



DIRECCIÓN METEOROLÓGICA DE CHILE



INFORME
SOLARIMÉTRICO
I SEMESTRE 2012

CLIMATOLOGÍA Y METEOROLOGÍA APLICADA

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

Month: JANUARY Year: 2012 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15'S
Longitude	70°19'W	68°54' W	70°26' W	70°46'W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	.	28.83	31.95	29.83
2	.	23.24	25.38	27.03
3	.	27.95	28.45	25.58
4	.	23.22	25.86	27.15
5	.	29.12	31.43	24.65
6	.	31.08	31.38	27.44
7	.	31.06	30.93	28.90
8	.	28.56	28.96	30.86
9	.	28.36	29.11	26.12
10	.	30.91	30.88	31.30
11	.	31.08	31.05	13.02
12	.	31.51	31.96	20.51
13	.	31.80	32.20	26.47
14	.	31.86	32.14	27.87
15	.	32.02	31.90	28.75
16	.	31.64	31.89	29.02
17	.	31.66	32.00	24.21
18	.	31.36	31.80	19.55
19	.	31.36	31.49	24.86
20	.	30.59	31.61	29.84
21	.	30.80	31.32	31.76
22	.	30.01	30.50	31.33
23	.	30.34	31.06	30.02
24	.	29.06	31.24	30.58
25	.	27.47	31.25	25.16
26	.	29.75	30.27	22.24
27	.	29.68	30.01	24.72
28	.	29.50	28.82	30.28
29	.	27.42	26.65	29.41
30	.	22.81	26.01	29.69
31	.	28.83	29.59	30.44
TT Monthly Totals	.	912.89	939.10	838.58
 Daily Means	.	29.45	30.29	27.05
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: JANUARY Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	28.18	27.73	27.79	16.58
2	27.89	30.03	24.78	9.54
3	28.92	30.15	27.20	11.62
4	28.33	24.56	25.54	17.92
5	27.18	29.60	23.08	19.30
6	18.38	25.71	23.33	22.80
7	26.34	16.87	15.47	12.38
8	29.08	9.63	15.22	14.29
9	28.07	12.75	17.35	10.97
10	28.39	17.09	12.36	26.22
11	28.02	25.84	16.36	12.74
12	28.06	28.34	23.97	24.41
13	27.23	26.98	27.51	24.70
14	27.04	27.48	27.90	22.41
15	27.16	13.14	24.31	20.22
16	27.29	27.28	21.43	26.92
17	13.49	27.58	27.36	20.66
18	.	27.85	27.59	16.56
19	.	27.73	26.62	20.26
20	.	18.73	20.13	24.87
21	.	23.36	19.93	20.49
22	.	25.76	24.86	10.33
23	.	10.15	19.41	22.94
24	27.38	21.17	25.59	26.49
25	27.21	27.69	26.91	9.51
26	27.22	24.44	13.63	19.30
27	26.85	15.00	20.56	12.95
28	26.41	7.10	20.17	15.25
29	26.90	7.10	11.45	19.51
30	27.30	14.55	20.20	15.73
31	27.50	13.57	15.22	21.89
TT Monthly Totals	.	664.96	673.22	569.76
 Daily Means	.	21.45	21.72	18.38
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: FEBRUARY Year: 2012 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15'S
Longitude	70°19'W	68°54' W	70°26' W	70°46'W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	.	29.28	29.45	23.08
2	.	29.41	29.52	23.83
3	.	29.95	29.09	19.66
4	.	26.49	29.12	21.76
5	.	19.06	17.84	24.35
6	.	21.85	28.78	28.32
7	.	22.32	27.66	29.32
8	.	24.83	27.62	28.80
9	.	23.97	28.19	27.39
10	.	26.11	28.14	26.31
11	.	25.02	27.40	27.48
12	.	16.70	15.72	27.99
13	.	27.16	28.08	28.77
14	.	24.79	27.72	28.44
15	.	20.64	27.95	28.12
16	.	27.34	28.09	27.95
17	.	26.86	27.24	26.73
18	.	23.93	27.19	24.22
19	.	27.25	28.09	26.98
20	.	27.50	27.97	21.78
21	.	27.95	28.41	19.52
22	.	26.74	27.53	17.26
23	.	26.56	27.09	22.44
24	.	26.95	27.83	27.41
25	.	27.77	27.91	22.94
26	.	28.04	27.74	27.55
27	.	27.66	27.48	18.43
28	.	27.59	27.32	25.91
29	.	27.24	27.19	23.10
30				
31				
TT Monthly Totals	.	746.97	789.36	725.83
 Daily Means	.	25.76	27.22	25.03
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: FEBRUARY Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	24.02	10.72	12.82	19.33
2	27.09	26.02	24.86	9.60
3	27.11	16.18	7.60	22.05
4	26.47	13.46	13.52	18.13
5	26.30	11.66	11.72	22.74
6	26.24	14.33	12.17	20.81
7	26.19	11.33	15.36	20.13
8	24.51	27.17	24.06	14.96
9	25.45	26.62	23.41	16.23
10	25.34	25.53	9.40	13.44
11	24.57	10.21	5.27	13.98
12	24.72	22.81	24.84	21.45
13	24.16	24.57	19.47	20.95
14	24.23	16.68	15.78	20.66
15	23.94	14.44	9.39	10.24
16	23.65	2.82	16.69	14.37
17	24.68	2.54	6.44	13.44
18	23.37	14.43	20.05	22.55
19	25.03	13.23	10.60	11.50
20	24.24	15.09	14.48	13.46
21	24.11	6.52	7.65	11.94
22	24.27	17.51	21.48	15.84
23	18.26	17.92	21.70	12.28
24	20.71	4.40	3.09	19.34
25	12.40	14.71	9.85	9.63
26	23.94	4.22	6.76	12.00
27	22.95	8.30	7.88	13.78
28	19.99	10.91	10.46	19.61
29	20.14	13.54	17.81	15.38
30				
31				
TT Monthly Totals	688.09	417.88	404.59	469.85
 Daily Means	23.73	14.41	13.95	16.20
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: MARCH		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	18°21' S	22°29' S	23°26' S	27°15'S	
Longitude	70°19'W	68°54' W	70°26' W	70°46'W	
Elevation	58 m	2270 m	135 m	204 m	
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA	
Date					
1	.	26.46	26.55	22.96	
2	.	24.42	26.62	24.49	
3	.	26.13	27.36	25.19	
4	.	25.90	26.87	18.94	
5	.	25.93	26.88	25.54	
6	.	25.81	26.85	24.40	
7	.	25.85	26.41	25.04	
8	.	25.49	26.37	24.50	
9	.	26.03	26.19	17.72	
10	.	25.80	25.77	7.62	
11	.	25.12	25.85	19.41	
12	.	25.11	24.85	19.18	
13	.	25.60	13.09	20.03	
14	.	25.39	23.54	20.70	
15	.	25.32	22.98	17.30	
16	17.41	25.33	24.62	19.82	
17	20.81	25.22	26.23	25.45	
18	21.20	25.05	25.65	25.20	
19	15.38	25.10	25.81	21.66	
20	21.85	24.95	26.11	23.58	
21	21.24	24.86	25.53	21.52	
22	20.51	24.73	25.05	13.84	
23	20.90	24.07	22.04	17.48	
24	19.91	23.42	24.28	23.32	
25	20.85	23.71	23.96	23.43	
26	18.87	23.43	23.80	15.35	
27	20.49	23.31	23.86	17.86	
28	19.69	23.26	23.30	20.21	
29	19.62	22.96	18.61	20.46	
30	11.08	21.27	22.08	17.00	
31	18.15	23.16	20.30	18.33	
TT Monthly Totals	.	768.18	757.41	637.52	
 Daily Means	.	24.78	24.43	20.57	
SS Monthly Totals					
 Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	

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

Month: MARCH Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	23.55	7.30	7.99	7.99
2	23.09	11.79	6.56	6.56
3	22.49	7.24	12.16	12.16
4	22.80	5.36	12.81	12.81
5	21.82	17.84	8.60	8.60
6	21.96	13.88	8.44	8.44
7	21.93	21.38	11.98	11.98
8	21.39	20.32	18.76	18.76
9	7.65	4.45	17.43	17.43
10	.	19.71	14.36	14.36
11	.	10.19	5.27	5.27
12	.	10.04	9.75	9.75
13	.	17.55	12.23	12.23
14	.	16.69	15.44	15.44
15	20.05	18.65	8.72	8.72
16	17.91	7.66	17.51	17.51
17	16.30	3.37	8.45	8.45
18	18.97	3.97	15.21	15.21
19	17.89	12.23	16.22	16.22
20	17.33	18.63	13.14	13.14
21	18.96	11.70	12.25	12.25
22	19.46	14.41	10.61	10.61
23	19.05	14.51	14.71	14.71
24	18.54	8.72	15.08	15.08
25	18.77	14.86	14.04	14.04
26	18.49	17.46	14.07	14.07
27	18.25	15.80	7.50	7.50
28	16.56	5.01	11.37	11.37
29	17.19	16.59	7.62	7.62
30	16.96	14.53	13.05	13.05
31	17.42	6.95	13.82	13.82
TT Monthly Totals	.	388.79	375.16	375.16
 Daily Means	.	12.54	12.10	12.10
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: APRIL Year: 2012 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15'S
Longitude	70°19'W	68°54' W	70°26' W	70°46'W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	17.27	23.20	18.39	12.09
2	19.83	23.28	22.78	15.88
3	19.24	21.08	21.69	13.56
4	18.92	17.67	19.72	22.40
5	19.42	19.16	21.34	17.70
6	19.05	21.59	19.36	17.33
7	18.79	21.79	21.92	21.35
8	17.92	22.25	18.18	8.29
9	14.85	17.06	15.80	16.34
10	18.46	21.11	21.76	20.66
11	14.14	17.80	19.98	19.06
12	12.99	7.18	14.99	19.57
13	18.31	21.38	20.48	19.20
14	18.51	22.50	21.48	20.04
15	17.84	22.51	20.27	5.01
16	18.31	22.71	21.56	14.60
17	15.88	22.40	17.57	7.11
18	17.57	21.61	20.64	9.64
19	17.92	21.43	20.83	4.25
20	17.73	21.71	20.55	18.92
21	17.77	21.80	20.54	19.62
22	17.65	21.58	20.54	19.75
23	16.84	20.51	20.20	19.70
24	17.03	19.16	19.74	19.48
25	16.88	18.89	9.33	12.01
26	17.05	20.31	19.86	19.84
27	14.62	20.33	15.50	11.90
28	16.48	20.33	19.69	19.03
29	17.09	20.41	19.52	19.59
30	15.98	20.48	17.90	19.28
31				
TT Monthly Totals	520.33	613.24	582.11	483.22
 Daily Means	17.34	20.44	19.40	16.11
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: APRIL Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	16.77	16.06	8.90	9.57
2	17.19	15.92	10.03	3.03
3	16.83	5.05	6.98	9.74
4	11.97	11.54	6.77	8.37
5	15.84	4.00	11.15	9.35
6	17.08	4.81	0.72	4.83
7	17.15	8.45	11.36	6.19
8	5.11	12.28	10.01	8.65
9	8.49	10.63	4.90	2.29
10	10.39	13.73	8.39	3.65
11	13.86	13.51	6.15	6.68
12	13.38	4.82	1.29	9.01
13	4.04	10.33	2.60	3.50
14	14.16	3.10	8.26	6.09
15	13.83	6.84	1.04	1.96
16	14.53	7.03	1.32	4.28
17	14.37	6.09	1.58	7.76
18	14.21	7.80	7.33	6.48
19	13.87	4.46	5.81	3.59
20	13.70	3.00	9.91	6.95
21	13.93	12.05	9.50	7.42
22	13.63	11.70	6.89	6.92
23	4.90	10.47	4.30	5.33
24	11.48	4.19	6.45	6.50
25	10.41	10.21	5.77	5.16
26	5.13	6.76	7.77	3.01
27	3.63	7.74	8.83	2.50
28	7.36	5.19	6.24	3.74
29	13.30	5.24	7.84	5.14
30	13.11	4.79	2.31	3.17
31				
TT Monthly Totals	363.66	247.78	190.43	170.89
 Daily Means	12.12	8.26	6.35	5.70
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: MAY Year: 2012 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15'S
Longitude	70°19'W	68°54' W	70°26' W	70°46'W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	16.20	20.28	17.92	11.20
2	14.77	18.38	18.44	10.19
3	16.33	19.51	17.39	12.41
4	14.03	19.42	17.85	12.56
5	10.45	19.35	13.30	5.75
6	13.06	19.24	11.37	9.08
7	11.94	19.18	16.60	16.56
8	13.01	18.84	15.39	8.29
9	11.88	19.12	18.16	5.63
10	13.20	18.87	15.81	8.72
11	11.00	17.85	14.75	11.11
12	14.92	18.36	6.19	4.81
13	14.18	17.89	17.16	16.57
14	14.60	18.31	17.78	17.02
15	14.35	18.15	16.88	14.70
16	12.09	18.43	13.79	16.19
17	7.95	18.33	13.97	3.83
18	12.14	18.06	16.17	13.07
19	13.16	18.02	15.91	6.66
20	13.05	17.63	16.57	12.13
21	14.13	17.80	16.86	12.91
22	13.86	17.13	14.36	6.79
23	14.25	17.53	16.47	14.27
24	13.65	17.30	16.52	9.40
25	13.90	17.28	16.59	11.56
26	13.99	16.67	15.18	5.09
27	10.43	17.09	17.01	16.40
28	10.25	17.17	15.56	14.58
29	13.91	17.32	15.21	12.99
30	12.29	17.10	15.54	8.96
31	11.77	16.96	15.57	7.48
TT Monthly Totals	404.74	562.56	486.28	336.94
 Daily Means	13.06	18.15	15.69	10.87
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: MAY Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	10.41	4.84	2.40	2.45
2	11.50	2.56	2.90	3.53
3	9.01	2.09	3.57	3.70
4	10.79	6.27	3.49	5.14
5	11.53	5.58	.	1.30
6	5.92	1.74	3.07	2.70
7	6.26	6.35	3.30	5.19
8	.	5.52	1.93	3.46
9	.	5.17	2.57	3.72
10	.	2.57	3.61	1.98
11	.	6.76	0.82	2.44
12	.	8.64	1.81	3.45
13	.	4.45	1.74	2.23
14	.	3.40	0.75	3.07
15	.	0.58	0.60	1.42
16	.	2.22	1.10	1.67
17	.	3.22	1.62	2.72
18	.	3.98	2.90	2.05
19	.	6.38	1.60	1.63
20	.	5.07	1.90	2.37
21	.	5.67	0.97	2.25
22	.	7.55	2.28	2.69
23	.	5.20	4.58	3.81
24	.	4.95	1.37	2.67
25	1.12	2.72	.	2.90
26	1.06	1.61	.	0.82
27	1.57	2.70	1.89	0.55
28	5.43	4.46	.	0.47
29	7.13	2.20	.	3.15
30	7.91	4.06	2.63	3.13
31	4.75	1.90	.	2.92
TT Monthly Totals	.	130.40	.	81.60
 Daily Means	.	4.21	.	2.63
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: JUNE Year: 2012 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15'S
Longitude	70°19'W	68°54' W	70°26' W	70°46'W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	8.45	.	13.19	10.37
2	12.27	.	14.03	10.01
3	13.52	.	14.27	2.72
4	12.01	.	14.97	7.47
5	11.40	.	12.02	14.95
6	11.98	.	14.93	12.07
7	10.58	.	14.54	13.10
8	7.78	.	14.35	9.75
9	9.96	.	14.57	13.31
10	13.01	.	10.90	14.69
11	12.09	.	13.65	5.84
12	11.22	.	13.64	13.11
13	10.95	.	12.16	14.89
14	10.84	15.33	14.47	15.33
15	11.31	15.33	13.18	10.52
16	8.59	16.08	13.83	14.58
17	5.81	15.89	10.02	14.56
18	8.65	15.87	10.51	13.68
19	11.62	16.10	12.35	14.64
20	7.76	14.80	14.52	10.86
21	9.51	16.79	14.54	15.36
22	10.92	17.01	15.07	15.30
23	10.07	17.03	13.63	12.83
24	10.20	16.74	14.39	12.62
25	11.37	17.10	13.95	10.67
26	13.08	17.02	13.99	4.62
27	11.15	17.02	15.43	13.52
28	5.18	16.99	14.70	14.98
29	6.34	17.04	13.63	14.67
30	8.24	17.22	0.00	5.63
31				
TT Monthly Totals	305.88	.	395.42	356.66
 Daily Means	10.20	.	13.18	11.89
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: JUNE Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	41°25' S	45°35' S	53°00' S
Longitude	70°42' W	73°05' W	72°07' W	70°51' W
Elevation	520 m	85 m	310 m	37 m
Station				
Date	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
1	5.36	1.22	.	1.98
2	8.88	3.72	1.24	1.58
3	8.25	3.79	4.42	2.87
4	9.34	4.43	0.53	1.79
5	9.14	6.48	3.59	2.79
6	9.63	5.20	.	2.64
7	9.76	3.39	3.52	2.67
8	9.25	7.13	.	2.63
9	1.89	3.81	4.04	2.42
10	5.00	3.97	3.46	2.09
11	6.23	1.43	.	1.81
12	1.17	1.16	.	2.40
13	3.12	5.13	.	2.12
14	3.05	6.55	0.80	2.64
15	1.99	6.95	.	0.39
16	7.50	1.36	1.87	2.59
17	1.38	4.82	5.03	1.26
18	9.34	3.31	1.91	1.96
19	7.17	2.99	2.55	1.34
20	1.20	3.52	3.20	2.32
21	8.42	0.73	2.07	2.08
22	8.05	1.15	0.40	2.16
23	9.02	0.88	.	2.77
24	8.99	6.57	3.60	2.33
25	9.06	6.47	3.07	1.03
26	8.48	1.70	0.33	1.44
27	1.99	2.34	3.08	1.52
28	0.60	1.60	.	2.11
29	3.17	3.36	.	1.30
30	2.28	2.49	3.40	2.14
31				
TT Monthly Totals	178.71	107.67	.	61.17
 Daily Means	5.96	3.59	.	2.04
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: JANUARY		Year: 2012		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	6.4	11.0	11.5	11.9	
2	6.1	8.3	7.2	8.4	
3	10.0	8.0	10.1	10.2	
4	4.5	7.5	6.1	7.0	
5	4.3	10.4	10.1	11.6	
6	10.3	11.8	11.6	11.0	
7	8.9	11.3	10.9	11.1	
8	4.1	11.8	10.6	9.6	
9	1.4	8.7	9.4	9.9	
10	11.6	0.0	11.6	10.2	
11	11.9	11.7	11.6	11.2	
12	11.8	11.8	11.7	12.1	
13	11.6	11.8	11.8	12.2	
14	11.9	12.0	11.2	12.1	
15	11.9	12.0	11.8	11.6	
16	12.0	11.9	11.7	12.0	
17	4.9	11.9	11.8	12.0	
18	9.4	12.0	11.7	11.1	
19	10.5	11.9	11.6	11.8	
20	11.6	9.8	11.6	12.1	
21	11.1	11.5	11.0	12.2	
22	9.8	11.8	11.8	.	
23	11.0	11.9	11.6	11.7	
24	11.0	11.1	11.6	11.9	
25	5.4	10.9	9.4	11.9	
26	11.1	10.9	11.7	11.6	
27	4.7	7.4	11.6	11.8	
28	6.8	10.1	11.6	11.4	
29	5.4	3.3	8.7	9.8	
30	7.9	8.9	5.5	8.0	
31	9.0	11.8	10.9	11.0	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	268.3	315.2	331.0	.	
 Daily Means	8.7	10.2	10.7	11.0	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JANUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	12.0	7.5	11.0	11.5	
2	10.8	9.3	11.0	12.1	
3	7.0	7.9	10.5	12.1	
4	8.0	8.0	.	12.5	
5	8.5	2.1	6.4	11.2	
6	10.7	6.2	4.0	7.6	
7	10.7	9.6	10.4	10.5	
8	11.5	8.9	.	13.0	
9	7.2	5.9	7.4	12.6	
10	11.1	9.9	13.4	12.8	
11	6.2	5.0	12.5	12.6	
12	4.9	10.7	3.3	12.6	
13	4.9	2.6	6.4	11.7	
14	9.0	8.9	5.1	11.2	
15	9.8	11.3	12.7	12.3	
16	9.9	8.6	12.4	12.5	
17	7.2	9.2	12.9	12.5	
18	4.6	0.0	7.3	12.5	
19	7.3	9.3	2.7	11.6	
20	10.7	12.0	0.0	12.1	
21	11.7	7.1	9.5	10.0	
22	12.3	12.4	12.8	12.3	
23	10.6	7.7	12.9	11.1	
24	10.6	9.7	12.8	12.7	
25	7.5	8.5	.	12.4	
26	5.9	2.2	6.9	12.4	
27	7.5	3.2	8.0	12.3	
28	10.3	4.5	12.6	11.2	
29	9.8	0.4	12.5	12.4	
30	11.6	0.0	.	12.5	
31	12.1	8.4	12.1	12.6	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	281.9	217.0	.	369.4	
 Daily Means	9.1	7.0	9.2	11.9	
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: JANUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	33°27' S	33°37' S	33°39' S	34°58' S	
Longitude	70°42' W	78°50' W	71°36' W	71°12' W	
Elevation	520 m	30 m	74 m	225 m	
Station					
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	
1	11.1	11.4	4.0	13.6	
2	11.9	11.6	10.4	13.2	
3	11.6	11.6	0.0	13.3	
4	11.7	11.6	7.3	13.1	
5	10.8	9.7	4.5	11.4	
6	6.1	0.4	2.6	9.3	
7	9.8	5.2	8.0	6.5	
8	11.9	7.0	11.4	11.8	
9	11.8	9.0	12.0	8.3	
10	11.8	9.4	12.8	13.4	
11	11.7	2.0	12.4	13.4	
12	11.7	11.1	11.6	13.5	
13	11.4	0.0	5.5	13.3	
14	10.8	1.8	0.0	9.4	
15	11.5	10.6	7.5	10.1	
16	11.5	9.0	10.3	13.1	
17	11.5	8.5	12.5	13.2	
18	11.6	9.6	5.3	13.3	
19	11.0	7.1	0.0	12.3	
20	11.1	3.5	2.0	6.9	
21	9.8	5.5	6.2	3.6	
22	11.2	3.8	12.9	12.6	
23	9.6	4.2	13.0	10.0	
24	11.2	5.2	12.7	10.4	
25	11.3	1.9	12.0	13.3	
26	11.3	6.5	8.4	13.1	
27	11.1	10.2	3.7	12.9	
28	11.1	4.9	12.7	13.1	
29	11.1	.	12.6	13.1	
30	11.3	0.0	12.2	13.1	
31	11.4	2.3	11.9	12.3	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	342.7	.	258.4	359.9	
 Daily Means	11.1	6.5	8.3	11.6	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JANUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	12.6	12.7	.	11.6	
2	13.2	11.0	10.4	12.6	
3	13.7	12.9	10.6	12.6	
4	12.1	2.2	.	9.5	
5	12.0	0.6	9.2	12.5	
6	11.1	0.2	9.7	11.8	
7	2.9	2.3	7.9	1.2	
8	12.1	1.3	3.3	2.8	
9	3.3	1.9	2.1	5.0	
10	12.6	12.1	4.5	10.0	
11	13.4	13.0	.	12.2	
12	13.3	12.7	10.6	12.7	
13	12.4	9.6	10.5	12.0	
14	11.1	1.3	9.9	11.4	
15	11.6	7.2	6.2	5.6	
16	9.9	11.4	10.9	10.2	
17	13.3	11.8	5.1	6.7	
18	12.1	12.6	8.6	12.4	
19	12.1	11.9	8.8	9.3	
20	9.6	7.1	3.0	5.6	
21	7.1	2.3	8.4	8.2	
22	6.6	10.2	7.3	.	
23	3.0	7.8	0.1	0.5	
24	12.7	12.8	7.4	10.1	
25	13.1	12.7	7.2	12.2	
26	12.6	12.0	.	12.2	
27	12.9	12.4	9.5	10.5	
28	12.7	8.1	4.4	4.4	
29	13.1	10.9	0.1	0.0	
30	10.2	4.6	0.0	2.0	
31	12.0	11.8	8.5	7.5	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	340.4	261.4	.	.	
Daily Means	11.0	8.4	6.8	8.5	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JANUARY Year: 2012 Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	11.3	12.5	5.1	
2	11.8	10.7	1.0	
3	12.4	12.4	2.4	
4	10.2	12.0	5.0	
5	11.6	10.9	8.2	
6	11.2	8.8	9.9	
7	6.5	7.4	1.5	
8	3.1	4.5	2.0	
9	3.0	4.9	3.9	
10	7.7	3.5	10.5	
11	11.6	6.6	5.4	
12	13.1	8.6	10.8	
13	9.8	13.0	10.2	
14	11.0	12.3	9.6	
15	3.5	10.0	8.0	
16	10.2	9.3	12.3	
17	11.5	12.8	7.7	
18	11.0	12.3	6.5	
19	12.5	12.6	8.6	
20	3.4	7.4	11.7	
21	8.8	6.9	8.0	
22	9.2	11.8	3.2	
23	0.4	6.9	8.5	
24	9.5	12.5	12.7	
25	12.9	12.0	0.9	
26	5.4	7.6	9.8	
27	5.4	8.0	3.5	
28	1.2	9.2	6.1	
29	0.9	2.0	8.8	
30	5.7	8.4	3.8	
31	4.0	7.3	11.3	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	249.8	285.1	216.9	
 Daily Means	8.1	9.2	7.0	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY		Year: 2012		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	11.4	11.6	11.1	11.5	
2	10.9	10.3	11.6	11.4	
3	8.4	11.0	11.2	10.4	
4	5.9	7.8	9.0	10.9	
5	1.9	7.4	4.9	4.7	
6	5.9	5.2	5.9	10.9	
7	3.3	8.3	4.5	10.4	
8	8.2	10.2	9.1	11.4	
9	7.7	8.2	7.6	10.8	
10	9.0	9.4	8.9	11.4	
11	10.7	10.9	8.6	11.1	
12	5.6	5.1	3.2	3.8	
13	10.8	11.5	9.5	5.9	
14	3.5	4.6	7.5	10.9	
15	5.8	3.9	5.8	11.1	
16	3.3	5.4	10.5	11.1	
17	2.5	7.5	8.7	10.8	
18	5.7	5.2	6.5	9.6	
19	6.8	8.3	9.3	11.3	
20	5.8	9.9	11.4	11.2	
21	11.7	10.9	11.5	11.5	
22	11.0	11.3	9.9	11.4	
23	8.6	9.4	10.7	11.4	
24	10.4	10.5	10.9	11.2	
25	11.6	11.4	11.1	1.5	
26	9.6	11.5	11.4	11.5	
27	11.0	11.1	11.4	11.5	
28	11.4	11.2	11.4	11.5	
29	11.4	11.1	10.8	11.3	
30					
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	229.8	260.1	263.9	293.4	
Daily Means	7.9	9.0	9.1	10.1	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	6.9	12.0	9.3	11.3	
2	7.1	5.4	1.2	12.4	
3	4.1	.	9.6	12.3	
4	6.4	10.8	8.2	12.1	
5	6.6	10.2	9.1	12.2	
6	9.6	7.9	5.3	12.3	
7	11.8	0.0	9.1	12.2	
8	11.9	10.8	11.7	11.3	
9	9.4	12.4	9.2	12.0	
10	8.1	12.3	5.7	12.0	
11	10.2	0.0	6.0	11.5	
12	11.4	11.9	11.0	11.7	
13	12.0	12.6	12.2	10.8	
14	11.9	12.2	12.2	11.8	
15	11.8	10.3	12.2	11.6	
16	11.2	11.7	11.8	11.7	
17	9.8	3.2	8.1	11.8	
18	8.5	2.6	12.1	11.6	
19	9.5	8.8	10.5	11.7	
20	6.7	12.3	5.6	11.6	
21	4.8	11.7	8.1	11.8	
22	4.8	11.2	10.8	11.4	
23	7.4	12.2	1.4	4.4	
24	11.5	11.8	11.4	8.5	
25	7.4	10.0	11.4	6.0	
26	10.9	10.1	10.0	11.6	
27	5.2	8.0	11.3	11.6	
28	8.8	10.3	9.3	4.8	
29	7.3	11.6	10.4	9.2	
30					
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	253.0	.	264.2	315.2	
Daily Means	8.7	9.4	9.1	10.9	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	33°27' S	33°37' S	33°39' S	34°58' S	
Longitude	70°42' W	78°50' W	71°36' W	71°12' W	
Elevation	520 m	30 m	74 m	225 m	
Station					
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	
1	9.7	6.4	12.2	12.6	
2	11.2	1.8	12.3	13.1	
3	11.3	9.4	6.8	13.0	
4	11.2	3.8	11.7	13.1	
5	11.2	1.8	11.4	12.9	
6	11.1	2.4	10.7	13.0	
7	11.0	9.5	8.2	13.0	
8	10.9	5.2	11.8	12.9	
9	11.1	10.9	12.3	12.9	
10	11.1	9.6	8.0	12.5	
11	11.0	6.3	2.7	12.2	
12	11.0	3.0	5.6	12.2	
13	10.7	0.7	4.2	12.7	
14	11.0	0.5	1.5	10.8	
15	11.0	0.0	9.8	12.0	
16	10.9	0.5	12.3	12.2	
17	11.2	6.5	11.4	12.5	
18	10.5	8.0	7.7	5.0	
19	10.6	9.8	11.2	9.7	
20	11.2	10.3	11.7	12.4	
21	11.1	10.2	11.6	12.4	
22	11.0	4.8	12.2	12.1	
23	6.2	10.5	2.4	13.0	
24	8.5	1.1	0.1	6.0	
25	4.8	.	6.9	10.4	
26	10.7	9.3	11.5	10.8	
27	9.2	6.3	11.9	3.4	
28	8.2	5.3	12.0	9.5	
29	8.8	6.2	11.5	11.2	
30					
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	297.4	.	263.6	329.5	
Daily Means	10.3	5.7	9.1	11.4	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	13.0	13.0	11.4	6.8	
2	12.0	12.6	10.2	12.2	
3	12.6	12.8	7.7	.	
4	12.5	7.4	6.8	12.1	
5	11.9	12.7	9.9	11.1	
6	12.4	12.5	7.5	6.8	
7	12.7	12.3	3.2	2.0	
8	12.5	12.3	.	12.1	
9	12.7	12.2	9.9	12.9	
10	12.5	12.3	9.9	12.4	
11	12.5	12.4	7.7	11.9	
12	5.0	8.5	.	7.9	
13	10.6	10.0	2.5	9.1	
14	9.3	5.7	4.2	9.8	
15	11.3	8.6	10.4	9.7	
16	11.5	8.7	4.2	0.2	
17	7.5	0.0	3.3	0.0	
18	0.9	7.9	7.3	7.8	
19	9.4	11.9	9.5	5.6	
20	11.9	12.2	9.1	6.9	
21	12.4	12.1	7.1	4.4	
22	12.0	11.9	10.2	11.7	
23	11.7	11.6	9.9	9.7	
24	1.0	0.5	0.0	0.0	
25	7.1	7.5	.	9.4	
26	10.8	11.9	4.0	1.1	
27	4.0	7.5	5.4	3.1	
28	8.8	7.7	.	3.1	
29	9.6	10.5	8.1	7.8	
30					
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	292.1	287.2	.	.	
Daily Means	10.1	9.9	7.2	7.4	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY		Year: 2012		Country: CHILE
Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	2.0	2.7	8.4	
2	12.0	11.4	8.4	
3	7.2	1.5	10.3	
4	4.0	3.9	9.2	
5	2.0	6.3	10.8	
6	2.7	3.9	7.7	
7	2.1	6.5	8.4	
8	12.7	11.9	5.1	
9	11.5	12.2	5.4	
10	11.7	1.8	10.4	
11	2.3	1.0	4.6	
12	11.3	11.4	12.4	
13	11.9	9.3	11.7	
14	5.8	6.0	11.4	
15	5.1	1.0	4.5	
16	0.0	5.4	5.3	
17	0.6	0.0	4.6	
18	6.7	9.7	13.4	
19	6.8	4.2	5.5	
20	7.7	7.5	8.0	
21	0.4	0.2	2.5	
22	7.1	10.8	10.0	
23	7.3	10.6	8.3	
24	7.3	0.0	12.0	
25	7.6	2.1	1.1	
26	0.9	0.9	7.0	
27	3.2	0.5	5.8	
28	4.2	2.7	12.8	
29	5.4	7.3	7.9	
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	169.5	152.7	232.9	
 Daily Means	5.8	5.3	8.0	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MARCH		Year: 2012		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	0.0	11.3	10.2	
2	8.7	8.5	8.6	10.8	
3	8.1	10.8	11.0	10.8	
4	7.7	9.9	10.9	10.9	
5	10.1	10.2	10.8	11.0	
6	6.9	10.9	10.9	10.8	
7	11.0	10.9	11.1	10.7	
8	11.2	9.3	10.4	10.8	
9	10.4	10.3	15.0	9.5	
10	6.6	7.3	10.7	9.6	
11	7.6	8.3	10.9	10.5	
12	4.4	9.3	10.4	8.5	
13	10.8	10.9	11.1	0.5	
14	5.0	5.0	11.0	8.2	
15	6.4	8.7	11.0	7.9	
16	6.2	6.5	10.7	9.0	
17	9.1	10.9	10.7	10.5	
18	8.4	7.4	10.8	10.6	
19	4.9	10.3	10.8	10.9	
20	10.5	10.7	10.7	10.8	
21	10.5	10.6	10.7	10.4	
22	8.3	8.2	10.9	10.2	
23	9.4	0.0	10.8	6.6	
24	9.7	10.0	10.5	10.6	
25	10.5	10.3	10.7	10.2	
26	8.4	10.2	10.7	10.6	
27	11.1	10.4	10.7	10.4	
28	10.2	10.2	10.9	9.7	
29	9.0	9.4	10.6	5.1	
30	1.1	7.6	10.4	8.4	
31	6.9	10.5	10.8	7.8	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	257.8	273.5	336.5	292.5	
 Daily Means	8.3	8.8	10.9	9.4	
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: MARCH		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	7.0	10.4	11.6	11.5	
2	8.2	3.5	11.4	11.5	
3	9.2	7.8	10.2	11.6	
4	6.8	0.0	10.2	11.6	
5	9.9	9.8	8.3	11.3	
6	9.0	8.8	9.7	11.3	
7	9.3	11.0	11.1	11.3	
8	8.9	10.9	6.2	11.0	
9	6.0	10.2	.	11.3	
10	1.3	4.8	3.0	8.5	
11	6.0	0.0	4.9	9.7	
12	6.2	11.4	8.0	10.2	
13	6.8	6.7	7.1	10.6	
14	7.3	8.7	2.4	10.7	
15	5.9	4.7	0.0	10.4	
16	6.9	1.0	5.4	8.5	
17	11.1	0.8	11.1	7.6	
18	11.0	9.8	11.1	10.5	
19	7.5	10.4	10.1	9.9	
20	9.3	10.4	11.0	9.5	
21	7.3	9.0	8.5	10.4	
22	2.8	9.6	1.6	10.7	
23	5.4	5.3	1.4	10.8	
24	9.8	10.1	6.9	10.5	
25	10.4	5.9	8.2	10.6	
26	5.2	10.0	6.0	10.7	
27	6.3	5.5	4.2	10.8	
28	7.6	7.1	9.2	10.4	
29	7.8	0.5	6.7	10.3	
30	.	9.3	3.1	9.3	
31	6.5	9.4	3.1	10.4	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	222.8	.	323.4	
 Daily Means	7.4	7.2	7.1	10.4	
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: MARCH		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	33°27' S	33°37' S	33°39' S	34°58' S	
Longitude	70°42' W	78°50' W	71°36' W	71°12' W	
Elevation	520 m	30 m	74 m	225 m	
Station					
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	
1	10.9	8.3	11.8	11.5	
2	10.8	6.2	11.5	12.0	
3	10.7	5.4	11.7	8.9	
4	10.7	6.7	11.7	11.4	
5	10.0	7.0	8.0	7.4	
6	10.1	.	10.8	11.3	
7	10.5	9.5	10.7	11.1	
8	10.4	9.1	3.0	11.9	
9	9.9	9.8	8.0	9.7	
10	8.5	9.0	0.0	6.0	
11	8.2	7.6	8.1	7.5	
12	9.6	5.6	8.5	9.8	
13	9.7	7.6	10.3	8.9	
14	9.7	8.6	9.9	10.3	
15	9.0	8.2	3.9	10.2	
16	8.5	5.9	1.5	5.6	
17	6.8	3.5	9.6	7.7	
18	8.9	6.6	10.6	10.3	
19	8.4	1.6	7.3	7.4	
20	8.3	0.2	0.7	8.7	
21	8.6	1.6	2.7	8.3	
22	8.7	5.8	10.0	7.5	
23	8.6	8.3	0.9	9.4	
24	8.8	0.5	5.5	9.9	
25	8.8	3.5	7.7	7.0	
26	9.0	6.0	9.2	7.5	
27	9.0	9.4	9.4	10.2	
28	8.8	8.8	0.0	10.0	
29	8.9	8.6	3.0	8.7	
30	8.8	9.0	0.4	9.9	
31	8.9	8.7	2.4	9.4	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	286.5	.	208.8	285.4	
 Daily Means	9.2	6.6	6.7	9.2	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MARCH		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	11.8	11.5	1.6	0.0	
2	9.6	2.2	0.1	3.0	
3	10.4	11.4	5.6	4.2	
4	10.5	4.4	2.8	1.1	
5	6.2	10.1	.	10.5	
6	11.1	11.4	9.0	8.8	
7	11.1	11.4	9.5	10.0	
8	11.0	11.1	9.6	10.6	
9	3.9	4.4	0.0	0.0	
10	6.8	11.8	8.3	9.1	
11	4.0	1.0	2.2	3.0	
12	10.0	9.3	4.9	6.6	
13	10.7	11.1	8.2	7.8	
14	10.6	11.1	9.1	10.5	
15	11.4	6.7	9.0	10.6	
16	0.0	0.0	3.9	9.2	
17	4.3	0.1	0.2	0.0	
18	8.9	6.0	1.5	1.1	
19	4.3	5.1	3.0	.	
20	8.0	6.1	8.0	.	
21	8.9	7.9	8.8	3.7	
22	10.3	10.6	8.8	8.1	
23	8.9	9.8	8.1	8.6	
24	9.3	9.9	3.5	.	
25	9.5	9.7	10.0	9.3	
26	10.2	10.1	9.0	.	
27	10.7	10.7	9.0	10.4	
28	11.8	9.9	.	7.7	
29	9.5	10.8	8.3	10.2	
30	9.7	10.1	8.8	9.2	
31	10.0	10.0	5.5	5.8	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	273.4	255.7	.	.	
 Daily Means	8.8	8.2	6.1	6.6	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MARCH Year: 2012 Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	1.0	3.6	1.9	
2	4.5	3.7	6.6	
3	1.7	6.3	3.2	
4	1.4	5.5	10.4	
5	8.2	3.4	4.8	
6	6.6	4.1	5.5	
7	10.5	6.6	5.1	
8	9.7	9.2	5.1	
9	0.0	10.2	4.1	
10	10.3	6.7	2.8	
11	4.2	2.5	0.0	
12	2.9	3.7	0.0	
13	7.8	7.6	1.4	
14	7.4	9.6	2.2	
15	9.0	5.2	8.3	
16	0.2	9.0	4.9	
17	0.0	0.6	5.8	
18	0.0	7.9	9.6	
19	5.9	8.4	6.3	
20	10.8	6.8	6.2	
21	4.9	4.8	10.3	
22	8.6	3.9	5.0	
23	8.6	8.6	1.4	
24	3.9	9.2	5.8	
25	9.3	9.4	8.6	
26	9.6	7.9	0.2	
27	9.5	3.2	7.1	
28	1.2	4.6	1.0	
29	9.2	3.0	1.8	
30	7.8	8.4	4.9	
31	1.8	9.1	8.8	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	176.5	192.7	149.1	
Daily Means	5.7	6.2	4.8	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: APRIL		Year: 2012		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	6.7	5.7	10.7	5.0	
2	10.8	10.6	10.9	9.4	
3	8.9	5.9	8.1	8.8	
4	9.5	2.8	6.6	7.3	
5	10.2	8.6	8.5	9.0	
6	9.9	8.7	9.9	7.6	
7	10.6	10.5	11.8	9.7	
8	8.5	7.4	10.8	6.1	
9	5.2	8.7	6.6	5.8	
10	10.2	10.2	9.7	10.8	
11	5.2	7.9	8.2	9.4	
12	3.5	2.6	0.8	5.8	
13	10.1	10.7	9.3	11.0	
14	10.6	10.8	10.9	9.6	
15	8.4	10.8	11.2	8.4	
16	10.2	10.7	11.1	10.3	
17	7.2	10.4	10.8	7.3	
18	10.1	10.6	10.9	9.3	
19	10.4	10.8	10.8	10.6	
20	10.8	9.4	10.7	.	
21	10.5	10.7	10.5	10.9	
22	10.6	10.7	10.6	10.5	
23	9.3	9.3	10.1	10.6	
24	10.1	10.4	9.9	10.4	
25	10.1	9.1	10.2	3.1	
26	10.5	10.7	9.2	10.5	
27	6.1	5.9	10.3	7.3	
28	9.0	10.6	10.4	10.3	
29	10.5	10.4	10.4	9.9	
30	7.0	10.4	10.4	8.5	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	270.7	272.0	290.3	.	
Daily Means	9.0	9.1	9.7	8.7	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: APRIL		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	3.9	2.3	1.2	10.2	
2	6.1	8.7	2.1	10.2	
3	5.0	8.7	0.0	9.2	
4	10.0	9.8	7.3	7.1	
5	7.0	5.9	10.1	9.7	
6	6.8	9.5	10.0	10.3	
7	9.6	5.5	5.3	10.2	
8	1.2	7.9	0.0	0.9	
9	5.3	0.3	3.4	4.8	
10	9.8	6.6	6.9	6.1	
11	8.2	6.5	5.7	10.0	
12	9.3	10.0	7.7	9.2	
13	10.2	7.3	8.5	0.2	
14	10.5	3.6	3.0	8.7	
15	0.0	6.4	0.0	9.4	
16	5.8	6.6	1.8	10.0	
17	1.4	9.4	6.2	10.0	
18	3.8	10.7	0.0	9.7	
19	0.0	6.6	0.0	9.7	
20	9.9	3.9	0.8	9.7	
21	10.4	4.2	9.6	9.6	
22	10.4	3.3	4.9	8.9	
23	9.8	9.5	.	1.5	
24	10.2	8.2	.	6.4	
25	3.0	5.9	.	5.0	
26	10.3	7.9	4.1	0.0	
27	4.9	7.1	0.9	0.7	
28	10.4	5.8	0.9	0.4	
29	10.2	9.6	10.0	8.3	
30	10.1	6.0	9.8	9.2	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	213.5	203.7	.	215.3	
Daily Means	7.1	6.8	4.5	7.2	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: APRIL Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	33°37' S	33°39' S	34°58' S
Longitude	70°42' W	78°50' W	71°36' W	71°12' W
Elevation	520 m	30 m	74 m	225 m
Station				
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
1	8.8	3.3	6.6	5.7
2	8.9	7.1	3.8	9.4
3	8.6	5.3	0.0	9.7
4	5.2	2.4	6.8	5.6
5	8.2	8.6	10.6	9.2
6	8.1	7.8	10.3	9.9
7	9.1	4.8	9.7	5.8
8	0.8	0.6	0.3	0.1
9	2.6	5.7	4.2	3.5
10	4.2	4.2	8.1	7.5
11	8.6	5.2	8.8	9.5
12	7.8	.	3.0	7.6
13	0.0	2.9	2.2	2.1
14	7.9	0.0	10.0	6.3
15	7.9	4.4	10.2	8.2
16	8.7	0.8	10.5	7.8
17	8.4	4.2	8.3	9.4
18	8.3	5.7	6.9	9.0
19	8.3	3.7	9.2	8.0
20	8.2	1.5	6.4	8.2
21	8.3	6.4	0.0	6.9
22	7.8	8.3	0.0	8.3
23	0.0	7.6	0.0	0.0
24	6.4	4.0	8.1	3.4
25	5.4	0.3	3.9	4.4
26	0.0	4.2	0.0	0.0
27	0.5	5.0	6.5	3.0
28	1.8	0.1	1.3	1.1
29	7.8	1.2	9.8	8.7
30	7.9	3.3	9.6	9.2
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	184.5	.	175.1	187.5
 Daily Means	6.2	4.1	5.8	6.3
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: APRIL		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	8.9	10.7	7.3	10.3	
2	10.5	10.0	9.3	8.2	
3	9.6	9.9	8.0	6.7	
4	3.5	7.3	6.8	8.4	
5	10.5	8.0	0.6	0.0	
6	9.5	8.0	1.2	3.2	
7	6.1	3.6	0.4	6.3	
8	8.7	9.5	8.4	8.8	
9	5.7	10.1	4.8	0.1	
10	9.1	7.5	7.7	3.5	
11	8.0	9.6	6.9	3.9	
12	8.5	9.2	3.1	2.7	
13	2.4	4.8	5.7	.	
14	8.3	9.7	7.7	3.1	
15	3.4	3.9	3.6	5.0	
16	5.7	8.7	3.7	1.3	
17	8.6	9.3	7.1	5.5	
18	9.0	9.7	4.6	3.7	
19	9.4	9.9	5.4	4.3	
20	9.3	9.7	.	7.2	
21	7.4	9.8	8.7	8.4	
22	8.9	3.3	8.3	9.7	
23	3.8	4.8	8.7	9.6	
24	0.6	2.2	1.7	0.9	
25	2.0	1.3	1.8	2.9	
26	0.0	0.5	0.0	1.6	
27	0.0	3.7	1.5	0.8	
28	0.2	1.6	1.3	.	
29	9.7	8.4	6.1	.	
30	7.9	1.4	0.5	.	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	195.2	206.1	.	.	
Daily Means	6.5	6.9	4.9	4.9	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: APRIL Year: 2012 Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	9.9	7.1	9.4	
2	8.9	5.2	0.8	
3	0.0	4.1	7.8	
4	6.8	6.2	4.6	
5	0.5	7.6	7.9	
6	0.3	0.0	2.5	
7	3.2	8.5	4.2	
8	8.2	9.1	6.7	
9	6.3	2.2	0.1	
10	8.4	8.0	1.2	
11	8.0	4.0	5.3	
12	0.2	0.9	7.7	
13	5.8	5.5	2.4	
14	0.0	6.8	4.7	
15	1.8	2.0	0.0	
16	3.3	3.6	2.9	
17	2.1	3.6	6.0	
18	3.1	3.7	6.6	
19	0.6	4.1	2.8	
20	0.0	8.8	7.5	
21	7.0	6.5	8.9	
22	7.2	4.6	8.7	
23	6.6	4.5	5.2	
24	2.4	6.6	8.7	
25	7.0	6.7	5.2	
26	1.8	5.8	1.1	
27	4.8	4.9	0.0	
28	1.1	2.9	2.4	
29	2.2	5.6	6.5	
30	3.1	0.6	3.3	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	120.6	149.7	141.1	
 Daily Means	4.0	5.0	4.7	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MAY		Year: 2012		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	9.5	8.5	10.2	8.3	
2	8.9	9.6	9.9	9.2	
3	10.4	10.0	10.3	7.7	
4	6.0	9.4	10.2	8.3	
5	4.1	0.0	9.9	3.9	
6	5.7	7.3	10.2	1.3	
7	5.2	5.4	10.4	6.3	
8	6.4	4.0	10.4	6.6	
9	4.6	7.1	10.5	8.9	
10	6.2	5.3	10.4	6.7	
11	5.1	3.2	9.1	6.1	
12	9.7	4.4	9.9	0.0	
13	8.0	7.2	10.3	9.8	
14	10.0	9.9	10.2	10.1	
15	7.6	9.4	10.1	8.1	
16	5.4	6.1	10.3	6.5	
17	3.7	0.0	10.1	5.6	
18	5.7	5.0	10.2	8.1	
19	6.6	0.0	10.1	7.4	
20	6.4	6.5	10.0	9.1	
21	9.3	8.6	10.1	8.8	
22	7.8	7.8	10.1	7.0	
23	9.8	9.2	10.0	8.3	
24	9.8	8.3	10.0	8.2	
25	0.0	7.6	10.0	9.5	
26	9.5	9.4	9.9	8.9	
27	5.1	8.3	9.9	9.2	
28	4.1	0.0	10.1	7.3	
29	9.8	5.1	10.0	8.1	
30	6.4	3.7	9.9	10.1	
31	5.9	7.9	9.8	8.1	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	212.7	194.2	312.5	231.5	
 Daily Means	6.9	6.3	10.1	7.5	
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: MAY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	3.8	5.4	4.9	6.4	
2	4.2	5.6	3.3	7.5	
3	4.4	7.8	0.6	5.8	
4	5.3	8.0	1.4	8.1	
5	2.2	4.6	0.5	8.7	
6	3.5	5.1	5.2	4.4	
7	7.7	3.3	7.4	5.0	
8	2.7	4.0	0.0	1.0	
9	1.0	7.3	1.3	5.2	
10	2.6	6.6	8.4	2.7	
11	4.4	2.5	8.3	5.4	
12	0.0	10.0	4.3	1.4	
13	8.6	4.2	5.0	3.7	
14	9.2	9.0	9.4	7.2	
15	7.3	5.0	8.1	3.3	
16	9.5	9.8	9.3	7.6	
17	0.0	4.4	7.6	0.0	
18	6.4	0.0	.	7.7	
19	0.5	7.5	8.2	6.2	
20	5.7	6.4	9.2	5.6	
21	6.2	4.0	7.3	6.2	
22	1.1	6.3	0.4	4.1	
23	7.4	9.0	7.0	8.7	
24	3.5	6.3	0.3	0.3	
25	4.2	3.5	0.2	0.0	
26	0.0	4.5	0.0	0.0	
27	9.4	0.0	4.5	0.0	
28	7.3	6.2	9.6	2.0	
29	6.8	5.9	9.0	3.5	
30	3.4	5.2	7.5	2.5	
31	1.7	4.5	4.0	1.5	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	140.0	171.9	.	131.7	
 Daily Means	4.5	5.5	5.1	4.2	
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: MAY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	33°27' S	33°37' S	33°39' S	34°58' S	
Longitude	70°42' W	78°50' W	71°36' W	71°12' W	
Elevation	520 m	30 m	74 m	225 m	
Station					
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	
1	6.1	2.1	2.6	1.3	
2	6.5	3.2	6.6	4.9	
3	4.3	2.0	7.7	7.0	
4	6.7	0.1	2.0	6.6	
5	7.5	0.7	0.2	3.7	
6	3.2	5.5	0.0	2.1	
7	3.1	.	7.3	3.2	
8	1.1	7.1	4.4	3.5	
9	4.1	4.9	6.2	6.6	
10	2.3	2.4	5.2	0.0	
11	4.0	0.8	8.0	7.8	
12	0.4	1.6	0.0	0.4	
13	0.3	1.6	3.6	0.3	
14	7.1	1.1	8.5	7.0	
15	3.2	4.6	1.9	1.6	
16	6.4	4.5	6.5	1.3	
17	0.0	6.3	0.0	0.0	
18	7.2	5.9	7.6	4.8	
19	4.7	0.6	8.5	2.6	
20	5.4	4.7	7.0	0.1	
21	5.3	3.3	5.0	2.0	
22	2.8	0.0	2.3	1.6	
23	7.4	0.0	9.3	7.6	
24	0.2	0.8	0.3	0.1	
25	0.0	3.1	0.0	0.0	
26	0.0	4.1	0.0	0.0	
27	0.0	4.0	0.0	0.0	
28	0.6	2.6	2.3	0.0	
29	2.3	3.7	5.3	0.3	
30	4.8	6.5	7.8	6.7	
31	0.7	4.9	7.5	1.2	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	107.7	.	133.6	84.3	
 Daily Means	3.5	3.1	4.3	2.7	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MAY		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	1.4	5.5	.	.	
2	3.5	3.8	1.0	.	
3	6.4	5.7	6.6	.	
4	4.5	5.7	3.7	.	
5	3.1	0.1	2.0	.	
6	0.0	0.0	0.6	.	
7	7.9	8.8	7.7	.	
8	5.6	8.6	3.3	.	
9	5.1	5.8	1.6	.	
10	0.0	0.0	0.0	.	
11	6.9	7.6	7.0	.	
12	0.0	1.2	7.6	.	
13	0.3	6.7	.	.	
14	4.0	2.8	2.1	.	
15	0.1	0.6	0.0	.	
16	0.0	1.5	3.1	.	
17	0.7	4.0	1.3	.	
18	3.4	5.1	0.9	.	
19	0.0	0.0	0.8	.	
20	4.3	6.6	3.2	.	
21	0.4	2.7	7.8	.	
22	0.2	3.5	4.8	.	
23	5.1	6.8	6.7	.	
24	1.3	1.4	5.8	.	
25	0.0	0.0	0.1	.	
26	0.0	0.0	0.0	.	
27	0.0	1.6	0.0	.	
28	0.0	0.0	1.8	.	
29	3.9	4.6	.	.	
30	3.7	4.4	2.8	.	
31	4.0	3.4	0.0	.	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	75.8	108.5	.	.	
Daily Means	2.4	3.5	2.9	.	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MAY Year: 2012 Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	2.2	0.0	0.2	
2	0.9	3.2	2.3	
3	0.0	3.8	4.0	
4	2.7	1.2	8.2	
5	2.6	0.6	0.0	
6	0.1	2.9	0.8	
7	3.9	6.1	7.9	
8	2.3	2.4	3.5	
9	1.5	4.0	3.8	
10	0.0	4.8	0.4	
11	3.8	4.5	0.8	
12	6.2	3.2	5.0	
13	1.1	2.0	3.0	
14	0.4	0.7	3.9	
15	0.0	0.0	0.4	
16	0.3	0.0	1.2	
17	0.9	4.9	3.6	
18	1.1	0.8	0.0	
19	4.8	0.3	0.0	
20	4.0	3.9	1.9	
21	3.6	5.2	2.7	
22	5.7	6.2	3.6	
23	1.8	6.6	7.3	
24	2.1	0.0	4.1	
25	0.0	0.0	2.9	
26	0.0	0.0	0.0	
27	1.7	0.3	0.0	
28	3.6	0.0	0.0	
29	0.2	0.9	6.9	
30	0.0	3.1	5.1	
31	0.0	0.0	6.1	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	57.5	71.6	89.6	
 Daily Means	1.9	2.3	2.9	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE		Year: 2012		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	2.5	5.6	9.8	5.7	
2	7.1	6.2	9.7	6.8	
3	9.7	6.8	9.7	6.8	
4	6.7	8.2	9.6	7.9	
5	6.0	8.1	9.7	5.5	
6	6.5	8.2	9.8	7.5	
7	5.0	5.6	9.9	7.0	
8	3.4	5.9	9.7	7.0	
9	4.8	6.7	9.8	7.5	
10	8.1	3.6	9.8	4.2	
11	6.7	4.9	8.9	5.7	
12	5.2	3.6	9.4	7.2	
13	5.6	1.0	8.9	5.7	
14	5.3	1.9	9.0	7.5	
15	5.6	3.7	9.0	0.0	
16	3.8	1.5	9.8	7.8	
17	1.3	0.0	9.6	3.6	
18	3.8	1.6	9.6	5.4	
19	5.6	0.0	8.3	7.1	
20	1.7	0.7	7.8	9.0	
21	4.7	7.7	10.0	7.5	
22	6.0	5.6	10.0	8.8	
23	4.8	0.4	9.8	5.7	
24	5.3	5.1	9.8	7.5	
25	4.3	3.4	10.0	6.5	
26	8.5	6.6	10.0	6.7	
27	5.1	4.4	10.1	8.7	
28	0.8	3.6	9.9	8.1	
29	1.6	4.8	9.9	6.7	
30	3.8	1.2	9.9	0.4	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	149.3	126.6	287.2	191.5	
Daily Means	5.0	4.2	9.6	6.4	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	27°15'S	27°10' S	29°57' S	33°23' S	
Longitude	70°46'W	109°26' W	71°22' W	70°47' W	
Elevation	204 m	47 m	25 m	474 m	
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL	
Date					
1	3.9	0.0	7.2	2.5	
2	0.0	3.5	0.8	9.2	
3	0.0	5.6	3.9	7.6	
4	2.5	6.0	7.3	7.6	
5	7.5	6.5	9.1	7.9	
6	5.5	7.3	9.1	7.8	
7	5.9	7.9	4.9	8.7	
8	4.5	6.7	3.7	7.7	
9	6.7	8.0	0.2	0.0	
10	8.2	7.9	.	1.4	
11	8.3	4.9	7.9	3.9	
12	8.3	7.6	0.7	0.0	
13	9.7	6.3	9.3	1.2	
14	9.2	9.0	6.3	0.0	
15	5.4	6.8	0.0	0.2	
16	9.3	0.9	.	7.3	
17	9.1	5.5	3.1	0.0	
18	8.2	7.4	8.9	7.3	
19	8.5	5.2	6.2	5.4	
20	5.2	3.2	4.4	0.0	
21	9.3	4.8	9.2	4.9	
22	9.3	4.0	9.5	7.3	
23	6.9	4.6	9.3	7.9	
24	6.6	0.0	5.5	7.3	
25	4.9	6.8	7.5	7.7	
26	1.2	4.2	0.4	7.2	
27	7.9	3.5	3.5	0.0	
28	9.5	5.0	15.6	0.0	
29	9.2	0.0	4.8	14.0	
30	0.0	0.0	7.3	0.0	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	190.7	149.1	.	142.0	
Daily Means	6.4	5.0	5.9	4.7	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE Year: 2012 Country: CHILE

Daily Totals				
Latitude	33°27' S	33°37' S	33°39' S	34°58' S
Longitude	70°42' W	78°50' W	71°36' W	71°12' W
Elevation	520 m	30 m	74 m	225 m
Station				
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
1	1.3	3.5	5.3	0.0
2	5.9	6.4	9.2	0.1
3	5.6	4.4	9.4	7.5
4	7.0	2.3	8.7	0.0
5	7.2	0.0	8.1	4.3
6	7.5	4.8	9.0	5.3
7	7.6	6.8	9.2	7.5
8	7.4	2.7	7.2	7.5
9	0.0	2.5	0.0	0.0
10	0.0	0.1	1.5	0.0
11	1.6	0.0	0.3	0.0
12	0.0	3.3	0.0	0.0
13	0.0	6.5	0.0	0.3
14	0.0	0.0	0.0	0.0
15	0.1	2.3	0.0	0.3
16	6.2	1.6	0.3	1.7
17	0.0	0.7	0.0	0.0
18	6.7	3.1	5.0	4.7
19	5.6	1.8	1.4	0.0
20	0.0	1.8	0.0	0.0
21	5.3	3.4	7.8	5.0
22	6.5	0.6	7.0	4.0
23	7.0	5.0	8.0	6.3
24	7.0	0.7	8.5	6.8
25	7.0	6.8	8.9	3.1
26	5.8	5.1	0.2	7.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	7.0	0.0	0.0
30	0.0	5.0	0.0	0.0
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	108.3	88.2	115.0	71.4
Daily Means	3.6	2.9	3.8	2.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JUNE		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	36°36' S	36°46' S	38°45' S	39°41' S	
Longitude	72°26' W	73°03' W	72°38' W	73°04' W	
Elevation	124 m	12 m	114 m	19 m	
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA	
Date					
1	0.0	0.0	0.0	.	
2	6.0	7.3	.	.	
3	8.0	7.6	4.1	.	
4	6.2	8.4	6.0	.	
5	7.8	7.8	5.6	.	
6	8.5	8.6	6.3	.	
7	8.2	8.5	7.5	.	
8	6.6	8.2	4.1	.	
9	0.0	0.0	3.3	.	
10	0.2	0.0	0.0	.	
11	0.0	0.0	0.0	.	
12	0.0	0.0	0.0	.	
13	3.7	4.1	0.0	.	
14	0.0	1.6	3.8	.	
15	0.0	1.1	0.0	.	
16	3.4	0.6	0.0	.	
17	1.2	1.2	0.0	.	
18	0.3	0.0	0.9	2.8	
19	0.0	0.1	0.0	0.0	
20	2.7	3.9	0.3	3.0	
21	2.5	2.6	0.0	0.0	
22	0.0	0.0	0.0	0.0	
23	0.5	1.7	1.2	0.0	
24	6.6	6.0	8.2	.	
25	5.3	8.6	4.5	0.0	
26	4.4	6.6	3.6	.	
27	0.0	0.0	0.0	1.4	
28	1.9	0.0	7.6	6.4	
29	0.0	0.0	3.9	0.9	
30	1.3	1.5	0.1	0.0	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	85.3	96.0	.	.	
Daily Means	2.8	3.2	2.4	.	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE		Year: 2012		Country: CHILE	
Daily Totals					
Latitude	41°26' S	45°35' S	53°08' S		
Longitude	73°07' W	72°07' W	70°58' W		
Elevation	81 m	310 m	37 m		
Station					
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS		
1	0.0	0.0	0.3		
2	2.9	1.3	0.3		
3	1.6	6.0	4.2		
4	2.2	1.5	1.4		
5	5.9	1.5	4.5		
6	3.9	0.0	5.2		
7	1.1	5.9	5.9		
8	5.6	0.8	3.3		
9	1.1	4.9	3.3		
10	1.6	6.3	1.0		
11	0.0	3.9	1.5		
12	0.0	2.5	5.3		
13	2.6	4.8	3.0		
14	4.8	4.0	6.6		
15	7.2	3.5	0.0		
16	0.0	1.3	6.1		
17	3.3	2.1	0.0		
18	0.3	0.0	4.2		
19	0.4	1.5	0.0		
20	1.8	3.1	4.8		
21	0.0	2.4	3.3		
22	0.0	1.5	2.4		
23	0.0	0.0	6.8		
24	6.2	4.6	3.8		
25	4.4	2.0	0.0		
26	0.1	0.0	0.0		
27	1.4	3.8	0.7		
28	0.0	0.0	3.4		
29	1.6	0.0	0.5		
30	0.6	3.0	3.4		
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	60.6	72.2	85.2		
 Daily Means	2.0	2.4	2.8		
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL	CAMPBELL		
	STOKES	STOKES	STOKES		