

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Savannah State College - January 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	5	105	217	334	443	492	487	333	221	66	7	0	0	0	0	0	0	2711	
2	0	0	0	0	0	0	0	13	104	282	436	525	477	491	432	278	109	4	0	0	0	0	0	0	3150	
3	0	0	0	0	0	0	0	11	99	314	462	528	556	524	439	283	110	6	0	0	0	0	0	0	3332	
4	0	0	0	0	0	0	0	13	127	283	436	528	524	453	354	216	40	1	0	0	0	0	0	0	2974	
5	0	0	0	0	0	0	0	12	142	324	481	574	603	565	471	312	130	8	0	0	0	0	0	0	3623	
6	0	0	0	0	0	0	0	10	34	118	310	264	208	198	154	118	70	3	0	0	0	0	0	0	1487	
7	0	0	0	0	0	0	0	12	14	83	168	349	528	523	434	283	116	7	0	0	0	0	0	0	2518	
8	0	0	0	0	0	0	0	9	105	283	295	182	268	243	281	162	95	9	0	0	0	0	0	0	1935	
9	0	0	0	0	0	0	0	9	78	162	256	411	564	530	433	291	120	5	0	0	0	0	0	0	2859	
10	0	0	0	0	0	0	0	5	21	68	110	169	231	279	293	282	143	13	0	0	0	0	0	0	1615	
11	0	0	0	0	0	0	0	12	138	308	458	554	587	565	479	327	142	14	0	?	0	0	0	0	3585	
12	0	0	0	0	0	0	0	15	141	310	458	551	587	558	467	315	136	13	0	0	0	0	0	0	3551	
13	0	0	0	0	0	0	0	8	111	306	456	544	302	431	264	164	74	9	0	0	0	0	0	0	2670	
14	0	0	0	0	0	0	0	13	148	339	499	597	632	594	494	347	155	17	0	0	0	0	0	0	3834	
15	0	0	0	0	0	0	0	14	144	332	485	583	615	582	492	343	155	16	0	0	0	0	0	0	3761	
16	0	0	0	0	0	0	0	16	146	322	477	574	607	571	463	310	146	21	0	0	0	0	0	0	3653	
17	0	0	0	0	0	0	0	8	126	290	428	553	593	538	472	315	133	20	0	0	0	0	0	0	3476	
18	0	0	0	0	0	0	0	6	54	133	187	195	244	165	43	88	75	3	0	0	0	0	0	0	1193	
19	0	0	0	0	0	0	0	14	115	258	386	252	202	155	139	76	31	1	0	0	0	0	0	0	1629	
20	0	0	0	0	0	0	0	8	142	321	488	598	634	608	513	363	171	25	0	0	0	0	0	0	3873	
21	0	0	0	0	0	0	0	16	151	347	505	616	654	622	533	380	182	26	0	0	0	0	0	0	4032	
22	0	0	0	0	0	0	0	14	108	173	185	395	225	255	306	153	112	20	0	0	0	0	0	0	1946	
23	0	0	0	0	0	0	0	3	38	61	73	50	130	106	79	35	17	3	0	0	0	0	0	0	596	
24	0	0	0	0	0	0	0	1	13	18	?	35	?	53	101	67	69	27	20	6	0	0	0	0	0	409
25	0	0	0	0	0	0	0	11	143	328	454	598	654	624	528	294	82	18	0	0	0	0	0	0	3733	
26	0	0	0	0	0	0	0	18	155	350	514	622	651	639	539	392	197	35	0	0	0	0	0	0	4111	
27	0	0	0	0	0	0	0	20	161	362	521	619	673	612	501	368	200	38	0	0	0	0	0	0	4075	
28	0	0	0	0	0	0	0	1	32	62	101	105	122	94	81	48	23	4	0	0	0	0	0	0	673	
29	0	0	0	0	0	0	0	1	17	32	56	82	99	88	56	34	24	3	0	0	0	0	0	0	492	
30	0	0	0	0	0	0	0	5	33	61	77	67	100	133	78	28	24	10	0	0	0	0	0	0	616	
31	0	0	0	0	0	0	0	5	56	180	435	647	699	659	565	412	215	43	0	0	0	0	0	0	3917	
Avg	0	0	0	0	0	0	0	10	97	227	341	414	437	418	348	234	107	13	0	0	0	0	0	0	2646	
S D	0	0	0	0	0	0	0	5	49	112	162	203	210	200	172	122	57	11	0	0	0	0	0	0	1228	
S/A	0	0	0	0	0	0	0	0.5	0.51	0.49	0.48	0.49	0.48	0.48	0.49	0.52	0.54	0.83	0	0	0	0	0	0	0.46	
Min	0	0	0	0	0	0	0	1	13	18	35	50	99	67	43	27	17	1	0	0	0	0	0	0	409	
Max	0	0	0	0	0	0	0	20	161	362	521	647	699	659	565	412	215	43	0	0	0	0	0	0	4111	

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: 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 - January 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	5	84	113	345	524	595	744	420	223	61	15	0	0	0	0	0	0	3128
2	0	0	0	0	0	0	0	66	306	633	792	792	543	755	802	659	383	14	0	0	0	0	0	0	5747
3	0	0	0	0	0	0	0	8	61	644	858	846	862	847	841	701	435	44	0	0	0	0	0	0	6147
4	0	0	0	0	0	0	0	69	380	581	751	814	589	528	372	334	6	2	0	0	0	0	0	0	4426
5	0	0	0	0	0	0	0	99	538	782	904	945	951	935	901	785	542	84	0	0	0	0	0	0	7467
6	0	0	0	0	0	0	0	23	4	14	48	25	15	12	11	16	15	1	0	0	0	0	0	0	184
7	0	0	0	0	0	0	0	22	2	5	16	125	624	727	711	605	404	43	0	0	0	0	0	0	3283
8	0	0	0	0	0	0	0	20	107	485	204	10	30	22	54	40	106	15	0	0	0	0	0	0	1093
9	0	0	0	0	0	0	0	26	31	35	51	341	754	792	737	638	377	9	0	0	0	0	0	0	3789
10	0	0	0	0	0	0	0	15	2	6	12	8	17	34	189	560	551	103	0	0	0	0	0	0	1497
11	0	0	0	0	0	0	0	110	488	681	791	858	883	898	880	782	544	100	0	0	0	0	0	0	7015
12	0	0	0	0	0	0	0	133	505	724	841	883	894	881	840	724	483	95	0	0	0	0	0	0	7002
13	0	0	0	0	0	0	0	20	290	672	801	802	68	348	190	109	70	11	0	0	0	0	0	0	3382
14	0	0	0	0	0	0	0	127	570	817	925	964	975	937	883	814	580	128	0	0	0	0	0	0	7720
15	0	0	0	0	0	0	0	105	527	787	892	936	944	927	892	797	569	120	0	0	0	0	0	0	7496
16	0	0	0	0	0	0	0	141	533	743	853	892	893	881	761	602	456	110	0	0	0	0	0	0	6866
17	0	0	0	0	0	0	0	10	317	538	491	785	840	766	756	639	365	79	0	0	0	0	0	0	5586
18	0	0	0	0	0	0	0	8	20	90	27	8	26	13	7	15	5	0	0	13	0	0	0	0	221
19	0	0	0	0	0	0	0	13	56	247	324	37	15	8	7	5	2	0	0	0	0	0	0	0	714
20	0	0	0	0	0	0	0	21	463	636	835	905	913	917	868	775	551	150	0	0	0	0	0	0	7034
21	0	0	0	0	0	0	0	127	543	797	897	959	971	937	928	846	625	178	0	0	0	0	0	0	7808
22	0	0	0	0	0	0	0	21	49	23	16	83	18	20	78	9	16	14	0	0	0	0	0	0	347
23	0	0	0	0	0	0	0	2	4	4	3	1	6	3	3	1	1	1	0	0	0	0	0	0	30
24	0	0	0	0	0	0	0	0	1	1	0	1	3	2	2	1	2	4	0	0	2	0	0	0	18
25	0	0	0	0	0	0	0	10	396	642	596	861	923	915	863	524	15	12	0	0	0	0	0	0	5756
26	0	0	0	0	0	0	0	101	471	716	835	894	854	889	855	780	575	178	0	0	0	0	0	0	7147
27	0	0	0	0	0	0	0	239	549	799	885	919	959	871	760	688	497	140	0	0	0	0	0	0	7307
28	0	0	0	0	0	0	0	5	3	4	4	3	4	3	3	2	2	1	0	0	0	0	0	0	33
29	0	0	0	0	0	0	0	0	1	1	2	2	3	2	2	1	2	1	0	0	0	0	0	0	17
30	0	0	0	0	0	0	0	3	3	3	3	3	3	5	3	1	1	3	0	0	0	0	0	0	30
31	0	0	0	0	0	0	0	3	5	23	469	890	953	946	906	716	626	221	0	0	0	0	0	0	5756
Avg	0	0	0	0	0	0	0	50	236	395	467	520	520	534	501	432	286	61	0	0	0	0	0	0	4001
S/D	0	0	0	0	0	0	0	58	226	332	377	411	415	406	382	332	248	65	0	0	0	0	0	0	2972
S/A	0	0	0	0	0	0	0	1.17	0.96	0.84	0.81	0.79	0.8	0.76	0.76	0.77	0.87	1.07	0	0	0	0	0	0	0.74
Min	0	0	0	0	0	0	0	0	1	1	0	1	3	2	1	1	1	0	0	0	0	0	0	0	17
Max	0	0	0	0	0	0	0	239	570	817	925	964	975	946	928	846	626	221	0	0	0	0	0	0	7808

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: 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 - January 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	6	85	180	171	154	153	84	131	143	54	5	0	0	0	0	0	0	1165
2	0	0	0	0	0	0	0	9	43	57	62	92	166	82	60	52	36	3	0	0	0	0	0	0	663
3	0	0	0	0	0	0	0	11	85	77	58	64	62	62	47	42	28	3	0	0	0	0	0	0	541
4	0	0	0	0	0	0	0	10	50	78	80	82	187	164	183	98	38	1	0	0	0	0	0	0	969
5	0	0	0	0	0	0	0	7	34	49	53	54	55	52	48	39	26	3	0	0	0	0	0	0	421
6	0	0	0	0	0	0	0	10	33	113	288	251	199	192	148	112	67	3	0	0	0	0	0	0	1416
7	0	0	0	0	0	0	0	11	14	81	160	280	167	122	97	69	36	4	0	0	0	0	0	0	1041
8	0	0	0	0	0	0	0	9	82	116	203	177	251	230	254	149	76	9	0	0	0	0	0	0	1557
9	0	0	0	0	0	0	0	9	70	151	232	218	125	89	80	62	42	5	0	0	0	0	0	0	1083
10	0	0	0	0	0	0	0	5	20	66	105	164	221	260	205	86	31	5	0	0	0	0	0	0	1169
11	0	0	0	0	0	0	0	7	39	67	78	74	69	61	53	43	29	5	0	0	0	0	0	0	526
12	0	0	0	0	0	0	0	9	41	51	54	56	60	62	58	50	34	6	0	0	0	0	0	0	480
13	0	0	0	0	0	0	0	8	46	64	69	93	262	232	167	123	59	8	0	0	0	0	0	0	1131
14	0	0	0	0	0	0	0	6	32	45	51	53	53	61	59	44	30	6	0	0	0	0	0	0	441
15	0	0	0	0	0	0	0	7	36	48	52	53	52	53	50	44	31	6	0	0	0	0	0	0	431
16	0	0	0	0	0	0	0	8	38	52	62	67	73	65	83	81	47	11	0	0	0	0	0	0	586
17	0	0	0	0	0	0	0	9	55	98	186	105	88	95	94	71	51	13	0	0	0	0	0	0	865
18	0	0	0	0	0	0	0	6	50	104	174	191	228	157	42	86	72	3	0	0	0	0	0	0	1112
19	0	0	0	0	0	0	0	13	105	158	229	231	193	150	136	74	31	1	0	0	0	0	0	0	1321
20	0	0	0	0	0	0	0	7	43	86	74	75	78	71	69	60	42	11	0	0	0	0	0	0	616
21	0	0	0	0	0	0	0	8	36	52	58	59	59	69	56	47	34	9	0	0	0	0	0	0	487
22	0	0	0	0	0	0	0	13	99	164	178	346	214	243	266	149	108	19	0	0	0	0	0	0	1799
23	0	0	0	0	0	0	0	3	38	60	72	49	126	105	77	35	17	3	0	0	0	0	0	0	584
24	0	0	0	0	0	0	0	1	13	18	?	35	?	53	99	66	68	26	19	6	0	0	0	0	403
25	0	0	0	0	0	0	0	10	50	85	151	87	78	73	72	69	78	17	0	0	0	0	0	0	771
26	0	0	0	0	0	0	0	10	51	77	88	90	115	100	84	71	51	15	0	0	0	0	0	0	752
27	0	0	0	0	0	0	0	9	40	55	67	69	68	80	93	82	72	24	0	0	0	0	0	0	658
28	0	0	0	0	0	0	0	1	31	61	99	104	120	92	80	47	22	4	0	0	0	0	0	0	661
29	0	0	0	0	0	0	0	1	17	31	55	81	97	86	55	34	23	3	0	0	0	0	0	0	484
30	0	0	0	0	0	0	0	5	32	60	75	66	98	130	77	27	24	9	0	0	0	0	0	0	603
31	0	0	0	0	0	0	0	4	55	171	183	103	84	69	67	105	45	17	0	0	0	0	0	0	902
Avg	0	0	0	0	0	0	0	7	47	83	113	117	126	112	99	72	44	8	0	0	0	0	0	0	827
S/D	0	0	0	0	0	0	0	3	23	42	67	76	64	61	59	35	21	6	0	0	0	0	0	0	363
S/A	0	0	0	0	0	0	0	0.42	0.49	0.5	0.59	0.65	0.51	0.54	0.6	0.48	0.47	0.74	0	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	0	1	13	18	35	49	52	52	42	26	17	1	0	0	0	0	0	0	403
Max	0	0	0	0	0	0	0	13	105	180	288	346	262	260	266	149	108	24	0	0	0	0	0	0	1799

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: 7.53 uV/Wm-2
Serial Number: 17862F3
Calibration Date: 5/19/1998