



DIRECCIÓN METEOROLÓGICA DE CHILE

INFORME SOLARIMÉTRICO SEMESTRAL

I SEMESTRE 2001



SUBDIRECCIÓN DE CLIMATOLOGÍA Y MET APLICADA

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°09' S
Longitude	70°19' W	68°54' W	70°26' W	109°25' W
Elevation	58 m	2270 m	135 m	51 m
Station	ARICA	CALAMA	ANTOFAGASTA	ISLA DE PASCUA
Date				
1	24.37	.	22.07	28.92
2	19.77	.	19.42	28.39
3	4.66	.	21.40	30.53
4	23.95	.	21.74	19.81
5	19.33	.	21.93	29.15
6	22.92	.	14.01	24.57
7	25.94	.	21.07	25.34
8	20.22	.	21.96	28.72
9	.	.	21.70	23.92
10	22.47	.	20.70	30.04
11	23.82	.	20.94	28.76
12	25.86	.	18.35	29.50
13	26.15	.	21.06	14.54
14	25.44	.	17.04	23.96
15	25.82	.	20.87	27.04
16	26.75	.	20.85	30.56
17	26.59	.	16.56	29.48
18	26.14	.	21.39	26.79
19	26.04	.	20.21	27.13
20	24.02	.	20.85	22.59
21	16.77	.	21.09	21.24
22	24.58	.	21.46	28.36
23	26.00	.	20.81	29.41
24	26.88	.	19.72	29.71
25	24.52	.	20.49	26.74
26	23.96	.	20.60	18.89
27	23.17	.	20.64	29.29
28	20.71	.	20.62	27.00
29	19.74	.	19.74	29.29
30	24.92	.	20.43	28.01
31	24.86	.	20.85	27.04
TT Monthly Totals	.	.	630.57	824.70
 Daily Means	23.21	.	20.34	26.60
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	28.79	28.94	26.47
2	.	26.88	29.23	14.50
3	.	22.06	24.21	17.57
4	.	27.38	30.02	30.05
5	.	27.74	30.11	29.90
6	.	18.08	28.94	29.53
7	.	27.41	23.46	18.90
8	.	27.82	28.02	30.16
9	.	26.87	17.18	19.21
10	.	28.64	30.18	31.09
11	.	26.79	30.15	30.68
12	.	27.16	12.84	29.68
13	.	27.31	29.25	29.20
14	.	27.08	29.44	30.33
15	.	25.63	29.58	29.22
16	.	24.93	29.32	29.63
17	.	.	29.12	29.56
18	.	27.06	29.09	29.59
19	.	26.80	29.24	29.69
20	.	23.05	28.91	29.51
21	.	22.79	29.01	29.35
22	.	25.79	29.05	28.94
23	.	.	28.25	27.20
24	.	26.92	28.10	25.45
25	.	26.33	28.42	27.66
26	.	25.74	28.17	28.89
27	.	26.18	27.83	25.33
28	.	20.96	28.33	28.53
29	.	26.08	27.90	28.14
30	.	25.04	27.93	28.47
31	.	25.99	28.15	22.75
TT Monthly Totals	.	.	858.36	845.18
 Daily Means	.	25.84	27.69	27.26
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	34°58' S	35°58' S	36°46' S	37°24' S
Longitude	71°14' W	72°20' W	73°03' W	72°26' W
Elevation	228 m	142 m	12 m	109 m
Station	CURICO	CAUQUENES	CONCEPCION	LOS ANGELES
Date				
1	21.83	30.29	9.41	28.64
2	25.05	30.24	14.23	25.87
3	19.76	30.02	16.44	26.27
4	26.85	30.17	26.91	27.35
5	25.16	26.43	18.45	23.62
6	24.85	30.38	27.54	28.20
7	16.39	18.98	20.53	.
8	27.06	25.02	25.30	.
9	10.45	16.75	25.18	.
10	27.18	31.40	28.84	.
11	27.60	30.48	30.55	28.36
12	27.00	29.42	30.05	25.65
13	26.64	29.21	30.44	27.57
14	27.20	30.25	30.96	29.52
15	26.91	29.79	30.55	29.49
16	27.41	28.01	29.93	28.30
17	27.04	29.44	29.90	28.75
18	26.98	31.05	31.11	29.50
19	26.43	30.19	30.68	28.86
20	26.57	29.77	29.66	28.46
21	25.83	28.43	17.17	18.66
22	.	28.74	29.52	31.11
23	26.00	27.72	28.71	26.74
24	26.03	28.25	29.21	26.95
25	26.59	28.63	29.13	27.13
26	26.12	28.15	29.16	27.03
27	25.78	26.71	24.84	.
28	25.95	.	29.39	28.35
29	26.10	.	28.51	.
30	22.51	.	9.65	24.87
31	22.18	28.38	27.58	29.12
TT Monthly Totals	.	.	799.51	.
 Daily Means	24.91	28.30	25.79	.
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	38°45' S	41°25' S	42°55' S	45°35' S
Longitude	72°38' W	73°05' W	72°43' W	72°07' W
Elevation	114 m	85 m	7 m	310 m
Station	TEMUCO	PUERTO MONTT	CHAITEN	COYHAIQUE
Date				
1	27.21	28.09	31.59	25.43
2	26.14	26.96	17.08	10.11
3	30.62	17.63	7.64	10.96
4	8.67	15.39	7.67	16.03
5	15.66	12.54	9.18	20.18
6	24.17	10.89	6.78	13.25
7	14.91	12.42	8.37	13.21
8	14.78	13.39	13.74	25.19
9	16.58	11.67	9.44	26.50
10	23.75	18.74	21.68	24.72
11	29.44	15.67	5.98	17.51
12	20.19	16.18	11.87	13.61
13	25.66	22.70	20.00	24.21
14	30.89	28.76	30.53	19.63
15	30.93	22.10	4.18	28.75
16	22.38	22.27	16.85	24.92
17	29.33	23.18	27.57	26.40
18	30.93	28.80	27.70	25.91
19	30.41	27.35	28.97	27.07
20	24.98	10.81	6.45	11.40
21	10.59	14.41	8.30	12.65
22	27.02	9.15	11.16	25.10
23	15.56	14.09	15.46	26.09
24	26.30	28.86	29.58	27.36
25	28.00	19.39	13.50	19.18
26	28.01	21.83	18.24	14.51
27	18.18	11.70	17.31	23.90
28	27.08	17.84	17.54	11.59
29	22.14	5.75	3.59	7.44
30	19.06	14.97	5.82	13.97
31	.	16.65	9.94	11.33
TT Monthly Totals	.	560.18	463.70	598.12
 Daily Means	23.32	18.07	14.96	19.29
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	11.76			
2	24.81			
3	19.48			
4	10.13			
5	22.77			
6	15.37			
7	25.90			
8	22.25			
9	23.12			
10	24.35			
11	22.79			
12	11.46			
13	26.45			
14	12.69			
15	21.77			
16	29.06			
17	19.23			
18	18.84			
19	13.73			
20	12.20			
21	15.33			
22	17.46			
23	21.82			
24	9.38			
25	22.95			
26	15.52			
27	22.47			
28	11.69			
29	13.39			
30	21.31			
31	15.03			
TT Monthly Totals	574.51			
 Daily Means	18.53			
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY			

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	18°20' S	22°29' S	23°26' S	27°09' S
Longitude	70°20' W	68°54' W	70°26' W	109°25' W
Elevation	58 m	2270 m	135 m	51 m
Station	ARICA	CALAMA	ANTOFAGASTA	ISLA DE PASCUA
Date				
1	23.10	.	20.71	12.88
2	22.75	.	18.94	21.88
3	22.96	.	19.24	18.34
4	20.55	.	18.80	16.74
5	24.94	.	20.14	25.63
6	18.05	.	20.01	17.36
7	20.14	.	18.13	28.17
8	20.01	.	19.49	22.37
9	21.15	.	18.91	20.22
10	23.36	.	18.24	17.31
11	20.86	.	19.28	12.56
12	22.01	.	19.77	20.19
13	.	.	19.31	24.84
14	21.46	.	19.02	18.81
15	24.39	.	19.40	13.51
16	.	.	18.99	23.20
17	.	.	19.04	25.38
18	23.59	.	19.20	12.86
19	.	.	19.30	22.37
20	23.10	.	18.98	26.14
21	22.32	.	19.07	25.61
22	24.17	.	18.81	25.93
23	22.24	.	18.63	24.00
24	.	.	17.03	23.98
25	23.97	.	18.17	22.67
26	22.98	.	18.34	23.59
27	21.18	.	18.26	24.56
28	.	.	17.19	22.21
29				
30				
31				
TT Monthly Totals	.	.	530.40	593.32
 Daily Means	.	.	18.94	21.19
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	25.54	27.68	28.16
2	.	22.72	27.53	27.59
3	.	25.39	27.19	27.75
4	.	25.65	26.30	27.13
5	.	25.31	27.16	27.95
6	.	24.12	27.95	28.06
7	.	22.51	26.77	27.63
8	.	24.73	26.64	27.73
9	.	25.22	26.89	27.47
10	.	25.07	26.85	27.93
11	.	21.79	27.44	27.79
12	.	24.23	26.30	26.94
13	.	24.61	25.28	23.75
14	.	24.53	25.37	26.53
15	.	24.92	25.06	26.40
16	.	23.40	24.82	23.32
17	.	24.23	24.60	23.03
18	.	24.16	23.86	6.70
19	.	23.97	22.99	8.10
20	.	22.63	22.00	12.72
21	.	18.89	23.76	25.46
22	.	21.25	23.89	21.25
23	.	23.84	21.91	23.17
24	.	15.59	24.51	25.14
25	.	19.23	24.39	24.82
26	.	23.28	23.84	24.98
27	.	22.47	23.50	24.58
28	.	21.51	23.22	24.32
29	.			
30	.			
31	.			
TT Monthly Totals	.	650.79	707.68	676.38
 Daily Means	.	23.24	25.27	24.16
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	34°58' S	35°58' S	36°46' S	37°24' S
Longitude	71°14' W	72°20' W	73°03' W	72°26' W
Elevation	228 m	142 m	12 m	109 m
Station	CURICO	CAUQUENES	CONCEPCION	LOS ANGELES
Date				
1	26.13	27.73	27.64	23.79
2	18.27	28.29	28.46	27.17
3	25.77	28.02	28.49	26.09
4	24.61	26.86	28.27	.
5	25.86	27.87	28.05	.
6	26.33	27.64	27.79	26.82
7	19.50	27.64	28.46	27.53
8	25.19	27.25	27.51	26.59
9	25.32	.	17.21	16.25
10	25.80	.	27.94	26.92
11	23.79	.	28.06	27.03
12	25.27	.	27.29	.
13	24.24	.	26.20	25.77
14	24.69	.	26.90	26.06
15	24.61	.	25.97	22.02
16	23.67	.	25.85	14.14
17	23.58	.	25.99	25.16
18	23.39	.	25.65	21.37
19	22.85	.	22.04	28.53
20	15.41	.	24.17	27.04
21	23.93	.	25.19	24.53
22	23.29	.	25.54	.
23	22.23	.	25.37	23.57
24	23.34	.	19.60	.
25	23.30	.	25.15	23.73
26	22.97	.	16.90	21.92
27	20.53	.	24.42	16.48
28	18.82	.	11.84	15.90
29				
30				
31				
TT Monthly Totals	652.70	.	701.95	.
 Daily Means	23.31	.	25.07	23.67
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	38°45' S	41°25' S	42°55' S	45°35' S
Longitude	72°38' W	73°05' W	72°43' W	72°07' W
Elevation	114 m	85 m	7 m	310 m
Station	TEMUCO	PUERTO MONTT	CHAITEN	COYHAIQUE
Date				
1	.	.	2.64	22.20
2	.	.	13.90	20.46
3	.	.	5.16	17.89
4	27.15	.	14.62	16.61
5	16.58	.	20.09	23.66
6	27.27	.	18.12	13.74
7	28.23	.	21.35	26.31
8	24.52	.	13.46	15.26
9	.	.	8.06	18.68
10	24.40	.	6.16	12.88
11	27.32	.	7.47	9.85
12	26.95	.	25.51	25.27
13	23.94	.	19.05	24.82
14	26.58	.	10.15	11.53
15	25.99	.	18.93	16.65
16	26.00	.	15.35	10.68
17	24.77	.	20.38	24.23
18	26.07	.	24.89	8.46
19	25.58	.	22.16	15.75
20	15.84	.	5.80	10.80
21	23.46	.	5.69	23.73
22	23.55	.	4.43	17.65
23	23.52	.	8.16	16.00
24	22.83	.	22.12	19.85
25	23.48	.	6.29	10.94
26	8.90	.	.	16.11
27	22.87	.	7.74	20.84
28	15.79	.	3.34	13.29
29				
30				
31				
TT Monthly Totals	.	.	.	484.15
 Daily Means	23.40	.	13.00	17.29
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	13.77			
2	25.91			
3	14.19			
4	18.03			
5	21.88			
6	21.67			
7	13.46			
8	10.18			
9	15.43			
10	16.33			
11	12.38			
12	23.15			
13	20.88			
14	16.74			
15	12.28			
16	17.78			
17	21.61			
18	14.59			
19	5.38			
20	11.82			
21	10.60			
22	14.47			
23	11.30			
24	17.81			
25	5.57			
26	14.11			
27	14.06			
28	16.38			
29				
30				
31				
TT Monthly Totals	431.77			
 Daily Means	15.42			
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO			
Instruments	PSP EPPLEY			

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

Month: **MARZO**Years: **2001**Country: **CHILE**

Daily Totals				
Latitude	18°20' S	22°29' S	23°26' S	27°09' S
Longitude	70°20' W	68°54' W	70°26' W	109°25' W
Elevation	58 m	2270 m	135 m	51 m
Station	ARICA	CALAMA	ANTOFAGASTA	ISLA DE PASCUA
Date				
1	23.89	.	18.07	12.73
2	23.56	.	16.72	24.74
3	20.26	.	16.24	23.29
4	21.74	.	17.61	22.96
5	21.49	.	17.78	25.55
6	22.58	.	16.28	24.79
7	23.26	.	17.17	18.16
8	20.84	.	17.77	23.81
9	15.79	.	16.40	17.55
10	4.01	.	16.81	22.15
11	18.52	.	14.91	24.15
12	20.91	.	16.58	20.36
13	18.14	.	12.83	12.32
14	20.59	.	9.77	22.14
15	19.60	.	17.03	22.03
16	18.21	.	16.44	23.44
17	22.11	.	15.76	21.66
18	23.26	.	14.26	21.82
19	19.46	.	16.18	18.52
20	20.77	.	16.33	17.09
21	22.28	.	16.27	21.44
22	22.19	.	13.46	17.84
23	22.22	.	16.58	18.12
24	12.86	.	16.33	17.03
25	20.49	.	16.18	12.30
26	17.62	.	16.24	13.66
27	22.06	.	16.63	20.76
28	21.22	.	15.27	21.16
29	21.70	.	16.43	15.87
30	21.54	.	15.15	21.33
31	21.52	.	15.82	20.11
TT Monthly Totals	624.70	.	495.28	618.90
 Daily Means	20.15	.	15.98	19.96
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: MARZO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	22.87	23.18	14.69
2	.	22.31	23.21	23.96
3	.	21.50	21.84	23.75
4	.	15.64	19.32	22.03
5	.	21.48	22.14	23.22
6	.	21.78	21.87	23.89
7	.	21.68	21.50	22.82
8	.	21.46	21.36	22.67
9	.	21.06	18.94	22.50
10	.	21.43	21.55	22.83
11	.	21.40	21.04	22.58
12	.	21.18	16.60	19.83
13	.	21.42	20.74	22.52
14	.	19.39	21.97	22.54
15	.	15.18	21.51	21.49
16	.	20.85	21.47	21.99
17	.	20.67	20.62	21.12
18	.	20.06	20.26	21.27
19	.	20.09	20.11	21.63
20	.	15.80	11.85	20.47
21	.	4.03	5.60	7.47
22	.	1.69	10.83	18.74
23	.	21.62	15.33	16.77
24	.	21.32	19.49	20.10
25	.	20.52	19.46	19.18
26	.	20.34	15.53	15.71
27	.	20.28	18.76	19.43
28	.	18.54	18.35	18.82
29	.	.	18.39	14.98
30	.	.	17.59	17.27
31	.	.	17.26	17.59
TT Monthly Totals	.	.	587.66	623.86
 Daily Means	.	19.13	18.96	20.12
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: MARZO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	34°58' S	35°58' S	36°46' S	37°24' S
Longitude	71°14' W	72°20' W	73°03' W	72°26' W
Elevation	228 m	142 m	12 m	109 m
Station	CURICO	CAUQUENES	CONCEPCION	LOS ANGELES
Date				
1	18.45	.	24.51	.
2	18.83	.	24.05	23.35
3	18.56	.	23.74	.
4	20.55	.	18.17	.
5	21.84	.	23.59	22.85
6	22.10	.	23.54	26.51
7	21.11	.	22.91	.
8	20.14	.	15.77	20.98
9	20.90	.	10.20	8.27
10	.	.	4.87	5.07
11	.	.	10.18	7.10
12	.	.	17.31	10.24
13	17.41	.	22.65	21.97
14	22.82	.	21.52	21.09
15	18.17	.	22.16	24.73
16	21.29	.	21.02	20.00
17	20.86	.	20.98	20.43
18	15.24	.	22.05	21.47
19	21.01	.	21.04	20.10
20	20.13	.	18.04	18.78
21	10.39	.	19.95	19.69
22	5.33	.	15.55	13.44
23	8.69	.	18.06	22.12
24	20.14	.	19.86	23.09
25	19.62	.	15.36	22.33
26	17.76	.	18.25	17.79
27	18.96	.	19.02	.
28	14.24	.	18.07	.
29	15.72	.	18.30	18.32
30	13.94	.	4.66	11.25
31	16.68	.	11.40	6.66
TT Monthly Totals	.	.	566.79	.
 Daily Means	17.89	.	18.28	.
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: MARZO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	5.64			
2	13.30			
3	12.51			
4	14.02			
5	15.52			
6	10.53			
7	14.44			
8	15.92			
9	14.19			
10	15.31			
11	11.04			
12	15.52			
13	6.97			
14	11.22			
15	7.37			
16	7.12			
17	14.93			
18	10.53			
19	11.78			
20	13.56			
21	13.68			
22	10.17			
23	5.18			
24	8.39			
25	8.65			
26	9.75			
27	11.85			
28	11.85			
29	9.72			
30	6.11			
31	10.40			
TT Monthly Totals	347.18			
 Daily Means	11.20			
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO			
Instruments	PSP EPPLEY			

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	.	17.81	17.36
2	.	.	17.41	18.17
3	.	.	17.24	5.32
4	.	.	8.02	9.91
5	.	.	17.57	17.32
6	.	.	17.33	15.68
7	.	.	11.48	10.15
8	.	.	16.84	17.18
9	.	.	17.09	6.25
10	.	.	5.16	9.27
11	.	.	14.82	16.06
12	.	.	11.80	12.63
13	.	.	5.30	2.64
14	.	.	10.30	10.21
15	.	.	15.12	15.34
16	.	.	15.35	14.45
17	.	.	5.00	13.26
18	.	.	13.21	16.00
19	.	.	10.69	15.14
20	.	.	15.13	15.97
21	.	.	14.32	14.14
22	.	.	1.59	1.82
23	.	.	15.01	15.29
24	.	.	15.23	15.57
25	.	.	13.98	14.84
26	.	.	13.67	15.19
27	.	.	14.10	14.32
28	.	.	11.37	14.71
29	.	.	14.54	13.72
30	.	.	14.87	8.00
31				
TT Monthly Totals	.	.	391.38	385.92
 Daily Means	.	.	13.05	12.86
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	38°45' S	41°25' S	42°55' S	45°35' S
Longitude	72°38' W	73°05' W	72°43' W	72°07' W
Elevation	114 m	85 m	7 m	310 m
Station	TEMUCO	PUERTO MONTT	CHAITEN	COYHAIQUE
Date				
1	12.59	2.46	1.82	8.27
2	14.85	12.96	2.30	14.81
3	16.29	16.77	15.03	14.45
4	16.31	16.61	15.97	14.07
5	16.84	15.17	15.46	9.67
6	16.41	13.92	14.71	13.28
7	14.80	9.36	1.45	13.14
8	4.39	4.74	14.68	13.02
9	9.87	5.85	6.19	10.32
10	3.47	6.30	1.18	12.71
11	15.05	14.26	6.87	10.18
12	14.43	13.37	14.16	5.69
13	3.33	12.24	6.74	5.61
14	7.93	4.25	6.59	11.83
15	12.13	13.34	10.79	11.04
16	7.08	11.77	13.50	7.33
17	12.61	12.14	13.28	7.67
18	8.30	4.76	10.58	7.09
19	9.45	4.78	2.93	6.02
20	7.58	7.95	4.64	9.21
21	3.97	3.19	5.59	4.29
22	7.45	8.27	1.72	8.74
23	5.01	7.41	6.08	10.38
24	9.72	7.51	4.86	3.32
25	8.27	9.97	4.46	6.91
26	6.68	5.61	3.58	2.99
27	9.23	9.40	1.13	9.09
28	12.65	12.49	7.88	9.53
29	11.89	11.85	11.08	7.83
30	6.81	9.33	11.09	9.31
31				
TT Monthly Totals	305.42	288.04	236.34	277.82
 Daily Means	10.18	9.60	7.88	9.26
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	9.65			
2	6.85			
3	0.62			
4	11.31			
5	6.68			
6	9.00			
7	7.39			
8	5.91			
9	9.76			
10	8.51			
11	3.67			
12	6.76			
13	8.80			
14	6.09			
15	1.61			
16	4.16			
17	8.49			
18	7.34			
19	4.93			
20	7.25			
21	2.05			
22	6.55			
23	7.42			
24	5.67			
25	3.83			
26	1.85			
27	4.16			
28	4.88			
29	1.94			
30	3.71			
31				
TT Monthly Totals	176.84			
 Daily Means	5.89			
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO			
Instruments	PSP EPPLEY			

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	18°20' S	22°29' S	23°26' S	27°09' S
Longitude	70°20' W	68°54' W	70°26' W	109°25' W
Elevation	58 m	2270 m	135 m	51 m
Station	ARICA	CALAMA	ANTOFAGASTA	ISLA DE PASCUA
Date				
1	15.99	14.93	12.97	12.40
2	17.54	17.46	10.75	9.48
3	12.31	17.12	11.48	6.70
4	15.37	13.76	5.95	15.78
5	15.54	14.63	10.76	15.29
6	13.03	17.84	11.22	13.89
7	14.00	17.84	11.53	9.76
8	9.20	17.88	12.05	7.41
9	.	17.19	10.69	14.60
10	.	17.82	12.40	14.14
11	15.00	17.87	12.37	.
12	15.92	17.23	12.29	.
13	7.63	17.34	12.28	.
14	13.63	17.06	11.93	.
15	11.80	16.97	12.11	.
16	15.69	16.53	12.23	.
17	15.04	17.36	11.96	.
18	9.50	16.66	9.80	.
19	.	15.34	10.34	.
20	.	16.93	11.31	.
21	.	15.40	11.95	.
22	11.08	.	10.02	.
23	8.65	.	10.39	.
24	10.78	.	6.31	.
25	14.87	16.32	11.58	.
26	14.54	16.23	11.55	.
27	13.70	16.32	10.25	.
28	15.80	16.27	11.27	.
29	15.38	16.09	9.13	.
30	16.11	15.05	11.08	.
31	10.33	15.57	6.99	.
TT Monthly Totals	.	.	336.93	.
 Daily Means	13.40	16.54	10.87	.
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	.	12.89	13.31
2	.	.	13.71	12.20
3	.	.	13.22	13.61
4	.	.	13.61	13.26
5	.	.	3.52	2.76
6	.	.	5.66	6.80
7	.	.	6.75	8.13
8	.	.	4.01	4.82
9	.	.	6.57	10.58
10	.	.	11.52	10.99
11	.	.	7.25	9.59
12	.	.	7.91	12.23
13	.	.	6.95	6.26
14	.	.	7.44	4.40
15	.	.	3.36	7.55
16	.	.	9.34	10.37
17	.	.	3.08	7.48
18	.	.	11.27	12.17
19	.	.	8.45	11.51
20	.	.	7.68	5.59
21	.	.	1.94	3.79
22	.	.	11.13	10.43
23	.	.	10.86	9.18
24	.	.	7.21	7.32
25	.	.	6.72	5.81
26	.	.	6.75	4.14
27	.	.	10.26	7.65
28	.	.	8.15	3.19
29	.	.	1.98	2.95
30	.	.	1.71	9.47
31	.	.	3.59	10.35
TT Monthly Totals	.	.	234.47	257.87
 Daily Means	.	.	7.56	8.32
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	34°58' S	35°58' S	36°46' S	37°24' S
Longitude	71°14' W	72°20' W	73°03' W	72°26' W
Elevation	228 m	142 m	12 m	109 m
Station	CURICO	CAUQUENES	CONCEPCION	LOS ANGELES
Date				
1	13.09	.	6.32	5.50
2	11.64	.	12.18	11.49
3	4.93	.	12.38	12.31
4	12.49	.	12.35	12.28
5	2.68	.	4.06	4.71
6	7.18	.	4.56	5.19
7	7.26	.	7.85	3.85
8	3.38	.	3.50	2.96
9	3.26	.	8.22	8.90
10	2.95	.	11.50	8.82
11	5.01	.	11.19	8.85
12	11.07	.	4.31	3.12
13	5.01	.	3.60	4.03
14	3.04	.	3.54	.
15	5.51	.	3.37	.
16	8.99	.	5.61	.
17	1.49	.	3.81	3.46
18	11.49	.	11.06	9.88
19	6.36	.	5.46	5.60
20	3.93	.	1.03	0.66
21	1.50	.	1.10	0.51
22	10.31	.	3.15	5.13
23	8.83	.	8.53	6.31
24	7.06	.	2.72	3.75
25	4.76	.	1.69	1.21
26	1.80	.	0.89	.
27	4.75	.	1.49	1.90
28	6.26	.	1.07	0.98
29	1.57	.	7.22	6.04
30	5.72	.	8.02	7.29
31	9.87	.	8.81	5.99
TT Monthly Totals	193.18	.	180.58	.
 Daily Means	6.23	.	5.83	5.58
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	38°45' S	41°25' S	42°55' S	45°35' S
Longitude	72°38' W	73°05' W	72°43' W	72°07' W
Elevation	114 m	85 m	7 m	310 m
Station	TEMUCO	PUERTO MONTT	CHAITEN	COYHAIQUE
Date				
1	.	2.81	8.06	8.42
2	.	4.80	2.07	8.94
3	.	10.31	5.80	3.99
4	.	10.66	10.25	7.89
5	.	3.12	7.46	4.19
6	.	5.08	3.89	5.50
7	.	8.92	7.25	1.50
8	.	2.24	1.48	2.64
9	.	8.89	8.86	7.58
10	.	6.38	9.25	3.31
11	.	9.46	9.27	6.74
12	.	9.26	9.12	4.14
13	.	4.03	4.22	7.31
14	.	6.66	8.57	6.60
15	.	9.00	7.59	6.86
16	.	0.96	0.54	2.39
17	.	3.23	3.75	5.33
18	.	2.43	1.13	4.07
19	.	1.96	1.07	3.16
20	.	2.46	1.27	4.10
21	.	3.14	1.47	4.77
22	.	3.34	1.65	0.62
23	.	1.02	0.32	1.11
24	.	1.30	2.50	1.83
25	.	1.11	1.37	4.12
26	.	2.61	6.34	5.72
27	.	0.96	0.36	2.16
28	.	2.81	0.80	3.58
29	.	4.62	0.58	.
30	.	2.28	1.83	3.34
31	.	2.20	0.94	2.61
TT Monthly Totals	.	138.05	129.06	.
 Daily Means	.	4.45	4.16	4.48
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: **MAYO**Years: **2001**Country: **CHILE**

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	4.31			
2	5.52			
3	1.79			
4	2.34			
5	1.08			
6	2.95			
7	5.36			
8	0.81			
9	1.71			
10	4.83			
11	3.25			
12	1.90			
13	1.77			
14	1.99			
15	0.79			
16	1.51			
17	3.02			
18	2.27			
19	2.45			
20	0.70			
21	2.56			
22	2.77			
23	3.53			
24	0.58			
25	3.30			
26	3.48			
27	3.27			
28	0.97			
29	3.56			
30	2.99			
31	3.76			
TT Monthly Totals	81.09			
 Daily Means	2.62			
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY			

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	18°20' S	22°29' S	23°26' S	27°09' S
Longitude	70°20' W	68°54' W	70°26' W	109°25' W
Elevation	58 m	2270 m	135 m	51 m
Station	ARICA	CALAMA	ANTOFAGASTA	ISLA DE PASCUA
Date				
1	14.88	.	10.46	.
2	9.63	.	9.83	.
3	11.94	.	9.92	.
4	9.70	.	5.21	.
5	13.28	.	11.47	.
6	10.83	.	11.06	.
7	8.70	.	10.48	.
8	7.20	.	9.93	.
9	9.12	.	10.06	.
10	11.75	.	9.18	.
11	14.16	.	10.73	.
12	6.75	.	11.72	.
13	15.40	.	11.02	.
14	11.75	.	11.19	.
15	9.45	.	10.06	.
16	9.34	.	10.44	.
17	9.90	.	6.22	.
18	10.02	.	11.60	.
19	10.37	.	12.29	.
20	7.53	.	11.75	.
21	9.75	.	11.76	.
22	8.19	.	11.45	.
23	10.23	.	11.39	.
24	8.98	.	11.57	.
25	13.53	.	12.08	.
26	12.08	.	11.35	.
27	13.11	.	5.63	.
28	10.39	.	9.68	.
29	11.36	.	5.81	.
30	8.73	.	7.98	.
31				
TT Monthly Totals	318.04	.	303.29	.
 Daily Means	10.60	.	10.11	.
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°18' S	28°35' S	33°23' S	34°06' S
Longitude	70°25' W	70°46' W	70°47' W	71°45' W
Elevation	291 m	469 m	475 m	296 m
Station	COPIAPO	VALLENAR	PUDAHUEL	HIDANGO
Date				
1	.	.	9.05	10.77
2	.	.	4.17	9.14
3	.	.	8.18	10.10
4	.	.	7.35	9.83
5	.	.	9.18	8.05
6	.	.	9.73	10.68
7	.	.	9.71	10.29
8	.	.	8.78	9.17
9	.	.	9.40	10.27
10	.	.	8.27	8.61
11	.	.	6.16	3.25
12	.	.	5.41	7.77
13	.	.	1.40	4.28
14	.	.	5.15	5.21
15	.	.	5.49	9.35
16	.	.	9.70	10.15
17	.	.	10.26	10.84
18	.	.	10.34	8.63
19	.	.	10.46	10.63
20	.	.	9.89	10.35
21	.	.	10.13	10.83
22	.	.	6.69	6.63
23	.	.	5.62	6.66
24	.	.	10.24	10.58
25	.	.	10.28	10.40
26	.	.	10.17	9.77
27	.	.	9.38	3.60
28	.	.	3.97	5.86
29	.	.	7.51	9.44
30	.	.	4.95	3.70
31				
TT Monthly Totals	.	.	237.04	254.81
 Daily Means	.	.	7.90	8.49
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	34°58' S	35°58' S	36°46' S	37°24' S
Longitude	71°14' W	72°20' W	73°03' W	72°26' W
Elevation	228 m	142 m	12 m	109 m
Station	CURICO	CAUQUENES	CONCEPCION	LOS ANGELES
Date				
1	9.92	.	7.65	6.92
2	9.04	.	9.45	6.23
3	6.39	.	9.38	8.18
4	9.40	.	4.62	6.48
5	6.11	.	3.62	1.84
6	5.64	.	0.79	1.63
7	8.95	.	3.59	3.87
8	1.99	.	6.09	4.03
9	7.19	.	8.38	6.88
10	5.05	.	6.07	5.72
11	3.80	.	5.83	3.98
12	5.17	.	3.36	1.49
13	0.66	.	1.03	1.79
14	4.86	.	7.73	4.71
15	8.01	.	7.26	6.88
16	9.40	.	9.40	8.78
17	9.83	.	9.62	8.95
18	9.80	.	9.44	9.00
19	9.42	.	8.58	8.65
20	9.35	.	8.77	8.18
21	6.93	.	9.25	8.82
22	5.50	.	4.28	3.95
23	6.93	.	7.89	.
24	4.74	.	8.53	.
25	2.52	.	8.74	.
26	4.77	.	9.28	8.66
27	8.04	.	6.12	6.48
28	3.02	.	4.35	2.32
29	6.07	.	3.14	2.95
30	1.24	.	0.84	1.07
31				
TT Monthly Totals	189.75	.	193.09	.
 Daily Means	6.33	.	6.44	5.50
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO	PIRANOMETRO
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	38°45' S	41°25' S	42°55' S	45°35' S
Longitude	72°38' W	73°05' W	72°43' W	72°07' W
Elevation	114 m	85 m	7 m	310 m
Station	TEMUCO	PUERTO MONTT	CHAITEN	COYHAIQUE
Date				
1	.	2.19	1.52	0.35
2	.	4.46	1.93	3.32
3	.	4.17	3.28	2.51
4	.	2.68	1.95	3.68
5	.	1.25	0.68	1.97
6	.	1.31	0.58	0.90
7	.	0.85	1.04	1.31
8	.	1.40	2.87	4.58
9	.	4.57	6.15	5.73
10	.	4.50	4.82	2.61
11	.	2.15	1.42	1.55
12	.	1.86	1.55	3.58
13	.	4.64	.	3.04
14	.	2.95	.	2.31
15	.	7.03	.	3.48
16	.	7.48	.	2.45
17	.	6.76	.	4.39
18	.	7.49	.	4.61
19	.	3.19	.	4.25
20	5.94	2.09	.	4.04
21	5.14	2.27	.	2.30
22	2.81	2.19	.	1.85
23	4.23	5.92	.	3.97
24	4.73	3.55	.	2.59
25	4.98	1.78	.	4.90
26	6.23	3.25	.	2.61
27	2.30	1.89	.	2.56
28	1.25	2.85	.	3.73
29	1.06	2.82	.	3.57
30	0.77	4.23	.	2.74
31				
TT Monthly Totals	.	103.77	.	91.47
 Daily Means	.	3.46	.	3.05
SS Monthly Totals				
 Daily Means				
Types of Instruments	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY	PIRANOMETRO PSP EPPLEY

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	2.01			
2	2.86			
3	2.96			
4	2.66			
5	3.25			
6	0.89			
7	2.58			
8	2.31			
9	1.28			
10	1.73			
11	1.81			
12	1.10			
13	0.90			
14	1.23			
15	1.83			
16	2.59			
17	2.52			
18	2.47			
19	2.73			
20	2.58			
21	2.97			
22	2.65			
23	1.88			
24	2.36			
25	2.68			
26	0.54			
27	1.43			
28	2.65			
29	2.59			
30	2.27			
31				
TT Monthly Totals	64.29			
 Daily Means	2.14			
SS Monthly Totals				
 Daily Means				
Types of	PIRANOMETRO			
Instruments	PSP EPPLEY			

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

Month: ENERO

Years: 2001

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	10.1	7.0	10.8
2	4.0	7.4	10.7	8.8
3	3.2	0.0	11.0	10.8
4	7.2	6.1	11.9	10.2
5	4.9	6.2	10.3	10.8
6	4.7	8.3	11.4	5.0
7	10.4	9.0	12.1	11.2
8	11.1	11.3	11.1	11.3
9	11.0	11.7	11.5	10.7
10	6.8	11.5	10.9	9.0
11	6.7	5.9	2.4	9.7
12	9.6	7.3	8.7	6.9
13	11.1	11.8	10.6	9.7
14	6.8	8.9	10.4	5.4
15	8.7	11.7	11.4	10.2
16	11.8	11.8	12.3	9.8
17	11.5	11.8	12.5	8.5
18	11.5	11.8	12.5	11.1
19	11.1	11.7	12.5	9.4
20	6.6	6.9	10.3	10.2
21	2.1	11.2	12.0	10.0
22	8.7	11.3	11.7	10.9
23	9.5	8.8	11.1	10.4
24	10.1	10.1	10.9	9.3
25	8.5	11.5	11.3	10.4
26	7.3	11.5	11.8	10.0
27	6.2	9.8	11.3	9.9
28	4.2	9.4	11.9	9.6
29	5.1	9.8	10.6	9.0
30	9.8	11.6	11.4	10.4
31	10.6	11.2	11.7	10.4
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	248.6	297.4	337.2	299.8
 Daily Means	8.0	9.6	10.9	9.7
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	11.6	8.5	12.3	1.8
2	10.9	8.5	10.2	5.7
3	13.1	7.9	8.8	8.3
4	7.5	8.2	9.8	7.6
5	12.6	8.3	11.1	5.3
6	9.8	8.0	.	4.2
7	11.1	11.3	.	11.1
8	12.1	12.4	11.7	11.8
9	10.9	11.9	12.6	12.6
10	12.6	12.3	12.6	13.0
11	11.9	9.5	11.1	8.5
12	11.9	12.0	12.4	8.7
13	7.2	10.1	.	10.9
14	11.6	10.1	.	11.1
15	12.3	8.9	10.0	7.5
16	12.9	7.9	9.6	5.6
17	11.8	7.8	7.9	2.0
18	11.1	8.7	12.7	8.8
19	10.2	9.4	12.7	7.2
20	8.3	7.7	.	5.8
21	6.3	7.8	.	7.7
22	12.6	10.1	12.9	12.7
23	12.7	9.0	12.7	7.8
24	12.9	9.7	12.6	12.6
25	10.9	10.3	12.0	6.0
26	9.1	8.1	10.0	3.5
27	12.5	8.9	.	4.7
28	11.5	7.7	.	10.1
29	12.7	9.2	12.3	6.0
30	12.3	9.0	12.5	11.0
31	9.9	11.9	12.4	12.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	344.8	291.1	.	251.8
 Daily Means	11.1	9.4	.	8.1
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	11.7	12.6	11.0	2.8
2	11.8	11.0	11.0	3.8
3	11.7	0.6	9.1	6.3
4	11.7	12.7	11.0	9.8
5	11.4	12.7	11.0	8.2
6	11.4	12.0	10.6	10.0
7	6.7	7.7	4.7	10.2
8	11.7	10.3	10.1	9.4
9	8.9	4.7	1.2	8.3
10	11.7	12.6	10.6	9.9
11	11.5	12.8	10.8	10.0
12	11.5	12.4	10.7	9.9
13	11.5	11.6	10.7	7.2
14	11.5	12.5	10.7	9.1
15	11.5	12.6	10.7	9.9
16	11.4	12.3	10.6	3.2
17	11.3	12.5	10.6	9.2
18	11.4	12.4	10.6	10.2
19	11.4	12.2	10.6	10.7
20	11.4	12.3	10.7	6.6
21	11.4	12.2	10.6	9.2
22	11.4	11.8	10.3	6.6
23	11.4	12.0	10.3	0.9
24	11.4	12.2	10.2	9.6
25	11.4	12.1	10.2	9.1
26	11.4	12.1	10.1	9.0
27	11.4	11.7	10.2	7.6
28	11.4	12.0	10.2	2.0
29	11.3	12.0	10.2	6.9
30	11.3	11.6	10.2	7.4
31	11.2	12.0	10.2	8.6
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	348.1	352.2	309.7	241.6
 Daily Means	11.2	11.4	10.0	7.8
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	0.7	.	10.5	12.6
2	11.1	.	8.0	9.9
3	7.0	.	9.9	11.7
4	12.8	.	11.0	12.8
5	11.1	.	10.8	12.7
6	5.8	.	10.7	10.2
7	7.2	.	3.6	2.6
8	.	.	10.3	7.3
9	.	.	1.3	5.6
10	.	.	12.8	12.5
11	.	.	12.8	12.9
12	.	10.0	12.9	13.1
13	.	11.6	13.3	11.5
14	.	.	12.9	13.0
15	.	.	12.9	13.2
16	.	.	11.5	12.7
17	.	12.8	13.2	13.0
18	.	.	12.8	13.0
19	.	.	12.9	13.0
20	.	.	12.7	12.9
21	.	.	12.5	11.6
22	.	11.9	11.9	12.6
23	7.7	.	12.7	11.7
24	1.1	.	12.7	13.0
25	6.0	.	12.7	12.9
26	5.0	.	12.1	12.2
27	5.0	.	12.0	9.1
28	10.0	.	12.7	12.6
29	9.2	.	12.9	13.0
30	11.2	.	5.4	0.7
31	12.7	.	8.8	12.9
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	343.2	348.5
 Daily Means	.	.	11.1	11.2
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07' W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	0.0	12.4	10.0	8.4
2	4.7	11.9	9.2	2.0
3	5.5	11.4	7.4	1.4
4	9.7	0.6	4.0	4.8
5	4.4	1.6	4.2	6.4
6	10.0	3.5	2.0	4.4
7	6.9	7.2	3.4	4.1
8	6.8	4.6	3.3	9.0
9	9.0	6.9	4.5	10.0
10	12.5	9.9	8.3	10.1
11	12.9	11.5	2.6	6.9
12	12.1	7.2	4.3	5.4
13	12.2	11.8	9.0	10.0
14	13.1	12.2	13.7	6.8
15	13.0	12.4	9.7	12.1
16	13.0	7.7	10.7	9.7
17	12.6	10.3	11.7	10.9
18	12.9	12.7	13.7	8.9
19	13.1	12.8	11.7	11.8
20	12.5	7.0	3.3	2.2
21	5.4	7.2	2.9	1.8
22	12.8	4.0	0.7	9.8
23	12.7	9.7	3.5	10.9
24	12.9	11.3	13.2	11.2
25	12.9	13.0	7.7	7.9
26	12.4	11.5	9.1	5.7
27	9.8	5.0	3.9	9.3
28	12.8	12.0	7.7	2.1
29	12.2	0.5	0.2	0.8
30	3.9	7.6	7.3	4.6
31	13.5	12.4	6.3	3.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	318.2	269.8	209.2	212.4
 Daily Means	10.3	8.7	6.7	6.9
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ENERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	12.3	2.1	.	
2	12.8	9.8	7.8	
3	3.5	8.3	4.9	
4	11.5	0.0	5.2	
5	11.0	9.6	0.0	
6	5.7	4.0	.	
7	12.7	11.2	.	
8	12.4	7.4	9.2	
9	12.9	10.7	4.4	
10	12.2	10.8	10.0	
11	11.4	9.7	0.2	
12	12.1	1.7	6.9	
13	12.1	13.3	.	
14	8.4	4.7	.	
15	12.8	10.1	2.1	
16	12.5	11.5	6.7	
17	12.6	8.0	9.8	
18	9.8	6.4	4.2	
19	12.4	2.4	0.1	
20	3.9	0.9	.	
21	7.3	3.4	.	
22	11.1	6.8	7.9	
23	13.1	10.7	9.2	
24	9.4	2.3	3.4	
25	11.4	10.9	7.6	
26	11.1	5.8	0.4	
27	10.1	11.1	.	
28	3.2	2.6	.	
29	3.8	4.7	3.8	
30	6.3	10.8	6.2	
31	7.2	3.2	2.0	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	309.0	214.9	.	
 Daily Means	10.0	6.9	.	
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	

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

Month: FEBRERO

Years: 2001

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	8.7	9.8	9.1	10.3
2	7.6	2.6	9.9	8.4
3	6.5	9.4	7.6	9.3
4	8.2	9.7	7.6	8.8
5	10.7	9.5	11.2	10.4
6	6.4	10.0	10.3	10.4
7	6.7	6.6	12.0	7.8
8	7.9	9.2	11.0	8.9
9	8.8	10.4	12.0	8.6
10	7.4	8.7	10.8	7.7
11	5.7	8.6	4.5	10.3
12	7.3	8.6	9.2	10.6
13	6.0	11.1	10.2	10.0
14	7.0	8.5	8.7	11.5
15	9.2	11.1	11.3	.
16	5.3	10.1	10.0	.
17	3.7	10.2	9.6	10.9
18	10.0	11.5	11.1	10.9
19	7.8	10.8	11.5	11.6
20	9.2	11.1	11.2	11.3
21	11.0	11.0	10.8	11.4
22	11.0	11.0	11.1	11.2
23	9.5	10.7	11.0	11.4
24	9.9	9.5	9.1	9.2
25	10.2	10.6	10.0	10.4
26	9.0	6.7	8.8	10.5
27	8.1	7.1	7.1	10.9
28	2.5	7.1	6.6	10.2
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	221.3	261.2	273.3	.
 Daily Means	7.9	9.3	9.8	10.1
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	5.2	10.8	12.4	10.2
2	8.1	8.7	8.8	11.2
3	7.9	9.1	.	8.8
4	3.1	9.9	.	12.3
5	11.4	9.3	12.8	9.8
6	4.2	9.2	10.7	5.9
7	11.0	7.6	8.2	0.9
8	7.5	8.7	9.9	3.3
9	6.4	11.8	12.0	7.2
10	4.9	11.6	.	12.0
11	4.1	7.4	.	10.4
12	9.9	8.5	11.9	10.8
13	8.8	10.4	12.1	11.5
14	6.0	9.9	11.8	7.4
15	2.8	11.1	11.9	5.0
16	10.4	9.7	9.5	5.7
17	10.7	9.0	.	10.6
18	2.9	11.5	.	7.9
19	9.2	8.9	11.4	8.3
20	11.8	9.0	10.2	8.2
21	11.1	6.8	7.0	6.2
22	11.3	7.9	8.6	5.3
23	10.2	9.1	12.0	4.6
24	9.4	7.4	.	3.9
25	8.4	7.9	.	5.8
26	8.5	8.2	12.3	4.3
27	11.1	8.7	10.2	6.5
28	8.8	9.7	11.2	8.6
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	225.1	257.8	.	212.6
 Daily Means	8.0	9.2	.	7.6
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	11.0	12.0	10.1	3.3
2	11.2	12.0	10.1	8.9
3	11.2	12.0	10.0	9.7
4	11.1	11.8	10.0	10.5
5	11.2	11.8	10.2	10.3
6	11.2	12.0	10.2	7.7
7	11.1	12.0	10.1	8.2
8	11.0	12.0	10.0	11.3
9	11.2	11.8	10.1	7.9
10	11.2	11.9	9.9	5.7
11	11.2	12.0	10.0	7.7
12	11.1	12.0	10.0	9.0
13	11.0	11.6	9.8	9.5
14	11.2	11.5	9.9	10.1
15	11.2	11.6	10.0	8.9
16	11.1	11.5	9.8	10.0
17	11.1	11.6	9.6	9.8
18	10.9	11.4	9.6	11.0
19	10.9	11.3	9.6	10.3
20	9.4	8.9	7.3	6.3
21	10.0	11.1	9.7	5.8
22	10.7	11.1	9.7	0.4
23	9.3	10.6	9.7	1.6
24	10.9	10.9	9.7	5.2
25	10.8	11.2	9.6	0.9
26	10.8	11.1	9.7	8.8
27	10.8	10.9	9.6	6.3
28	10.7	11.0	9.6	3.0
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	304.5	320.6	273.6	208.1
 Daily Means	10.9	11.5	9.8	7.4
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	11.2	.	12.9	12.6
2	11.6	.	7.8	12.3
3	12.0	.	12.7	12.7
4	11.7	.	12.9	12.0
5	0.0	.	12.7	12.3
6	12.3	.	12.8	12.5
7	12.3	.	12.6	12.4
8	12.3	.	12.7	12.4
9	11.8	.	12.0	7.4
10	11.6	.	12.5	12.4
11	11.5	.	10.2	12.3
12	10.7	.	12.4	12.0
13	7.8	.	12.3	12.0
14	0.0	.	12.5	9.4
15	9.2	.	12.4	12.0
16	2.9	.	12.5	12.0
17	0.0	.	12.7	12.5
18	1.8	.	11.8	12.0
19	3.8	.	11.7	11.7
20	0.0	.	5.3	11.9
21	8.5	.	12.6	11.7
22	5.1	.	11.8	10.8
23	6.8	.	12.4	11.0
24	10.1	.	12.4	11.2
25	10.7	.	11.7	10.7
26	9.9	.	11.6	11.2
27	3.5	.	9.7	7.6
28	10.0	.	11.5	11.0
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	219.1	.	329.1	322.0
 Daily Means	7.8	.	11.8	11.5
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07' W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	10.1	.	1.5	7.3
2	12.4	.	9.1	7.3
3	12.8	.	2.4	5.0
4	12.6	.	9.1	4.5
5	11.5	.	5.0	10.3
6	12.5	.	7.7	3.4
7	12.7	.	12.3	10.8
8	12.5	.	9.0	7.8
9	6.7	.	7.3	6.8
10	12.5	.	5.7	4.3
11	12.6	.	2.3	1.3
12	12.6	.	12.7	12.1
13	11.9	.	6.1	12.1
14	12.4	.	5.2	4.4
15	12.5	.	10.6	6.2
16	12.4	.	8.3	3.6
17	12.3	.	7.2	11.8
18	11.9	.	11.6	2.6
19	8.8	.	9.1	8.4
20	10.7	.	0.6	2.1
21	11.2	.	5.9	11.6
22	12.1	.	3.5	7.5
23	12.0	.	2.0	6.4
24	9.3	.	11.4	6.5
25	12.4	.	7.5	3.1
26	3.8	.	3.1	6.6
27	10.3	.	0.0	9.8
28	3.7	.	4.7	4.7
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	309.2	.	180.9	188.3
 Daily Means	11.0	.	6.5	6.7
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRERO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	10.3	4.5	5.4	
2	2.8	12.6	4.6	
3	10.7	3.5	0.0	
4	6.3	8.0	0.0	
5	12.3	9.4	10.0	
6	6.0	9.4	5.3	
7	12.1	4.1	5.3	
8	9.7	3.6	1.4	
9	10.1	6.6	6.4	
10	8.5	4.3	0.0	
11	2.3	3.0	0.0	
12	11.3	10.6	12.1	
13	12.6	10.5	6.2	
14	10.4	9.5	5.3	
15	11.0	4.0	4.5	
16	11.5	7.3	13.0	
17	12.7	12.6	0.0	
18	6.8	4.4	0.0	
19	10.7	0.0	0.8	
20	10.4	3.3	7.3	
21	9.1	3.8	6.1	
22	10.6	9.6	5.9	
23	9.6	4.3	5.8	
24	5.6	8.4	0.0	
25	7.2	0.0	0.0	
26	6.9	5.3	10.9	
27	8.7	7.0	10.9	
28	7.8	10.3	8.7	
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	254.0	179.9	135.9	
 Daily Means	9.1	6.4	4.9	
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	

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

Month: MARZO

Years: 2001

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	9.4	10.1	5.9	10.2
2	9.3	10.4	7.9	8.2
3	6.3	10.7	8.2	9.7
4	8.1	9.8	11.3	10.8
5	10.0	10.7	10.6	10.2
6	10.6	10.2	5.1	9.5
7	8.1	5.9	10.8	9.4
8	8.4	9.7	11.0	10.0
9	3.3	6.3	8.5	6.9
10	6.0	9.9	8.4	9.2
11	5.7	4.6	8.2	6.4
12	8.0	9.9	9.6	9.3
13	4.1	10.0	9.7	4.5
14	6.8	6.4	7.7	1.3
15	5.6	9.4	8.0	10.0
16	6.0	7.8	7.4	10.1
17	9.3	4.4	7.1	8.8
18	10.6	10.1	10.5	8.7
19	6.2	9.4	6.3	10.1
20	8.6	8.6	7.9	10.4
21	10.5	10.0	10.5	9.7
22	10.4	10.0	9.4	5.7
23	10.2	10.2	11.0	9.6
24	9.3	4.7	11.1	10.1
25	6.1	8.8	11.2	10.3
26	6.6	10.3	11.2	10.3
27	10.6	10.5	11.3	9.4
28	10.1	6.5	11.3	7.4
29	10.5	10.3	11.2	9.6
30	10.4	10.4	11.3	8.6
31	10.3	10.5	11.1	9.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	255.4	276.5	290.7	273.6
 Daily Means	8.2	8.9	9.4	8.8
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

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

Month: **MARZO**Years: **2001**Country: **CHILE**

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	3.5	10.2	11.2	11.5
2	10.5	8.6	11.2	10.7
3	10.6	8.9	.	9.1
4	10.9	6.8	.	3.7
5	11.5	10.3	11.5	9.0
6	11.3	8.8	11.1	10.1
7	9.4	7.3	11.0	8.6
8	10.8	7.3	9.8	7.7
9	6.6	7.1	9.4	9.0
10	9.2	8.6	11.0	10.9
11	11.2	10.3	11.0	10.8
12	9.8	10.3	10.7	9.7
13	4.6	9.0	11.0	6.5
14	10.3	8.1	8.3	0.7
15	10.5	6.9	5.8	0.0
16	11.1	10.1	8.6	10.3
17	9.0	10.6	10.9	6.3
18	10.0	9.2	10.5	7.5
19	7.8	10.0	10.3	5.8
20	9.4	6.1	6.8	0.0
21	10.9	6.7	0.0	0.0
22	9.8	4.7	3.6	2.2
23	9.9	10.4	10.8	10.5
24	8.2	10.1	.	10.4
25	5.1	9.8	.	9.2
26	3.5	6.7	8.8	10.5
27	9.5	9.8	10.7	8.4
28	10.9	7.5	7.5	3.1
29	7.8	7.0	6.8	7.6
30	9.9	6.9	6.2	2.1
31	10.0	9.6	.	10.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	283.5	263.7	.	222.0
 Daily Means	9.1	8.5	9.0	7.2
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

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

Month: **MARZO**Years: **2001**Country: **CHILE**

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	10.7	11.0	9.7	5.2
2	10.3	10.7	9.6	1.3
3	10.2	10.7	9.3	7.4
4	7.2	10.1	9.0	4.0
5	10.2	10.6	9.4	2.5
6	10.2	10.8	9.4	8.2
7	10.2	10.7	9.5	3.9
8	10.1	10.8	9.4	7.1
9	10.1	9.2	7.7	0.2
10	10.2	10.5	9.5	0.7
11	10.1	10.4	9.5	0.0
12	8.2	7.0	7.5	7.8
13	10.0	9.9	9.4	9.6
14	10.0	10.5	9.4	6.3
15	10.0	10.8	9.2	8.9
16	9.8	10.2	9.1	9.0
17	9.7	10.3	9.1	7.1
18	9.9	10.5	8.8	3.8
19	9.5	10.1	8.7	0.3
20	2.8	4.0	3.8	2.2
21	0.0	0.0	0.0	4.0
22	1.1	2.5	1.6	3.4
23	7.9	5.9	4.5	1.5
24	9.0	8.4	7.1	4.2
25	10.0	9.3	9.0	4.5
26	6.5	7.4	4.6	3.7
27	9.9	9.2	8.7	7.9
28	10.0	9.8	8.8	2.3
29	9.9	10.0	8.8	5.9
30	9.8	9.0	8.1	0.0
31	9.8	9.6	.	5.7
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	273.3	279.9	.	138.6
 Daily Means	8.8	9.0	7.9	4.5
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

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

Month: MARZO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	11.2	10.6	10.2	11.4
2	10.8	11.7	11.6	11.3
3	10.5	.	11.6	11.3
4	10.7	.	11.5	11.1
5	8.0	10.8	11.7	11.1
6	10.9	11.0	11.7	11.5
7	10.0	10.9	11.1	11.1
8	6.8	10.7	11.1	10.9
9	10.3	11.0	11.1	5.0
10	10.7	.	10.6	0.0
11	2.5	.	8.9	3.8
12	10.8	7.6	9.4	6.8
13	10.1	11.1	7.9	8.2
14	10.4	11.7	10.2	11.2
15	7.5	10.5	7.5	9.9
16	2.6	10.8	10.6	10.8
17	5.6	.	9.5	10.9
18	10.4	.	7.1	9.4
19	9.4	9.7	9.8	10.8
20	8.0	9.2	9.6	6.2
21	0.0	9.0	3.5	5.8
22	9.4	8.5	0.3	2.0
23	7.2	10.6	0.0	6.0
24	6.1	.	9.6	10.1
25	7.4	.	9.6	10.4
26	1.4	7.3	10.0	8.1
27	6.9	10.5	9.7	6.9
28	7.1	9.5	6.2	8.5
29	1.0	4.8	7.4	6.2
30	6.4	10.0	6.5	7.5
31	10.1	.	9.0	3.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	240.2	.	274.5	257.2
 Daily Means	7.7	.	8.9	8.3
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: **MARZO**Years: **2001**Country: **CHILE**

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07' W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	11.2	8.6	2.9	3.0
2	11.4	7.8	0.0	1.4
3	11.6	6.9	4.4	1.0
4	8.4	6.7	5.1	3.1
5	11.2	6.3	3.0	5.4
6	11.6	8.7	7.7	2.9
7	10.9	3.1	0.0	0.0
8	8.0	6.0	0.0	0.0
9	1.6	9.8	0.0	2.8
10	0.0	0.0	11.3	10.1
11	1.7	0.0	4.0	9.8
12	7.0	4.2	0.1	9.4
13	10.5	7.1	9.8	3.9
14	11.0	8.9	6.0	6.1
15	11.0	10.8	9.6	10.9
16	10.8	11.0	6.3	8.0
17	11.2	0.3	0.8	5.8
18	11.0	9.1	5.4	5.6
19	11.0	10.8	9.4	8.1
20	8.7	6.0	6.1	8.6
21	10.6	2.7	8.9	1.7
22	8.2	9.2	10.0	6.7
23	9.3	10.3	7.8	10.0
24	10.6	11.5	6.8	8.4
25	5.8	4.2	1.8	9.9
26	9.7	8.4	0.0	10.0
27	9.9	8.2	6.9	8.9
28	9.6	4.0	8.2	9.9
29	10.0	9.2	7.8	8.9
30	0.0	10.0	5.9	9.7
31	3.4	0.0	0.0	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	266.9	209.8	156.0	190.0
 Daily Means	8.6	6.8	5.0	6.1
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: **MARZO**

Years: **2001**

Country: **CHILE**

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	9.3	1.6	5.7	
2	11.4	5.5	9.2	
3	3.4	5.0	0.0	
4	10.8	8.6	0.0	
5	9.3	7.3	5.4	
6	7.0	4.0	5.5	
7	0.1	8.0	6.6	
8	0.0	9.5	8.4	
9	4.3	8.6	8.5	
10	10.0	8.8	0.0	
11	9.3	5.4	0.0	
12	9.7	9.8	3.8	
13	9.9	2.8	1.2	
14	10.9	5.2	8.1	
15	11.1	2.1	5.4	
16	9.8	2.2	10.4	
17	7.7	9.2	0.0	
18	10.5	4.8	0.0	
19	8.6	7.6	2.1	
20	9.1	9.5	4.6	
21	0.7	9.5	9.1	
22	7.8	6.3	5.0	
23	9.7	0.2	0.2	
24	9.8	5.0	0.0	
25	10.0	5.5	0.0	
26	8.0	5.4	3.9	
27	10.0	9.1	5.9	
28	10.0	9.2	5.6	
29	9.9	6.6	5.8	
30	10.0	1.2	3.4	
31	0.7	6.7	0.0	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	248.8	190.2	123.8	
 Daily Means	8.0	6.1	4.0	
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	
Instruments	CAMPELL	CAMPELL	CAMPELL	
	STOKES	STOKES	STOKES	

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

Month: ABRIL

Years: 2001

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	10.5	10.4	11.1	6.4
2	9.3	10.4	11.1	10.1
3	9.8	10.3	11.1	10.5
4	9.9	10.3	11.1	10.4
5	10.4	10.3	11.0	7.8
6	7.4	10.1	10.7	10.4
7	3.9	5.5	9.1	9.4
8	8.2	8.5	10.0	4.7
9	7.3	1.3	10.9	0.0
10	10.6	10.3	10.8	9.9
11	10.0	10.0	10.3	10.3
12	9.4	9.3	9.7	10.1
13	10.2	10.3	10.5	10.4
14	10.0	7.2	10.9	3.3
15	4.6	2.6	11.0	0.3
16	2.5	0.0	11.0	4.4
17	5.9	4.8	11.2	6.9
18	4.4	4.5	11.2	10.5
19	10.3	10.3	11.1	10.5
20	6.2	7.3	11.2	10.2
21	9.9	6.5	11.1	7.9
22	3.8	1.9	10.9	0.0
23	9.7	7.5	11.0	6.9
24	10.5	7.5	10.8	6.7
25	10.0	10.2	10.8	8.9
26	3.0	10.1	10.9	8.3
27	0.8	9.1	10.3	10.6
28	5.0	3.5	10.2	9.1
29	5.7	9.6	9.0	7.9
30	8.0	9.8	10.4	9.6
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	227.2	229.4	320.4	232.4
 Daily Means	7.6	7.6	10.7	7.7
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	6.8	8.9	.	8.4
2	8.6	4.3	3.8	0.0
3	10.1	8.6	9.0	1.5
4	5.5	7.4	7.2	1.9
5	9.9	8.6	10.4	9.3
6	8.0	8.9	10.6	2.5
7	9.3	8.2	.	7.8
8	10.1	6.9	.	9.7
9	9.5	5.7	8.3	4.8
10	9.5	5.2	5.7	0.0
11	9.4	8.8	10.1	9.3
12	9.3	8.6	10.1	8.0
13	9.7	8.3	5.6	3.6
14	10.0	8.9	10.4	9.4
15	3.1	6.1	8.4	1.7
16	6.7	4.5	4.9	0.0
17	7.3	3.6	5.8	0.0
18	6.2	9.0	9.6	9.8
19	6.2	4.5	9.5	7.4
20	10.2	6.7	9.6	8.0
21	7.0	5.9	9.3	7.1
22	6.4	8.4	9.0	0.3
23	7.9	1.5	3.4	9.9
24	4.4	6.6	9.2	9.4
25	6.7	9.1	10.1	8.9
26	7.6	8.2	9.8	7.5
27	7.9	7.0	6.1	4.7
28	8.8	5.2	8.9	7.4
29	6.3	7.1	5.6	10.7
30	9.2	9.1	10.0	9.7
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	237.6	209.8	.	178.7
 Daily Means	7.9	7.0	8.2	6.0
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	6.8	8.8	8.3	4.1
2	8.0	9.9	8.8	1.7
3	9.5	8.6	8.7	7.3
4	0.5	2.7	3.9	7.5
5	9.5	9.0	8.8	7.2
6	8.7	10.1	8.6	0.3
7	7.0	5.5	4.9	0.1
8	9.7	8.4	8.5	0.8
9	9.5	8.9	8.7	0.0
10	4.6	0.0	0.0	0.6
11	8.5	7.8	7.7	1.7
12	6.9	4.7	4.6	4.2
13	0.9	1.9	1.6	5.8
14	6.3	4.1	4.1	3.8
15	8.8	6.9	7.7	7.2
16	9.1	8.5	8.6	3.6
17	7.1	0.5	1.7	6.9
18	9.7	6.5	6.5	5.0
19	4.6	3.7	4.2	2.0
20	9.8	8.8	8.5	1.4
21	9.1	7.8	7.4	7.2
22	0.0	0.0	0.0	5.2
23	9.9	8.3	8.5	2.7
24	9.8	8.5	8.7	2.9
25	9.9	8.7	8.6	3.6
26	9.1	8.3	8.6	3.4
27	9.5	8.7	8.2	2.1
28	7.2	6.7	5.5	5.0
29	9.0	8.2	8.1	4.2
30	9.0	9.2	8.5	1.5
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	228.0	199.7	196.5	109.0
 Daily Means	7.6	6.7	6.6	3.6
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	8.6	.	9.5	8.1
2	4.3	9.4	9.6	9.0
3	0.6	0.0	6.6	5.4
4	3.6	.	0.3	2.9
5	9.9	9.5	8.0	8.7
6	6.0	9.3	9.2	9.4
7	6.7	.	4.0	4.0
8	2.7	.	5.5	6.0
9	0.0	0.3	6.5	5.8
10	4.4	1.0	3.0	0.1
11	9.9	9.6	9.1	6.0
12	5.7	8.6	5.4	8.7
13	0.4	.	0.0	0.0
14	6.3	.	1.8	8.2
15	6.6	.	6.2	3.8
16	0.0	7.5	8.4	6.5
17	7.7	7.0	3.5	1.9
18	10.3	9.6	9.2	8.5
19	7.3	6.5	5.7	7.6
20	10.5	7.1	6.0	9.3
21	7.8	.	2.8	4.0
22	0.0	.	0.1	2.5
23	9.8	3.3	7.3	9.0
24	10.4	9.8	6.3	9.7
25	6.4	9.0	5.2	4.6
26	10.1	9.7	6.3	11.0
27	10.3	.	8.4	2.0
28	9.4	.	5.0	10.4
29	7.5	.	5.7	10.5
30	.	.	7.4	9.9
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	172.0	193.5
 Daily Means	6.3	.	5.7	6.5
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07' W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	9.4	0.0	0.0	3.8
2	10.0	3.2	6.3	9.0
3	0.0	10.0	9.1	8.4
4	0.0	9.9	9.2	9.6
5	10.1	9.2	8.9	4.7
6	10.5	9.1	7.7	9.5
7	4.3	1.1	3.8	9.3
8	0.0	0.0	0.4	8.3
9	1.9	2.5	1.5	7.3
10	9.4	0.0	0.4	9.2
11	9.3	9.3	9.4	5.9
12	9.6	8.2	9.2	1.8
13	0.0	2.6	7.9	1.9
14	10.1	0.0	0.0	7.6
15	5.5	2.0	6.8	7.8
16	5.4	1.2	5.2	4.0
17	7.8	4.8	7.6	3.0
18	7.8	0.6	0.6	6.8
19	8.3	8.3	0.4	2.9
20	8.9	5.4	4.8	6.4
21	2.6	0.0	0.0	0.4
22	5.5	7.5	5.2	5.4
23	9.7	1.8	3.9	8.5
24	10.0	4.1	3.6	0.0
25	3.1	7.3	7.1	4.7
26	8.4	2.0	2.1	1.5
27	4.6	6.8	7.8	8.0
28	9.9	9.0	8.3	6.6
29	10.6	9.3	7.1	6.8
30	8.5	0.0	7.0	7.9
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	201.2	135.2	151.3	177.0
 Daily Means	6.7	4.5	5.0	5.9
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: ABRIL

Years: 2001

Country: CHILE

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	8.3	5.9	0.0	
2	7.5	2.7	3.1	
3	8.6	2.1	0.8	
4	9.8	9.3	4.3	
5	4.9	3.6	6.5	
6	9.7	9.0	5.1	
7	9.9	3.7	0.0	
8	8.1	3.7	0.0	
9	9.5	7.6	7.5	
10	8.7	8.2	0.2	
11	5.4	0.7	1.2	
12	3.1	5.5	3.1	
13	6.7	7.4	0.0	
14	8.2	3.6	0.0	
15	7.1	0.2	0.0	
16	5.0	1.2	2.4	
17	6.7	7.0	4.3	
18	8.6	6.4	7.4	
19	6.4	3.7	6.7	
20	9.1	7.8	6.8	
21	2.4	0.0	0.0	
22	9.0	6.9	0.0	
23	4.7	7.0	0.0	
24	7.5	6.8	5.3	
25	3.0	2.5	2.6	
26	4.4	0.0	0.0	
27	5.1	3.6	0.0	
28	5.4	4.5	0.0	
29	6.8	0.0	0.0	
30	0.0	4.0	1.7	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	199.6	134.6	69.0	
 Daily Means	6.7	4.5	2.3	
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	
Instruments	CAMPELL	CAMPELL	CAMPELL	
	STOKES	STOKES	STOKES	

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

Month: MAYO

Years: 2001

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	6.8	7.1	7.7	9.1
2	9.5	3.7	10.8	8.2
3	4.0	2.2	10.2	6.6
4	7.8	4.7	4.6	0.8
5	6.7	6.9	6.9	8.1
6	5.6	10.2	10.9	7.2
7	4.7	10.1	10.8	6.5
8	1.0	3.0	10.9	7.6
9	0.0	3.1	10.8	7.1
10	3.8	0.0	10.9	9.5
11	7.3	7.5	10.9	10.1
12	8.2	8.3	9.8	10.1
13	2.4	9.9	10.6	9.7
14	5.1	8.9	10.3	9.5
15	4.1	8.0	10.5	9.6
16	10.0	9.9	10.6	9.2
17	5.9	3.3	10.8	9.5
18	3.2	1.7	9.8	6.6
19	7.5	5.8	10.4	6.6
20	6.9	8.6	9.8	7.9
21	6.8	9.5	10.4	9.9
22	4.4	3.3	10.6	4.6
23	2.8	6.2	10.6	6.7
24	3.7	4.2	10.5	0.7
25	7.8	5.2	10.0	9.4
26	7.0	9.7	10.6	9.8
27	6.3	5.0	10.2	6.6
28	8.4	9.7	10.5	8.5
29	7.5	6.4	10.6	6.3
30	9.4	9.8	10.6	8.2
31	4.7	6.2	10.5	3.6
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	179.3	198.1	313.1	233.8
 Daily Means	5.8	6.4	10.1	7.5
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	5.3	9.6	9.6	9.6
2	2.2	8.1	9.8	9.1
3	1.2	7.0	9.9	8.7
4	9.2	6.0	6.2	5.6
5	9.5	2.5	1.8	0.4
6	8.2	5.3	2.6	1.8
7	2.2	7.4	7.9	5.1
8	1.9	8.8	9.8	8.8
9	9.1	7.8	9.5	7.1
10	8.5	0.9	3.4	2.5
11	8.9	0.3	1.3	0.3
12	9.9	5.1	9.0	7.3
13	7.2	0.5	.	0.7
14	9.8	0.8	0.0	8.4
15	9.7	8.3	7.8	6.3
16	7.9	9.0	9.8	9.5
17	8.2	8.9	10.0	8.8
18	4.8	8.7	9.7	7.8
19	1.8	5.8	.	3.7
20	5.9	5.5	.	0.2
21	0.4	5.8	8.9	7.5
22	6.4	8.8	9.8	9.2
23	2.4	8.6	9.8	5.5
24	6.9	0.1	0.0	0.2
25	8.7	7.1	7.5	8.2
26	7.2	8.7	9.7	8.6
27	6.0	6.7	.	0.7
28	7.6	7.0	6.3	4.6
29	7.5	8.6	8.9	6.1
30	7.5	7.5	6.1	1.6
31	0.0	6.9	6.7	4.8
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	192.0	192.1	.	168.7
 Daily Means	6.2	6.2	7.1	5.4
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	9.3	9.1	8.5	.
2	9.7	9.0	8.4	.
3	9.7	9.3	8.1	.
4	9.7	9.2	8.3	.
5	0.0	0.2	0.1	.
6	1.3	2.0	2.2	.
7	2.6	2.8	1.9	.
8	0.2	0.0	0.0	.
9	7.5	2.9	1.8	.
10	8.1	7.1	7.0	.
11	9.3	4.1	4.0	.
12	8.8	4.4	4.7	.
13	0.3	2.7	3.2	.
14	5.1	2.6	1.9	.
15	4.7	0.4	0.0	.
16	5.7	4.5	3.9	.
17	0.0	0.1	0.0	.
18	9.2	8.4	7.1	.
19	8.8	3.7	4.7	.
20	2.8	2.4	1.0	.
21	0.0	0.0	0.0	.
22	8.5	8.1	6.2	.
23	9.3	8.3	6.9	.
24	8.7	4.1	3.7	.
25	2.1	2.0	2.6	.
26	1.7	2.8	2.3	.
27	9.0	8.7	7.0	.
28	8.5	5.1	3.4	.
29	0.6	0.0	0.0	.
30	0.0	0.0	0.0	.
31	0.0	0.2	0.1	.
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	161.2	124.2	109.0	.
 Daily Means	5.2	4.0	3.5	.
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	9.8	.	8.5	8.5
2	10.2	9.7	7.2	8.0
3	9.2	10.5	2.7	7.7
4	2.7	8.7	9.0	8.8
5	0.0	.	0.0	0.0
6	2.4	.	3.1	3.7
7	5.6	3.9	3.6	1.1
8	0.7	0.0	0.0	0.0
9	5.7	7.0	0.2	0.0
10	4.7	6.8	0.0	6.2
11	7.3	7.8	2.6	4.8
12	8.8	.	8.3	0.7
13	1.4	.	0.3	2.8
14	0.8	0.1	0.0	0.1
15	2.3	4.3	0.9	0.0
16	7.4	5.7	5.3	2.2
17	3.0	3.6	0.0	0.0
18	7.0	9.3	8.5	8.0
19	6.1	.	2.1	2.4
20	2.0	.	0.0	0.0
21	0.0	.	0.0	0.0
22	7.9	7.2	9.0	0.1
23	6.5	3.5	5.2	0.7
24	2.7	1.9	2.7	0.0
25	1.0	2.8	0.1	0.0
26	4.3	.	0.0	0.0
27	4.6	.	1.3	0.0
28	0.0	0.0	2.6	0.0
29	0.0	0.0	0.0	1.5
30	0.0	6.3	3.4	5.8
31	7.9	7.7	8.1	7.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	132.0	.	94.7	80.2
 Daily Means	4.3	.	3.1	2.6
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07'W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	2.7	.	0.0	5.7
2	8.5	.	2.1	6.2
3	9.5	.	6.3	0.0
4	9.6	.	7.3	4.9
5	0.1	.	0.1	0.4
6	0.0	.	1.3	1.7
7	3.3	.	7.1	0.0
8	0.2	.	0.0	0.0
9	5.2	.	7.4	7.4
10	8.8	.	4.8	0.8
11	8.1	.	7.6	4.1
12	1.3	.	8.4	0.7
13	0.1	.	1.6	5.8
14	0.3	.	3.5	4.3
15	0.5	.	8.7	6.1
16	1.8	.	0.0	0.0
17	0.0	.	0.8	4.2
18	8.9	.	0.1	2.2
19	1.9	.	0.0	0.7
20	0.0	.	0.0	1.3
21	0.0	.	1.4	3.3
22	0.0	.	1.7	0.0
23	5.6	.	0.0	0.0
24	0.0	.	0.0	0.5
25	0.0	.	0.0	3.5
26	0.0	.	0.0	6.2
27	0.0	.	0.0	0.0
28	5.8	.	0.5	0.4
29	5.6	.	3.3	1.3
30	6.4	.	0.5	1.4
31	7.4	.	0.0	0.4
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	101.6	.	74.5	73.5
 Daily Means	3.3	.	2.4	2.4
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: MAYO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	5.9	3.2	0.0	
2	7.5	1.7	5.9	
3	1.3	0.0	0.0	
4	4.8	0.4	7.2	
5	0.9	0.0	0.0	
6	3.3	4.7	0.0	
7	0.0	0.6	8.8	
8	0.0	6.8	7.5	
9	7.7	0.0	0.0	
10	4.0	0.9	1.7	
11	6.7	1.2	8.2	
12	5.0	0.0	0.0	
13	6.1	5.1	0.0	
14	2.4	5.1	3.8	
15	5.9	2.7	0.1	
16	0.3	1.4	0.0	
17	4.8	6.3	0.0	
18	2.7	2.6	5.4	
19	3.0	5.9	0.0	
20	1.3	2.1	0.0	
21	6.7	4.7	0.0	
22	0.3	5.1	1.0	
23	0.0	4.7	4.8	
24	1.1	1.5	0.0	
25	2.5	0.0	4.0	
26	7.3	0.0	0.0	
27	0.1	0.0	0.0	
28	1.0	0.0	3.6	
29	5.9	1.1	3.6	
30	3.9	1.4	3.4	
31	2.8	3.7	5.6	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	105.2	72.9	74.6	
 Daily Means	3.4	2.4	2.4	
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	
Instruments	CAMPELL	CAMPELL	CAMPELL	
	STOKES	STOKES	STOKES	

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

Month: JUNIO

Years: 2001

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	7.2	8.4	10.6	7.9
2	4.1	0.5	10.6	6.0
3	3.1	5.2	10.4	5.3
4	3.8	3.1	8.4	0.7
5	6.3	8.3	10.3	8.3
6	4.6	7.4	10.4	7.2
7	4.0	0.0	10.4	6.5
8	1.8	0.0	10.3	6.3
9	3.9	7.1	10.4	5.9
10	4.5	3.7	10.3	4.6
11	6.0	8.9	6.9	6.6
12	2.0	3.8	10.2	9.3
13	9.5	9.4	10.4	7.6
14	4.9	0.3	10.4	7.7
15	4.0	6.4	10.3	5.2
16	4.0	6.1	10.4	6.1
17	4.3	0.0	10.3	1.2
18	4.4	2.9	10.3	8.3
19	4.3	9.8	10.2	9.9
20	3.7	0.1	10.5	8.3
21	4.6	4.2	10.4	9.0
22	3.4	3.7	10.4	7.9
23	4.6	7.5	10.4	8.2
24	3.5	8.3	10.3	7.7
25	6.4	7.5	10.3	9.7
26	5.2	3.1	10.3	7.8
27	4.6	3.9	1.9	0.5
28	4.9	8.3	10.1	6.2
29	5.1	4.8	10.2	0.0
30	3.5	0.1	10.3	3.8
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	136.2	142.8	296.6	189.7
 Daily Means	4.5	4.8	9.9	6.3
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	27°10' S	27°18' S	28°35' S	29°57' S
Longitude	109°26' W	70°25' W	70°46' W	71°22' W
Elevation	47 m	291 m	469 m	25 m
Station	ISLA DE PASCUA	COPIAPO	VALLENAR	LA SERENA
Date				
1	7.9	7.9	9.1	8.2
2	6.0	4.8	0.0	8.5
3	5.3	6.0	0.0	9.1
4	0.7	8.4	2.7	1.6
5	8.3	8.7	8.4	8.9
6	7.2	3.3	9.0	9.2
7	6.5	4.7	9.2	9.2
8	6.3	2.0	4.3	0.0
9	5.9	8.1	8.3	6.0
10	4.6	4.6	4.8	0.0
11	6.6	7.2	5.5	3.6
12	9.3	2.2	9.0	8.4
13	7.6	5.6	7.5	7.2
14	7.7	3.0	9.1	7.7
15	5.2	2.3	9.2	2.7
16	6.1	0.5	8.3	9.1
17	1.2	1.0	7.6	9.0
18	8.3	0.9	4.8	6.4
19	9.9	0.6	9.2	9.3
20	8.3	1.2	9.0	9.5
21	9.0	6.1	7.9	8.6
22	7.9	7.4	8.9	1.7
23	8.2	5.2	5.6	6.3
24	7.7	2.9	9.1	9.2
25	9.7	0.0	9.1	9.4
26	7.8	0.1	9.0	9.3
27	0.5	7.8	4.4	2.3
28	6.2	7.1	8.8	7.8
29	0.0	8.5	4.6	7.6
30	3.8	6.5	9.1	9.3
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	189.7	134.6	211.5	205.1
 Daily Means	6.3	4.5	7.1	6.8
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	32°51' S	33°23' S	33°27' S	33°37' S
Longitude	70°37' W	70°47' W	70°42' W	78°50' W
Elevation	880 m	474 m	520 m	30 m
Station	CALLE LARGA	PUDAHUEL	QUINTA NORMAL	ROBINSON CRUSOE
Date				
1	8.6	6.9	4.4	.
2	0.0	0.0	0.0	.
3	4.0	4.9	3.2	.
4	4.0	3.6	3.2	.
5	7.4	6.9	5.4	.
6	7.9	7.6	5.1	.
7	8.7	8.2	6.9	.
8	8.0	7.4	6.6	.
9	8.8	7.9	6.8	.
10	3.9	5.9	4.5	.
11	4.0	2.6	1.2	.
12	1.0	1.2	0.0	.
13	0.0	0.0	0.0	.
14	1.0	1.3	0.2	.
15	5.2	1.2	0.0	.
16	7.9	8.2	6.9	.
17	8.7	7.9	6.9	.
18	8.7	9.0	7.0	.
19	8.6	8.3	6.9	.
20	8.7	9.1	7.0	.
21	8.1	8.7	7.0	.
22	3.2	2.8	0.9	.
23	0.9	3.5	1.2	.
24	7.7	7.9	6.9	.
25	8.7	8.9	6.9	.
26	8.7	9.0	7.0	.
27	7.6	7.3	5.4	.
28	3.5	0.0	0.5	.
29	6.0	5.5	4.9	.
30	5.0	0.9	0.3	.
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	174.5	162.6	123.2	.
 Daily Means	5.8	5.4	4.1	.
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	33°39' S	34°06' S	34°58' S	36°36' S
Longitude	71°36' W	71°45' W	71°12' W	72°26' W
Elevation	74 m	296 m	225 m	124 m
Station	SANTO DOMINGO	HIDANGO	CURICO	CHILLAN
Date				
1	7.8	8.5	8.2	8.1
2	2.6	.	7.0	3.7
3	7.3	.	4.7	8.1
4	7.3	7.1	7.7	4.6
5	5.8	4.3	4.3	0.6
6	7.8	8.1	3.1	0.0
7	7.8	8.0	8.1	7.1
8	2.4	7.5	0.0	6.1
9	7.6	.	5.4	7.4
10	3.5	.	2.1	2.5
11	1.6	.	0.4	0.0
12	2.7	3.6	1.4	0.0
13	0.0	0.0	0.0	0.0
14	1.1	0.3	2.9	2.7
15	7.7	0.3	5.3	8.3
16	7.6	.	7.6	8.9
17	7.7	.	7.7	9.0
18	7.6	5.8	8.9	8.5
19	7.6	8.3	7.5	7.3
20	7.6	8.5	7.8	6.9
21	7.7	8.4	4.8	8.6
22	1.1	8.5	0.1	0.1
23	5.9	.	5.3	3.0
24	7.7	.	2.7	5.1
25	7.6	8.4	0.7	8.9
26	7.6	6.2	3.2	8.8
27	7.6	0.0	4.4	1.2
28	0.0	0.0	0.0	0.2
29	7.2	7.6	4.0	0.0
30	0.9	.	0.0	0.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	164.4	.	125.3	135.7
 Daily Means	5.5	.	4.2	4.5
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	36°46' S	39°41' S	41°26' S	45°35' S
Longitude	73°03' W	73°04' W	73°07' W	72°07'W
Elevation	12 m	19 m	81 m	310 m
Station	CONCEPCION	VALDIVIA	PUERTO MONTT	COYHAIQUE
Date				
1	4.8	1.7	1.3	0.0
2	7.1	5.4	3.3	1.6
3	8.3	0.5	3.7	0.0
4	1.5	0.4	1.4	2.3
5	1.5	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0
7	0.4	0.0	0.0	0.1
8	2.3	0.0	0.0	5.3
9	6.6	0.0	2.3	5.7
10	1.7	0.0	0.4	0.0
11	3.1	1.3	1.0	0.0
12	0.0	0.0	0.0	2.3
13	0.0	0.1	2.3	0.7
14	5.6	0.2	0.5	0.8
15	5.9	7.9	6.2	1.0
16	8.7	5.3	6.9	0.0
17	8.8	3.7	4.8	1.7
18	8.5	0.9	6.8	2.9
19	7.9	0.0	0.1	5.3
20	8.1	3.4	0.4	3.1
21	7.9	0.5	0.0	0.0
22	0.7	0.0	0.0	0.0
23	6.0	5.1	5.9	2.9
24	8.0	0.0	0.0	0.0
25	8.5	0.0	0.0	6.0
26	8.1	0.0	0.8	1.0
27	2.2	0.0	0.0	1.2
28	0.6	0.0	0.0	2.4
29	0.0	0.0	1.0	1.3
30	0.0	2.5	3.8	1.1
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	132.8	38.9	52.9	48.7
 Daily Means	4.4	1.3	1.8	1.6
Types of	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO	HELIOGRAFO
Instruments	CAMPELL	CAMPELL	CAMPELL	CAMPELL
	STOKES	STOKES	STOKES	STOKES

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

Month: JUNIO

Years: 2001

Country: CHILE

Daily Totals				
Latitude	45°54' S	53°08' S	54°56' S	
Longitude	71°43' W	70°58' W	67°58' W	
Elevation	520 m	37 m	36 m	
Station	BALMACEDA	PUNTA ARENAS	PUERTO WILLIAMS	
Date				
1	0.0	1.2	0.6	
2	4.5	3.4	0.0	
3	5.6	3.1	0.0	
4	5.6	3.0	2.6	
5	0.1	3.5	4.4	
6	0.0	0.0	2.9	
7	0.3	2.4	1.9	
8	7.8	1.5	4.5	
9	7.2	0.5	0.0	
10	0.0	0.9	0.0	
11	0.0	0.0	0.0	
12	4.7	0.0	5.2	
13	0.0	0.0	3.2	
14	0.5	0.0	0.0	
15	5.9	0.6	1.2	
16	4.6	3.7	0.0	
17	4.2	2.0	0.0	
18	4.0	2.8	0.0	
19	5.7	3.4	2.9	
20	3.0	4.0	4.5	
21	0.6	3.9	1.5	
22	0.0	4.2	4.3	
23	4.3	0.0	0.0	
24	1.6	1.6	0.0	
25	7.1	3.1	0.8	
26	5.1	0.0	0.0	
27	3.5	0.5	2.0	
28	2.6	2.8	3.8	
29	2.6	3.7	2.3	
30	5.8	2.6	0.0	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	96.9	58.4	48.6	
 Daily Means	3.2	1.9	1.6	
Types of Instruments	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	HELIOGRAFO CAMPELL STOKES	