?
Avg	0	0	0	0	0	0	0	12	98	171	173	230	229	250	188	149	65	2	0	0	0	0	0	0	1051
S/D	0	0	0	0	0	0	0	6	51	91	98	123	121	146	119	69	34	2	0	0	0	0	0	0	559
S/A	0	0	0	0	0	0	0	0.46	0.52	0.53	0.56	0.53	0.53	0.59	0.64	0.46	0.52	0.84	0	0	0	0	0	0	0.53
Min	0	0	0	0	0	0	0	2	11	23	25	38	46	32	21	12	4	0	0	0	0	0	0	0	216
Max	0	0	0	0	0	0	0	27	164	303	353	458	416	447	364	230	116	8	0	0	0	0	0	0	2107

Daylight Data Recovery: 0% missing; 35% exceed the 15% QC threshold -- 3634 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