

December 2005

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	0	13	99	286	485	535	534	453	322	165	34	0	0	0	0	0	0	0	2927
2	0	0	0	0	0	0	2	68	217	376	486	530	524	441	312	157	31	0	0	0	0	0	0	0	3143
3	0	0	0	0	0	0	2	24	100	169	223	141	333	231	216	151	34	0	0	0	0	0	0	0	1625
4	0	0	0	0	0	0	1	15	51	92	87	131	99	69	49	23 ?	4	0	0	0	0	0	0	0	622
5	0	0	0	0	0	0	0	9	73	325	311	474	423	433	326	160	32	0	0	0	0	0	0	0	2565
6	0	0	0	0	0	0	1	112	303 ?	400	483	536	454	320	149	22	0	0	0	0	0	0	0	0	3305
7	0	0	0	0	0	0	2	55	177	287	343	328	243	147	80	31	12	0	0	0	0	0	0	0	1706
8	0	0	0	0	0	0	0	4	?	50 ?	75 ?	142 ?	67 ?	55 ?	68 ?	52 ?	6	0	0	0	0	0	0	0	517 ?
9	0	0	0	0	0	0	4	45	154	302	473	529	529	460	328	162	34	0	0	0	0	0	0	0	3021
10	0	0	0	0	0	0	0	17	146	355	383	425	513	444	318	159	34	0	0	0	0	0	0	0	2794
11	0	0	0	0	0	0	1	49	198	360	470	522	516	448	320	159	33	0	0	0	0	0	0	0	3076
12	0	0	0	0	0	0	0	30	187	350	460	514	509	442	317	156	28	0	0	0	0	0	0	0	2993
13	0	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	0	*
15	0	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	0	0	*
17	0	0	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	0	0	*
19	0	0	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	0	0	*
21	0	0	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	0	*
23	0	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	0	*
25	0	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	0	*
27	0	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	0	*
29	0	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	0	*
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	0	37	155	279	357	401	401	340	248	127	25	0	0	0	0	0	0	0	2358 *
S D	0	0	0	0	0	0	1	31	73	114	153	169	175	164	114	56	11	0	0	0	0	0	0	0	990
S/A	0	0	0	0	0	0	1.97	0.85	0.47	0.41	0.43	0.42	0.44	0.48	0.46	0.44	0.45	0	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	4	51	50	75	131	67	55	49	23	4	0	0	0	0	0	0	0	517
Max	0	0	0	0	0	0	4	112	303	400	486	536	534	460	328	165	34	0	0	0	0	0	0	0	3305
n	0	0	0	0	0	0	22	143	128	135	136	140	136	134	134	134	120	0	0	0	0	0	0	0	1362

Daylight Data Recovery: 61.1% missing; 2.1% exceed the 15% QC threshold -- 3694 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18036F3 Calibration Factor: 7.430 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.

December 2005

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 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	0	0	*	
2	0	0	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	0	0	*	
4	0	0	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	0	0	*	
6	0	0	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	0	0	*	
8	0	0	0	0	0	0	*	*	205 *	*	?	?	?	81 ?	111 ?	?	?	0	0	0	0	0	0	0	0	?	
9	0	0	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	0	0	*	
11	0	0	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	0	0	*	
13	0	0	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	0	0	*	
15	0	0	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	0	0	0	*	
17	0	0	0	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	0	0	0	*	
19	0	0	0	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	0	0	0	*	
21	0	0	0	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	0	0	*	
23	0	0	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	0	0	*	
25	0	0	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	0	0	*	
27	0	0	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	0	0	*	
29	0	0	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	0	0	*	
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	0	N/A	205	N/A	N/A	N/A	N/A	81	111	N/A	N/A	0	0	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	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	0
Min	0	0	0	0	0	0	0	N/A	205	N/A	N/A	N/A	N/A	81	111	N/A	N/A	0	0	0	0	0	0	0	0	N/A	0
Max	0	0	0	0	0	0	0	N/A	205	N/A	N/A	N/A	N/A	81	111	N/A	N/A	0	0	0	0	0	0	0	0	N/A	0
n	0	0	0	0	0	0	0	0	2	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	

Daylight Data Recovery: 97.4% missing; 2.3% exceed the 15% QC threshold -- 3694 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 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.

December 2005

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	0	12	94	289	?	?	?	?	?	154 ?	39	0	0	0	0	0	0	0	590 ?
2	0	0	0	0	0	0	2	72	190 ?	?	?	?	?	?	?	155	35	0	0	0	0	0	0	0	454 ?
3	0	0	0	0	0	0	2	23	95	161	214	135	329	230	209	154	36	0	0	0	0	0	0	0	1589
4	0	0	0	0	0	0	1	14	48	87	82	124	93	59	45	17	4	0	0	0	0	0	0	0	574
5	0	0	0	0	0	0	0	9	68	229 ?	301	425 ?	334 ?	351 ?	?	155	36	0	0	0	0	0	0	0	1908 ?
6	0	0	0	0	0	0	1	?	?	?	?	?	?	?	?	161	24	0	0	0	0	0	0	0	186 ?
7	0	0	0	0	0	0	2	54	183	276	346	327	231	139	76	29	12	0	0	0	0	0	0	0	1675
8	0	0	0	0	0	0	0	3	?	36 ?	71	123	64	58	59	48	6	0	0	0	0	0	0	0	467 ?
9	0	0	0	0	0	0	4	44	152	275 ?	?	?	?	?	?	154 ?	40	0	0	0	0	0	0	0	668 ?
10	0	0	0	0	0	0	0	16	93 ?	?	323 ?	329 ?	?	?	?	163	38	0	0	0	0	0	0	0	963 ?
11	0	0	0	0	0	0	0	54	173 ?	?	?	?	?	?	?	157	37	0	0	0	0	0	0	0	421 ?
12	0	0	0	0	0	0	0	29	175 ?	?	?	?	?	?	?	155	31	0	0	0	0	0	0	0	390 ?
13	0	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	0	*
15	0	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	0	0	*
17	0	0	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	0	0	*
19	0	0	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	0	0	*
21	0	0	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	0	*
23	0	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	0	*
25	0	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	0	*
27	0	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	0	*
29	0	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	0	*
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	0	30	127	193	223	244	210	168	97	125	28	0	0	0	0	0	0	0	824 *?
S D	0	0	0	0	0	0	1	23	53	101	122	133	128	125	76	57	13	0	0	0	0	0	0	0	578
S/A	0	0	0	0	0	0	2.11	0.76	0.42	0.52	0.55	0.54	0.61	0.74	0.78	0.46	0.48	0	0	0	0	0	0	0	0.7
Min	0	0	0	0	0	0	0	3	48	36	71	123	64	58	45	17	4	0	0	0	0	0	0	0	186
Max	0	0	0	0	0	0	4	72	190	289	346	425	334	351	209	163	40	0	0	0	0	0	0	0	1908
n	0	0	0	0	0	0	22	131	102	68	67	61	54	50	46	127	120	0	0	0	0	0	0	0	851

Daylight Data Recovery: 61.1% missing; 15.9% exceed the 15% QC threshold -- 3694 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18039F3 Calibration Factor: 7.470 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.