

Savannah State College
32.03 N Latitude 81.07 W Longitude 11 Meters AMSL Time Zone -5

November 2001

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	8	78	281	487	552	592	633	591	422	305	117	18	0	0	0	0	0	0	4085
2	0	0	0	0	0	0	4	54	167	313	277	371	658	530	518	186	78	18	0	0	0	0	0	0	3174
3	0	0	0	0	0	0	8	81	254	428	558	633	643	581	466	290	102	11	0	0	0	0	0	0	4053
4	0	0	0	0	0	0	5	80	251	409	527	612	636	575	449	246	104	18	0	0	0	0	0	0	3911
5	0	0	0	0	0	0	3	55	167	309	372	442	463	402	334	230	102	23	0	0	0	0	0	0	2900
6	0	0	0	0	0	0	4	86	278	463	593	660	668	606	485	305	112	10	0	0	0	0	0	0	4270
7	0	0	0	0	0	0	6	84	282	453	583	647	655	597	479	303	109	9	0	0	0	0	0	0	4206
8	0	0	0	0	0	0	3	76	269	428	557	626	631	570	444	266	89	12	0	0	0	0	0	0	3972
9	0	0	0	0	0	0	4	74	220	368	550	618	627	568	449	274	91	6	0	0	0	0	0	0	3851
10	0	0	0	0	0	0	5	44	161	377	502	614	627	563	442	277	100	7	0	0	0	0	0	0	3720
11	0	0	0	0	0	0	3	68	215	407	519	561	598	480	340	208	88	7	0	0	0	0	0	0	3493
12	0	0	0	0	0	0	4	54	177	393	465	508	549	384	233	268	97	15	0	0	0	0	0	0	3148
13	0	0	0	0	0	0	5	29	145	349	342	252	316	502	429	271	92	13	0	0	0	0	0	0	2746
14	0	0	0	0	0	0	1	18	68	122	146	168	143	129	66	55	36	5	0	0	0	0	0	0	956
15	0	0	0	0	0	0	2	26	77	142	164	201	98	97	101	103	64	6	0	0	0	0	0	0	1081
16	0	0	0	0	0	0	0	29	132	227	480	605	609	554	440	270	89	5	0	0	0	0	0	0	3440
17	0	0	0	0	0	0	3	42	226	400	521	586	599	542	424	257	83	3	0	0	0	0	0	0	3686
18	0	0	0	0	0	0	2	45	201	409	522	597	617	565	449	271	88	3	0	0	0	0	0	0	3770
19	0	0	0	0	0	0	3	26	103	287	444	442	492	530	422	247	78	4	0	0	0	0	0	0	3079
20	0	0	0	0	0	0	1	59	157	386	495	502	444	508	390	224	59	6	0	0	0	0	0	0	3231
21	0	0	0	0	0	0	0	37	208	377	505	571	583	476	398	252	80	4	0	0	0	0	0	0	3489
22	0	0	0	0	0	0	0	37	157	369	497	572	575	514	399	188	78	5	0	0	0	0	0	0	3392
23	0	0	0	0	0	0	0	37	100	123	221	174	190	155	135	94	31	4	0	0	0	0	0	0	1264
24	0	0	0	0	0	0	0	45	186	346	458	523	552	491	372	129	32	8	0	0	0	0	0	0	3143
25	0	0	0	0	0	0	0	32	95	105	85	156	248	301	391	240	69	5	0	0	0	0	0	0	1727
26	0	0	0	0	0	0	0	28	179	341	461	528	550	476	390	249	70	3	0	0	0	0	0	0	3276
27	0	0	0	0	0	0	0	32	146	334	328	441	510	414	407	243	76	4	0	0	0	0	0	0	2935
28	0	0	0	0	0	0	0	31	189	347	475	539	523	458	332	208	71	9	0	0	0	0	0	0	3181
29	0	0	0	0	0	0	0	40	203	329	440	407	520	493	314	192	60	7	0	0	0	0	0	0	3006
30	0	0	0	0	0	0	0	44	185	292	438	400	295	299	288	105	51	12	0	0	0	0	0	0	2409
Avg	0	0	0	0	0	0	2	49	183	337	436	485	508	465	374	225	80	9	0	0	0	0	0	0	3153
S D	0	0	0	0	0	0	2	20	60	102	135	155	164	139	111	67	23	5	0	0	0	0	0	0	885
S/A	0	0	0	0	0	0	1	0.42	0.33	0.3	0.31	0.32	0.32	0.3	0.3	0.28	0.6	0	0	0	0	0	0	0	0.28
Min	0	0	0	0	0	0	0	18	68	105	85	156	98	97	66	55	31	3	0	0	0	0	0	0	956
Max	0	0	0	0	0	0	8	86	282	487	593	660	668	606	518	305	117	23	0	0	0	0	0	0	4270
n	0	0	0	0	0	0	49	356	360	359	360	360	360	360	360	360	360	126	0	0	0	0	0	0	3770

Daylight Data Recovery: 0.0% missing; 0.0% exceed the 15% QC threshold -- 3771 total daylight measurements.

Instrument: Eppley PSP Serial Number: 28401F3 Calibration Factor: 7.980 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

November 2001

Estimated Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Calculated
 Watt-Hours per Square Meter

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	0	0	0	0	0	*	
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
4	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
25	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
30	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	
Max	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% exceed the 15% QC threshold -- 3771 total daylight measurements.

Instrument: Calculated Serial Number: Estimated Calibration Factor: Global = Diffuse + Direct * COS (Zenith Angle) Calibration Date: N/A

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Savannah State College
32.03 N Latitude 81.07 W Longitude 11 Meters AMSL Time Zone -5

November 2001

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	8	69	181 ?	?	?	444 ?	?	?	262 ?	276 ?	115	17	0	0	0	0	0	0	1373 ?
2	0	0	0	0	0	0	4	49	157	278	263	319	481 ?	454 ?	324 ?	180	72	17	0	0	0	0	0	0	2599 ?
3	0	0	0	0	0	0	8	75	235	371 ?	?	?	?	?	?	270	98	10	0	0	0	0	0	0	1066 ?
4	0	0	0	0	0	0	4	67	162 ?	348 ?	458 ?	?	?	?	355 ?	220	95	18	0	0	0	0	0	0	1727 ?
5	0	0	0	0	0	0	2	54	164	306	352	403	416	372	322	228	99	22	0	0	0	0	0	0	2741
6	0	0	0	0	0	0	4	56	198 ?	?	?	?	?	?	?	223 ?	113	10	0	0	0	0	0	0	604 ?
7	0	0	0	0	0	0	5	56	?	?	?	?	?	?	?	220 ?	111	9	0	0	0	0	0	0	400 ?
8	0	0	0	0	0	0	3	58	222 ?	345 ?	?	?	?	?	374 ?	253	85	12	0	0	0	0	0	0	1351 ?
9	0	0	0	0	0	0	3	56	190	274 ?	?	?	?	?	?	260	90	6	0	0	0	0	0	0	879 ?
10	0	0	0	0	0	0	5	44	156	281 ?	464 ?	?	?	?	?	251 ?	99	6	0	0	0	0	0	0	1305 ?
11	0	0	0	0	0	0	2	39	171 ?	354 ?	457 ?	429 ?	?	403 ?	273 ?	173 ?	88	6	0	0	0	0	0	0	2396 ?
12	0	0	0	0	0	0	4	45	173	311 ?	400 ?	387 ?	449 ?	367	219	223 ?	92	15	0	0	0	0	0	0	2684 ?
13	0	0	0	0	0	0	5	29	121	338	335	237	295	387 ?	402 ?	247 ?	95	13	0	0	0	0	0	0	2501 ?
14	0	0	0	0	0	0	1	17	62	111	135	155	131	118	61	52	33	5	0	0	0	0	0	0	881
15	0	0	0	0	0	0	2	25	74	133	152	189	91	89	92	95	61	6	0	0	0	0	0	0	1007
16	0	0	0	0	0	0	0	27	123	213	221 ?	?	?	?	?	211 ?	95	5	0	0	0	0	0	0	894 ?
17	0	0	0	0	0	0	2	38	180 ?	?	?	?	?	?	354 ?	227 ?	84	3	0	0	0	0	0	0	889 ?
18	0	0	0	0	0	0	2	41	176	345 ?	?	?	?	?	?	210 ?	94	4	0	0	0	0	0	0	871 ?
19	0	0	0	0	0	0	3	24	98	215 ?	394 ?	400	428 ?	452 ?	354 ?	219 ?	80	4	0	0	0	0	0	0	2672 ?
20	0	0	0	0	0	0	1	52	132 ?	266 ?	433 ?	458 ?	404	454 ?	348	208	56	6	0	0	0	0	0	0	2819 ?
21	0	0	0	0	0	0	0	29	184	340 ?	?	?	?	378 ?	355 ?	215 ?	82	4	0	0	0	0	0	0	1586 ?
22	0	0	0	0	0	0	0	26	134	335 ?	?	?	?	?	344 ?	179	73	5	0	0	0	0	0	0	1096 ?
23	0	0	0	0	0	0	0	36	97	116	211	160	180	143	125	86	28	4	0	0	0	0	0	0	1186
24	0	0	0	0	0	0	0	28	175	325	?	390 ?	?	?	313 ?	122	30	8	0	0	0	0	0	0	1391 ?
25	0	0	0	0	0	0	0	31	90	100	79	148	242	271	294 ?	208 ?	70	5	0	0	0	0	0	0	1536
26	0	0	0	0	0	0	0	24	172	307 ?	?	?	?	?	345 ?	214 ?	70	3	0	0	0	0	0	0	1135 ?
27	0	0	0	0	0	0	0	29	159	293 ?	262 ?	308 ?	294 ?	326 ?	?	195 ?	76	4	0	0	0	0	0	0	1946 ?
28	0	0	0	0	0	0	0	22	196 ?	265 ?	?	?	469 ?	405 ?	303	195	67	8	0	0	0	0	0	0	1930 ?
29	0	0	0	0	0	0	0	33	160 ?	310 ?	331 ?	323 ?	454 ?	377 ?	299	180	57	7	0	0	0	0	0	0	2532 ?
30	0	0	0	0	0	0	0	39	115 ?	236 ?	397 ?	360	287	288	254	99	49	11	0	0	0	0	0	0	2135 ?

Avg	0	0	0	0	0	0	2	41	154	274	314	319	330	330	290	198	78	8	0	0	0	0	0	0	1605 ?
S D	0	0	0	0	0	0	2	16	42	80	122	109	132	119	91	56	23	5	0	0	0	0	0	0	731
S/A	0	0	0	0	0	0	1.03	0.38	0.28	0.29	0.39	0.34	0.4	0.36	0.31	0.28	0.3	0.61	0	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	0	17	62	100	79	148	91	89	61	52	28	3	0	0	0	0	0	0	400
Max	0	0	0	0	0	0	8	75	235	371	464	458	481	454	402	276	115	22	0	0	0	0	0	0	2819
n	0	0	0	0	0	0	49	355	281	206	130	144	123	134	163	283	360	126	0	0	0	0	0	0	2362

Daylight Data Recovery: 0.0% missing; 37.4% exceed the 15% QC threshold -- 3771 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17862F3 Calibration Factor: 7.530 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.