

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

April 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	35	191	427	631	610	514	897	898	785	622	410	184	35	0	0	0	0	0	6236
2	0	0	0	0	0	0	38	200	435	633	795	899	921	899	798	578	405	176	32	0	0	0	0	0	6808
3	0	0	0	0	0	0	27	125	296	353	329	151	119	196	127	70	45	47	11	0	0	0	0	0	1896
4	0	0	0	0	0	0	23	143	328	537	244	147	167	209	133	91	50	30	6	0	0	0	0	0	2108
5	0	0	0	0	0	0	43	154	274	354	500	691	453	407	308	320	129	75	18	0	0	0	0	0	3727
6	0	0	0	0	0	0	23	95	404	611	770	776	833	862	703	556	390	168	31	0	0	0	0	0	6221
7	0	0	0	0	0	0	57	178	415	620	779	864	863	762	585	505	265	129	33	0	0	0	0	0	6055
8	0	0	0	0	0	0	41	159	372	580	695	872	859	709	484	542	215	130	35	0	0	0	0	0	5692
9	0	0	0	0	0	0	46	206	433	627	756	910	917	769	766	603	392	179	34	0	0	0	0	0	6638
10	0	0	0	0	0	0	43	211	441	536	786	814	681	569	704	580	381	155	34	0	0	0	0	0	5936
11	0	0	0	0	0	0	45	156	320	489	783	880	901	791	506	478	426	199	34	0	0	0	0	0	6007
12	0	0	0	0	0	0	29	134	292	357	631	850	925	799	689	559	355	153	39	0	0	0	0	0	5813
13	0	0	0	0	0	1	55	229	428	641	784	870	836	671	520	288	369	143	35	0	0	0	0	0	5870
14	0	0	0	0	0	2	53	180	311	635	766	867	942	779	612	592	407	157	37	0	0	0	0	0	6340
15	0	0	0	0	0	4	23	51	59	82	592	752	611	515	557	185	59	28	3	0	0	0	0	0	3521
16	0	0	0	0	0	3	59	247	473	669	824	924	950	903	792	627	423	201	39	0	0	0	0	0	7134
17	0	0	0	0	0	2	60	198	294	535	565	821	860	888	607	581	423	207	43	0	0	0	0	0	6084
18	0	0	0	0	0	2	69	268	493	698	859	952	968	922	804	638	425	200	40	0	0	0	0	0	7339
19	0	0	0	0	0	3	65	250	465	659	825	923	946	898	785	608	400	193	38	0	0	0	0	0	7056
20	0	0	0	0	0	4	65	261	471	667	837	931	947	897	793	619	433	206	40	0	0	0	0	0	7169
21	0	0	0	0	0	6	89	253	468	670	855	943	930	894	793	632	416	208	29	0	0	0	0	0	7187
22	0	0	0	0	0	10	79	235	467	678	773	944	953	919	794	635	440	207	42	0	0	0	0	0	7175
23	0	0	0	0	0	6	67	229	353	508	678	809	853	805	734	637	394	211	38	0	0	0	0	0	6320
24	0	0	0	0	0	12	66	252	486	757	626	751	750	887	768	555	429	171	34	0	0	0	0	0	6546
25	0	0	0	0	0	7	60	73	44	190	267	157	60	54	75	69	53	15	11	0	0	0	0	0	1135
26	0	0	0	0	0	5	79	284	521	722	879	973	996	954	840	667	463	234	45	0	0	0	0	0	7662
27	0	0	0	0	0	8	92	293	516	699	841	923	946	902	806	645	443	220	44	0	0	0	0	0	7379
28	0	0	0	0	0	8	92	308	512	707	858	943	962	918	766	608	380	238	33	0	0	0	0	0	7331
29	0	0	0	0	0	11	72	265	377	638	719	793	554	648	804	506	350	157	36	0	0	0	0	0	5931
30	0	0	0	0	0	12	76	267	436	602	748	803	700	652	549	389	229	107	35	0	0	0	0	0	5606
Avg	0	0	0	0	0	4	56	203	387	569	699	782	777	733	633	499	333	158	32	0	0	0	0	0	5864
S D	0	0	0	0	0	4	21	66	117	158	172	233	260	239	218	183	135	63	11	0	0	0	0	0	1694
S/A	0	0	0	0	0	1.15	0.37	0.33	0.3	0.28	0.25	0.3	0.33	0.33	0.34	0.37	0.4	0.4	0.34	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	23	51	44	82	244	147	60	54	75	69	45	15	3	0	0	0	0	0	1135
Max	0	0	0	0	0	12	92	308	521	757	879	973	996	954	840	667	463	238	45	0	0	0	0	0	7662
n	0	0	0	0	0	47	348	360	360	360	360	360	360	360	360	360	360	360	302	0	0	0	0	0	4657

Daylight Data Recovery: 0.0% missing; 0.0% exceed the 15% QC threshold -- 4659 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.

April 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	*	
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
3	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
4	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
22	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
23	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
25	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
26	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
27	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
Avg	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	N/A	N/A	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	N/A	N/A	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	N/A	N/A	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 -- 4659 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.

April 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	21	65	90	114	275	255	239	143	134	124	101	69	24	0	0	0	0	0	1654
2	0	0	0	0	0	0	23	65	82	98	102	112	119	146	136	119	88	56	19	0	0	0	0	0	1167
3	0	0	0	0	0	0	24	110	243	246	299	136	109	181	117	64	41	42	9	0	0	0	0	0	1621
4	0	0	0	0	0	0	21	118	218	288	224	135	153	193	122	84	46	27	6	0	0	0	0	0	1635
5	0	0	0	0	0	0	39	132	246	319	435	500 ?	408	370	272	287	118	69	17	0	0	0	0	0	3211
6	0	0	0	0	0	0	22	85	362	537 ?	?	573 ?	650 ?	?	605 ?	518	355	146	25	0	0	0	0	0	3881 ?
7	0	0	0	0	0	0	55	159	356 ?	?	?	?	?	688 ?	536	433	236	112	30	0	0	0	0	0	2604 ?
8	0	0	0	0	0	0	36	142	317 ?	482 ?	495 ?	?	613 ?	501 ?	388 ?	470 ?	195	107	33	0	0	0	0	0	3778 ?
9	0	0	0	0	0	0	44	179	384 ?	?	590 ?	?	?	467 ?	641 ?	?	371	175	34	0	0	0	0	0	2886 ?
10	0	0	0	0	0	0	41	197	378 ?	490	?	595 ?	519 ?	431 ?	571 ?	520 ?	371	148	33	0	0	0	0	0	4294 ?
11	0	0	0	0	0	0	40	140	292	367 ?	?	?	?	644 ?	460	350 ?	391 ?	169 ?	35	0	0	0	0	0	2889 ?
12	0	0	0	0	0	0	27	121	265	322	393 ?	695 ?	?	677 ?	651 ?	502 ?	348	145	37	0	0	0	0	0	4183 ?
13	0	0	0	0	0	1	53	217	399	?	?	?	691 ?	528 ?	399 ?	261	353	132	33	0	0	0	0	0	3068 ?
14	0	0	0	0	0	2	48	161	252	518 ?	590 ?	?	?	429 ?	445 ?	485 ?	387 ?	147	34	0	0	0	0	0	3498 ?
15	0	0	0	0	0	3	21	46	54	75	438 ?	583 ?	496	415	483	169	54	25	3	0	0	0	0	0	2865
16	0	0	0	0	0	3	54	233	410 ?	?	?	?	?	?	?	?	388 ?	183	38	0	0	0	0	0	1308 ?
17	0	0	0	0	0	1	55	173	265	410 ?	457	631 ?	547 ?	?	451 ?	536 ?	411	187	41	0	0	0	0	0	4166 ?
18	0	0	0	0	0	2	66	250 ?	401 ?	?	?	?	?	?	?	?	383 ?	188	37	0	0	0	0	0	1327 ?
19	0	0	0	0	0	3	59	234	436	?	?	?	?	?	?	543 ?	385	181	35	0	0	0	0	0	1876 ?
20	0	0	0	0	0	3	60	232	431 ?	?	?	?	?	?	?	?	374 ?	188	38	0	0	0	0	0	1327 ?
21	0	0	0	0	0	7 ?	82	236	425 ?	?	?	?	?	?	?	?	403 ?	178	28	0	0	0	0	0	1359 ?
22	0	0	0	0	0	11 ?	66	261 ?	397 ?	?	621 ?	?	?	?	?	?	367 ?	194	42	0	0	0	0	0	1960 ?
23	0	0	0	0	0	6	78 ?	249	339	445	485 ?	663 ?	726 ?	671 ?	602 ?	?	384	197	39	0	0	0	0	0	4884 ?
24	0	0	0	0	0	13 ?	61	251	457 ?	?	437 ?	502 ?	671 ?	?	?	520 ?	364 ?	164	33	0	0	0	0	0	3473 ?
25	0	0	0	0	0	6	55	68	40	175	245	145	56	50	69	64	48	14	10	0	0	0	0	0	1047
26	0	0	0	0	0	5	75	261 ?	?	?	?	?	?	?	?	?	?	182 ?	47	0	0	0	0	0	570 ?
27	0	0	0	0	0	7	86	274	395 ?	?	?	?	?	?	?	?	387 ?	197	45	0	0	0	0	0	1392 ?
28	0	0	0	0	0	7	83	290	418 ?	?	?	?	?	?	565 ?	413 ?	339	183 ?	32	0	0	0	0	0	2330 ?
29	0	0	0	0	0	10	65	218 ?	366	566 ?	633 ?	689 ?	519	487 ?	647 ?	456	325	144	33	0	0	0	0	0	5158 ?
30	0	0	0	0	0	11	71	252	414	568	684 ?	661 ?	624	601	509	359	210	98	35	0	0	0	0	0	5100
Avg	0	0	0	0	0	3	51	181	315	354	436	458	446	423	419	346	284	135	30	0	0	0	0	0	2684 ?
S D	0	0	0	0	0	4	21	73	121	167	163	230	233	204	198	176	133	59	11	0	0	0	0	0	1331
S/A	0	0	0	0	0	1.17	0.4	0.4	0.38	0.47	0.38	0.5	0.52	0.48	0.47	0.51	0.47	0.43	0.38	0	0	0	0	0	0.5
Min	0	0	0	0	0	0	21	46	40	75	102	112	56	50	69	64	41	14	3	0	0	0	0	0	570
Max	0	0	0	0	0	13	86	290	457	568	684	695	726	688	651	543	411	197	47	0	0	0	0	0	5158
n	0	0	0	0	0	44	342	338	278	165	137	114	140	151	178	191	293	338	301	0	0	0	0	0	3022

Daylight Data Recovery: 0.0% missing; 35.1% exceed the 15% QC threshold -- 4659 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.