



Dirección Meteorológica de Chile
Subdepartamento de Climatología y Meteorología Aplicada



Informe Solarimétrico
II Semestre 2014

Chile

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

Month: JULY Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	15.92	.	6.75
2	.	16.01	15.43	7.71
3	.	15.77	15.45	7.75
4	.	15.99	8.59	7.77
5	.	16.22	15.87	8.10
6	.	16.75	15.66	10.14
7	.	16.65	14.55	10.17
8	.	16.61	14.84	10.49
9	.	16.39	13.63	10.52
10	.	15.55	13.65	9.98
11	.	12.02	13.67	10.02
12	.	16.14	15.09	9.92
13	.	16.14	14.81	10.36
14	.	16.30	11.00	10.40
15	.	16.90	11.49	8.87
16	.	17.01	13.76	8.92
17	.	17.21	15.48	10.35
18	.	17.22	15.02	10.38
19	.	16.95	16.01	10.39
20	.	16.92	15.89	10.41
21	.	16.97	14.68	3.31
22	.	17.08	15.10	3.35
23	.	17.55	16.82	8.90
24	.	17.89	17.61	10.57
25	.	17.99	16.81	11.00
26	.	17.65	15.44	11.03
27	.	18.08	16.76	8.09
28	.	17.82	16.10	8.13
29	.	18.35	15.73	10.62
30	.	17.87	14.64	10.64
31	.	17.40	16.02	3.77
TT Monthly Totals	.	519.32	.	278.81
 Daily Means	.	16.75	14.85	8.99
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: JULY Year: 2014 Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S	53°00' S	
Longitude	73°05' W	72°07' W	70°51' W	
Elevation	85 m	310 m	37 m	
Station	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	.	.	.	
2	3.62	4.70	.	
3	2.33	3.07	.	
4	4.74	3.37	.	
5	3.12	2.18	.	
6	3.14	0.66	.	
7	6.95	4.83	.	
8	6.25	3.79	.	
9	6.13	5.35	1.74	
10	6.37	5.20	2.76	
11	2.26	4.14	2.76	
12	4.80	4.16	1.70	
13	1.15	2.43	1.70	
14	1.85	2.73	1.39	
15	2.53	3.27	1.57	
16	2.50	5.05	2.21	
17	2.93	1.44	2.43	
18	2.93	1.88	2.43	
19	5.95	2.86	2.31	
20	1.12	3.77	2.78	
21	4.47	3.39	2.78	
22	5.85	3.76	2.53	
23	6.13	5.04	2.53	
24	2.63	4.87	2.70	
25	6.28	3.98	1.03	
26	3.29	5.84	3.70	
27	1.00	0.50	3.70	
28	5.51	2.43	1.85	
29	5.12	4.07	3.88	
30	0.89	2.52	3.88	
31	1.04	4.10	4.44	
TT Monthly Totals	.	.	.	
 Daily Means	3.76	3.51	.	
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: AUGUST Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	18.56	16.63	11.36
2	.	18.82	10.82	11.37
3	.	18.93	15.17	10.70
4	.	19.24	12.01	8.54
5	.	18.87	17.10	10.48
6	.	18.74	10.30	10.51
7	.	18.78	15.50	13.09
8	.	9.01	12.40	13.12
9	.	15.39	17.57	13.14
10	.	19.11	15.23	12.56
11	.	19.57	13.50	12.15
12	.	19.70	14.88	13.12
13	.	19.98	16.85	13.76
14	.	19.48	14.94	13.78
15	.	19.98	14.19	13.04
16	.	20.24	15.58	13.91
17	.	20.61	16.64	14.35
18	.	20.21	15.93	14.64
19	.	20.40	16.62	14.66
20	.	20.63	17.08	13.12
21	.	20.89	18.17	13.13
22	.	20.98	7.37	12.50
23	.	21.26	19.25	11.63
24	.	21.56	19.58	6.50
25	.	22.01	20.11	15.11
26	.	21.74	18.87	15.37
27	.	21.28	20.19	2.96
28	.	21.78	17.66	9.00
29	.	22.23	14.49	12.48
30	.	20.97	17.47	13.07
31	.	21.78	15.63	13.09
TT Monthly Totals	.	612.71	487.72	376.21
 Daily Means	.	19.76	15.73	12.14
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: AUGUST

Year: 2014

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S	53°00' S	
Longitude	73°05' W	72°07' W	70°51' W	
Elevation	85 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	0.70	1.33	3.68	
2	4.75	5.16	3.68	
3	5.48	6.13	3.27	
4	5.97	3.96	4.40	
5	5.10	2.15	4.40	
6	6.47	6.80	4.86	
7	6.09	5.76	5.10	
8	4.75	5.15	5.10	
9	5.06	7.61	5.06	
10	7.48	4.97	5.51	
11	4.34	3.09	5.51	
12	7.78	5.53	3.59	
13	10.50	6.92	3.59	
14	8.88	5.98	3.22	
15	3.63	2.89	5.30	
16	3.64	5.19	5.30	
17	3.88	3.88	3.25	
18	8.97	6.06	6.01	
19	6.75	3.57	6.01	
20	4.93	3.63	5.10	
21	8.03	7.13	4.46	
22	2.74	0.89	7.17	
23	8.40	3.76	5.34	
24	8.09	4.86	5.34	
25	7.25	9.23	2.98	
26	12.65	6.28	3.49	
27	10.66	7.50	3.49	
28	10.11	7.79	5.49	
29	6.24	4.66	5.49	
30	8.35	5.22	4.03	
31	9.21	9.29	1.85	
TT Monthly Totals	206.90	162.36	141.07	
Daily Means	6.67	5.24	4.55	
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: SEPTEMBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	22.26	14.31	19.76
2	.	22.84	18.79	4.78
3	.	22.80	6.32	5.20
4	.	22.45	18.97	14.25
5	.	22.74	19.98	14.26
6	.	23.24	16.65	12.24
7	.	24.11	20.97	16.93
8	.	23.46	19.18	16.93
9	.	24.01	12.18	14.13
10	.	24.33	13.13	18.18
11	.	24.04	17.03	18.18
12	.	23.13	11.66	18.03
13	.	23.56	19.05	17.93
14	.	24.22	22.77	18.89
15	.	24.66	16.51	19.00
16	.	24.56	16.78	11.58
17	.	11.59	10.82	11.60
18	.	24.47	23.18	16.50
19	.	25.47	21.09	16.58
20	.	25.76	23.19	15.11
21	.	25.98	22.67	14.47
22	.	25.86	22.35	14.48
23	.	25.24	12.66	10.41
24	.	26.05	20.18	10.44
25	.	26.23	20.97	20.64
26	.	25.19	23.49	20.67
27	.	22.80	21.53	12.21
28	.	25.25	24.83	19.80
29	.	26.27	25.79	19.81
30	.	26.49	26.30	19.75
31	.			
TT Monthly Totals	.	719.10	563.29	462.74
 Daily Means	.	23.97	18.78	15.42
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: SEPTEMBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S	53°00' S	
Longitude	73°05' W	72°07' W	70°51' W	
Elevation	85 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	5.11	3.87	13.87	
2	4.18	7.95	2.79	
3	8.14	5.65	4.43	
4	11.25	10.43	8.90	
5	9.46	3.92	8.90	
6	3.81	7.18	6.08	
7	12.28	8.82	3.13	
8	6.90	4.67	9.20	
9	8.25	11.27	9.20	
10	7.00	10.12	9.36	
11	14.59	7.71	9.36	
12	9.66	11.72	9.62	
13	16.14	7.31	9.62	
14	6.17	11.38	8.89	
15	11.82	9.26	.	
16	7.41	11.19	.	
17	12.19	5.08	.	
18	3.02	6.39	.	
19	6.75	4.01	.	
20	3.10	8.58	.	
21	7.74	4.95	.	
22	10.16	6.37	.	
23	13.10	13.43	.	
24	3.46	10.11	.	
25	10.28	13.05	.	
26	7.76	16.12	.	
27	3.85	17.40	.	
28	5.13	17.94	.	
29	9.19	7.17	.	
30	11.86	16.74	13.87	
31				
TT Monthly Totals	249.74	279.81	.	
 Daily Means	8.32	9.33	.	
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: OCTOBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	.	25.13	22.31	26.83
2	.	25.85	18.94	21.67
3	.	20.75	19.24	21.67
4	.	26.53	24.94	17.08
5	.	27.43	21.96	22.17
6	.	26.83	25.37	23.03
7	.	27.20	26.01	23.04
8	.	27.33	24.10	22.68
9	.	27.49	27.34	20.69
10	.	27.39	27.69	23.14
11	.	27.42	26.33	23.30
12	.	27.43	24.70	23.32
13	.	27.64	23.40	22.76
14	.	27.44	23.27	22.76
15	15.31	26.02	21.87	17.47
16	20.76	27.28	23.50	17.48
17	21.07	27.16	27.04	18.30
18	24.07	27.48	21.53	18.35
19	24.38	27.88	26.80	24.67
20	20.54	24.02	26.12	24.71
21	22.69	13.29	24.06	24.65
22	25.47	27.58	23.32	24.67
23	22.86	28.33	25.47	24.13
24	24.99	28.53	26.52	24.30
25	15.66	28.52	17.42	25.00
26	23.00	28.38	27.99	25.37
27	16.18	28.54	18.82	25.39
28	24.28	28.47	22.96	20.86
29	21.11	28.81	27.94	23.80
30	18.93	29.13	24.88	23.85
31	16.79	29.32	24.33	26.80
TT Monthly Totals	.	830.59	746.18	703.94
 Daily Means	.	26.79	24.07	22.71
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: OCTOBER

Year: 2014

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S	53°00' S	
Longitude	73°05' W	72°07' W	70°51' W	
Elevation	85 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	17.60	13.44	15.96	
2	18.84	15.81	15.96	
3	13.80	14.69	10.15	
4	6.98	17.27	10.15	
5	8.74	12.93	8.40	
6	17.58	12.05	10.36	
7	13.49	16.15	16.70	
8	9.62	16.00	16.70	
9	16.13	18.43	7.29	
10	10.70	14.50	14.00	
11	3.66	15.93	.	
12	.	9.56	.	
13	.	19.59	.	
14	.	16.69	14.19	
15	5.68	6.76	15.61	
16	12.42	8.34	15.61	
17	7.83	6.14	13.92	
18	12.04	13.42	18.99	
19	5.03	6.67	19.00	
20	7.73	10.54	17.78	
21	7.90	12.44	17.80	
22	21.38	15.24	17.81	
23	23.17	22.02	21.80	
24	20.62	21.62	21.82	
25	22.95	22.39	19.40	
26	11.84	17.73	21.09	
27	4.81	11.11	21.13	
28	7.56	10.17	16.62	
29	8.33	8.51	16.65	
30	18.53	20.40	7.94	
31	12.64	19.78	.	
TT Monthly Totals	.	446.33	.	
 Daily Means	.	14.40	.	
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: NOVEMBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	21.77	29.54	28.36	25.43
2	16.67	28.90	28.67	26.99
3	17.83	29.81	26.26	27.93
4	19.05	29.88	26.28	27.96
5	18.42	30.17	27.52	27.69
6	21.60	30.26	25.63	27.65
7	16.47	30.03	29.01	27.69
8	24.73	29.92	27.38	27.56
9	22.38	29.40	29.11	27.60
10	24.26	29.27	29.67	27.64
11	23.55	29.31	26.42	27.64
12	23.46	29.61	28.44	27.65
13	26.62	29.81	29.89	27.78
14	22.85	30.05	30.37	27.82
15	26.32	28.50	29.07	28.11
16	26.41	29.23	29.52	28.16
17	23.82	25.31	24.58	27.62
18	17.76	30.19	30.30	27.60
19	19.38	30.71	24.62	26.25
20	19.51	30.82	27.84	26.67
21	23.44	30.68	31.27	28.66
22	27.68	30.69	29.43	28.69
23	26.88	31.05	29.96	23.76
24	22.94	30.74	28.66	23.16
25	21.87	30.98	28.37	22.24
26	23.88	31.04	26.30	29.61
27	22.96	31.26	23.43	29.64
28	22.89	31.22	30.60	25.88
29	23.28	31.38	29.48	15.40
30	16.91	31.39	30.57	25.36
31				
TT Monthly Totals	665.58	901.15	847.02	801.82
Daily Means	22.19	30.04	28.23	26.73
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: NOVEMBER		Year: 2014		Country: CHILE	
Daily Totals					
Latitude	41°25' S	45°35' S	53°00' S		
Longitude	73°05' W	72°07' W	70°51' W		
Elevation	85 m	310 m	37 m		
Station					
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS		
1	16.14	23.99	.		
2	10.85	23.94	.		
3	13.41	21.16	.		
4	12.72	15.46	.		
5	13.19	14.71	.		
6	13.22	3.19	.		
7	17.61	13.11	.		
8	13.76	8.23	.		
9	20.90	14.46	.		
10	12.67	24.39	.		
11	20.59	18.28	.		
12	17.99	19.74	.		
13	10.40	9.29	.		
14	21.14	11.93	.		
15	16.04	17.75	.		
16	23.93	16.25	.		
17	12.48	10.96	.		
18	21.93	17.09	.		
19	10.31	19.47	.		
20	18.39	20.89	.		
21	18.29	20.99	.		
22	9.30	17.77	.		
23	17.40	19.83	.		
24	11.36	20.03	.		
25	15.14	26.05	.		
26	22.78	26.20	.		
27	8.92	23.93	.		
28	10.60	16.43	.		
29	17.28	19.18	.		
30	17.40	19.23	.		
31					
TT Monthly Totals	466.14	533.91	.		
 Daily Means	15.54	17.80	.		
SS Monthly Totals					
 Daily Means					
Types of Instruments	PYRANOMETER PSP EPPLEY	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: DECEMBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19'W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	21.44	31.35	25.63	30.05
2	24.10	31.10	30.54	30.08
3	24.01	31.47	30.90	29.78
4	26.28	30.19	30.77	29.30
5	24.39	29.84	30.94	28.96
6	20.51	30.34	27.59	23.56
7	18.91	30.66	29.76	29.61
8	25.65	30.91	28.23	29.65
9	25.61	30.58	28.13	29.35
10	25.63	4.10	29.35	28.60
11	26.48	31.06	31.55	28.09
12	23.49	31.28	29.29	25.41
13	23.93	31.00	31.38	26.73
14	17.31	29.88	27.73	26.79
15	22.76	28.07	29.50	29.02
16	19.98	31.04	31.32	29.10
17	20.93	31.23	29.08	29.03
18	24.17	29.56	31.29	29.14
19	24.80	30.64	30.68	29.22
20	24.31	30.71	31.24	29.09
21	18.64	31.33	29.30	20.97
22	26.61	31.56	31.93	30.06
23	24.57	31.10	31.89	30.19
24	22.92	31.33	30.24	30.25
25	22.78	30.95	30.30	29.21
26	25.11	30.58	32.14	29.48
27	26.43	28.44	26.83	29.56
28	18.61	30.56	30.06	29.43
29	27.55	29.43	29.14	29.52
30	25.50	30.95	32.04	28.50
31	25.58	30.63	30.52	28.40
TT Monthly Totals	728.98	921.88	929.26	886.12
Daily Means	23.52	29.74	29.98	28.58
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: DECEMBER Year: 2014 Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S	53°00' S	
Longitude	73°05' W	72°07' W	70°51' W	
Elevation	85 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	19.43	15.93	.	
2	24.78	27.69	.	
3	29.04	27.87	.	
4	29.31	27.90	.	
5	24.17	23.62	.	
6	19.56	16.69	.	
7	19.61	26.03	.	
8	23.19	26.13	.	
9	23.51	22.37	.	
10	29.53	27.88	.	
11	29.86	27.96	.	
12	25.98	27.49	.	
13	26.13	25.23	.	
14	28.35	26.86	.	
15	28.49	27.05	.	
16	25.35	24.47	.	
17	25.55	24.69	.	
18	25.93	20.36	.	
19	16.77	21.06	.	
20	19.75	21.41	.	
21	19.85	24.30	.	
22	16.26	24.49	.	
23	15.45	19.66	.	
24	18.22	19.82	.	
25	26.33	15.59	.	
26	26.39	9.83	.	
27	15.87	8.11	.	
28	16.00	13.85	.	
29	16.11	18.42	.	
30	16.28	18.54	.	
31	11.97	13.55	.	
TT Monthly Totals	693.01	674.84	.	
Daily Means	22.36	21.77	.	
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: JULY		Year: 2014		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19' W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	0.0	3.2	9.9	7.6	
2	4.9	3.3	10.4	9.4	
3	0.7	0.9	10.2	8.8	
4	0.0	0.0	9.9	1.3	
5	5.6	9.4	10.4	9.5	
6	4.2	7.6	10.4	9.1	
7	4.0	4.1	10.4	8.5	
8	2.6	4.3	10.2	7.4	
9	5.2	5.4	10.1	6.0	
10	4.3	0.8	9.2	5.4	
11	1.9	1.8	6.1	5.5	
12	4.2	1.8	10.0	8.4	
13	4.9	3.4	10.5	6.6	
14	5.3	3.8	10.4	3.4	
15	3.9	1.0	10.4	4.2	
16	4.3	0.0	10.4	5.6	
17	6.0	3.5	10.5	7.5	
18	4.1	0.0	10.5	7.5	
19	7.0	8.2	10.5	8.9	
20	5.3	5.6	10.5	7.9	
21	3.5	3.9	10.5	6.7	
22	0.0	0.3	9.8	8.0	
23	4.2	4.9	10.4	9.5	
24	4.0	9.9	10.5	9.7	
25	3.4	4.5	10.4	9.3	
26	5.8	4.4	10.6	7.7	
27	5.8	9.6	10.6	8.5	
28	5.8	5.0	10.6	8.0	
29	6.6	6.6	10.6	7.5	
30	4.0	1.3	10.4	6.0	
31	5.7	2.4	10.6	7.2	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	127.2	120.9	315.9	226.6	
 Daily Means	4.1	3.9	10.2	7.3	
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: JULY Year: 2014 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	8.6	2.6	8.5	2.3
2	8.9	2.6	8.3	6.0
3	5.2	0.5	5.7	4.3
4	0.0	5.3	0.0	0.9
5	8.9	6.2	8.9	5.0
6	9.1	2.1	9.2	6.5
7	6.7	8.3	7.9	7.8
8	3.5	7.6	3.8	8.3
9	4.4	6.4	2.9	7.7
10	2.6	6.5	1.5	7.7
11	5.5	3.1	3.0	0.0
12	9.1	7.7	8.1	5.5
13	3.0	7.6	6.2	6.9
14	5.1	2.1	5.2	1.7
15	8.9	9.3	7.6	2.3
16	6.0	4.6	8.6	5.5
17	6.1	2.6	9.0	7.5
18	5.9	9.0	6.6	7.4
19	4.6	5.3	0.0	8.0
20	2.3	5.6	0.0	0.0
21	2.2	4.3	0.0	0.0
22	4.0	4.0	0.0	0.0
23	5.6	5.0	8.5	5.0
24	9.6	4.2	9.6	7.7
25	8.2	7.7	9.4	8.4
26	6.4	7.7	4.9	0.0
27	6.0	3.7	7.0	2.8
28	8.4	4.2	5.8	0.2
29	7.7	5.9	6.2	6.5
30	4.2	7.1	0.0	0.5
31	6.9	10.1	4.6	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	183.6	168.9	167.0	132.4
 Daily Means	5.9	5.4	5.4	4.3
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: JULY Year: 2014 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	3.0	0.1	4.2	0.0
2	5.5	4.4	6.4	2.5
3	3.9	0.0	4.9	5.2
4	1.5	4.6	0.0	0.0
5	4.1	2.0	8.5	3.7
6	6.8	3.0	9.1	7.3
7	6.9	2.6	9.1	7.7
8	6.8	3.2	5.2	1.2
9	5.2	1.3	6.0	0.0
10	6.7	0.4	0.0	5.5
11	0.0	1.0	0.0	0.0
12	5.9	0.0	5.6	6.9
13	6.8	0.0	3.6	1.7
14	1.3	4.4	0.0	0.5
15	2.4	3.8	4.2	4.0
16	4.2	2.5	6.4	6.6
17	7.1	7.1	9.4	4.3
18	7.3	7.0	10.4	7.4
19	7.3	4.7	4.3	3.1
20	0.0	0.0	0.0	0.0
21	0.0	5.9	0.0	0.0
22	0.0	6.4	8.8	4.1
23	3.3	4.9	9.0	3.4
24	7.6	6.8	8.5	5.4
25	7.9	4.7	8.7	8.4
26	0.2	0.0	0.4	0.4
27	2.3	0.0	2.0	0.3
28	0.2	0.9	0.2	0.0
29	6.6	2.3	5.4	5.2
30	0.3	0.0	5.4	0.0
31	0.0	0.0	0.0	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	121.1	84.0	145.7	94.8
 Daily Means	3.9	2.7	4.7	3.1
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: JULY Year: 2014 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	0.0
2	2.9	5.8	3.3	6.0
3	4.0	2.5	3.1	2.6
4	4.4	5.9	3.1	5.0
5	6.0	7.1	0.1	0.0
6	7.9	8.4	2.8	0.3
7	6.7	7.6	1.3	0.0
8	2.5	8.4	4.2	3.3
9	0.3	3.4	3.5	1.7
10	3.5	6.7	5.6	2.3
11	0.0	0.0	0.0	0.0
12	7.2	5.5	6.6	5.2
13	0.0	0.0	0.0	0.0
14	1.5	5.2	1.6	0.6
15	1.0	0.0	0.2	0.0
16	0.1	0.4	1.5	1.3
17	5.2	8.7	3.1	1.7
18	8.2	8.5	7.7	5.0
19	5.9	8.1	5.1	0.0
20	0.0	0.0	0.0	0.0
21	1.7	6.0	0.0	6.6
22	8.2	7.6	.	3.3
23	8.0	8.8	.	2.8
24	6.8	7.0	.	0.0
25	3.3	0.0	.	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	.	0.0
28	0.0	0.0	.	2.0
29	6.3	6.2	.	0.6
30	0.0	0.0	.	0.0
31	0.0	0.0	.	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	101.6	127.8	.	50.3
 Daily Means	3.3	4.1	.	1.6
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: JULY

Year: 2014

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	5.8	
2	1.1	5.2	0.0	
3	0.0	0.9	0.0	
4	3.2	0.7	1.9	
5	0.1	0.0	0.0	
6	0.2	0.0	3.6	
7	6.6	5.2	5.4	
8	4.0	3.4	5.8	
9	3.7	5.8	2.0	
10	4.7	3.3	6.7	
11	0.2	3.3	2.8	
12	2.1	3.5	0.0	
13	0.0	0.7	0.0	
14	0.3	0.7	0.4	
15	0.0	2.3	0.1	
16	0.4	5.8	2.5	
17	0.0	0.0	3.6	
18	0.0	0.0	4.4	
19	4.8	3.0	0.1	
20	0.0	1.5	3.2	
21	2.5	2.3	0.0	
22	3.8	3.9	3.5	
23	4.6	5.3	4.0	
24	0.0	4.2	4.8	
25	5.1	2.4	5.8	
26	0.0	6.2	6.4	
27	0.0	0.0	6.2	
28	4.5	2.3	0.3	
29	3.2	2.3	5.7	
30	0.0	0.0	0.0	
31	0.0	1.9	7.3	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	55.1	76.1	92.3	
 Daily Means	1.8	2.5	3.0	
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: AUGUST		Year: 2014		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	1.8	2.5	10.6	8.2	
2	0.0	0.0	10.6	3.0	
3	5.2	5.8	10.6	6.5	
4	3.3	5.8	10.7	4.1	
5	9.1	5.5	10.6	9.1	
6	7.1	8.3	10.5	1.6	
7	0.9	0.0	10.0	5.7	
8	0.4	0.0	0.8	5.1	
9	2.1	0.4	9.4	8.5	
10	0.0	0.0	10.8	6.9	
11	0.0	4.3	10.7	4.4	
12	0.1	1.8	10.8	5.0	
13	4.1	0.2	10.8	6.9	
14	7.9	4.2	9.6	5.2	
15	6.7	5.0	10.8	5.7	
16	4.0	7.4	10.8	5.9	
17	2.3	0.0	10.8	6.2	
18	5.9	0.0	10.6	6.2	
19	2.1	1.4	10.7	7.3	
20	1.1	4.2	10.7	6.3	
21	2.0	6.8	10.9	7.5	
22	3.0	4.3	11.0	0.1	
23	3.8	8.0	10.8	8.6	
24	3.2	7.9	11.0	9.1	
25	6.4	4.9	11.1	9.8	
26	5.8	3.9	10.9	8.4	
27	7.6	10.5	10.5	9.8	
28	1.5	9.4	10.6	7.1	
29	4.6	6.1	10.8	4.4	
30	5.8	2.0	11.2	6.4	
31	1.5	5.7	11.2	4.8	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	109.3	126.3	320.9	193.8	
 Daily Means	3.5	4.1	10.4	6.3	
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: AUGUST

Year: 2014

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	9.0	8.2	9.2	8.3
2	6.0	9.5	6.6	6.7
3	6.1	6.3	8.8	6.1
4	5.7	7.7	7.3	0.4
5	3.8	5.1	3.0	7.3
6	8.4	7.4	9.3	4.6
7	5.4	0.7	9.7	8.2
8	0.0	2.2	0.0	8.4
9	4.9	0.5	2.0	7.5
10	6.2	7.1	7.2	1.7
11	7.0	9.1	7.5	7.3
12	5.8	7.2	9.5	7.9
13	7.1	9.8	6.8	9.2
14	0.9	9.5	0.1	6.7
15	8.0	1.2	6.4	7.5
16	5.9	8.5	7.1	9.1
17	7.1	7.7	9.9	9.4
18	0.0	7.4	0.0	9.5
19	5.7	8.0	0.0	0.0
20	6.9	9.4	1.7	6.1
21	5.5	8.4	9.5	6.2
22	0.1	4.5	0.0	5.2
23	8.0	2.0	8.7	1.7
24	10.3	8.9	10.2	0.5
25	10.4	9.3	10.5	8.7
26	2.2	5.4	3.9	8.8
27	6.4	7.0	6.1	0.0
28	10.6	9.7	9.6	4.9
29	5.7	9.5	5.9	5.7
30	10.1	3.9	9.5	4.4
31	9.0	9.6	1.2	0.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	188.2	210.7	187.2	178.2
 Daily Means	6.1	6.8	6.0	5.7
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: AUGUST

Year: 2014

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	7.8	3.6	8.8	8.9
2	6.8	5.3	3.0	0.1
3	4.8	6.6	7.6	3.2
4	0.0	1.0	4.8	2.0
5	5.4	4.3	8.6	7.8
6	3.9	3.6	5.3	6.4
7	7.9	7.0	9.6	7.6
8	8.2	7.9	9.5	6.6
9	6.3	0.9	0.0	5.5
10	2.1	2.5	4.6	0.5
11	6.8	2.6	10.7	6.8
12	7.7	4.7	9.7	6.8
13	8.3	7.0	9.7	6.4
14	6.0	6.6	7.3	8.1
15	7.2	7.7	7.2	4.1
16	7.9	3.6	8.7	7.9
17	8.3	7.1	10.0	9.5
18	8.6	5.6	3.2	9.0
19	0.0	1.8	0.0	0.0
20	7.3	6.0	0.0	0.0
21	6.7	0.0	3.9	5.1
22	5.1	7.6	0.0	0.6
23	1.1	3.0	0.1	0.0
24	0.6	5.7	2.1	0.2
25	8.0	4.8	10.2	9.4
26	8.3	2.4	8.1	4.7
27	0.4	0.5	4.9	0.1
28	3.3	0.0	6.8	3.1
29	4.9	0.0	6.8	0.0
30	5.2	4.4	0.0	1.8
31	0.2	0.0	0.0	0.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	165.1	123.8	171.2	132.5
 Daily Means	5.3	4.0	5.5	4.3
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: AUGUST

Year: 2014

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	3.5	0.0	.	0.0
2	4.7	2.7	.	0.0
3	4.9	8.8	.	6.1
4	6.5	7.5	.	0.1
5	0.0	0.0	.	0.0
6	4.4	6.1	.	8.0
7	8.6	9.7	.	5.2
8	9.1	9.2	.	0.8
9	0.7	0.7	.	0.5
10	5.1	9.3	.	1.8
11	9.2	9.3	.	3.2
12	9.1	9.9	.	4.3
13	9.2	9.9	.	8.5
14	7.7	7.3	.	2.7
15	0.1	1.3	.	0.0
16	6.5	8.9	.	0.3
17	9.2	1.4	.	7.1
18	7.6	9.9	.	4.7
19	0.0	0.0	.	4.3
20	0.0	1.3	.	0.0
21	7.1	6.0	.	0.0
22	0.0	0.0	.	0.0
23	0.0	0.0	.	4.4
24	2.6	3.1	.	0.8
25	9.0	9.3	.	5.4
26	6.1	6.0	.	7.8
27	0.0	0.0	.	0.5
28	4.7	2.3	.	2.6
29	1.9	2.0	.	0.8
30	0.0	1.7	.	5.5
31	0.3	0.0	.	2.7
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	137.8	143.6	.	88.1
 Daily Means	4.4	4.6	.	2.8
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: AUGUST

Year: 2014

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	4.6	
2	2.8	4.4	1.5	
3	4.4	5.3	2.2	
4	4.6	1.8	6.4	
5	4.2	0.1	1.1	
6	4.5	6.1	6.2	
7	3.5	5.8	6.5	
8	0.8	4.2	5.8	
9	3.6	6.3	1.0	
10	4.9	4.3	5.7	
11	1.6	2.1	3.2	
12	5.5	4.9	1.3	
13	7.2	5.7	0.4	
14	3.8	4.8	0.0	
15	1.2	0.0	4.2	
16	0.0	3.3	1.0	
17	0.0	1.6	0.0	
18	4.9	3.9	7.9	
19	1.5	0.0	4.1	
20	0.9	0.6	0.0	
21	5.6	4.9	1.1	
22	0.0	0.0	8.7	
23	7.1	0.0	3.0	
24	4.7	1.5	0.0	
25	3.2	7.6	0.0	
26	8.7	3.3	0.0	
27	6.1	4.7	0.0	
28	5.0	5.9	3.4	
29	1.3	0.9	0.0	
30	5.4	1.5	0.0	
31	3.6	7.0	0.0	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	110.6	102.5	79.3	
 Daily Means	3.6	3.3	2.6	
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: SEPTEMBER

Year: 2014

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	0.0	4.5	10.9	4.0
2	0.0	0.0	11.1	7.5
3	2.8	5.8	10.9	0.0
4	5.5	6.9	11.0	8.0
5	0.1	7.9	11.0	7.6
6	2.6	5.3	10.8	8.2
7	1.6	0.5	11.3	9.2
8	0.0	0.2	11.2	7.7
9	0.3	0.0	11.2	0.8
10	0.7	0.4	11.2	2.5
11	0.2	0.0	11.2	5.1
12	8.1	7.2	10.9	3.3
13	6.6	9.2	10.9	7.8
14	5.0	10.3	11.2	10.3
15	0.1	2.5	11.2	4.6
16	0.0	2.6	11.1	4.9
17	0.0	3.8	2.4	1.7
18	5.8	10.0	10.7	10.1
19	5.4	8.2	11.4	7.2
20	5.2	8.5	11.3	8.5
21	3.8	6.1	11.3	8.6
22	4.0	9.1	11.2	8.3
23	3.9	8.5	11.0	9.0
24	5.6	7.1	11.2	7.0
25	3.3	3.7	11.1	6.1
26	1.5	3.0	11.0	8.2
27	0.0	3.8	9.2	6.3
28	0.3	6.7	10.2	9.4
29	0.0	7.0	10.8	10.6
30	5.2	10.2	11.2	10.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	77.6	159.0	321.1	202.5
 Daily Means	2.6	5.3	10.7	6.8
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: SEPTEMBER Year: 2014 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	4.3	1.6	0.0	0.6
2	7.0	7.8	2.0	0.0
3	7.4	7.2	4.3	0.1
4	7.9	9.9	5.5	6.9
5	10.5	6.2	9.4	4.6
6	10.5	0.6	10.4	4.3
7	10.4	4.9	10.6	8.4
8	4.4	0.8	7.7	7.3
9	4.3	7.2	5.5	7.2
10	9.2	10.5	10.4	9.3
11	6.0	1.8	8.4	8.8
12	0.0	6.4	0.8	9.1
13	3.7	10.0	0.8	0.0
14	10.7	8.8	10.8	8.9
15	0.0	7.6	0.8	9.5
16	3.7	8.8	0.0	3.0
17	8.3	6.0	3.4	0.0
18	7.8	9.7	10.2	4.7
19	9.5	6.3	8.9	6.7
20	8.8	9.7	8.2	6.1
21	2.4	7.3	0.8	5.9
22	5.4	2.9	0.0	0.0
23	10.4	5.7	9.2	0.8
24	8.5	9.1	10.9	0.0
25	8.9	5.5	10.6	9.3
26	8.4	5.6	8.8	3.6
27	7.5	10.3	8.8	0.0
28	10.5	11.2	8.5	9.2
29	7.0	10.3	1.9	0.5
30	8.0	6.9	5.0	9.1
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	211.4	206.6	182.6	143.9
 Daily Means	7.0	6.9	6.1	4.8
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: SEPTEMBER

Year: 2014

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	0.4	1.1	1.0	0.0
2	0.0	2.4	0.0	0.0
3	0.2	7.9	2.6	5.8
4	6.9	6.5	0.0	0.0
5	3.8	4.9	7.6	7.0
6	4.3	5.0	5.5	3.9
7	7.8	1.1	8.9	7.6
8	6.7	5.8	0.0	1.7
9	3.3	5.3	9.0	7.2
10	8.6	7.0	10.7	10.0
11	8.6	7.3	10.5	9.7
12	8.6	4.3	10.0	10.0
13	0.0	2.4	0.0	0.0
14	8.6	2.8	10.6	7.1
15	8.8	4.5	10.6	7.7
16	2.4	3.9	0.0	7.8
17	0.0	0.0	0.0	0.0
18	5.9	4.7	0.0	1.1
19	7.3	9.0	7.3	6.6
20	5.3	4.4	8.7	4.2
21	5.6	7.7	1.0	0.5
22	0.0	6.6	0.9	2.8
23	0.4	2.8	0.6	2.3
24	0.0	0.0	0.5	0.6
25	8.8	1.5	0.5	3.5
26	1.3	2.2	7.7	7.9
27	0.0	3.9	4.4	0.5
28	8.1	4.0	8.9	8.7
29	0.3	9.0	0.7	1.0
30	8.6	4.9	9.6	5.7
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	130.6	132.9	137.8	130.9
 Daily Means	4.4	4.4	4.6	4.4
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: SEPTEMBER Year: 2014 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	1.3	2.4	.	1.3
2	2.9	0.9	.	0.2
3	5.8	4.1	.	1.4
4	3.8	8.4	.	6.2
5	4.8	3.8	.	6.6
6	0.2	1.2	.	0.5
7	2.0	0.0	.	3.1
8	1.6	1.5	.	5.0
9	5.5	5.5	.	1.8
10	10.6	8.9	.	2.2
11	10.0	9.0	.	7.7
12	9.5	9.1	.	4.9
13	8.6	9.8	.	10.6
14	9.8	10.5	.	7.3
15	9.1	10.5	.	3.2
16	6.1	8.4	.	7.8
17	3.3	6.2	.	6.5
18	0.8	0.0	.	0.0
19	6.2	1.0	.	0.4
20	4.3	3.6	.	0.0
21	1.1	9.8	.	6.3
22	7.7	9.8	.	7.2
23	0.1	0.5	.	6.0
24	0.0	0.0	.	0.0
25	8.0	7.9	.	4.7
26	7.9	8.5	.	4.5
27	0.2	0.0	.	0.0
28	2.0	4.4	.	0.0
29	9.3	7.4	.	3.0
30	9.7	10.4	.	6.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	152.2	163.5	.	114.4
 Daily Means	5.1	5.5	.	3.8
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: SEPTEMBER

Year: 2014

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	0.3	0.0	
2	0.1	3.8	0.0	
3	4.7	1.8	0.0	
4	7.1	7.3	7.0	
5	4.6	0.3	2.6	
6	0.3	4.0	0.0	
7	8.3	7.5	0.0	
8	3.6	0.8	6.5	
9	5.3	5.8	3.8	
10	2.4	6.5	8.7	
11	7.8	4.0	0.0	
12	3.3	8.5	5.7	
13	9.4	3.8	3.4	
14	0.5	7.4	5.0	
15	6.4	6.0	2.1	
16	1.5	8.0	0.3	
17	4.5	1.6	2.1	
18	0.0	0.9	10.2	
19	1.8	0.0	9.3	
20	0.0	2.9	1.0	
21	3.4	1.3	0.8	
22	4.3	2.0	6.4	
23	7.7	6.7	2.8	
24	0.0	4.1	2.9	
25	4.1	5.7	9.0	
26	2.1	8.2	9.5	
27	0.0	10.2	5.6	
28	0.0	9.8	6.7	
29	2.8	2.4	1.9	
30	5.0	9.5	9.9	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	103.0	141.1	123.2	
 Daily Means	3.4	4.7	4.1	
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: OCTOBER

Year: 2014

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	3.4	0.0	10.4	5.9
2	4.8	1.3	10.1	4.0
3	7.4	2.7	8.1	4.6
4	1.6	5.7	11.1	8.1
5	2.5	1.1	11.2	6.5
6	4.4	6.9	10.5	8.4
7	2.1	7.8	11.2	9.1
8	2.0	7.9	11.1	8.2
9	7.4	8.8	11.5	10.5
10	9.9	10.5	11.5	10.8
11	8.5	9.0	11.3	10.0
12	9.0	7.6	10.9	8.8
13	6.1	10.7	11.2	7.4
14	3.2	9.2	11.2	6.8
15	1.4	9.0	10.2	5.9
16	6.4	9.0	11.4	7.2
17	7.2	3.0	11.4	9.8
18	10.4	10.4	11.2	5.6
19	8.7	9.1	11.5	9.7
20	6.5	6.4	7.6	8.8
21	8.0	9.1	0.3	8.8
22	9.7	10.0	11.4	7.3
23	7.6	9.5	11.4	7.5
24	8.5	9.6	11.8	8.7
25	2.9	0.4	11.8	3.9
26	7.2	9.3	11.7	9.7
27	4.9	3.9	11.4	4.7
28	8.4	11.2	11.7	6.2
29	6.5	11.1	11.2	9.1
30	6.1	9.0	11.8	5.5
31	3.6	4.3	11.8	6.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	186.3	223.5	330.9	233.5
 Daily Means	6.0	7.2	10.7	7.5
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: OCTOBER Year: 2014 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	0.0	2.1	0.0	11.2
2	2.1	0.8	0.0	8.9
3	0.7	4.6	0.0	4.9
4	9.5	0.2	10.2	8.4
5	11.1	10.1	11.4	10.8
6	2.8	4.2	6.2	11.0
7	4.2	7.5	0.0	10.2
8	3.9	7.4	0.0	5.7
9	3.1	4.3	4.7	7.9
10	4.6	5.0	10.5	11.1
11	7.6	10.3	8.7	11.2
12	5.9	7.4	9.8	9.3
13	6.6	9.9	3.1	11.0
14	0.0	6.1	0.0	4.1
15	4.8	11.4	3.3	5.7
16	4.6	6.7	9.2	3.9
17	5.1	11.4	8.8	7.6
18	7.6	9.3	8.6	0.0
19	9.1	9.3	11.1	11.3
20	7.0	7.9	10.9	11.4
21	5.4	8.9	4.7	11.7
22	7.3	7.5	7.2	11.2
23	7.7	9.5	3.4	11.6
24	3.4	8.6	0.0	11.9
25	0.0	3.1	0.0	11.4
26	3.8	6.4	0.0	10.7
27	12.2	0.0	12.3	6.5
28	6.2	8.6	7.9	7.6
29	10.0	0.0	9.6	10.1
30	7.4	2.8	5.7	7.7
31	8.6	0.4	11.1	12.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	172.3	191.7	178.4	278.1
 Daily Means	5.6	6.2	5.8	9.0
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: OCTOBER

Year: 2014

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	9.3	0.1	0.0	10.0
2	9.0	8.0	1.0	6.9
3	5.6	4.3	5.7	5.5
4	5.8	5.0	5.0	1.6
5	9.5	0.4	10.5	8.2
6	11.0	4.4	8.4	7.4
7	9.9	1.7	0.0	8.7
8	5.0	6.8	0.0	3.5
9	8.7	8.6	10.0	10.3
10	10.7	5.8	11.9	10.9
11	10.6	0.9	11.4	7.1
12	9.1	9.1	9.5	7.4
13	10.7	10.2	10.6	11.1
14	2.8	10.0	6.1	6.4
15	5.2	5.7	7.5	10.7
16	2.9	6.1	9.4	1.8
17	5.6	5.2	7.7	3.8
18	0.0	8.5	3.3	8.1
19	10.3	8.4	11.4	11.5
20	10.9	9.1	11.7	10.1
21	10.8	6.5	3.0	10.0
22	10.7	0.0	4.2	11.2
23	10.7	11.1	0.0	12.7
24	10.7	11.0	10.8	12.0
25	11.2	10.7	11.0	12.6
26	11.0	0.1	1.3	10.3
27	6.0	0.0	8.2	7.1
28	7.2	7.0	7.9	6.1
29	9.9	3.7	10.3	6.5
30	7.2	2.3	12.3	12.0
31	11.0	0.7	12.4	10.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	259.0	171.4	222.5	261.7
 Daily Means	8.4	5.5	7.2	8.4
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: OCTOBER

Year: 2014

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	10.0	9.9	.	10.3
2	9.9	9.4	.	9.3
3	6.2	5.8	.	6.0
4	0.6	6.3	.	0.7
5	5.5	7.5	.	4.5
6	10.2	11.3	.	6.4
7	9.1	6.9	.	6.0
8	6.3	11.8	.	7.1
9	11.1	11.3	.	8.3
10	11.6	11.9	.	10.1
11	9.7	10.1	.	9.0
12	9.4	10.4	.	10.0
13	11.4	11.8	.	11.0
14	7.8	10.2	.	10.7
15	8.8	2.9	.	2.2
16	7.4	9.3	.	7.3
17	0.1	0.8	.	0.5
18	8.1	9.1	.	7.4
19	7.7	6.0	.	0.0
20	11.7	9.0	.	0.5
21	10.6	9.3	.	4.1
22	10.4	10.4	.	11.2
23	12.3	11.8	.	10.5
24	11.8	9.2	.	12.1
25	11.2	12.2	.	12.2
26	12.0	9.2	.	6.8
27	7.3	3.5	.	0.5
28	5.0	2.2	.	3.8
29	10.8	12.1	.	5.0
30	9.6	10.0	.	9.4
31	12.6	12.7	.	9.9
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	276.2	274.3	.	212.8
 Daily Means	8.9	8.8	.	6.9
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: OCTOBER

Year: 2014

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	8.7	6.8	11.8	
2	8.8	8.0	11.0	
3	6.3	8.0	1.4	
4	0.9	10.0	0.0	
5	0.2	5.3	2.5	
6	8.1	6.4	6.2	
7	8.0	9.6	11.3	
8	2.7	9.8	0.4	
9	8.3	9.4	0.0	
10	3.9	7.5	4.7	
11	4.0	6.5	10.0	
12	5.8	3.5	6.7	
13	6.3	11.1	4.3	
14	10.2	8.6	6.6	
15	1.9	0.5	7.8	
16	4.1	3.7	4.1	
17	0.2	0.0	6.7	
18	3.6	3.3	12.0	
19	0.0	0.0	8.1	
20	0.0	3.8	3.4	
21	0.9	4.1	7.0	
22	10.0	7.3	6.5	
23	10.9	11.9	12.2	
24	8.0	11.6	11.2	
25	9.7	11.9	2.3	
26	1.9	9.6	11.8	
27	0.0	5.3	1.0	
28	1.2	4.0	4.7	
29	3.7	3.6	0.0	
30	8.1	10.1	2.2	
31	4.0	9.6	4.1	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	150.4	210.8	182.0	
 Daily Means	4.9	6.8	5.9	
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: NOVEMBER		Year: 2014		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	7.3	11.8	10.6	
2	3.9	7.6	11.8	9.8	
3	3.2	9.4	11.7	8.2	
4	4.2	10.9	11.7	7.5	
5	4.3	8.0	11.8	4.7	
6	7.0	4.0	11.9	7.0	
7	2.5	1.0	11.7	10.6	
8	7.4	3.0	11.3	9.9	
9	7.1	9.3	11.2	10.4	
10	7.9	11.1	11.1	11.4	
11	7.6	9.5	11.4	6.8	
12	7.1	8.4	11.5	10.3	
13	11.6	11.4	11.7	11.5	
14	9.1	11.4	11.6	11.8	
15	11.0	10.4	10.5	11.5	
16	10.8	10.7	11.2	10.2	
17	7.6	15.9	6.8	7.8	
18	5.6	9.3	10.7	10.4	
19	5.5	5.4	11.6	6.8	
20	6.0	4.4	11.2	8.5	
21	7.5	11.5	11.7	11.6	
22	11.5	11.9	11.8	9.2	
23	11.1	11.4	11.7	9.9	
24	7.5	8.4	11.8	9.3	
25	6.9	6.5	11.7	8.4	
26	7.8	9.3	11.8	7.6	
27	6.3	7.6	11.8	6.3	
28	5.6	10.1	11.8	9.9	
29	5.9	10.1	11.8	9.5	
30	3.1	9.6	11.8	10.5	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	209.3	264.8	341.9	277.9	
 Daily Means	7.0	8.8	11.4	9.3	
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: NOVEMBER Year: 2014 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	6.5	1.2	6.2	3.8
2	6.8	3.2	3.1	11.3
3	8.8	5.1	11.8	12.2
4	9.4	11.2	12.0	12.4
5	9.7	12.1	10.5	12.2
6	10.6	9.4	12.3	12.1
7	11.6	2.3	12.5	12.4
8	8.4	9.0	11.6	12.4
9	6.0	12.0	4.0	12.2
10	6.3	9.2	0.5	12.3
11	4.2	7.7	5.2	11.7
12	0.0	7.0	1.1	12.4
13	10.0	6.2	3.6	12.4
14	10.2	11.0	7.9	12.3
15	12.3	9.9	7.7	12.3
16	8.5	10.0	8.7	12.4
17	8.1	12.3	5.9	12.4
18	9.3	9.1	6.8	9.7
19	0.0	0.6	0.7	10.4
20	3.6	2.7	4.5	12.6
21	8.2	7.7	11.6	11.7
22	5.8	5.5	4.6	7.9
23	4.1	9.8	4.1	9.0
24	8.6	3.0	10.4	1.0
25	7.3	2.3	8.3	9.3
26	7.4	0.3	10.2	12.7
27	7.4	0.0	8.1	9.8
28	4.1	0.2	0.0	3.7
29	2.5	3.8	0.4	0.0
30	10.2	7.7	10.5	11.3
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	215.9	191.5	204.8	308.3
 Daily Means	7.2	6.4	6.8	10.3
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: NOVEMBER		Year: 2014		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	3.1	4.6	7.1	12.4	
2	10.4	3.5	11.8	13.0	
3	11.0	2.5	12.4	13.0	
4	11.0	0.0	12.7	13.0	
5	10.0	8.2	12.1	9.2	
6	11.0	9.6	12.4	12.1	
7	11.1	2.8	12.8	12.1	
8	11.4	6.5	12.6	13.1	
9	11.1	3.7	6.7	13.2	
10	12.2	2.1	6.5	12.2	
11	12.1	1.8	8.9	12.5	
12	11.1	3.3	12.7	10.1	
13	12.0	6.7	12.7	13.2	
14	11.0	8.9	0.0	13.0	
15	11.0	6.2	2.4	13.1	
16	11.0	9.6	0.3	12.2	
17	10.9	7.4	2.1	12.3	
18	8.4	6.4	3.5	1.5	
19	9.4	2.9	10.1	9.7	
20	12.2	3.1	9.2	12.6	
21	12.2	0.1	8.7	12.5	
22	6.9	3.3	5.8	8.7	
23	7.6	7.0	10.5	0.1	
24	0.0	3.9	8.6	12.1	
25	8.6	1.0	11.4	10.6	
26	11.7	2.3	12.6	12.9	
27	8.8	3.5	1.4	7.2	
28	3.6	3.6	4.2	4.3	
29	0.0	9.7	0.3	0.0	
30	8.8	6.4	12.8	11.2	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	279.6	140.6	245.3	313.1	
 Daily Means	9.3	4.7	8.2	10.4	
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: NOVEMBER		Year: 2014		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	12.2	.	3.7	
2	11.0	12.3	.	3.5	
3	12.2	12.5	.	10.1	
4	12.0	11.8	.	11.4	
5	9.7	11.5	.	3.9	
6	12.2	12.0	.	2.4	
7	12.2	11.9	.	9.8	
8	13.0	12.8	.	10.4	
9	9.4	11.6	.	12.0	
10	7.5	8.3	.	0.2	
11	12.6	12.2	.	8.3	
12	13.1	12.7	.	9.0	
13	18.7	11.8	.	13.0	
14	10.2	12.8	.	12.2	
15	10.1	12.2	.	12.6	
16	12.8	12.0	.	11.6	
17	11.8	3.9	.	9.9	
18	1.3	0.0	.	9.6	
19	13.1	12.7	.	2.6	
20	13.4	12.9	.	10.0	
21	12.3	12.2	.	11.6	
22	9.5	9.3	.	2.0	
23	7.1	2.5	.	6.6	
24	12.4	12.8	.	3.6	
25	12.9	12.9	.	11.3	
26	12.3	12.5	.	7.9	
27	3.9	0.8	.	5.4	
28	0.5	2.9	.	0.3	
29	8.4	11.5	.	13.4	
30	13.3	13.1	.	11.1	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	320.7	310.6	.	239.4	
 Daily Means	10.7	10.4	.	8.0	
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: NOVEMBER

Year: 2014

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	5.6	10.8	12.5	
2	1.6	11.5	8.0	
3	4.2	8.5	9.1	
4	2.6	5.1	7.0	
5	3.2	4.4	5.1	
6	0.3	0.6	8.3	
7	7.4	4.2	6.9	
8	2.5	5.7	4.2	
9	7.9	5.3	4.3	
10	3.8	11.6	9.5	
11	8.6	7.5	11.7	
12	7.2	6.8	8.2	
13	0.3	2.9	1.9	
14	8.7	5.3	8.2	
15	3.7	10.0	13.5	
16	9.0	7.2	1.7	
17	2.2	3.2	10.6	
18	9.4	8.6	2.3	
19	1.1	7.8	2.4	
20	7.0	9.7	4.7	
21	6.1	5.4	8.9	
22	0.7	4.6	0.6	
23	6.0	7.5	4.4	
24	0.8	7.5	9.4	
25	7.0	12.0	4.8	
26	8.0	12.9	3.6	
27	0.1	5.8	0.7	
28	2.6	4.0	9.5	
29	7.3	9.8	5.2	
30	3.4	2.5	8.6	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	138.3	208.7	195.8	
 Daily Means	4.6	7.0	6.5	
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: DECEMBER		Year: 2014		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19' W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	5.6	7.6	11.8	7.4	
2	7.8	10.0	11.7	11.0	
3	7.8	9.6	11.7	10.4	
4	9.9	7.5	11.3	11.6	
5	9.1	10.5	11.1	11.8	
6	3.6	10.2	11.6	8.2	
7	3.6	8.4	11.7	10.0	
8	8.5	8.2	11.6	8.5	
9	9.1	8.7	11.3	10.2	
10	8.4	10.7	11.7	9.1	
11	10.1	11.6	11.7	12.2	
12	7.2	6.6	11.7	11.2	
13	7.6	8.5	11.8	11.4	
14	4.6	0.0	11.2	7.8	
15	7.2	7.1	9.8	8.9	
16	5.5	9.8	11.7	11.9	
17	4.4	6.7	11.7	9.0	
18	8.2	6.8	11.5	11.2	
19	8.4	11.4	11.7	11.1	
20	8.1	9.9	11.7	11.8	
21	5.0	11.1	11.7	9.6	
22	9.9	11.6	11.7	12.0	
23	8.8	11.6	11.7	11.5	
24	7.5	11.3	11.7	10.3	
25	7.5	8.2	11.3	9.7	
26	8.1	9.0	11.3	11.3	
27	11.0	10.8	9.9	9.2	
28	5.2	3.7	11.2	10.1	
29	11.3	9.9	9.4	11.8	
30	10.1	11.7	11.6	12.2	
31	9.4	11.6	11.6	12.0	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	238.5	280.3	353.1	324.4	
 Daily Means	7.7	9.0	11.4	10.5	
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: DECEMBER		Year: 2014		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	10.1	7.0	12.9	12.9	
2	1.8	8.7	8.9	12.9	
3	0.0	10.0	4.9	12.8	
4	0.0	11.9	0.2	12.6	
5	7.6	12.9	6.9	8.2	
6	9.3	8.6	10.0	9.0	
7	9.0	12.5	12.8	12.8	
8	6.0	12.1	3.2	13.0	
9	5.0	10.3	0.0	12.0	
10	6.3	6.7	6.2	12.4	
11	12.8	7.0	12.6	10.4	
12	0.0	10.9	3.4	7.4	
13	1.3	10.6	3.7	11.0	
14	0.0	13.3	6.4	10.6	
15	6.4	11.2	7.8	12.4	
16	8.4	9.8	12.9	12.7	
17	4.2	10.0	11.4	12.7	
18	6.2	6.6	1.1	12.7	
19	5.9	9.9	3.9	12.7	
20	7.0	11.0	2.4	0.3	
21	12.5	7.5	13.1	8.2	
22	10.4	8.1	13.3	12.2	
23	6.8	6.6	12.6	12.8	
24	6.3	11.3	5.3	12.7	
25	7.3	7.9	6.1	12.6	
26	6.7	2.2	6.6	13.8	
27	7.7	7.7	6.8	12.0	
28	1.4	5.2	4.4	12.7	
29	3.0	11.6	6.1	11.8	
30	10.1	2.0	11.4	9.1	
31	12.1	10.8	8.2	12.1	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	191.6	281.9	225.5	351.5	
 Daily Means	6.2	9.1	7.3	11.3	
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: DECEMBER		Year: 2014		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	11.4	6.0	13.1	11.1	
2	12.0	9.7	3.8	13.4	
3	11.8	11.3	5.4	12.3	
4	12.0	8.1	4.5	13.4	
5	8.0	3.8	0.5	0.0	
6	8.2	8.3	13.0	10.9	
7	12.1	8.5	13.3	10.9	
8	12.0	2.2	0.0	13.2	
9	12.8	8.0	2.3	10.9	
10	12.0	2.5	5.0	5.6	
11	9.6	1.9	7.4	10.1	
12	6.6	0.4	6.0	11.8	
13	6.6	1.9	4.5	11.1	
14	10.4	0.6	7.4	9.5	
15	11.8	3.1	11.7	12.5	
16	12.1	8.3	12.5	12.3	
17	11.9	7.2	10.9	13.5	
18	11.9	1.5	12.0	13.6	
19	12.5	0.5	6.7	13.4	
20	0.0	8.9	0.3	1.7	
21	8.6	9.1	10.6	10.0	
22	11.6	7.2	13.2	12.7	
23	10.8	3.4	12.9	13.5	
24	12.3	2.7	7.0	13.5	
25	12.1	0.1	10.3	13.5	
26	12.5	5.2	11.3	13.6	
27	11.6	4.0	0.2	12.7	
28	11.8	9.9	7.1	13.3	
29	11.2	6.2	2.8	11.6	
30	8.9	6.4	8.4	11.6	
31	11.2	3.8	12.2	9.0	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	328.3	160.7	236.3	346.2	
 Daily Means	10.6	5.2	7.6	11.2	
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: DECEMBER		Year: 2014		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	13.4	12.8	.	9.6	
2	13.4	12.5	.	12.4	
3	13.5	12.1	.	11.8	
4	11.2	10.6	.	9.7	
5	2.2	6.7	.	7.3	
6	7.3	4.8	.	3.3	
7	12.6	12.9	.	1.7	
8	10.2	12.3	.	8.1	
9	13.5	13.0	.	9.4	
10	7.6	6.2	.	12.6	
11	12.8	12.8	.	13.1	
12	13.3	13.0	.	11.1	
13	13.3	12.9	.	10.7	
14	7.6	8.7	.	12.0	
15	12.1	8.7	.	4.0	
16	12.4	12.6	.	13.1	
17	13.2	13.6	.	11.9	
18	12.0	13.0	.	9.0	
19	9.3	1.3	.	3.8	
20	2.3	11.4	.	10.2	
21	11.3	12.7	.	6.8	
22	10.8	13.4	.	11.8	
23	10.3	13.6	.	11.1	
24	11.3	13.7	.	12.7	
25	13.5	13.5	.	12.5	
26	12.3	13.0	.	12.0	
27	13.3	13.2	.	7.0	
28	12.0	10.4	.	3.5	
29	8.9	8.0	.	3.1	
30	0.0	0.0	.	0.1	
31	2.7	7.4	.	8.3	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	319.6	330.8	.	273.7	
 Daily Means	10.3	10.7	.	8.8	
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: DECEMBER Year: 2014 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	6.4	4.6	8.9	
2	8.7	13.8	5.1	
3	12.9	13.2	3.1	
4	7.8	8.9	8.3	
5	1.0	6.5	10.5	
6	7.1	0.0	13.6	
7	3.0	9.8	12.9	
8	11.1	11.1	3.9	
9	7.5	11.6	6.5	
10	13.1	12.9	0.2	
11	12.1	12.5	7.6	
12	11.0	11.1	9.0	
13	8.6	11.5	14.1	
14	11.3	11.5	14.8	
15	4.0	6.7	11.4	
16	13.7	6.7	13.8	
17	13.7	5.6	6.0	
18	0.1	0.0	13.9	
19	6.4	9.3	11.1	
20	6.4	4.8	4.9	
21	6.4	9.9	3.4	
22	6.5	5.7	8.6	
23	0.5	9.3	6.2	
24	6.6	3.2	7.1	
25	9.2	5.6	5.7	
26	4.5	0.1	12.3	
27	5.2	0.1	12.9	
28	1.1	4.9	6.9	
29	4.1	7.4	0.0	
30	0.0	3.3	10.3	
31	3.8	3.9	12.4	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	213.8	225.5	265.4	
 Daily Means	6.9	7.3	8.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	