

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

March 2002

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	4	75 ?	296	444	629	689	786	774	635	492	298	104	7	0	0	0	0	0	5234
2	0	0	0	0	0	0	0	3	12	22	39	47	38	70	71	112	55	23	5	0	0	0	0	0	499
3	0	0	0	0	0	0	0	3	12	80	202	168	212	144	83	85	80	32	5	0	0	0	0	0	1105
4	0	0	0	0	0	0	1	23	107	262	506	464	278	361	434	249	189	81	11	0	0	0	0	0	2966
5	0	0	0	0	0	0	3	92	310	509	664	792	834	795	695	536	313	106	9	0	0	0	0	0	5658
6	0	0	0	0	0	0	8	131	312	502	658	778	825	793	684	524	329	116	10	0	0	0	0	0	5668
7	0	0	0	0	0	0	9	79	297	489	644	747	789	748	650	500	323	141	12	0	0	0	0	0	5428
8	0	0	0	0	0	0	7	98	311	485	616	723	787	778	666	515	226	84	15	0	0	0	0	0	5311
9	0	0	0	0	0	0	8	75	239	422	481	607	531	642	627	424	299	66	14	0	0	0	0	0	4435
10	0	0	0	0	0	0	6	106	317	500	681	808	852	810	695	552	348	122	13	0	0	0	0	0	5810
11	0	0	0	0	0	0	9	119	306	311	304	367	847	808	693	483	275	120	11	0	0	0	0	0	4652
12	0	0	0	0	0	0	5	51	130	137	147	240	361	312	276	253	136	49	38	0	0	0	0	0	2137
13	0	0	0	0	0	0	12	57	260	365	552	753	578	633	460	334	115	37	14	0	0	0	0	0	4171
14	0	0	0	0	0	0	13	113	326	510	663	794	835	807	704	542	335	132	14	0	0	0	0	0	5787
15	0	0	0	0	0	0	15	71	171	327	679	800	841	823	717	392	328	128	16	0	0	0	0	0	5308
16	0	0	0	0	0	0	11	124	290	517	648	765	768	562	560	373	116	51	7	0	0	0	0	0	4792
17	0	0	0	0	0	0	15	103	314	500	639	750	800	680	554	401	208	78	14	0	0	0	0	0	5057
18	0	0	0	0	0	0	19	118	267	467	422	773	554	443	508	377	177	54	8	0	0	0	0	0	4186
19	0	0	0	0	0	0	19	104	193	299	660	429	400	658	538	502	219	122	13	0	0	0	0	0	4158
20	0	0	0	0	0	0	14	114	364	473	542	637	792	652	535	528	339	91	21	0	0	0	0	0	5102
21	0	0	0	0	0	0	1	3	15	79	148	371	388	138	593	280	140	97	21	0	0	0	0	0	2273
22	0	0	0	0	0	0	21	148	360	511	684	743	849	807	678	565	379	155	22	0	0	0	0	0	5922
23	0	0	0	0	0	0	24	142	386	566	639	833	794	661	567	572	374	156	22	0	0	0	0	0	5738
24	0	0	0	0	0	0	22	105 ?	399 ?	573	736	843	886	857	753	589	394	166	24	0	0	0	0	0	6346
25	0	0	0	0	0	0	19	128	394	470	529	778	794	710	566	564	357	158	26	0	0	0	0	0	5492
26	0	0	0	0	0	0	26	123	337	559	640	817	844	579	434	301	71	38	7	0	0	0	0	0	4775
27	0	0	0	0	0	0	15	101	217	457	764	872	910	866	758	589	390	163	28	0	0	0	0	0	6131
28	0	0	0	0	0	0	13	123	167	130	263	440	642	581	533	355	166	81	16	0	0	0	0	0	3512
29	0	0	0	0	0	0	18	87	193	376	723	791	900	861	753	587	381	160	23	0	0	0	0	0	5852
30	0	0	0	0	0	0	30	114	342	532	733	790	671	642	543	329	239	99	15	0	0	0	0	0	5080
31	0	0	0	0	0	0	15	70	190	357	555	769	761	312	517	303	180	41	2	0	0	0	0	0	4073
Avg	0	0	0	0	0	0	12	90	253	395	542	651	682	623	564	426	251	98	15	0	0	0	0	0	4602
S D	0	0	0	0	0	0	8	40	110	158	197	220	228	228	170	140	106	44	8	0	0	0	0	0	1461
S/A	0	0	0	0	0	0	0.64	0.44	0.44	0.4	0.36	0.34	0.33	0.37	0.3	0.33	0.42	0.45	0.52	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	0	3	12	22	39	47	38	70	71	85	55	23	2	0	0	0	0	0	499
Max	0	0	0	0	0	0	30	148	399	573	764	872	910	866	758	589	394	166	38	0	0	0	0	0	6346
n	0	0	0	0	0	0	174	362	367	372	372	372	372	372	372	372	371	372	181	0	0	0	0	0	4431

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 4447 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.

March 2002

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	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
27	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
28	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
31	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	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 -- 4447 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

March 2002

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	3	16 ?	268 ?	382 ?	?	543 ?	626 ?	?	516 ?	411 ?	270	92	7	0	0	0	0	0	3134 ?
2	0	0	0	0	0	0	0	2	11	21	37	44	35	65	66	103	51	21	5	0	0	0	0	0	460
3	0	0	0	0	0	0	0	3	11	73	182	151	198	132	76	77	73	29	4	0	0	0	0	0	1008
4	0	0	0	0	0	0	1	21	98	236	260	383	254	329	347	229	173	71	10	0	0	0	0	0	2411
5	0	0	0	0	0	0	3	31	55	67	70	72	74	77	73	72	72	40	8	0	0	0	0	0	713
6	0	0	0	0	0	0	6	39	53	65	71	74	75	75	74	68	54	32	7	0	0	0	0	0	693
7	0	0	0	0	0	0	9	52	65	73	93	120	134	164	160	155	93	69	11	0	0	0	0	0	1197
8	0	0	0	0	0	0	7	42	94	137	172	231	196	179	129	116	184	66	12	0	0	0	0	0	1565
9	0	0	0	0	0	0	7	51	111	182	288	351	325	303	192	225	117	54	13	0	0	0	0	0	2216
10	0	0	0	0	0	0	6	55	86	89	76	81	87	93	94	75	58	38	9	0	0	0	0	0	848
11	0	0	0	0	0	0	7	44	164	230	270	298	119	98	109	185	173	54	10	0	0	0	0	0	1761
12	0	0	0	0	0	0	5	46	117	126	136	217	317	282	246	228	123	45	34	0	0	0	0	0	1921
13	0	0	0	0	0	0	11	50	126	285	300	336	353	300	300	248	104	34	13	0	0	0	0	0	2461
14	0	0	0	0	0	0	10	43	67	79	87	94	100	87	82	74	70	53	11	0	0	0	0	0	856
15	0	0	0	0	0	0	13	63	152	224	97	95	99	88	85	127	134	48	10	0	0	0	0	0	1236
16	0	0	0	0	0	0	8	55	134	182	157	141	204	324	256	210	104	46	7	0	0	0	0	0	1827
17	0	0	0	0	0	0	15	52	94	122	159	149	205	278	270	197	166	67	13	0	0	0	0	0	1786
18	0	0	0	0	0	0	17	84	136	205	284	178	322	371	357	295	162	49	8	0	0	0	0	0	2468
19	0	0	0	0	0	0	18	80	157	255	383	385	352	461	410	238	180	96	12	0	0	0	0	0	3027
20	0	0	0	0	0	0	14	67	89	156	211	262	214	242	211	136	116	60	18	0	0	0	0	0	1797
21	0	0	0	0	0	0	1	3	14	73	137	310	333	115	299	191	120	81	16	0	0	0	0	0	1692
22	0	0	0	0	0	0	15	61	107	137	187	209	224	267	206	146	72	43	12	0	0	0	0	0	1686
23	0	0	0	0	0	0	14	43	61	114	193	202	301	281	250	131	73	40	12	0	0	0	0	0	1713
24	0	0	0	0	0	0	17	47	67	78	82	90	90	83	77	72	58	40	13	0	0	0	0	0	814
25	0	0	0	0	0	0	16	72	142	310	347	325	292	313	341	212	106	67	19	0	0	0	0	0	2563
26	0	0	0	0	0	0	21	70	107	133	244	193	208	265	347	273	65	33	7	0	0	0	0	0	1965
27	0	0	0	0	0	0	13	89	181	321	118	106	106	101	89	75	51	17	0	0	0	0	0	0	1373
28	0	0	0	0	0	0	13	94	142	118	239	402	459	365	326	303	150	74	15	0	0	0	0	0	2701
29	0	0	0	0	0	0	16	79	175	280	151	207	136	128	116	111	82	54	15	0	0	0	0	0	1550
30	0	0	0	0	0	0	27	100	206	180	228	411	508	491	441	293	199	90	14	0	0	0	0	0	3188
31	0	0	0	0	0	0	13	64	168	313	364	333	384	232	322	230	164	37	1	0	0	0	0	0	2627
Avg	0	0	0	0	0	0	11	52	112	169	187	226	237	220	222	178	117	54	12	0	0	0	0	0	1782
S/D	0	0	0	0	0	0	7	26	58	94	95	127	141	122	128	86	53	19	6	0	0	0	0	0	761
S/A	0	0	0	0	0	0	0.62	0.49	0.52	0.55	0.51	0.56	0.6	0.55	0.58	0.48	0.45	0.36	0.51	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	2	11	21	37	44	35	65	66	68	51	21	1	0	0	0	0	0	460
Max	0	0	0	0	0	0	27	100	268	382	383	543	626	491	516	411	270	96	34	0	0	0	0	0	3188
n	0	0	0	0	0	0	170	364	366	369	360	365	362	360	364	365	370	372	181	0	0	0	0	0	4369

Daylight Data Recovery: 0.0% missing; 1.8% exceed the 15% QC threshold -- 4447 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.