

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

October 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	30	183	400	586	729	802	822	766	636	465	260	64	0	0	0	0	0	0	5742
2	0	0	0	0	0	0	34	182	442 ?	571	705	779	790	738	624	460	250	60	0	0	0	0	0	0	5636
3	0	0	0	0	0	0	33	176	373	551	688	761	783	731	617	449	246	54	0	0	0	0	0	0	5462
4	0	0	0	0	0	0	24	144	344	538	682	760	788	737	585	449	239	54	0	0	0	0	0	0	5344
5	0	0	0	0	0	0	26	140	277	531	590	551	661	364	333	455	236	39	0	0	0	0	0	0	4203
6	0	0	0	0	0	0	15	74	180	239	588	611	355	446	175	146	118	41	0	0	0	0	0	0	2987
7	0	0	0	0	0	0	17	123	363	542	689	770	800	746	620	451	239	49	0	0	0	0	0	0	5410
8	0	0	0	0	0	0	14	166	378	556	694	766	785	731	609	441	228	52	0	0	0	0	0	0	5419
9	0	0	0	0	0	0	17	150	356	530	543	586	614	735	580	166	44	5	0	0	0	0	0	0	4325
10	0	0	0	0	0	0	20	154	327	478	608	639	621	401	326	192	128	34	0	0	0	0	0	0	3928
11	0	0	0	0	0	0	17	79	217	420	283	487	626	653	379	249	192	24	0	0	0	0	0	0	3625
12	0	0	0	0	0	0	26	143	325	426	519	496	628	576	411	218	57	12	0	0	0	0	0	0	3838
13	0	0	0	0	0	0	17	85	254	465	676	683	693	582	465	368	177	32	0	0	0	0	0	0	4498
14	0	0	0	0	0	0	12	54	143	227	368	297	322	306	287	197	110	27	0	0	0	0	0	0	2349
15	0	0	0	0	0	0	13	148	357	537	677	752	763	700	575	405	194	35	0	0	0	0	0	0	5155
16	0	0	0	0	0	0	7	116	303	506	647	735	748	691	574	354	170	46	0	0	0	0	0	0	4897
17	0	0	0	0	0	0	14	147	362	546	683	755	766	704	579	406	185	32	0	0	0	0	0	0	5177
18	0	0	0	0	0	0	13	132	337	519	650	725	742	680	558	388	179	32	0	0	0	0	0	0	4955
19	0	0	0	0	0	0	12	124	325	448	659	716	720	664	561	386	167	26	0	0	0	0	0	0	4810
20	0	0	0	0	0	0	11	132	334	493	627	700	699	646	532	363	162	29	0	0	0	0	0	0	4729
21	0	0	0	0	0	0	11	70	163	391	538	412	496	549	312	297	121	46	0	0	0	0	0	0	3406
22	0	0	0	0	0	0	6	69	237	459	587	553	571	566	521	316	170	39	0	0	0	0	0	0	4092
23	0	0	0	0	0	0	11	62	153	323	602	676	511	578	520	352	148	21	0	0	0	0	0	0	3957
24	0	0	0	0	0	0	13	108	221	242	545	657	664	470	378	274	125	13	0	0	0	0	0	0	3710
25	0	0	0	0	0	0	8	102	290	409	445	635	534	622	516	357	151	21	0	0	0	0	0	0	4092
26	0	0	0	0	0	0	1	52	327	516	652	725	735	666	543	367	154	22	0	0	0	0	0	0	4761
27	0	0	0	0	0	0	6	108	328	509	644	716	727	655	537	366	150	20	0	0	0	0	0	0	4764
28	0	0	0	0	0	0	6	103	319	502	635	706	716	652	532	355	141	15	0	0	0	0	0	0	4682
29	0	0	0	0	0	0	7	100	307	489	620	687	696	637	521	349	137	14	0	0	0	0	0	0	4563
30	0	0	0	0	0	0	8	86	325	476	616	687	696	632	510	338	130	14	0	0	0	0	0	0	4519
31	0	0	0	0	0	0	8	91	279	462	579	639	655	596	481	309	107	22	0	0	0	0	0	0	4227
Avg	0	0	0	0	0	0	15	116	301	467	605	660	669	620	497	345	165	32	0	0	0	0	0	0	4492
S/D	0	0	0	0	0	0	8	38	74	96	98	116	123	117	116	91	54	15	0	0	0	0	0	0	792
S/A	0	0	0	0	0	0	0.56	0.33	0.25	0.2	0.16	0.18	0.18	0.19	0.23	0.26	0.33	0.48	0	0	0	0	0	0	0.18
Min	0	0	0	0	0	0	1	52	143	227	283	297	322	306	175	146	44	5	0	0	0	0	0	0	2349
Max	0	0	0	0	0	0	34	183	442	586	729	802	822	766	636	465	260	64	0	0	0	0	0	0	5742
n	0	0	0	0	0	0	201	371	367	372	372	372	372	372	372	372	372	291	3	0	0	0	0	0	4209

Daylight Data Recovery: 0.0% missing; 0.1% exceed the 15% QC threshold -- 4215 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.

October 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	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	*	
23	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	*	
25	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	*	
27	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	*	
29	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	*	
31	0	0	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	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	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	0
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	0	0	0	0	0	0	N/A	0
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 -- 4215 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

October 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	14	42	55	64	71	76	77	79	79	67	51	22	0	0	0	0	0	0	698
2	0	0	0	0	0	0	15	44	58	71	76	77	81	82	74	61	48	21	0	0	0	0	0	0	706
3	0	0	0	0	0	0	17	50	68	81	89	94	94	90	82	68	51	20	0	0	0	0	0	0	802
4	0	0	0	0	0	0	17	51	61	64	77	82	87	135	104	61	45	20	0	0	0	0	0	0	805
5	0	0	0	0	0	0	23	104	159	228	399	473	455	272	251	207	61	16	0	0	0	0	0	0	2648
6	0	0	0	0	0	0	14	68	161	222	297	321	294	371	160	132	106	37	0	0	0	0	0	0	2183
7	0	0	0	0	0	0	15	52	70	83	90	87	83	77	71	60	42	16	0	0	0	0	0	0	747
8	0	0	0	0	0	0	12	42	59	72	82	85	93	99	93	76	55	23	0	0	0	0	0	0	791
9	0	0	0	0	0	0	16	65	135	148	260	299	190	104	190	153	40	5	0	0	0	0	0	0	1606
10	0	0	0	0	0	0	19	109	201	251	302	407	415	322	303	175	114	30	0	0	0	0	0	0	2647
11	0	0	0	0	0	0	15	71	194	343 ?	264	427	466	500	314	214	166	22	0	0	0	0	0	0	2997
12	0	0	0	0	0	0	24	139	297	380	343 ?	468	535 ?	479 ?	362	206	53	11	0	0	0	0	0	0	3297
13	0	0	0	0	0	0	16	77	229	413	?	491 ?	545 ?	504 ?	411	333 ?	147	30	0	0	0	0	0	0	3196 ?
14	0	0	0	0	0	0	11	49	129	204	328	265	288	275	253	176	97	24	0	0	0	0	0	0	2100
15	0	0	0	0	0	0	9	135	281 ?	?	?	?	?	?	?	335 ?	189	35	0	0	0	0	0	0	983 ?
16	0	0	0	0	0	0	6	106	273	431 ?	?	?	?	?	?	291 ?	159	44	0	0	0	0	0	0	1310 ?
17	0	0	0	0	0	0	9	130	?	?	?	?	?	?	?	320 ?	181	32	0	0	0	0	0	0	672 ?
18	0	0	0	0	0	0	11	117	306 ?	?	?	?	?	?	?	323 ?	170	31	0	0	0	0	0	0	958 ?
19	0	0	0	0	0	0	12	113	309	308 ?	?	?	?	?	552 ?	469 ?	261 ?	160	25	0	0	0	0	0	2209 ?
20	0	0	0	0	0	0	10	117	278 ?	395 ?	?	?	?	?	?	340	159	28	0	0	0	0	0	0	1326 ?
21	0	0	0	0	0	0	11	63	142	355	460 ?	349	422	499	289	255	110	42	0	0	0	0	0	0	2996
22	0	0	0	0	0	0	6	65	223	397 ?	454 ?	438 ?	366 ?	428 ?	433 ?	280	166	37	0	0	0	0	0	0	3293 ?
23	0	0	0	0	0	0	10	56	137	309	414 ?	479 ?	365 ?	359 ?	?	336	150	21	0	0	0	0	0	0	2634 ?
24	0	0	0	0	0	0	12	86	206	219	442 ?	553 ?	546 ?	399 ?	333	246	121	13	0	0	0	0	0	0	3177 ?
25	0	0	0	0	0	0	8	96	263	370	399	502 ?	460 ?	?	?	315 ?	152	20	0	0	0	0	0	0	2586 ?
26	0	0	0	0	0	0	1	50	238 ?	?	?	?	?	?	?	260 ?	154	21	0	0	0	0	0	0	724 ?
27	0	0	0	0	0	0	6	109	224 ?	?	?	?	?	?	?	261 ?	152	19	0	0	0	0	0	0	771 ?
28	0	0	0	0	0	0	6	104	231 ?	?	?	?	?	?	?	260 ?	144	15	0	0	0	0	0	0	760 ?
29	0	0	0	0	0	0	6	100	265 ?	?	?	?	?	?	?	258 ?	141	14	0	0	0	0	0	0	784 ?
30	0	0	0	0	0	0	7	90	272 ?	?	?	?	?	?	?	249 ?	135	14	0	0	0	0	0	0	768 ?
31	0	0	0	0	0	0	7	86	260	382 ?	?	?	?	?	433 ?	296	102	20	0	0	0	0	0	0	1587 ?
Avg	0	0	0	0	0	0	12	83	193	252	269	314	308	296	248	222	117	23	0	0	0	0	0	0	1702 ?
S D	0	0	0	0	0	0	5	30	84	132	149	176	179	175	139	95	49	9	0	0	0	0	0	0	986
S/A	0	0	0	0	0	0	0.45	0.36	0.44	0.52	0.55	0.56	0.58	0.59	0.56	0.43	0.42	0.39	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	1	42	55	64	71	76	77	77	71	60	40	5	0	0	0	0	0	0	672
Max	0	0	0	0	0	0	24	139	309	431	460	553	546	552	469	340	189	44	0	0	0	0	0	0	3297
n	0	0	0	0	0	0	201	372	298	233	184	189	193	191	198	276	370	291	3	0	0	0	0	0	3001

Daylight Data Recovery: 0.0% missing; 28.8% exceed the 15% QC threshold -- 4215 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.