

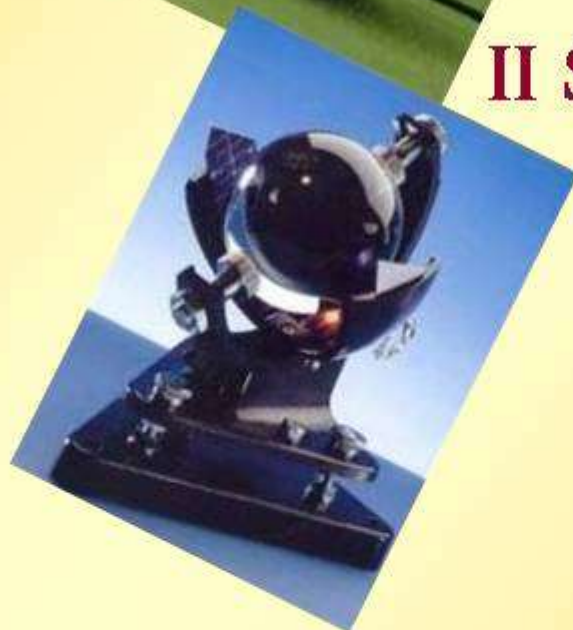


DIRECCIÓN METEOROLÓGICA DE CHILE



INFORME SOLARIMÉTRICO

II SEMESTRE 2006



CLIMATOLOGÍA Y METEOROLOGÍA APLICADA

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY

Year: 2006

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	17.13	14.68	7.52
2	.	17.37	15.33	9.74
3	.	17.09	13.82	8.66
4	.	17.44	14.72	9.58
5	.	17.24	15.06	7.21
6	.	16.87	12.43	5.03
7	.	17.28	8.44	4.19
8	.	17.21	12.39	2.99
9	.	17.51	13.01	3.14
10	.	17.63	15.24	2.09
11	.	17.75	14.62	0.53
12	.	17.60	14.28	0.88
13	.	17.81	15.30	2.70
14	.	17.91	15.36	3.87
15	.	17.59	15.08	8.04
16	.	17.68	14.73	7.21
17	.	17.81	15.26	9.79
18	.	18.31	13.91	10.39
19	.	18.41	11.65	.
20	.	18.31	13.04	.
21	.	18.00	16.03	.
22	.	17.90	15.92	.
23	.	18.34	16.60	.
24	.	18.61	11.75	.
25	.	17.04	11.30	.
26	.	14.45	11.10	.
27	.	18.05	16.15	.
28	.	18.65	14.19	.
29	.	18.85	13.34	.
30	.	19.22	17.16	.
31	.	19.07	17.51	.
TT Monthly Totals	.	550.14	439.38	.
 Daily Means	.	17.75	14.17	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY

Year: 2006

Country: CHILE

Daily Totals				
Latitude	34°58' S	36°46' S	41°25' S	45°35' S
Longitude	71°14' W	73°03' W	73°05' W	72°07' W
Elevation	228 m	12 m	85 m	310 m
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	4.60	2.69	0.73	1.53
2	6.44	1.93	4.47	3.10
3	4.24	5.97	1.74	2.91
4	4.75	5.92	4.82	4.06
5	7.97	1.60	4.69	3.18
6	0.97	1.90	1.37	1.92
7	3.52	4.26	3.15	2.47
8	6.69	4.66	4.75	3.49
9	2.07	1.42	2.71	2.89
10	1.19	0.85	1.39	1.22
11	0.78	0.41	2.96	5.90
12	3.44	6.94	3.01	4.35
13	9.95	8.19	6.82	5.46
14	3.48	3.80	7.79	6.99
15	6.53	2.76	0.97	2.12
16	3.89	4.76	2.35	3.26
17	10.14	3.43	5.79	0.75
18	9.94	7.68	3.44	5.01
19	9.06	8.22	1.48	1.15
20	9.27	5.31	3.65	1.71
21	1.67	1.74	2.14	1.29
22	7.75	5.97	6.90	4.79
23	10.50	4.97	0.96	1.25
24	6.28	3.85	0.94	3.40
25	0.00	5.20	4.03	0.53
26	2.86	7.22	3.09	2.42
27	10.55	5.15	5.88	3.23
28	9.34	8.64	8.05	5.58
29	6.99	9.13	9.68	7.44
30	12.00	9.47	10.02	8.39
31	10.69	8.68	10.01	8.42
TT Monthly Totals	187.53	152.71	129.78	110.24
 Daily Means	6.05	4.93	4.19	3.56
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY

Year: 2006

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	2.59			
2	0.44			
3	0.36			
4	2.12			
5	2.41			
6	0.82			
7	0.45			
8	0.94			
9	2.18			
10	1.24			
11	2.59			
12	2.37			
13	2.80			
14	2.24			
15	1.91			
16	1.18			
17	0.28			
18	0.77			
19	1.76			
20	1.51			
21	1.70			
22	2.92			
23	1.85			
24	3.64			
25	3.45			
26	4.10			
27	2.82			
28	2.59			
29	3.93			
30	3.85			
31	4.21			
TT Monthly Totals	66.05			
 Daily Means	2.13			
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	19.29	16.40	4.03
2	.	19.54	15.52	5.89
3	.	19.79	15.15	4.62
4	.	19.67	16.75	8.31
5	.	19.69	16.90	4.61
6	.	20.01	7.53	2.39
7	.	20.07	17.88	12.55
8	.	20.13	15.01	3.40
9	.	20.37	18.89	9.58
10	.	20.80	18.35	2.68
11	.	21.03	17.60	6.51
12	.	21.15	18.55	5.53
13	.	20.08	16.10	4.56
14	.	20.69	14.58	6.47
15	.	17.86	5.26	11.72
16	.	21.55	21.31	11.29
17	.	21.77	20.35	13.42
18	.	21.04	20.24	13.84
19	.	21.33	19.76	14.09
20	.	22.15	18.89	14.73
21	.	21.94	18.23	14.37
22	.	22.45	16.15	14.78
23	.	22.28	16.04	9.71
24	.	17.81	13.94	7.12
25	.	21.84	21.69	9.51
26	.	22.24	20.89	11.16
27	.	22.56	20.56	13.59
28	.	22.86	21.63	15.22
29	.	18.91	11.70	2.15
30	.	21.72	18.15	4.47
31	.	22.67	14.38	10.69
TT Monthly Totals	.	645.27	524.40	273.01
 Daily Means	.	20.82	16.92	8.81
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	34°58' S	36°46' S	41°25' S	45°35' S
Longitude	71°14' W	73°03' W	73°05' W	72°07' W
Elevation	228 m	12 m	85 m	310 m
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	4.20	4.36	6.86	3.50
2	6.37	2.67	1.98	3.16
3	4.61	1.68	3.25	3.34
4	3.76	6.34	6.25	6.49
5	3.22	5.54	7.82	7.40
6	0.85	2.02	4.14	2.15
7	10.70	8.22	4.31	5.80
8	1.65	2.36	1.68	2.11
9	11.27	8.50	7.18	4.18
10	1.68	1.20	2.63	2.26
11	3.44	6.99	3.96	4.87
12	2.46	2.14	5.64	6.92
13	3.61	6.38	1.97	1.90
14	9.93	7.98	6.53	8.81
15	6.31	11.37	10.39	10.01
16	12.40	6.03	6.53	10.52
17	10.37	11.25	9.73	3.77
18	11.80	10.12	4.28	4.01
19	13.82	10.99	6.84	7.88
20	11.10	11.52	10.73	3.74
21	14.63	11.82	4.41	8.95
22	14.57	11.82	8.09	10.18
23	6.27	7.37	10.99	9.13
24	4.97	8.87	7.65	8.76
25	6.35	4.09	8.03	9.48
26	3.49	12.32	10.11	8.69
27	12.30	12.46	9.01	10.80
28	11.86	12.86	9.57	10.33
29	2.15	5.23	12.74	12.03
30	3.40	2.29	3.37	6.64
31	1.40	3.60	9.62	10.21
TT Monthly Totals	214.94	220.37	206.30	208.03
 Daily Means	6.93	7.11	6.65	6.71
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	5.87			
2	5.25			
3	0.43			
4	0.12			
5	4.43			
6	1.97			
7	0.96			
8	5.25			
9	1.14			
10	3.19			
11	3.93			
12	5.29			
13	5.14			
14	6.72			
15	4.51			
16	3.67			
17	6.77			
18	6.18			
19	5.70			
20	1.86			
21	4.10			
22	5.09			
23	4.70			
24	7.79			
25	5.74			
26	7.17			
27	5.50			
28	6.67			
29	8.17			
30	6.75			
31	4.68			
TT Monthly Totals	144.75			
 Daily Means	4.67			
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	22°29' S	23°26' S	33°27' S	
Longitude	70°19'W	68°54' W	70°26' W	70°42' W	
Elevation	58 m	2270 m	135 m	520 m	
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL	
Date					
1	.	23.07	21.56	15.47	
2	.	23.68	18.93	10.42	
3	.	23.75	21.63	16.34	
4	.	24.18	23.13	15.33	
5	.	24.28	22.60	10.06	
6	.	24.36	21.70	4.00	
7	.	24.42	22.19	6.67	
8	.	24.04	23.20	16.99	
9	.	24.66	21.74	15.72	
10	.	24.57	12.94	6.16	
11	.	24.58	23.26	2.55	
12	.	24.76	22.57	14.35	
13	.	24.83	15.00	15.86	
14	.	24.66	10.03	14.60	
15	.	24.07	22.61	18.54	
16	.	24.57	25.15	18.85	
17	.	24.96	24.44	20.13	
18	.	21.49	19.99	2.45	
19	.	24.71	26.07	14.64	
20	.	25.68	24.31	19.15	
21	.	25.70	22.63	2.75	
22	.	25.75	24.30	11.30	
23	.	26.16	21.06	19.00	
24	.	26.30	25.26	20.75	
25	.	26.11	23.50	19.15	
26	.	26.17	23.67	4.15	
27	.	23.19	23.93	20.50	
28	.	24.24	24.13	20.79	
29	.	25.59	19.32	20.37	
30	.	28.03	19.35	14.41	
31					
TT Monthly Totals	.	742.57	650.20	411.41	
Daily Means	.	24.75	21.67	13.71	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	34°58' S	36°46' S	41°25' S	45°35' S	
Longitude	71°14' W	73°03' W	73°05' W	72°07' W	
Elevation	228 m	12 m	85 m	310 m	
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE	
Date					
1	14.62	13.26	10.29	9.81	
2	10.05	12.89	9.50	8.40	
3	14.77	13.92	15.12	9.94	
4	13.14	11.87	15.24	13.41	
5	11.46	11.41	12.05	11.27	
6	4.41	2.39	3.19	6.00	
7	14.01	11.01	5.43	9.58	
8	12.99	12.30	7.39	7.22	
9	11.97	2.89	5.89	7.87	
10	3.85	4.29	8.59	11.73	
11	11.81	11.19	8.29	7.14	
12	15.27	15.25	9.45	8.49	
13	16.54	15.04	5.69	14.39	
14	15.80	14.87	8.68	14.45	
15	12.40	15.61	10.65	13.32	
16	12.42	15.78	7.42	9.93	
17	14.90	15.93	11.54	16.24	
18	3.69	15.67	16.19	7.21	
19	1.88	14.84	9.70	8.84	
20	14.19	10.47	4.01	4.85	
21	2.93	8.13	3.86	7.63	
22	14.32	11.76	10.88	11.40	
23	16.99	15.35	8.36	6.89	
24	14.83	15.02	12.99	9.81	
25	16.27	9.67	4.13	4.27	
26	16.33	14.17	10.06	9.20	
27	17.13	17.25	19.76	17.47	
28	20.49	14.18	8.82	13.35	
29	12.96	9.91	4.68	9.65	
30	5.63	5.58	4.09	16.81	
31					
TT Monthly Totals	368.04	361.88	271.96	306.57	
Daily Means	12.27	12.06	9.07	10.22	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE
Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	7.34			
2	8.83			
3	9.26			
4	8.60			
5	7.76			
6	5.24			
7	8.60			
8	3.29			
9	8.68			
10	10.01			
11	8.51			
12	7.12			
13	10.65			
14	5.75			
15	12.08			
16	11.61			
17	3.86			
18	7.60			
19	4.66			
20	7.70			
21	2.96			
22	4.52			
23	7.25			
24	4.34			
25	1.70			
26	13.12			
27	5.20			
28	8.80			
29	12.74			
30	9.58			
31				
TT Monthly Totals	227.35			
Daily Means	7.58			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER

Year: 2006

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	28.09	21.27	17.14
2	.	28.93	21.25	9.50
3	.	29.01	14.84	5.29
4	.	29.21	25.70	16.25
5	.	29.81	27.77	20.73
6	.	29.75	23.84	20.49
7	.	29.98	26.27	23.35
8	.	30.09	25.34	22.49
9	.	30.20	26.42	22.21
10	.	29.38	27.57	22.61
11	.	29.99	23.76	19.31
12	.	29.94	24.79	4.49
13	.	30.02	26.00	1.32
14	.	30.22	28.68	24.87
15	.	30.48	24.78	24.57
16	.	30.45	26.05	17.10
17	.	28.35	24.61	14.86
18	.	30.25	23.46	10.65
19	.	30.68	28.50	23.28
20	.	28.81	27.13	24.40
21	.	28.38	26.53	24.57
22	.	29.41	27.52	24.96
23	.	31.00	28.98	24.98
24	.	30.83	26.80	25.73
25	.	30.88	27.85	25.50
26	.	26.02	27.41	11.56
27	.	30.84	28.51	10.20
28	.	31.33	21.33	15.82
29	.	31.48	24.87	27.01
30	.	31.94	25.01	27.36
31	.	32.00	28.27	27.29
TT Monthly Totals	.	927.74	791.12	589.89
 Daily Means	.	29.93	25.52	19.03
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER

Year: 2006

Country: CHILE

Daily Totals				
Latitude	34°58' S	36°46' S	41°25' S	45°35' S
Longitude	71°14' W	73°03' W	73°05' W	72°07' W
Elevation	228 m	12 m	85 m	310 m
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	11.36	16.71	11.74	13.60
2	5.20	9.71	14.87	16.25
3	5.40	4.94	4.84	5.61
4	15.78	17.13	15.91	16.97
5	13.88	13.63	8.83	10.39
6	21.25	8.31	11.07	7.08
7	21.95	18.79	12.14	9.69
8	22.12	17.21	11.72	15.80
9	21.09	17.25	17.78	16.98
10	15.20	15.24	11.83	20.02
11	6.26	3.72	6.73	9.92
12	4.72	7.11	21.16	14.33
13	2.61	13.47	9.43	10.77
14	18.11	12.08	13.39	17.77
15	23.72	19.95	16.08	13.68
16	15.60	17.99	21.91	21.78
17	13.60	15.40	21.71	21.79
18	10.92	17.69	12.14	13.65
19	21.09	19.30	5.69	11.88
20	23.14	20.62	22.41	14.23
21	24.44	20.86	22.77	12.57
22	24.62	20.92	3.81	10.93
23	23.15	20.30	5.07	17.06
24	20.59	13.33	10.39	21.96
25	25.14	21.79	21.72	17.16
26	6.26	12.20	23.13	24.46
27	9.97	11.22	7.42	14.36
28	20.48	13.41	18.38	11.76
29	24.56	18.44	11.45	14.90
30	22.95	21.55	15.53	15.08
31	25.09	21.79	15.47	10.67
TT Monthly Totals	520.27	482.06	426.54	453.11
 Daily Means	16.78	15.55	13.76	14.62
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER		Year: 2006		Country: CHILE
Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	14.28			
2	12.63			
3	15.86			
4	6.01			
5	15.12			
6	9.29			
7	15.16			
8	14.29			
9	14.72			
10	17.04			
11	5.32			
12	6.57			
13	9.77			
14	19.18			
15	18.25			
16	16.54			
17	19.21			
18	18.61			
19	14.19			
20	7.98			
21	13.73			
22	19.35			
23	15.05			
24	14.41			
25	15.21			
26	7.00			
27	7.35			
28	15.94			
29	10.49			
30	19.64			
31	19.83			
TT Monthly Totals	428.04			
Daily Means	13.81			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	22°29' S	23°26' S	33°27' S	
Longitude	70°19'W	68°54' W	70°26' W	70°42' W	
Elevation	58 m	2270 m	135 m	520 m	
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL	
Date					
1	.	32.03	30.11	13.12	
2	.	31.77	28.86	10.82	
3	.	31.85	30.16	24.33	
4	.	27.19	24.39	26.43	
5	.	32.00	29.82	17.72	
6	.	32.49	27.59	27.86	
7	.	30.31	29.08	27.65	
8	.	31.55	29.85	.	
9	.	32.13	30.56	.	
10	.	32.05	27.59	.	
11	.	32.27	30.64	.	
12	.	31.83	26.03	.	
13	.	32.11	27.53	.	
14	.	32.01	28.82	.	
15	.	32.17	26.82	.	
16	.	32.47	29.76	.	
17	.	31.41	28.51	.	
18	.	32.48	26.76	.	
19	.	32.78	29.52	.	
20	.	32.47	31.36	.	
21	.	32.25	29.89	.	
22	.	31.58	26.74	.	
23	.	31.65	30.72	.	
24	.	32.23	27.18	.	
25	.	32.23	18.34	.	
26	.	31.83	30.58	.	
27	.	32.37	16.34	.	
28	.	32.92	24.76	.	
29	.	33.21	27.35	.	
30	.	33.01	29.47	.	
31					
TT Monthly Totals	.	958.63	835.15	.	
Daily Means	.	31.95	27.84	.	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	34°58' S	36°46' S	41°25' S	45°35' S	
Longitude	71°14' W	73°03' W	73°05' W	72°07' W	
Elevation	228 m	12 m	85 m	310 m	
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE	
Date					
1	9.25	16.70	12.39	6.43	
2	12.10	20.26	23.58	23.10	
3	13.87	22.25	25.37	23.43	
4	25.05	22.36	18.48	22.42	
5	5.71	10.73	9.65	19.57	
6	21.39	22.99	15.48	20.86	
7	25.93	22.57	27.73	26.27	
8	26.32	22.14	23.46	24.11	
9	23.57	22.40	25.95	22.40	
10	25.45	20.11	22.95	23.72	
11	7.48	11.57	15.14	26.77	
12	18.03	6.62	20.75	8.19	
13	20.98	17.75	11.37	15.94	
14	22.59	14.66	4.88	14.20	
15	22.48	16.32	13.70	19.94	
16	19.42	23.73	20.68	18.76	
17	14.08	20.97	26.17	27.38	
18	25.55	23.92	26.20	21.71	
19	26.19	23.92	28.36	12.02	
20	23.52	21.71	13.32	17.97	
21	25.18	23.91	14.96	24.73	
22	20.74	23.19	17.24	14.40	
23	23.18	23.52	20.46	23.98	
24	24.22	24.01	17.09	19.29	
25	24.66	24.07	27.35	27.99	
26	25.55	23.80	25.25	26.54	
27	24.93	23.52	17.26	12.53	
28	25.06	23.61	12.71	19.17	
29	25.15	24.04	23.92	19.60	
30	25.27	22.81	13.81	21.29	
31					
TT Monthly Totals	632.92	620.15	575.69	604.69	
Daily Means	21.10	20.67	19.19	20.16	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE
Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	20.77			
2	18.61			
3	15.76			
4	22.37			
5	21.04			
6	17.80			
7	20.49			
8	16.38			
9	24.12			
10	12.75			
11	12.97			
12	15.78			
13	19.48			
14	21.13			
15	18.89			
16	13.84			
17	16.57			
18	15.52			
19	24.24			
20	24.54			
21	21.72			
22	22.69			
23	22.87			
24	17.93			
25	13.14			
26	10.61			
27	23.17			
28	15.17			
29	21.80			
30	22.01			
31				
TT Monthly Totals	564.19			
Daily Means	18.81			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	22°29' S	23°26' S	33°27' S	
Longitude	70°19'W	68°54' W	70°26' W	70°42' W	
Elevation	58 m	2270 m	135 m	520 m	
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL	
Date					
1	.	30.66	30.10	.	
2	.	32.84	30.35	.	
3	.	33.10	27.65	.	
4	.	33.16	28.43	29.95	
5	.	32.96	25.75	29.72	
6	.	32.04	29.01	29.86	
7	.	32.68	26.38	27.25	
8	.	32.89	31.26	29.96	
9	.	32.63	31.50	29.96	
10	.	32.59	30.64	29.89	
11	.	32.68	30.99	29.95	
12	.	32.60	26.92	27.14	
13	.	33.00	30.20	22.99	
14	.	33.35	27.33	24.20	
15	.	32.18	31.01	28.54	
16	.	31.28	21.34	21.72	
17	.	31.04	30.17	29.73	
18	.	31.19	29.44	29.93	
19	.	31.80	30.15	29.66	
20	.	32.67	28.62	28.12	
21	.	32.91	31.34	29.84	
22	.	32.47	31.28	28.89	
23	.	32.67	28.84	13.79	
24	.	32.85	27.24	23.93	
25	.	32.99	30.00	30.74	
26	.	33.05	31.18	30.57	
27	.	32.86	29.29	30.28	
28	.	32.49	30.70	30.11	
29	.	32.72	31.71	29.84	
30	.	32.27	30.27	29.48	
31	.	31.82	26.98	30.13	
TT Monthly Totals	.	1006.45	906.05	.	
Daily Means	.	32.47	29.23	28.08	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	34°58' S	36°46' S	41°25' S	45°35' S	
Longitude	71°14' W	73°03' W	73°05' W	72°07' W	
Elevation	228 m	12 m	85 m	310 m	
Station	CURICO	CONCEPCION	PUERTO MONTT	COYHAIQUE	
Date					
1	9.24	12.78	12.04	26.23	
2	21.88	24.54	19.45	30.11	
3	24.88	24.39	19.48	20.52	
4	24.63	24.49	19.08	18.01	
5	24.82	24.24	18.09	15.41	
6	24.08	24.03	16.99	20.18	
7	24.87	22.31	18.12	15.56	
8	24.62	21.65	22.82	22.54	
9	24.09	23.72	10.68	12.67	
10	24.68	23.77	11.18	13.02	
11	24.61	21.66	16.71	16.65	
12	24.47	15.72	15.18	22.37	
13	21.85	9.12	11.05	19.70	
14	19.43	20.66	11.90	20.99	
15	20.74	12.43	14.11	8.73	
16	17.74	20.71	18.18	17.45	
17	21.42	20.27	6.89	8.69	
18	23.99	18.37	10.53	14.35	
19	23.92	18.74	19.57	18.56	
20	19.96	24.20	8.19	14.95	
21	24.52	15.34	9.90	14.41	
22	23.72	10.25	6.23	17.92	
23	6.68	3.11	12.71	18.16	
24	11.27	21.24	14.02	15.27	
25	25.35	25.25	15.53	19.29	
26	26.08	10.32	15.64	13.11	
27	22.84	24.69	21.40	21.18	
28	26.10	24.69	8.12	11.38	
29	26.80	24.23	15.09	19.14	
30	21.37	24.57	23.06	8.64	
31	25.62	24.04	19.86	8.24	
TT Monthly Totals	686.25	615.53	461.81	523.41	
Daily Means	22.14	19.86	14.90	16.88	
SS Monthly Totals					
Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DEPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE
Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	16.00			
2	20.26			
3	24.08			
4	14.95			
5	12.47			
6	13.48			
7	26.81			
8	11.85			
9	10.43			
10	29.20			
11	23.88			
12	24.52			
13	16.06			
14	18.86			
15	18.31			
16	17.84			
17	18.50			
18	19.30			
19	26.10			
20	7.21			
21	25.50			
22	17.90			
23	28.06			
24	21.85			
25	15.30			
26	24.52			
27	18.96			
28	25.81			
29	26.44			
30	12.18			
31	21.62			
TT Monthly Totals	608.26			
Daily Means	19.62			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	5.0	5.4	9.8	8.1	
2	1.5	0.6	9.8	9.1	
3	8.7	1.8	9.9	7.0	
4	8.9	9.6	9.9	9.0	
5	5.0	9.2	10.0	9.6	
6	4.9	5.3	9.7	6.1	
7	6.5	10.3	9.9	3.4	
8	1.9	7.1	9.9	5.8	
9	1.2	7.0	9.9	5.8	
10	5.6	4.6	9.9	9.0	
11	8.0	9.2	9.9	6.8	
12	8.2	5.8	9.9	6.5	
13	7.2	6.3	9.9	8.3	
14	6.3	5.0	10.0	8.5	
15	7.4	9.7	10.0	6.9	
16	5.4	8.2	10.0	6.8	
17	4.4	6.2	10.0	7.4	
18	4.8	1.8	10.1	5.5	
19	7.1	2.9	10.0	4.4	
20	3.9	4.3	10.1	5.8	
21	2.9	3.7	9.9	9.1	
22	4.0	7.1	10.0	9.2	
23	9.0	9.2	10.1	9.5	
24	2.2	1.7	10.2	4.9	
25	6.7	5.0	9.4	3.3	
26	5.5	2.9	6.3	3.4	
27	5.0	2.8	9.0	9.1	
28	2.4	3.6	10.4	5.6	
29	0.0	3.2	10.5	5.3	
30	3.9	6.5	10.4	8.4	
31	5.1	8.9	10.5	9.2	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	158.6	174.9	305.3	216.8	
Daily Means	5.1	5.6	9.8	7.0	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	27°10' S	29°57' S	33°23' S	33°27' S	
Longitude	109°26' W	71°22' W	70°47' W	70°42' W	
Elevation	47 m	25 m	474 m	520 m	
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL	
Date					
1	6.5	8.5	4.3	4.7	
2	2.7	9.2	8.7	7.6	
3	7.4	5.2	6.8	7.8	
4	7.4	1.2	8.6	7.9	
5	4.7	7.9	3.2	4.3	
6	4.7	0.7	1.9	1.8	
7	9.1	3.9	2.7	1.2	
8	4.1	8.3	0.9	0.0	
9	6.8	7.3	0.2	0.2	
10	0.7	7.5	0.0	0.0	
11	0.1	0.1	0.0	0.0	
12	0.0	0.0	0.0	0.0	
13	8.0	7.8	0.0	0.0	
14	8.1	3.3	2.0	1.2	
15	5.3	3.9	4.9	5.0	
16	0.8	6.0	3.5	4.2	
17	6.3	6.0	8.8	7.7	
18	8.0	5.0	9.0	7.8	
19	6.1	3.4	8.9	7.9	
20	6.7	1.4	8.2	7.5	
21	5.4	0.4	0.0	0.0	
22	7.3	7.4	0.0	0.0	
23	4.2	0.7	8.6	7.5	
24	4.6	2.4	0.1	0.0	
25	5.5	0.6	0.0	0.0	
26	4.2	0.0	0.0	0.0	
27	4.5	9.8	6.1	8.2	
28	3.7	9.5	8.8	8.0	
29	5.4	7.6	1.8	1.7	
30	3.8	7.2	8.0	7.8	
31	5.8	6.9	7.5	6.9	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	157.9	149.1	123.5	116.9	
Daily Means	5.1	4.8	4.0	3.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	33°37' S	33°39' S	34°58' S	36°36' S	
Longitude	78°50' W	71°36' W	71°12' W	72°26' W	
Elevation	30 m	74 m	225 m	124 m	
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN	
Date					
1	0.0	2.7	0.0	0.0	
2	6.0	8.2	1.9	0.2	
3	4.2	7.3	2.4	0.2	
4	6.3	9.1	3.0	6.6	
5	4.1	1.0	6.5	0.0	
6	3.2	0.2	0.0	0.0	
7	3.2	0.3	1.6	3.7	
8	4.4	7.0	5.2	1.4	
9	0.0	0.0	0.0	0.1	
10	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	
12	4.0	0.0	0.3	5.7	
13	4.4	2.6	8.1	8.8	
14	4.5	4.1	2.0	1.0	
15	4.2	0.3	3.8	0.0	
16	3.2	4.1	0.0	4.4	
17	4.9	9.2	8.0	2.3	
18	6.1	9.7	8.7	6.7	
19	2.0	7.3	6.2	8.9	
20	4.9	0.3	6.8	0.0	
21	0.2	0.0	0.0	0.0	
22	4.9	0.0	5.0	4.9	
23	4.4	9.3	8.5	2.5	
24	1.1	1.6	2.8	0.1	
25	5.1	0.9	0.1	0.2	
26	5.7	0.0	0.0	0.2	
27	5.1	9.4	8.2	3.0	
28	4.3	9.7	6.8	6.5	
29	2.0	6.7	3.5	8.3	
30	0.3	8.9	8.0	8.2	
31	3.2	9.2	7.9	7.1	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	105.9	129.1	115.3	91.0	
Daily Means	3.4	4.2	3.7	2.9	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY

Year: 2006

Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	0.3	0.0	0.0	0.0
2	0.0	5.0	0.5	1.3
3	5.1	0.0	0.0	0.0
4	5.9	1.9	0.0	1.3
5	0.0	4.2	4.3	0.9
6	0.1	1.4	0.0	0.0
7	3.1	3.2	2.7	0.3
8	3.2	2.7	3.1	3.2
9	0.0	4.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.8
12	7.6	1.3	1.8	0.2
13	8.6	5.4	3.1	5.1
14	1.8	2.0	2.2	4.4
15	0.0	0.0	0.0	0.0
16	2.1	3.4	0.3	0.0
17	2.2	0.9	0.3	3.8
18	7.4	4.6	3.4	2.6
19	8.5	4.6	0.0	0.1
20	4.4	0.0	0.0	0.3
21	0.0	5.3	3.3	0.3
22	6.3	5.3	5.7	4.3
23	1.6	0.0	0.0	0.0
24	1.3	0.1	0.0	0.0
25	3.2	1.2	5.6	3.1
26	6.1	0.2	4.9	1.0
27	3.8	0.2	0.5	3.2
28	8.7	7.6	5.5	.
29	9.0	7.6	7.2	7.5
30	8.9	7.7	6.7	7.2
31	8.2	0.0	5.6	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	117.4	79.8	66.7	.
Daily Means	3.8	2.6	2.2	1.8
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: JULY

Year: 2006

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	0.0	4.2		
2	1.6	0.0		
3	2.3	3.1		
4	3.7	1.5		
5	0.7	4.5		
6	0.0	0.0		
7	0.1	0.0		
8	2.1	0.0		
9	1.2	3.3		
10	0.0	0.0		
11	4.6	4.8		
12	2.9	4.2		
13	6.0	6.0		
14	5.9	4.5		
15	0.0	0.6		
16	1.1	0.0		
17	0.0	0.0		
18	3.3	0.0		
19	0.0	0.0		
20	0.0	0.2		
21	0.0	1.0		
22	3.5	4.5		
23	0.0	1.5		
24	0.0	7.4		
25	0.0	5.5		
26	0.0	1.7		
27	0.0	4.4		
28	2.9	2.1		
29	2.4	8.0		
30	2.9	7.0		
31	6.0	.		
TT Monthly Totals				
Daily Means				
SS Monthly Totals	53.2	.		
Daily Means	1.7	2.7		
Types of	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL		
	STOKES	STOKES		

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	4.2	2.5	10.6	6.9	
2	3.9	8.0	10.6	7.5	
3	1.7	5.9	10.6	5.5	
4	1.5	5.0	10.6	6.4	
5	4.7	2.8	10.6	6.5	
6	3.7	0.0	10.7	0.0	
7	9.1	9.4	10.6	7.5	
8	2.4	4.6	10.7	4.1	
9	2.6	9.8	10.7	7.6	
10	6.3	0.0	10.8	8.4	
11	5.8	7.3	10.8	7.0	
12	0.0	6.6	10.8	8.0	
13	3.2	2.3	10.7	4.9	
14	3.4	3.3	10.2	3.6	
15	0.0	0.1	9.1	0.0	
16	1.1	6.7	11.0	9.9	
17	0.0	5.8	11.0	8.6	
18	4.8	7.2	10.9	8.3	
19	6.4	9.9	10.9	7.4	
20	7.0	8.2	11.1	6.5	
21	4.3	9.0	10.8	5.8	
22	3.0	7.4	10.6	5.7	
23	0.0	0.0	11.0	4.1	
24	2.7	5.6	11.0	3.8	
25	6.6	10.1	11.3	9.7	
26	3.0	4.9	11.1	7.6	
27	0.0	3.2	11.0	6.8	
28	0.3	2.2	11.0	8.5	
29	3.5	5.8	6.6	1.6	
30	7.5	8.3	10.3	0.9	
31	3.1	0.0	11.0	3.0	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	105.8	161.9	328.7	182.1	
Daily Means	3.4	5.2	10.6	5.9	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	8.3	6.4	0.0	0.0
2	7.9	5.0	0.2	0.4
3	8.7	4.7	0.3	0.1
4	6.6	3.5	3.2	2.9
5	8.9	2.3	1.1	1.7
6	9.4	2.4	0.0	0.0
7	10.1	9.8	8.8	7.9
8	9.1	5.7	0.6	0.1
9	7.3	9.4	6.0	5.5
10	4.4	9.5	0.0	0.0
11	2.6	10.1	2.6	1.2
12	6.1	9.9	0.9	0.5
13	7.4	6.4	1.2	0.9
14	7.2	8.8	2.0	2.3
15	7.4	0.4	7.4	6.6
16	6.2	10.1	6.2	6.3
17	1.7	10.1	9.7	8.4
18	5.9	4.3	10.0	8.4
19	9.8	8.0	10.0	8.4
20	9.8	3.4	10.0	8.4
21	6.9	0.0	10.2	8.4
22	10.2	0.0	9.7	8.4
23	6.2	1.4	3.7	4.9
24	3.9	2.4	0.7	2.1
25	0.0	4.6	3.0	3.8
26	8.0	9.9	4.7	5.2
27	8.6	7.3	8.4	7.3
28	5.6	0.0	9.4	8.4
29	3.6	0.0	0.0	0.0
30	10.8	1.0	2.1	1.9
31	1.3	9.1	3.8	3.7
TT Monthly Totals				
Daily Means				
SS Monthly Totals	209.9	165.9	135.9	124.1
Daily Means	6.8	5.4	4.4	4.0
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON	SANTO	CURICO	CHILLAN
Date	CRUSOE	DOMINGO		
1	0.0	1.6	0.0	0.9
2	3.6	3.8	1.5	0.0
3	2.5	1.6	0.0	0.0
4	5.4	1.9	0.8	3.6
5	0.7	0.0	0.0	1.6
6	6.2	0.0	0.0	0.0
7	1.2	9.8	8.4	5.2
8	6.0	0.3	0.0	6.1
9	6.5	7.7	8.8	0.0
10	0.3	0.3	0.0	0.0
11	5.1	2.9	0.0	0.7
12	1.5	2.9	0.0	0.0
13	6.0	0.2	0.8	4.0
14	4.7	8.5	4.4	6.8
15	3.8	10.1	3.6	8.9
16	3.3	10.5	9.1	2.6
17	2.6	10.6	5.7	8.8
18	8.1	10.1	6.4	9.3
19	8.4	10.6	9.1	9.5
20	8.5	10.5	6.6	9.8
21	7.1	0.0	9.7	9.9
22	8.3	0.0	9.7	9.7
23	4.5	0.0	2.1	7.7
24	7.1	0.0	0.2	0.0
25	9.1	2.4	0.6	0.0
26	3.5	8.2	0.0	7.0
27	2.5	9.9	6.3	9.9
28	8.6	9.5	6.2	9.6
29	7.7	0.0	0.0	0.0
30	2.9	0.7	0.0	0.0
31	6.0	2.0	0.0	0.0
TT Monthly Totals				
Daily Means				
SS Monthly Totals	151.7	136.6	100.0	131.6
Daily Means	4.9	4.4	3.2	4.2
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	3.1	3.3	0.4	3.9
2	0.4	1.5	0.0	0.2
3	0.0	0.0	0.0	0.1
4	4.4	5.9	7.1	4.6
5	2.0	3.4	3.1	5.7
6	1.3	1.4	2.1	2.5
7	5.8	2.1	4.6	1.9
8	1.6	0.0	0.0	0.0
9	7.1	4.7	5.8	5.3
10	0.0	0.0	0.0	0.2
11	3.3	1.3	0.0	1.2
12	0.0	0.0	0.0	1.7
13	3.1	1.0	0.7	0.1
14	5.0	5.0	7.9	3.8
15	0.0	6.2	5.1	6.0
16	0.0	0.0	0.0	1.5
17	9.2	6.8	2.6	5.6
18	9.5	5.5	3.2	1.1
19	0.0	5.5	5.4	3.2
20	9.9	7.5	6.1	6.6
21	0.0	9.4	9.2	0.2
22	0.0	7.5	5.1	3.7
23	2.7	6.6	5.9	5.9
24	4.9	8.4	6.5	2.3
25	0.3	1.0	9.7	3.8
26	0.0	9.4	0.0	7.9
27	10.4	6.2	6.3	6.2
28	10.5	9.4	9.9	4.2
29	0.8	7.8	2.6	7.4
30	0.0	0.0	0.0	0.1
31	.	.	8.6	6.0
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	.	117.9	102.9
Daily Means	3.2	4.2	3.8	3.3
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: AUGUST

Year: 2006

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	0.0	5.3		
2	0.0	6.1		
3	0.0	0.0		
4	3.8	0.0		
5	5.8	6.7		
6	0.0	0.0		
7	3.3	0.0		
8	0.0	6.9		
9	1.8	0.0		
10	0.0	2.4		
11	0.0	3.0		
12	4.3	5.6		
13	0.0	5.8		
14	7.9	5.8		
15	6.8	3.7		
16	4.6	1.2		
17	0.0	7.7		
18	0.0	8.4		
19	3.8	4.9		
20	0.0	0.0		
21	5.5	1.7		
22	7.6	3.7		
23	6.8	3.1		
24	4.8	9.3		
25	8.5	3.2		
26	7.1	5.8		
27	8.3	4.6		
28	6.6	4.9		
29	8.0	7.9		
30	2.9	5.8		
31	7.7	1.4		
TT Monthly Totals				
Daily Means				
SS Monthly Totals	115.9	124.9		
Daily Means	3.7	4.0		
Types of	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL		
	STOKES	STOKES		

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	0.2	7.9	10.9	8.6	
2	2.2	3.3	11.1	6.9	
3	6.5	0.0	10.9	8.3	
4	8.0	10.0	11.0	9.8	
5	10.4	9.4	11.1	8.5	
6	5.1	6.1	11.1	8.3	
7	5.0	8.8	11.1	9.1	
8	8.7	8.8	10.7	9.1	
9	7.0	6.8	11.0	7.8	
10	5.8	0.7	11.0	2.8	
11	10.3	8.7	10.9	8.4	
12	3.2	4.9	11.1	7.8	
13	5.3	7.1	10.8	1.9	
14	4.4	0.0	10.9	0.0	
15	2.9	6.1	11.0	5.8	
16	6.6	8.4	11.0	9.9	
17	7.1	9.1	10.9	9.2	
18	6.2	7.1	9.0	4.3	
19	5.6	6.9	11.3	10.8	
20	4.1	1.7	11.4	8.2	
21	5.4	8.6	11.3	7.8	
22	5.1	8.3	11.4	9.0	
23	6.9	9.1	11.2	5.7	
24	7.4	9.3	11.2	9.0	
25	5.3	2.2	11.2	7.2	
26	3.2	6.0	11.3	7.3	
27	2.9	2.1	7.8	8.4	
28	4.9	4.8	10.3	8.7	
29	4.2	2.1	9.2	5.7	
30	5.1	4.6	11.2	4.5	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	165.0	178.9	324.3	218.8	
Daily Means	5.5	6.0	10.8	7.3	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	27°10' S	29°57' S	33°23' S	33°27' S	
Longitude	109°26' W	71°22' W	70°47' W	70°42' W	
Elevation	47 m	25 m	474 m	520 m	
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL	
Date					
1	9.4	10.0	9.4	8.2	
2	9.3	10.5	6.9	3.0	
3	8.7	10.1	9.7	8.2	
4	4.3	10.2	9.0	7.8	
5	9.2	7.6	3.8	2.6	
6	9.5	0.9	1.0	1.9	
7	0.0	5.0	3.4	1.8	
8	6.4	10.3	9.5	8.2	
9	7.5	10.2	8.6	7.6	
10	3.5	9.9	0.4	0.0	
11	8.1	10.3	0.0	0.0	
12	9.8	10.2	9.5	6.3	
13	4.6	1.7	9.5	7.0	
14	10.1	8.9	7.6	6.3	
15	10.3	10.6	10.5	8.7	
16	8.3	4.4	10.4	8.7	
17	0.1	4.6	10.2	8.6	
18	0.8	0.0	0.0	0.0	
19	5.1	9.7	8.6	7.3	
20	7.5	10.7	7.8	7.1	
21	1.1	1.9	0.0	0.0	
22	9.0	8.1	4.8	4.2	
23	6.3	10.7	10.7	8.6	
24	8.5	3.4	10.7	8.7	
25	7.0	0.0	11.0	8.4	
26	6.4	4.3	0.0	0.0	
27	7.9	7.6	10.2	8.5	
28	7.1	2.4	10.5	8.7	
29	1.4	0.0	10.5	8.9	
30	9.5	0.0	3.9	3.9	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	196.7	194.2	208.1	169.2	
Daily Means	6.6	6.5	6.9	5.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	33°37' S	33°39' S	34°58' S	36°36' S	
Longitude	78°50' W	71°36' W	71°12' W	72°26' W	
Elevation	30 m	74 m	225 m	124 m	
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN	
Date					
1	5.6	10.5	8.8	9.5	
2	7.8	8.4	5.2	9.3	
3	7.1	10.7	7.7	9.2	
4	8.3	10.1	7.1	3.9	
5	0.5	2.9	5.7	6.6	
6	6.2	3.8	0.2	5.5	
7	8.1	6.9	8.3	0.0	
8	3.8	9.2	6.0	7.6	
9	3.2	8.9	3.8	0.0	
10	2.0	4.9	0.0	0.1	
11	7.0	5.1	6.2	6.2	
12	5.0	11.0	7.3	10.6	
13	5.1	10.8	9.3	10.4	
14	3.4	10.8	8.1	10.4	
15	0.9	11.1	5.6	10.4	
16	7.9	9.0	5.5	10.7	
17	8.8	10.1	6.7	11.6	
18	3.6	0.7	0.0	3.1	
19	4.1	10.4	9.5	9.2	
20	7.8	8.3	5.9	3.0	
21	6.5	0.0	5.9	0.0	
22	6.1	9.5	7.1	6.6	
23	7.4	9.2	7.9	8.7	
24	7.9	10.6	5.8	7.8	
25	4.7	1.6	7.5	5.2	
26	3.6	5.8	7.6	10.4	
27	7.2	11.1	7.3	10.8	
28	7.5	11.4	10.2	9.7	
29	7.9	1.9	4.6	0.6	
30	5.1	0.1	0.2	0.0	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	170.1	224.8	181.0	197.1	
Daily Means	5.7	7.5	6.0	6.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	36°46' S	38°45' S	39°41' S	41°26' S	
Longitude	73°03' W	72°38' W	73°04' W	73°07' W	
Elevation	12 m	114 m	19 m	81 m	
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT	
Date					
1	9.9	9.3	8.9	5.8	
2	9.8	9.4	6.0	5.3	
3	10.1	9.5	9.1	8.3	
4	7.0	6.5	7.6	8.9	
5	6.9	3.8	0.8	7.2	
6	0.0	0.0	0.0	0.1	
7	6.0	4.3	3.2	1.9	
8	7.5	5.9	5.5	2.0	
9	0.0	0.0	0.0	2.1	
10	2.2	3.5	4.1	6.1	
11	9.3	6.5	6.2	3.5	
12	10.4	9.7	10.1	6.2	
13	10.1	4.1	4.7	1.3	
14	10.2	5.8	6.6	2.6	
15	10.5	8.2	8.1	3.8	
16	10.6	9.8	9.4	3.8	
17	10.6	9.6	9.9	4.5	
18	9.7	9.9	6.2	9.7	
19	10.2	9.0	8.7	3.0	
20	5.3	0.7	0.0	0.3	
21	4.6	1.0	0.0	0.2	
22	7.9	3.0	5.7	5.9	
23	9.0	4.0	1.2	2.3	
24	8.0	5.2	4.7	4.5	
25	4.2	0.9	1.3	0.9	
26	9.3	5.8	4.9	6.2	
27	11.2	8.8	10.9	10.0	
28	7.9	4.6	3.3	1.3	
29	2.6	2.2	0.0	0.7	
30	0.1	1.8	0.0	0.0	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	221.1	162.8	147.1	118.4	
Daily Means	7.4	5.4	4.9	3.9	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: SEPTEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	45°35' S	53°08' S			
Longitude	72°07'W	70°58' W			
Elevation	310 m	37 m			
Station	COYHAIQUE	PUNTA ARENAS			
Date					
1	6.3	6.2			
2	3.9	8.1			
3	5.8	8.6			
4	7.4	6.4			
5	5.3	3.3			
6	1.2	0.3			
7	4.0	5.0			
8	2.5	0.2			
9	3.8	6.1			
10	8.3	7.7			
11	3.0	4.1			
12	2.2	3.1			
13	8.4	7.8			
14	8.7	2.6			
15	8.3	8.6			
16	5.5	9.2			
17	8.9	0.0			
18	1.7	1.9			
19	4.6	0.0			
20	0.0	1.6			
21	1.5	0.0			
22	3.3	0.0			
23	0.0	1.2			
24	3.8	0.0			
25	0.1	0.0			
26	2.5	8.1			
27	10.7	1.1			
28	6.6	5.4			
29	4.1	8.3			
30	9.0	4.4			
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	141.4	119.3			
Daily Means	4.7	4.0			
Types of	HELIOGRAPH	HELIOGRAPH			
Instruments	CAMPBELL	CAMPBELL			
	STOKES	STOKES			

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	5.4	6.5	11.2	6.9	
2	8.9	9.0	11.3	5.2	
3	6.7	9.2	11.3	2.7	
4	6.8	10.0	11.3	8.9	
5	5.9	8.3	11.3	10.9	
6	4.8	8.0	11.5	7.3	
7	5.8	6.1	11.6	8.3	
8	6.0	4.3	11.5	8.4	
9	9.8	8.7	11.6	9.1	
10	7.1	10.7	11.3	10.6	
11	7.4	8.4	11.6	7.5	
12	5.8	3.9	11.7	7.9	
13	11.1	7.4	11.7	8.6	
14	6.8	10.3	11.8	10.0	
15	3.9	5.0	11.3	7.2	
16	10.0	10.1	12.0	9.0	
17	6.8	2.7	11.2	7.0	
18	6.9	6.0	11.9	5.9	
19	7.0	9.1	12.0	10.0	
20	7.1	8.0	11.7	8.1	
21	9.8	10.1	10.8	7.9	
22	8.0	9.6	11.4	9.2	
23	8.6	9.1	12.1	9.6	
24	5.8	6.7	11.8	9.0	
25	5.8	7.4	12.0	9.7	
26	4.2	7.9	8.1	9.7	
27	7.7	9.2	11.9	8.7	
28	5.6	7.7	12.0	3.0	
29	5.5	4.9	12.3	6.6	
30	4.0	7.6	12.3	6.7	
31	3.9	1.0	12.3	9.0	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	208.9	232.9	357.8	248.6	
Daily Means	6.7	7.5	11.5	8.0	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	27°10' S	29°57' S	33°23' S	33°27' S	
Longitude	109°26' W	71°22' W	70°47' W	70°42' W	
Elevation	47 m	25 m	474 m	520 m	
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL	
Date					
1	10.7	6.5	6.9	5.7	
2	7.0	2.4	0.5	0.0	
3	10.6	0.7	0.0	0.0	
4	10.6	11.2	8.4	8.0	
5	6.2	11.1	8.1	7.0	
6	8.2	11.1	9.0	8.2	
7	2.2	11.6	11.5	10.0	
8	9.0	6.9	11.4	10.3	
9	10.1	0.0	9.7	9.1	
10	6.1	4.1	9.8	9.7	
11	5.5	5.6	5.9	0.0	
12	7.1	5.6	0.0	0.0	
13	0.2	0.0	0.0	0.0	
14	0.9	11.8	12.0	9.8	
15	5.8	12.0	10.9	10.0	
16	8.8	5.4	4.8	6.3	
17	11.1	5.4	3.7	3.6	
18	9.8	3.6	4.0	2.7	
19	3.7	12.3	10.7	9.9	
20	11.2	7.7	11.3	10.5	
21	9.5	2.5	11.2	10.4	
22	3.4	2.0	11.7	10.6	
23	5.2	5.2	11.5	10.6	
24	3.7	6.5	11.4	11.0	
25	5.6	5.9	10.3	10.2	
26	7.1	0.0	2.4	1.8	
27	10.1	12.7	2.5	1.0	
28	8.5	12.1	6.7	5.4	
29	5.3	12.6	12.0	10.6	
30	8.3	12.2	12.4	11.1	
31	11.2	12.4	12.2	10.7	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	222.7	219.1	242.9	214.2	
Daily Means	7.2	7.1	7.8	6.9	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	33°37' S	33°39' S	34°58' S	36°36' S	
Longitude	78°50' W	71°36' W	71°12' W	72°26' W	
Elevation	30 m	74 m	225 m	124 m	
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN	
Date					
1		2.5	5.6	8.7	
2		3.9	0.0	2.1	
3		4.3	0.0	0.6	
4		9.8	8.4	6.0	
5	9.0	10.0	3.5	4.7	
6	8.9	10.8	10.2	8.9	
7	9.9	11.6	9.6	11.3	
8	9.7	9.7	10.8	9.5	
9	7.8	9.9	9.6	10.8	
10	6.0	3.1	5.7	6.8	
11	0.1	6.7	0.0	0.9	
12	2.4	0.0	0.0	0.0	
13	7.4	0.0	0.0	0.1	
14	8.1	11.5	8.4	4.7	
15	0.0	12.0	10.1	11.6	
16	0.8	8.6	4.5	8.1	
17	1.6	0.4	2.6	3.2	
18	8.8	1.3	1.7	8.9	
19	9.5	10.8	9.1	11.5	
20	9.4	11.0	9.6	11.8	
21	11.0	7.6	12.3	11.6	
22	11.2	7.0	12.3	9.2	
23	6.6	11.0	10.0	11.6	
24	5.0	8.9	9.1	3.2	
25	8.3	12.3	10.3	11.5	
26	0.0	0.0	2.3	6.9	
27	6.7	7.0	2.7	4.5	
28	7.3	12.6	10.7	9.7	
29	7.5	12.5	10.6	9.6	
30	8.4	12.6	12.1	9.3	
31	5.5	13.4	11.5	12.0	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	176.9	242.8	213.3	229.3	
Daily Means	6.6	7.8	6.9	7.4	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER

Year: 2006

Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	10.2	2.8	8.1	5.6
2	4.1	2.8	4.1	6.4
3	0.0	1.8	0.0	0.1
4	9.9	7.1	9.7	8.9
5	6.3	3.9	1.1	1.0
6	2.9	7.5	8.6	5.0
7	11.3	9.3	3.7	6.1
8	9.3	0.0	1.0	5.3
9	9.2	6.0	0.1	7.2
10	7.0	0.0	3.5	4.7
11	0.0	0.0	0.0	0.7
12	1.8	2.6	10.6	10.6
13	7.2	4.5	4.8	3.1
14	5.4	3.9	5.1	5.5
15	11.8	10.6	8.9	0.6
16	8.5	9.0	9.0	12.3
17	6.8	9.0	5.7	9.8
18	8.8	7.8	9.1	4.1
19	11.6	10.1	5.1	1.8
20	12.0	10.1	10.5	10.4
21	12.2	7.7	10.2	11.0
22	12.1	7.5	0.0	0.1
23	12.1	4.8	0.0	0.0
24	5.8	4.6	5.8	4.8
25	12.2	11.2	10.4	12.6
26	5.3	10.4	6.9	9.8
27	3.1	1.4	0.7	0.4
28	8.5	6.8	2.1	8.3
29	11.6	6.8	4.1	4.1
30	12.0	5.7	9.7	5.6
31	12.2	.	6.4	5.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	251.2	.	165.0	171.1
 Daily Means	8.1	5.9	5.3	5.5
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: OCTOBER

Year: 2006

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	5.5	8.1		
2	9.2	7.5		
3	0.1	8.7		
4	6.8	1.2		
5	1.5	8.6		
6	3.1	1.6		
7	4.7	7.9		
8	9.2	6.4		
9	7.9	8.8		
10	10.4	9.3		
11	4.9	0.9		
12	8.9	0.1		
13	2.5	2.3		
14	8.7	10.4		
15	5.6	10.7		
16	11.4	9.1		
17	11.5	13.0		
18	6.2	11.0		
19	2.6	5.7		
20	5.2	0.3		
21	2.9	5.3		
22	2.2	10.3		
23	7.4	4.3		
24	9.1	6.4		
25	6.2	5.2		
26	12.2	0.0		
27	3.6	0.0		
28	3.3	6.9		
29	6.2	.		
30	5.1	.		
31	2.2	.		
TT Monthly Totals				
Daily Means				
SS Monthly Totals	186.3	.		
Daily Means	6.0	6.1		
Types of	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL		
	STOKES	STOKES		

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	4.9	3.9	12.3	10.9	
2	7.0	10.8	12.3	10.0	
3	9.3	10.5	12.2	10.6	
4	3.2	4.2	9.7	7.2	
5	6.0	9.2	12.3	10.1	
6	6.8	11.5	12.4	8.2	
7	5.5	6.4	11.7	9.2	
8	10.0	11.5	12.2	10.7	
9	9.4	11.5	12.4	11.1	
10	7.0	11.5	12.4	8.5	
11	8.8	11.5	11.8	11.2	
12	6.9	8.7	12.4	6.9	
13	5.9	8.0	12.4	8.1	
14	5.3	8.6	12.5	9.0	
15	9.5	10.2	12.6	8.1	
16	8.5	11.7	12.5	9.3	
17	9.5	11.4	12.1	8.6	
18	7.0	8.8	12.3	8.3	
19	7.1	1.3	12.5	8.7	
20	11.4	10.9	12.6	11.2	
21	9.8	11.1	12.5	9.9	
22	8.3	10.4	12.0	7.8	
23	10.3	11.4	11.6	11.3	
24	10.1	11.9	12.6	7.4	
25	8.2	9.3	12.5	1.0	
26	11.5	11.0	12.5	10.4	
27	6.0	9.0	12.5	0.4	
28	4.4	6.9	12.6	6.4	
29	7.2	7.7	12.6	8.6	
30	5.0	7.0	12.5	9.8	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	229.8	277.8	367.5	258.9	
Daily Means	7.7	9.3	12.3	8.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	27°10' S	29°57' S	33°23' S	33°27' S	
Longitude	109°26' W	71°22' W	70°47' W	70°42' W	
Elevation	47 m	25 m	474 m	520 m	
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL	
Date					
1	7.3	11.6	2.5	1.5	
2	9.8	12.1	0.1	0.2	
3	8.5	10.7	11.1	10.8	
4	4.3	0.0	11.9	10.5	
5	8.6	9.6	8.1	6.4	
6	6.0	11.8	11.9	10.6	
7	0.2	3.2	12.0	10.9	
8	10.1	6.3	12.6	11.1	
9	8.4	11.0	12.5	11.1	
10	7.3	0.0	12.6	11.2	
11	2.8	2.8	9.6	10.7	
12	10.5	8.1	5.7	5.3	
13	8.4	12.4	12.3	10.9	
14	12.3	12.5	10.3	9.4	
15	10.4	7.1	12.6	11.1	
16	10.0	11.9	12.4	10.8	
17	12.5	12.8	1.9	1.6	
18	12.1	12.8	11.8	10.6	
19	12.2	12.4	12.8	11.5	
20	6.8	6.7	12.3	11.5	
21	4.7	12.5	12.2	11.3	
22	9.4	6.5	12.6	11.3	
23	11.8	8.7	12.4	11.5	
24	8.7	5.2	12.6	11.6	
25	5.7	1.5	12.7	11.7	
26	6.2	6.3	11.6	11.2	
27	9.0	5.7	12.3	11.2	
28	11.1	10.2	12.4	11.4	
29	3.9	7.3	12.7	11.8	
30	8.8	5.4	11.6	11.7	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	247.8	245.1	320.1	292.4	
Daily Means	8.3	8.2	10.7	9.7	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	33°37' S	33°39' S	34°58' S	36°36' S	
Longitude	78°50' W	71°36' W	71°12' W	72°26' W	
Elevation	30 m	74 m	225 m	124 m	
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN	
Date					
1	5.0	8.5	3.0	7.1	
2	2.9	1.3	0.9	9.5	
3	3.6	10.2	6.2	11.2	
4	0.0	0.0	12.5	11.1	
5	2.3	10.0	2.4	0.7	
6	5.9	12.5	9.0	11.6	
7	11.0	11.8	13.1	12.9	
8	10.5	6.4	12.4	12.1	
9	11.2	6.5	10.6	12.2	
10	11.3	0.0	12.9	11.3	
11	6.4	0.0	2.1	7.5	
12	7.8	9.5	7.9	5.2	
13	7.2	11.5	10.8	7.9	
14	7.6	12.3	10.0	10.5	
15	5.8	12.5	10.0	8.9	
16	4.4	12.4	8.3	13.0	
17	8.0	0.8	1.8	8.7	
18	10.9	12.5	13.0	12.7	
19	10.0	12.8	13.2	13.4	
20	2.4	3.6	12.0	12.4	
21	3.9	13.0	12.3	12.7	
22	10.8	2.5	13.3	10.9	
23	7.2	9.7	12.2	13.1	
24	2.5	12.7	12.1	13.4	
25	4.3	12.5	13.0	13.4	
26	3.7	5.1	12.3	12.2	
27	5.7	12.5	12.8	9.9	
28	1.5	12.9	13.4	12.8	
29	10.4	12.9	13.6	12.6	
30	1.5	0.1	13.5	11.8	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	185.7	249.0	300.6	322.7	
Daily Means	6.2	8.3	10.0	10.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

DIRECCION METEOROLOGICA DE CHILE
SUBDIRECCION DE CLIMAT. Y MET. APLICADA
DPTO. CLIMATOLOGIA

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	36°46' S	38°45' S	39°41' S	41°26' S	
Longitude	73°03' W	72°38' W	73°04' W	73°07' W	
Elevation	12 m	114 m	19 m	81 m	
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT	
Date					
1	8.4	3.2	3.5	4.3	
2	9.9	3.2	3.5	12.2	
3	12.2	11.2	11.7	12.9	
4	12.3	11.3	6.3	5.5	
5	2.8	1.3	1.5	3.7	
6	12.3	11.1	10.8	7.1	
7	12.1	11.2	12.2	13.1	
8	12.1	11.4	12.3	8.3	
9	12.3	10.0	11.6	11.8	
10	9.9	9.7	7.8	8.3	
11	1.9	7.7	5.1	4.3	
12	0.4	7.2	4.8	7.8	
13	6.8	7.2	5.0	4.9	
14	9.8	1.7	1.5	0.0	
15	9.3	6.1	6.9	4.8	
16	12.6	10.6	10.4	8.5	
17	11.7	10.9	12.9	12.3	
18	12.6	10.8	12.7	11.9	
19	12.5	10.6	12.1	12.5	
20	11.9	3.3	2.9	4.3	
21	12.6	10.5	10.6	3.9	
22	12.1	5.7	2.3	4.3	
23	12.6	10.0	9.0	8.2	
24	12.5	10.0	12.0	7.5	
25	12.5	11.0	12.6	12.7	
26	12.5	11.0	11.8	8.4	
27	12.1	9.8	11.1	7.1	
28	12.8	8.2	7.9	4.4	
29	12.6	8.3	10.6	9.2	
30	.	5.8	7.9	3.3	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	.	250.0	251.3	227.5	
Daily Means	10.6	8.3	8.4	7.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: NOVEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	45°35' S	53°08' S			
Longitude	72°07'W	70°58' W			
Elevation	310 m	37 m			
Station	COYHAIQUE	PUNTA ARENAS			
Date					
1	0.0	10.2			
2	11.6	8.3			
3	8.9	7.0			
4	7.2	11.3			
5	5.8	9.6			
6	9.7	8.9			
7	12.5	5.6			
8	10.2	7.1			
9	8.4	12.4			
10	8.6	3.8			
11	12.5	4.0			
12	1.1	6.1			
13	7.0	8.5			
14	5.8	9.1			
15	6.7	7.1			
16	7.6	5.3			
17	12.1	6.2			
18	6.3	5.4			
19	2.5	10.1			
20	9.9	9.6			
21	3.9	8.2			
22	3.9	10.9			
23	9.5	7.0			
24	8.7	5.5			
25	13.1	8.0			
26	10.7	0.7			
27	3.1	9.1			
28	6.0	2.8			
29	7.2	9.6			
30	9.0	8.5			
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	229.5	225.9			
Daily Means	7.7	7.5			
Types of	HELIOGRAPH	HELIOGRAPH			
Instruments	CAMPBELL	CAMPBELL			
	STOKES	STOKES			

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	7.8	11.1	10.9	10.4	
2	7.4	11.7	12.4	10.3	
3	6.3	10.4	12.7	7.4	
4	6.9	9.2	12.5	7.3	
5	6.6	6.7	12.7	9.6	
6	6.4	4.7	12.5	8.9	
7	7.7	8.2	12.6	7.7	
8	9.1	10.0	12.7	11.7	
9	11.3	12.0	12.6	12.3	
10	8.3	12.2	12.5	11.3	
11	6.8	12.0	12.6	11.2	
12	6.3	9.2	12.5	8.1	
13	3.9	7.1	12.6	10.2	
14	7.5	11.0	12.7	8.0	
15	8.7	11.3	11.7	11.0	
16	9.1	11.8	11.9	6.2	
17	10.6	9.8	11.2	10.4	
18	5.4	7.7	11.8	9.9	
19	2.9	3.3	11.9	9.4	
20	4.3	7.0	12.4	8.7	
21	11.0	11.8	12.4	11.5	
22	11.5	12.0	12.4	11.6	
23	9.2	11.9	11.7	8.8	
24	9.2	11.9	12.6	7.5	
25	7.3	7.2	12.6	9.9	
26	8.0	10.1	12.6	10.9	
27	8.6	10.6	12.6	9.6	
28	8.6	12.0	12.7	11.5	
29	11.6	12.1	12.6	11.6	
30	10.8	12.0	12.6	10.2	
31	11.4	12.0	12.4	9.1	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	250.5	310.0	382.6	302.2	
Daily Means	8.1	10.0	12.3	9.7	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	27°10' S	29°57' S	33°23' S	33°27' S	
Longitude	109°26' W	71°22' W	70°47' W	70°42' W	
Elevation	47 m	25 m	474 m	520 m	
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL	
Date					
1	7.6	5.5	6.1	6.1	
2	1.0	12.6	12.1	11.1	
3	0.0	10.2	12.3	11.4	
4	3.4	7.9	12.6	11.8	
5	7.8	9.5	12.7	11.8	
6	10.6	6.5	12.8	12.1	
7	4.1	0.1	10.0	9.6	
8	1.1	6.1	12.7	12.1	
9	4.7	12.8	12.6	12.1	
10	6.2	4.8	12.8	13.0	
11	9.0	5.4	12.7	12.2	
12	12.4	3.3	9.1	9.4	
13	11.4	8.3	8.4	8.7	
14	12.2	12.9	7.9	7.6	
15	10.0	3.9	11.5	11.2	
16	9.7	8.6	7.3	7.6	
17	9.6	13.1	12.2	12.0	
18	10.7	13.0	12.8	12.1	
19	9.3	10.6	12.7	12.1	
20	10.1	8.3	12.4	12.0	
21	12.4	6.5	12.7	12.1	
22	12.5	12.0	12.6	12.0	
23	11.7	10.5	1.9	1.6	
24	12.3	11.2	10.3	10.2	
25	11.0	11.6	12.6	11.8	
26	8.8	11.3	12.9	12.2	
27	6.7	12.2	12.9	12.3	
28	10.1	12.6	12.9	12.0	
29	13.2	9.8	12.7	11.7	
30	1.1	10.4	12.7	12.3	
31	6.9	3.8	12.9	12.0	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	257.6	275.3	350.8	336.2	
Daily Means	8.3	8.9	11.3	10.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	33°37' S	33°39' S	34°58' S	36°36' S	
Longitude	78°50' W	71°36' W	71°12' W	72°26' W	
Elevation	30 m	74 m	225 m	124 m	
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN	
Date					
1	7.0	4.2	2.6	5.2	
2	7.8	12.8	10.0	12.8	
3	7.0	9.8	13.2	12.9	
4	8.2	9.4	13.5	13.2	
5	4.9	11.8	13.5	13.3	
6	9.4	12.6	11.6	13.0	
7	8.1	8.9	12.0	12.2	
8	5.2	11.3	13.6	13.3	
9	3.4	12.4	13.5	13.3	
10	2.1	8.9	13.7	13.3	
11	4.5	7.4	13.4	12.8	
12	0.4	9.8	12.6	11.5	
13	7.8	7.5	9.7	3.7	
14	1.8	10.9	5.8	8.3	
15	0.0	9.1	6.8	7.8	
16	9.9	11.0	7.3	5.9	
17	8.1	9.7	13.0	11.4	
18	9.1	12.7	13.5	11.9	
19	7.8	12.8	13.0	7.3	
20	8.2	12.8	13.0	9.2	
21	2.2	13.0	11.4	7.4	
22	7.7	11.5	13.6	11.6	
23	7.5	0.9	0.0	0.0	
24	8.0	9.0	6.0	4.5	
25	9.2	12.8	11.8	11.5	
26	5.9	13.0	12.7	5.2	
27	7.3	13.6	9.7	12.1	
28	9.2	11.8	13.6	13.0	
29	5.5	12.4	13.7	13.2	
30	10.2	4.3	9.1	10.8	
31	11.1	0.0	13.7	13.2	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	204.5	308.1	340.6	314.8	
Daily Means	6.6	9.9	11.0	10.2	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	36°46' S	38°45' S	39°41' S	41°26' S	
Longitude	73°03' W	72°38' W	73°04' W	73°07' W	
Elevation	12 m	114 m	19 m	81 m	
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT	
Date					
1	2.4	5.4	6.7	3.0	
2	12.8	10.9	12.6	7.3	
3	12.4	9.1	12.0	8.5	
4	13.0	11.2	12.7	10.5	
5	12.7	9.9	12.6	6.6	
6	12.6	10.6	12.3	8.1	
7	11.5	10.8	13.0	5.9	
8	9.9	8.4	10.6	7.4	
9	12.7	11.4	7.6	0.5	
10	12.0	9.6	9.6	1.0	
11	11.5	5.5	11.1	5.0	
12	4.9	11.1	4.6	4.6	
13	1.8	1.1	1.5	2.1	
14	8.7	3.5	4.7	1.7	
15	1.5	2.4	0.0	2.7	
16	10.6	7.5	10.0	6.9	
17	9.1	2.7	0.0	0.6	
18	7.0	8.6	5.6	1.4	
19	7.4	4.9	7.9	6.1	
20	11.7	5.5	1.2	0.5	
21	6.7	0.5	1.8	0.0	
22	2.1	0.4	0.0	0.0	
23	0.0	0.9	6.5	1.7	
24	10.4	3.0	3.8	3.4	
25	13.1	12.6	8.2	3.6	
26	2.5	1.4	2.5	4.9	
27	12.8	11.1	11.9	7.9	
28	13.1	10.9	3.3	0.0	
29	12.9	2.4	2.2	2.0	
30	12.1	7.3	8.5	9.7	
31	11.3	7.0	7.8	5.8	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	283.2	207.6	212.8	129.4	
Daily Means	9.1	6.7	6.9	4.2	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

WMO
Total radiation (sun and sky) T,MJ/m2
Duration of sunshine ss, hours

Month: DECEMBER		Year: 2006		Country: CHILE	
Daily Totals					
Latitude	45°35' S	53°08' S			
Longitude	72°07'W	70°58' W			
Elevation	310 m	37 m			
Station	COYHAIQUE	PUNTA ARENAS			
Date					
1	11.6	4.3			
2	13.1	6.4			
3	6.1	9.3			
4	5.3	3.3			
5	5.5	3.8			
6	8.3	4.1			
7	6.0	11.0			
8	7.9	2.7			
9	3.4	3.1			
10	3.8	14.3			
11	5.1	8.9			
12	7.8	10.8			
13	5.8	4.4			
14	6.6	2.9			
15	0.6	3.3			
16	6.2	6.9			
17	0.3	4.8			
18	3.6	7.3			
19	5.3	11.8			
20	4.2	0.5			
21	3.9	8.3			
22	5.6	5.9			
23	3.9	13.1			
24	3.3	10.1			
25	6.7	5.6			
26	2.4	10.0			
27	9.5	5.6			
28	0.0	13.0			
29	8.7	12.7			
30	0.6	2.6			
31	0.7	6.2			
TT Monthly Totals					
Daily Means					
SS Monthly Totals	161.8	217.0			
Daily Means	5.2	7.0			
Types of	HELIOGRAPH	HELIOGRAPH			
Instruments	CAMPBELL	CAMPBELL			
	STOKES	STOKES			