



Informe Solarimétrico

I Semestre 2023



Oficina de Servicios Climáticos

Dirección Meteorológica de Chile
Subdepartamento de Climatología y Meteorología Aplicada

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

Month: JANUARY Year: 2023 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	28.50	.	.	.
2	29.01	.	.	.
3	29.41	.	.	.
4	26.42	.	.	.
5	27.96	.	.	.
6	28.04	.	.	.
7	28.46	.	.	.
8	29.30	.	.	.
9	29.38	.	.	.
10	29.60	.	.	.
11	29.27	.	.	.
12	29.10	.	.	.
13	29.29	.	.	.
14	29.30	.	.	.
15	28.87	.	.	.
16	28.86	.	.	.
17	28.32	.	.	.
18	27.88	.	.	.
19	22.07	.	.	.
20	27.90	.	.	.
21	27.54	.	.	.
22	22.29	.	.	.
23	26.08	.	.	.
24	22.93	.	.	.
25	27.62	.	.	.
26	25.65	.	.	.
27	26.98	.	.	.
28	23.15	.	.	.
29	21.47	.	.	.
30	19.33	.	.	.
31	17.52	.	.	.
TT|Monthly Totals	827.53	.	.	.
|Daily Means	26.69	.	.	.
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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	31.88	28.82	.	21.21
2	32.25	6.89	.	33.46
3	32.04	26.07	.	23.29
4	31.93	26.17	.	24.34
5	30.66	26.03	.	13.99
6	31.31	25.11	.	25.84
7	31.31	15.61	.	29.45
8	31.16	28.68	.	22.85
9	30.62	6.01	.	30.55
10	25.50	30.40	.	33.52
11	27.86	12.77	.	27.48
12	30.00	21.25	.	21.06
13	31.80	11.40	.	27.67
14	31.66	18.47	.	8.77
15	31.42	30.85	.	12.79
16	30.87	27.03	.	31.66
17	29.84	27.62	.	22.41
18	30.89	31.28	.	27.51
19	30.37	20.45	.	11.50
20	27.85	8.84	.	30.35
21	30.80	8.59	.	22.40
22	30.51	22.80	.	27.40
23	17.57	24.56	.	13.46
24	22.99	18.93	.	31.57
25	11.54	16.59	.	24.33
26	25.88	15.14	.	22.62
27	7.29	30.18	.	11.33
28	26.13	31.51	.	16.62
29	10.63	18.87	.	21.73
30	23.65	27.96	.	22.48
31	10.70	28.66	.	15.96
TT|Monthly Totals	828.90	673.54	.	709.63
|Daily Means	26.74	21.73	.	22.89
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: 2023		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	27.90	.	.	.	.
2	25.21	.	.	.	.
3	29.12	.	.	.	.
4	27.68	.	.	.	.
5	16.86	.	.	.	.
6	22.29	.	.	.	.
7	28.58	.	.	.	.
8	25.88	.	.	.	.
9	28.34	.	.	.	.
10	23.15	.	.	.	.
11	28.25	.	.	.	.
12	27.45	.	.	.	.
13	27.97	.	.	.	.
14	27.69	.	.	.	.
15	27.28	.	.	.	.
16	20.80	.	.	.	.
17	26.74	.	.	.	.
18	26.17	.	.	.	.
19	28.27	.	.	.	.
20	26.45	.	.	.	.
21	27.04	.	.	.	.
22	28.22	.	.	.	.
23	28.36	.	.	.	.
24	27.68	.	.	.	.
25	28.40	.	.	.	.
26	27.95	.	.	.	.
27	25.05	.	.	.	.
28	0.14	.	.	.	.
29					
30					
31					
TT|Monthly Totals	714.91	.	.	.	.
|Daily Means	25.53	.	.	.	.
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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	29.38	29.26	.	8.15
2	29.59	30.76	.	22.39
3	28.80	29.80	.	25.48
4	27.60	29.96	.	4.53
5	27.39	13.95	.	28.39
6	25.89	29.84	.	18.05
7	25.34	29.35	.	18.86
8	25.22	25.56	.	8.42
9	25.62	6.72	.	6.78
10	26.57	30.34	.	12.08
11	26.88	14.55	.	17.33
12	25.83	14.88	.	13.24
13	27.07	7.11	.	17.70
14	27.45	4.97	.	16.45
15	27.65	10.07	.	21.35
16	27.09	24.52	.	17.71
17	26.61	28.80	.	12.05
18	26.69	23.95	.	9.50
19	26.88	19.10	.	16.12
20	25.17	27.06	.	13.12
21	26.21	25.92	.	21.75
22	26.03	10.98	.	20.55
23	25.81	22.06	.	7.21
24	25.70	10.76	.	18.66
25	25.59	20.97	.	18.00
26	26.01	17.60	.	6.84
27	25.67	24.83	.	10.97
28	1.07	0.07	.	0.45
29			.	
30				
31				
TT|Monthly Totals	720.78	563.73	.	412.13
|Daily Means	25.74	20.13	.	14.72
SS|Monthly Totals				
|Daily Means				
Types of Instruments	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
	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: 2023		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	11.56	.	.	.	.
2	27.57	.	.	.	.
3	26.47	.	.	.	.
4	26.02	.	.	.	.
5	27.38	.	.	.	.
6	26.75	.	.	.	.
7	25.82	.	.	.	.
8	26.86	.	.	.	.
9	24.93	.	.	.	.
10	26.14	.	.	.	.
11	26.92	.	.	.	.
12	25.51	.	.	.	.
13	26.38	.	.	.	.
14	26.58	.	.	.	.
15	24.16	.	.	.	.
16	26.47	.	.	.	.
17	26.93	.	.	.	.
18	26.68	.	.	.	.
19	21.05	.	.	.	.
20	24.29	.	.	.	.
21	26.48	.	.	.	.
22	26.78	.	.	.	.
23	26.49	.	.	.	.
24	25.60	.	.	.	.
25	25.86	.	.	.	.
26	24.74	.	.	.	.
27	25.56	.	.	.	.
28	25.32	.	.	.	.
29	25.07	.	.	.	.
30	20.99	.	.	.	.
31	24.97	.	.	.	.
TT|Monthly Totals	782.33	.	.	.	.
|Daily Means	25.24	.	.	.	.
SS|Monthly Totals					
|Daily Means					
Types of Instruments	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
	PSP EPPLEY	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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	9.74	4.60	.	7.25
2	25.25	19.69	.	10.46
3	24.46	17.51	.	15.90
4	24.45	22.30	.	16.45
5	24.46	18.99	.	7.36
6	24.15	4.86	.	20.70
7	22.94	19.01	.	15.21
8	23.80	12.66	.	12.70
9	23.79	4.60	.	15.15
10	23.63	6.79	.	13.83
11	23.73	10.69	.	18.11
12	21.72	7.23	.	16.38
13	22.65	18.03	.	8.35
14	22.36	2.43	.	9.18
15	20.17	17.39	.	6.97
16	5.94	10.18	.	13.84
17	22.99	11.02	.	10.26
18	23.28	18.54	.	8.45
19	23.24	12.15	.	14.58
20	22.64	12.91	.	15.33
21	22.31	12.75	.	5.72
22	21.96	13.94	.	13.61
23	22.09	21.67	.	10.24
24	21.43	17.94	.	13.87
25	21.87	19.82	.	12.00
26	21.34	20.41	.	9.89
27	21.02	10.71	.	3.62
28	20.40	7.11	.	13.16
29	20.25	12.07	.	8.93
30	20.87	12.51	.	11.29
31	20.97	13.01	.	3.99
TT|Monthly Totals	669.92	413.53	.	362.80
|Daily Means	21.61	13.34	.	11.70
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: APRIL		Year: 2023		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	23.82	.	.	.	.
2	24.38	.	.	.	.
3	21.25	.	.	.	.
4	24.34	.	.	.	.
5	24.64	.	.	.	.
6	24.97	.	.	.	.
7	15.82	.	.	.	.
8	19.54	.	.	.	.
9	22.87	.	.	.	.
10	24.04	.	.	.	.
11	24.01	.	.	.	.
12	23.43	.	.	.	.
13	23.88	.	.	.	.
14	23.70	.	.	.	20.50
15	22.27	.	.	.	21.99
16	13.81	.	.	.	20.85
17	16.54	.	.	.	20.04
18	19.92	.	.	.	20.61
19	23.32	.	.	.	21.13
20	23.32	.	.	.	6.42
21	22.37	.	.	.	15.63
22	22.35	.	.	.	8.15
23	22.30	.	.	.	19.59
24	22.44	.	.	.	20.23
25	22.45	.	.	.	14.28
26	19.62	.	.	.	7.70
27	22.28	.	.	.	13.42
28	21.50	.	.	.	13.61
29	18.56	.	.	.	19.44
30	14.31	.	.	.	13.27
31					
TT|Monthly Totals	648.05	.	.	.	.
|Daily Means	21.60	.	.	.	.
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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	21.22	7.24	.	12.72
2	19.29	12.83	.	9.31
3	12.77	1.30	.	4.98
4	19.29	15.72	.	7.45
5	16.55	1.90	.	10.38
6	18.03	3.83	.	7.58
7	18.52	11.61	.	4.76
8	19.76	10.53	.	8.87
9	19.20	4.24	.	12.43
10	18.87	4.34	.	5.15
11	17.96	5.16	.	5.70
12	11.08	11.32	.	11.37
13	17.71	16.36	.	11.11
14	10.00	12.60	.	7.35
15	13.37	9.00	.	1.42
16	13.59	6.33	.	8.77
17	17.09	7.65	.	1.35
18	14.03	2.32	.	5.57
19	16.66	6.27	.	9.67
20	16.49	4.00	.	4.12
21	10.71	6.65	.	8.42
22	14.86	13.21	.	3.79
23	15.48	12.35	.	6.58
24	15.16	9.06	.	1.58
25	15.27	1.72	.	7.25
26	7.63	2.55	.	2.66
27	13.88	3.43	.	7.17
28	8.80	4.44	.	1.11
29	3.73	9.33	.	4.61
30	7.68	10.59	.	4.42
31				
TT|Monthly Totals	444.69	227.87	.	197.64
|Daily Means	14.82	7.60	.	6.59
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: 2023		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	14.21	.	.	17.20	
2	13.60	.	.	9.20	
3	11.44	.	.	10.44	
4	8.66	.	.	18.02	
5	12.23	.	.	17.41	
6	13.22	.	.	18.14	
7	20.75	.	.	18.02	
8	20.24	.	.	15.21	
9	7.97	.	.	17.51	
10	12.20	.	.	10.11	
11	13.01	.	.	5.27	
12	9.24	.	.	10.47	
13	11.33	.	.	11.68	
14	16.00	.	.	5.58	
15	13.50	.	.	14.72	
16	15.85	.	.	10.84	
17	19.02	.	.	15.13	
18	13.94	.	.	12.07	
19	14.71	.	.	9.32	
20	8.01	.	.	3.91	
21	12.30	.	.	12.43	
22	10.93	.	.	14.90	
23	6.20	.	.	12.91	
24	8.36	.	.	14.50	
25	12.58	.	.	5.27	
26	7.36	.	.	13.78	
27	13.12	.	.	13.58	
28	10.06	.	.	9.72	
29	15.70	.	.	5.63	
30	10.40	.	.	11.07	
31	12.36	.	.	13.11	
TT|Monthly Totals	388.51	.	.	377.15	
|Daily Means	12.53	.	.	12.17	
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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	15.41	3.76	.	2.95
2	14.89	7.48	.	5.38
3	14.53	6.98	.	5.92
4	13.99	3.81	.	5.22
5	13.73	4.01	.	2.27
6	9.28	8.64	.	6.18
7	12.99	7.08	.	4.25
8	13.98	4.91	.	2.75
9	12.58	9.94	.	4.78
10	9.27	3.37	.	2.62
11	13.70	3.47	.	1.08
12	12.29	2.10	.	5.16
13	13.45	3.13	.	1.74
14	13.50	8.34	.	1.03
15	6.05	2.10	.	3.33
16	11.73	10.67	.	2.80
17	6.83	4.28	.	4.81
18	11.41	0.21	.	4.72
19	12.10	10.41	.	4.73
20	12.06	2.53	.	1.48
21	1.96	5.51	.	3.05
22	4.37	4.93	.	4.25
23	1.24	5.83	.	0.75
24	4.67	2.67	.	2.69
25	2.00	1.20	.	3.73
26	9.33	6.83	.	3.08
27	9.49	9.79	.	1.89
28	6.21	5.69	.	2.98
29	10.82	3.56	.	3.49
30	5.70	1.81	.	2.89
31	10.29	5.32	.	1.38
TT|Monthly Totals	309.85	160.37	.	103.37
|Daily Means	10.00	5.17	.	3.33
SS|Monthly Totals				
|Daily Means				
Types of Instruments	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
	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: 2023 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	5.52	.	.	9.77
2	15.52	.	.	8.90
3	7.62	.	.	11.67
4	11.50	.	.	13.17
5	17.01	.	.	7.82
6	12.35	.	.	4.74
7	15.20	.	.	8.36
8	15.36	.	.	7.76
9	12.71	.	.	11.68
10	12.75	.	.	8.81
11	11.55	.	.	12.40
12	11.14	.	.	8.45
13	11.58	.	.	15.09
14	12.53	.	.	15.62
15	12.00	.	.	16.17
16	13.16	.	.	13.92
17	18.11	.	.	11.52
18	12.36	.	.	6.97
19	17.68	.	.	14.45
20	13.16	.	.	11.64
21	9.67	.	.	11.42
22	9.31	.	.	10.46
23	15.90	.	.	15.29
24	12.61	.	.	15.35
25	12.70	.	.	11.48
26	15.65	.	.	14.10
27	11.38	.	.	15.56
28	18.72	.	.	13.00
29	12.97	.	.	8.09
30	11.96	.	.	12.46
31				
TT|Monthly Totals	389.66	.	.	346.14
|Daily Means	12.99	.	.	11.54
SS|Monthly Totals				
|Daily Means				
Types of Instruments	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
	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: 2023 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	QUINTA NORMAL	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS
Date				
1	10.43	1.91	.	3.43
2	7.46	2.93	.	2.63
3	4.19	5.53	.	1.88
4	10.29	7.46	.	3.69
5	10.95	0.59	.	2.93
6	5.05	5.99	.	2.76
7	6.29	1.35	.	3.74
8	9.39	3.48	.	1.99
9	1.04	2.68	.	1.71
10	3.19	6.88	.	1.64
11	10.96	5.37	.	3.46
12	10.99	5.42	.	3.45
13	11.28	5.09	.	1.22
14	10.01	2.41	.	3.06
15	10.33	5.65	.	3.23
16	8.90	6.68	.	3.09
17	10.52	7.42	.	2.08
18	5.59	5.16	.	2.93
19	9.34	8.30	.	1.26
20	4.65	1.58	.	3.42
21	2.76	1.79	.	1.13
22	2.24	1.52	.	0.89
23	1.03	2.95	.	0.62
24	2.58	6.54	.	1.09
25	2.76	3.90	.	1.07
26	1.51	4.77	.	0.94
27	3.77	2.43	.	0.80
28	4.15	4.07	.	0.90
29	9.29	2.37	.	1.16
30	10.14	2.02	.	1.19
31				
TT|Monthly Totals	201.08	124.22	.	63.37
|Daily Means	6.70	4.14	.	2.11
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: 2023		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	.	11.3	.	11.9	
2	.	12.2	.	12.5	
3	.	11.5	.	12.0	
4	.	12.2	.	11.9	
5	.	12.4	.	12.0	
6	.	12.4	.	12.4	
7	.	12.4	.	12.3	
8	.	12.4	.	11.7	
9	.	12.4	.	12.1	
10	.	12.4	.	12.1	
11	.	12.4	.	12.5	
12	.	11.9	.	12.7	
13	.	12.3	.	10.6	
14	.	12.3	.	11.3	
15	.	12.3	.	10.9	
16	.	12.3	.	11.9	
17	.	12.3	.	11.0	
18	.	12.3	.	12.3	
19	.	12.2	.	11.5	
20	.	11.6	.	9.5	
21	.	12.0	.	11.6	
22	.	12.2	.	12.0	
23	.	12.0	.	11.7	
24	.	12.0	.	11.9	
25	.	12.0	.	11.5	
26	.	12.1	.	12.0	
27	.	12.0	.	10.3	
28	.	12.1	.	10.9	
29	.	11.3	.	11.4	
30	.	9.7	.	9.9	
31	.	10.9	.	8.0	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	371.8	.	356.3	
|Daily Means	.	12.0	.	11.5	
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: 2023		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	9.6	.	.	4.2	
2	13.3	.	.	13.3	
3	9.8	.	.	13.4	
4	8.2	.	.	13.4	
5	9.4	.	.	13.4	
6	12.9	.	.	12.8	
7	13.0	.	.	13.2	
8	12.8	.	.	13.3	
9	10.5	.	.	13.4	
10	8.9	.	.	12.3	
11	13.3	.	.	9.7	
12	9.7	.	.	10.3	
13	0.1	.	.	12.2	
14	1.4	.	.	13.5	
15	6.6	.	.	13.5	
16	5.8	.	.	13.4	
17	10.4	.	.	13.3	
18	12.2	.	.	12.6	
19	10.6	.	.	13.3	
20	7.6	.	.	13.2	
21	5.9	.	.	10.2	
22	5.7	.	.	13.2	
23	13.0	.	.	13.2	
24	9.6	.	.	13.2	
25	11.5	.	.	13.1	
26	7.3	.	.	13.1	
27	5.4	.	.	13.1	
28	9.3	.	.	13.0	
29	8.9	.	.	13.0	
30	5.7	.	.	13.0	
31	6.3	.	.	13.0	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	274.7	.	.	388.8	
|Daily Means	8.9	.	.	12.5	
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: 2023 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	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
Date				
1	0.4	9.2	0.0	.
2	11.2	9.7	12.6	.
3	10.3	1.1	12.8	.
4	11.2	1.9	11.6	.
5	11.2	4.6	8.4	.
6	11.1	10.8	7.3	.
7	10.1	9.8	12.2	.
8	11.2	1.2	9.2	.
9	11.2	8.1	6.5	.
10	9.9	3.4	4.4	.
11	7.7	1.2	6.9	.
12	7.3	2.4	9.2	.
13	10.7	4.7	12.2	.
14	11.0	2.2	11.4	.
15	11.0	7.2	1.4	.
16	11.1	6.4	7.7	.
17	11.1	1.6	6.5	.
18	10.6	4.1	7.2	.
19	11.0	0.1	3.1	.
20	11.2	4.8	0.0	.
21	10.0	5.1	8.7	.
22	11.2	5.8	9.8	.
23	11.1	5.2	10.2	.
24	11.2	4.1	1.3	.
25	11.3	0.2	12.9	.
26	11.2	3.0	12.5	.
27	11.1	6.2	11.9	.
28	11.0	8.2	11.3	.
29	11.0	9.9	12.8	.
30	11.0	1.6	0.0	.
31	11.1	3.8	3.7	.
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	321.7	147.6	245.7	.
|Daily Means	10.4	4.8	7.9	.
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: JANUARY Year: 2023 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	.	.	14.2	10.4
2	.	.	11.0	7.6
3	.	.	7.7	5.4
4	.	.	11.8	11.5
5	.	.	14.0	10.7
6	.	.	11.7	8.9
7	.	.	7.1	13.8
8	.	.	6.5	5.0
9	.	.	11.3	12.2
10	.	.	6.9	3.2
11	.	.	11.6	11.8
12	.	.	13.9	12.1
13	.	.	12.5	12.3
14	.	.	14.0	11.6
15	.	.	10.8	11.1
16	.	.	12.0	12.0
17	.	.	7.4	11.0
18	.	.	11.5	12.0
19	.	.	12.7	12.2
20	.	.	7.2	8.0
21	.	.	7.0	0.9
22	.	.	.	6.3
23	.	.	10.7	10.5
24	.	.	8.6	6.9
25	.	.	12.0	12.1
26	.	.	12.6	9.1
27	.	.	9.3	9.9
28	.	.	12.6	12.2
29	.	.	12.4	12.2
30	.	.	9.7	12.0
31	.	.	11.9	7.7
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	.	.	302.6
|Daily Means	.	.	10.8	9.8
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: 2023 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	7.2	7.0	0.9	
2	10.2	1.4	8.5	
3	.	7.4	10.5	
4	7.4	5.6	8.6	
5	9.0	10.8	7.9	
6	6.5	9.1	4.3	
7	7.2	4.5	9.0	
8	1.2	2.8	11.4	
9	11.2	0.3	4.9	
10	1.6	1.0	4.9	
11	11.1	0.0	14.7	
12	2.2	7.4	10.4	
13	8.0	12.3	5.1	
14	2.4	9.7	11.4	
15	4.3	10.9	0.0	
16	13.1	12.2	2.7	
17	10.1	7.4	14.7	
18	9.4	11.5	8.0	
19	11.8	12.0	11.4	
20	8.1	12.7	1.5	
21	0.5	10.4	12.8	
22	0.9	2.3	7.5	
23	7.0	12.5	11.0	
24	7.7	6.8	4.4	
25	9.5	6.5	12.1	
26	4.8	3.9	0.0	
27	7.4	6.6	8.0	
28	10.7	6.5	2.3	
29	13.3	9.1	8.6	
30	6.6	9.2	9.6	
31	10.0	10.7	8.1	
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	230.5	235.2	
|Daily Means	7.3	7.4	7.6	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	

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

Month: FEBRUARY		Year: 2023		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	.	9.1	.	9.8	
2	.	12.7	.	11.4	
3	.	10.3	.	10.5	
4	.	11.7	.	11.4	
5	.	10.3	.	10.0	
6	.	10.9	.	11.6	
7	.	10.8	.	11.4	
8	.	11.3	.	10.5	
9	.	11.0	.	10.2	
10	.	10.4	.	6.9	
11	.	12.0	.	11.4	
12	.	11.9	.	11.4	
13	.	11.6	.	11.1	
14	.	11.9	.	10.5	
15	.	11.9	.	11.1	
16	.	11.8	.	11.5	
17	.	10.8	.	8.1	
18	.	11.2	.	11.3	
19	.	11.5	.	11.5	
20	.	12.9	.	11.3	
21	.	11.9	.	10.7	
22	.	11.8	.	11.2	
23	.	11.1	.	11.7	
24	.	11.9	.	11.7	
25	.	11.8	.	11.4	
26	.	11.9	.	11.2	
27	.	11.8	.	11.4	
28	.	11.5	.	11.2	
29					
30					
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	319.7	.	303.4	
|Daily Means	.	11.4	.	10.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: FEBRUARY Year: 2023 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	11.7	.	.	12.9
2	12.7	.	.	12.9
3	6.9	.	.	12.8
4	6.1	.	.	12.7
5	9.5	.	.	12.6
6	12.6	.	.	12.4
7	9.2	.	.	12.3
8	8.9	.	.	12.2
9	8.0	.	.	12.2
10	8.9	.	.	12.0
11	7.8	.	.	12.3
12	11.5	.	.	12.3
13	12.0	.	.	12.3
14	6.3	.	.	12.5
15	4.0	.	.	12.5
16	4.6	.	.	12.5
17	8.3	.	.	12.3
18	12.1	.	.	12.2
19	11.7	.	.	12.3
20	12.2	.	.	12.4
21	4.0	.	.	11.4
22	0.0	.	.	12.3
23	9.1	.	.	12.1
24	9.5	.	.	12.2
25	11.9	.	.	12.1
26	10.5	.	.	12.1
27	9.7	.	.	12.2
28	6.5	.	.	12.1
29				
30				
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	246.2	.	.	345.1
|Daily Means	8.8	.	.	12.3
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: FEBRUARY Year: 2023 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	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
Date				
1	11.0	1.2	0.0	.
2	11.0	0.7	8.7	.
3	11.2	10.7	11.9	.
4	11.0	11.6	11.1	.
5	10.1	10.8	11.4	.
6	10.9	9.6	9.2	.
7	10.9	8.2	0.0	.
8	10.9	10.9	4.5	.
9	10.5	9.9	0.0	.
10	10.9	10.8	4.3	.
11	11.0	11.0	8.8	.
12	11.1	5.7	11.7	.
13	10.9	8.8	10.9	.
14	11.0	7.7	11.8	.
15	11.3	7.9	12.0	.
16	11.2	6.2	12.1	.
17	11.3	6.0	8.7	.
18	11.2	9.7	12.3	.
19	10.8	3.7	12.6	.
20	11.3	3.7	11.4	.
21	9.8	7.8	10.3	.
22	11.3	9.5	7.2	.
23	11.2	6.8	6.9	.
24	11.1	6.5	0.0	.
25	11.1	5.1	3.1	.
26	10.6	1.4	9.1	.
27	11.0	3.3	12.8	.
28	11.1	4.7	12.5	.
29				
30				
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	306.7	199.9	235.3	.
|Daily Means	11.0	7.1	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: FEBRUARY Year: 2023 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	.	.	13.3	11.2
2	.	.	11.7	12.0
3	.	.	13.1	12.1
4	.	.	13.4	11.8
5	.	.	13.1	12.8
6	.	.	10.2	11.2
7	.	.	12.3	10.3
8	.	.	11.9	9.9
9	.	.	11.5	10.8
10	.	.	10.2	8.4
11	.	.	12.6	9.4
12	.	.	10.1	8.1
13	.	.	1.9	0.6
14	.	.	9.0	1.7
15	.	.	0.6	1.0
16	.	.	6.8	2.6
17	.	.	12.5	10.7
18	.	.	12.7	11.5
19	.	.	11.3	9.5
20	.	.	10.6	9.6
21	.	.	11.4	10.8
22	.	.	12.1	10.7
23	.	.	13.0	.
24	.	.	9.6	7.4
25	.	.	10.9	9.6
26	.	.	11.6	8.7
27	.	.	11.2	11.0
28	.	.	11.7	10.8
29				
30				
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	.	300.3	.
|Daily Means	.	.	10.7	9.0
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRUARY		Year: 2023		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	10.9	11.6	1.4		
2	10.5	10.7	0.0		
3	13.0	7.6	9.1		
4	11.9	11.9	0.0		
5	13.2	11.8	0.0		
6	5.3	11.3	12.6		
7	12.9	10.8	6.4		
8	13.2	9.2	7.1		
9	9.5	8.1	1.6		
10	0.7	8.8	2.3		
11	9.1	7.3	4.1		
12	4.2	1.6	8.3		
13	4.4	9.1	7.5		
14	0.1	5.5	3.0		
15	0.0	0.3	4.7		
16	1.6	11.8	10.8		
17	11.3	11.1	6.4		
18	12.8	9.7	3.4		
19	9.4	10.8	2.7		
20	6.5	11.8	8.6		
21	11.0	4.9	1.8		
22	11.7	7.3	9.4		
23	3.6	8.4	7.8		
24	8.3	10.0	1.3		
25	5.3	5.8	8.1		
26	7.6	3.5	8.1		
27	6.7	2.1	0.5		
28	11.4	4.4	5.7		
29					
30					
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	226.1	227.2	142.7		
|Daily Means	8.1	8.1	5.1		
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL	CAMPBELL		
	STOKES	STOKES	STOKES		

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

Month: MARCH		Year: 2023		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	.	9.6	
2	.	11.7	.	9.3	
3	.	11.7	.	9.3	
4	.	11.7	.	11.0	
5	.	11.5	.	10.9	
6	.	11.4	.	11.1	
7	.	10.8	.	10.5	
8	.	11.7	.	11.0	
9	.	11.7	.	10.9	
10	.	11.4	.	10.8	
11	.	11.4	.	10.9	
12	.	10.2	.	11.0	
13	.	11.3	.	10.9	
14	.	10.8	.	11.0	
15	.	11.5	.	8.5	
16	.	8.8	.	10.1	
17	.	11.5	.	11.0	
18	.	11.4	.	10.7	
19	.	11.0	.	10.0	
20	.	5.8	.	2.6	
21	.	10.0	.	10.7	
22	.	11.4	.	10.6	
23	.	11.4	.	10.5	
24	.	11.4	.	10.1	
25	.	11.2	.	10.5	
26	.	11.4	.	10.8	
27	.	10.5	.	10.1	
28	.	10.9	.	10.1	
29	.	11.3	.	9.6	
30	.	11.1	.	10.4	
31	.	11.0	.	9.7	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	340.3	.	314.2	
|Daily Means	.	11.0	.	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: MARCH		Year: 2023		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	.	.	12.0	
2	0.0	.	.	12.0	
3	4.4	.	.	12.0	
4	9.0	.	.	11.9	
5	10.6	.	.	11.9	
6	8.4	.	.	11.9	
7	10.5	.	.	11.5	
8	12.0	.	.	11.0	
9	12.1	.	.	11.8	
10	11.0	.	.	11.7	
11	12.1	.	.	11.7	
12	11.9	.	.	11.7	
13	12.0	.	.	10.7	
14	11.9	.	.	11.4	
15	10.3	.	.	11.6	
16	10.2	.	.	11.5	
17	9.1	.	.	11.5	
18	11.4	.	.	11.5	
19	8.9	.	.	11.5	
20	8.1	.	.	11.5	
21	11.7	.	.	11.5	
22	11.6	.	.	11.5	
23	9.8	.	.	11.5	
24	9.4	.	.	11.5	
25	6.9	.	.	12.3	
26	9.7	.	.	11.3	
27	10.8	.	.	11.3	
28	3.7	.	.	11.2	
29	2.0	.	.	11.1	
30	8.2	.	.	10.6	
31	6.8	.	.	11.2	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	274.5	.	.	357.3	
|Daily Means	8.9	.	.	11.5	
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: MARCH Year: 2023 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	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
Date				
1	11.0	4.1	6.6	.
2	9.3	5.2	9.3	.
3	10.9	2.4	8.4	.
4	10.8	7.1	7.7	.
5	11.0	9.3	3.3	.
6	10.9	5.1	6.0	.
7	10.3	10.5	4.8	.
8	9.8	0.0	1.0	.
9	10.1	8.2	10.2	.
10	10.0	10.3	1.6	.
11	10.0	0.0	0.1	.
12	9.7	1.4	10.4	.
13	9.5	0.5	8.3	.
14	9.4	5.8	5.7	.
15	9.4	2.6	8.8	.
16	9.1	0.8	10.3	.
17	8.9	0.7	9.4	.
18	8.8	2.7	5.2	.
19	8.8	7.0	10.8	.
20	8.8	2.2	10.0	.
21	8.8	9.0	2.9	.
22	8.7	7.9	6.4	.
23	8.6	9.2	5.2	.
24	8.6	9.0	9.3	.
25	8.6	9.4	9.9	.
26	11.0	3.9	10.0	.
27	8.6	9.3	1.0	.
28	8.5	7.5	2.2	.
29	8.6	5.7	9.4	.
30	8.6	4.3	11.3	.
31	8.4	7.7	10.0	.
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	293.5	168.8	215.5	.
|Daily Means	9.5	5.4	7.0	.
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: MARCH		Year: 2023		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	.	.	10.4	7.3	
2	.	.	6.0	7.4	
3	.	.	10.7	11.3	
4	.	.	7.4	8.4	
5	.	.	11.0	11.3	
6	.	.	11.8	11.4	
7	.	.	6.3	1.8	
8	.	.	0.3	0.0	
9	.	.	1.2	6.1	
10	.	.	0.0	0.0	
11	.	.	6.4	3.7	
12	.	.	8.6	1.7	
13	.	.	1.0	0.0	
14	.	.	5.5	7.0	
15	.	.	9.6	1.2	
16	.	.	0.1	0.0	
17	.	.	0.0	0.0	
18	.	.	0.0	0.0	
19	.	.	5.1	2.1	
20	.	.	7.5	6.6	
21	.	.	10.3	7.1	
22	.	.	8.3	2.4	
23	.	.	8.4	6.8	
24	.	.	9.4	10.4	
25	.	.	9.4	9.9	
26	.	.	9.7	10.3	
27	.	.	9.4	7.3	
28	.	.	3.7	2.7	
29	.	.	4.4	5.4	
30	.	.	7.9	8.1	
31	.	.	8.9	10.1	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	.	198.7	167.8	
|Daily Means	.	.	6.4	5.4	
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: MARCH		Year: 2023		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	3.8	3.2	9.0		
2	3.3	9.3	8.8		
3	8.9	4.9	2.6		
4	6.0	9.7	6.9		
5	9.3	1.7	7.5		
6	5.4	5.6	1.4		
7	0.6	3.4	6.9		
8	6.5	8.1	7.4		
9	3.0	3.5	5.4		
10	0.0	4.9	5.6		
11	0.3	0.8	6.7		
12	2.1	0.6	10.6		
13	0.3	8.9	6.3		
14	7.6	1.9	0.9		
15	0.0	1.8	4.4		
16	1.7	9.8	1.3		
17	0.0	1.2	7.6		
18	1.7	9.3	6.0		
19	8.6	6.0	1.5		
20	4.6	8.7	5.5		
21	5.1	9.2	9.5		
22	5.0	9.1	1.3		
23	5.0	8.3	5.3		
24	11.4	7.8	2.8		
25	7.0	4.1	6.7		
26	.	8.8	7.7		
27	10.4	8.3	1.6		
28	3.8	1.7	0.8		
29	1.5	0.1	0.0		
30	7.3	3.5	6.4		
31	5.5	8.3	5.5		
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	172.5	159.9		
|Daily Means	4.5	5.6	5.2		
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL	CAMPBELL		
	STOKES	STOKES	STOKES		

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

Month: APRIL		Year: 2023		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	.	11.1	.	10.6	
2	.	11.0	.	8.4	
3	.	11.1	.	10.6	
4	.	7.8	.	10.4	
5	.	11.1	.	8.7	
6	.	11.1	.	9.6	
7	.	11.0	.	2.3	
8	.	8.1	.	7.9	
9	.	9.0	.	10.3	
10	.	11.0	.	10.2	
11	.	11.0	.	10.2	
12	.	9.8	.	10.4	
13	.	8.3	.	8.7	
14	.	11.0	.	9.7	
15	.	10.9	.	7.9	
16	.	3.3	.	10.3	
17	.	4.0	.	11.0	
18	.	3.9	.	9.9	
19	.	7.1	.	9.0	
20	.	10.4	.	9.8	
21	.	7.7	.	5.7	
22	.	10.7	.	10.5	
23	.	10.7	.	8.1	
24	.	10.7	.	9.2	
25	.	10.7	.	10.1	
26	.	10.5	.	10.6	
27	.	10.5	.	10.0	
28	.	10.6	.	9.2	
29	.	10.6	.	10.3	
30	.	10.6	.	10.3	
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	285.3	.	279.9	
|Daily Means	.	9.5	.	9.3	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: APRIL Year: 2023 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	6.6	.	.	11.2
2	0.7	.	.	10.6
3	4.6	.	.	10.2
4	4.9	.	.	4.2
5	4.9	.	.	10.9
6	6.8	.	.	9.8
7	5.8	.	.	10.8
8	1.8	.	.	11.9
9	2.8	.	.	10.8
10	7.3	.	.	10.8
11	6.6	.	.	10.2
12	3.5	.	.	10.5
13	0.0	.	.	6.0
14	6.1	.	.	10.1
15	9.2	.	.	6.9
16	11.1	.	.	9.0
17	9.7	.	.	6.3
18	9.6	.	.	10.3
19	9.1	.	.	9.7
20	10.9	.	.	9.8
21	0.4	.	.	10.2
22	7.4	.	.	5.0
23	3.9	.	.	9.6
24	9.7	.	.	10.2
25	9.2	.	.	8.5
26	4.3	.	.	9.2
27	3.7	.	.	5.2
28	6.3	.	.	8.2
29	6.0	.	.	3.6
30	10.7	.	.	0.0
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	183.6	.	.	259.7
|Daily Means	6.1	.	.	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 3Year: 2022 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	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
Date				
1	8.6	9.1	10.7	.
2	8.4	7.7	9.9	.
3	.	1.5	10.1	.
4	2.5	7.6	3.6	.
5	8.5	8.1	9.6	.
6	7.3	0.0	7.9	.
7	8.4	4.5	9.6	.
8	8.3	6.7	9.7	.
9	7.6	8.9	4.8	.
10	8.4	0.0	6.9	.
11	8.1	3.5	7.6	.
12	6.8	8.0	2.0	.
13	1.4	2.8	0.0	.
14	8.2	0.7	9.0	.
15	2.1	0.0	4.9	.
16	7.1	3.4	3.0	.
17	6.0	0.4	8.6	.
18	8.2	2.9	6.5	.
19	6.3	5.5	8.3	.
20	8.4	1.6	9.4	.
21	8.2	0.3	1.8	.
22	5.0	1.6	5.8	.
23	8.1	8.1	3.1	.
24	8.0	5.9	0.0	.
25	7.9	1.1	0.0	.
26	7.7	0.4	0.0	.
27	1.6	0.0	1.1	.
28	7.6	0.0	0.0	.
29	2.2	5.3	0.7	.
30	0.0	6.0	0.2	.
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	111.6	154.8	.
|Daily Means	6.4	3.7	5.2	.
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL STOKES	CAMPBELL STOKES	CAMPBELL STOKES	CAMPBELL STOKES

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

Month: APRIL Year: 2023 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	.	.	8.4	10.8
2	.	.	1.1	2.0
3	.	.	3.2	3.9
4	.	.	8.9	.
5	.	.	7.3	7.8
6	.	.	2.3	1.0
7	.	.	4.9	0.4
8	.	.	4.8	8.3
9	.	.	7.0	6.2
10	.	.	9.1	1.0
11	.	.	3.0	0.2
12	.	.	4.6	.
13	.	.	7.4	5.0
14	.	.	5.2	8.0
15	.	.	7.4	6.5
16	.	.	9.6	7.9
17	.	.	2.8	0.1
18	.	.	1.4	2.7
19	.	.	0.0	0.0
20	.	.	5.6	2.1
21	.	.	1.7	0.1
22	.	.	0.9	3.0
23	.	.	7.4	3.2
24	.	.	5.7	0.6
25	.	.	0.0	3.7
26	.	.	0.0	0.0
27	.	.	6.4	1.5
28	.	.	0.0	0.0
29	.	.	0.5	.
30	.	.	1.4	3.3
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	.	128.0	.
|Daily Means	.	.	4.3	3.3
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: 2023 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	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	7.6	0.4	0.0	
2	1.3	5.9	7.8	
3	.	6.8	5.0	
4	.	4.6	2.9	
5	.	0.8	5.9	
6	.	2.1	6.5	
7	.	5.6	3.5	
8	6.6	.	0.0	
9	4.5	.	5.8	
10	0.0	.	9.6	
11	1.0	.	2.3	
12	0.3	.	5.6	
13	5.6	.	10.1	
14	10.2	.	8.9	
15	7.8	.	4.8	
16	1.6	.	0.3	
17	0.8	.	8.7	
18	2.2	.	0.6	
19	0.0	.	4.9	
20	1.4	.	8.9	
21	0.0	.	2.9	
22	0.5	.	8.6	
23	9.0	.	1.4	
24	7.1	.	7.4	
25	3.7	.	0.0	
26	0.0	.	7.4	
27	0.0	.	1.0	
28	0.1	.	9.0	
29	0.6	.	0.0	
30	4.8	.	3.7	
31				
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	.	.	143.5	
|Daily Means	.	.	4.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	

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

Month: MAY		Year: 2023		Country: CHILE	
Daily Totals					
Latitude	18°21' S	20°32' S	22°28' S	23°26' S	
Longitude	70°19'W	72°10' W	68°55' W	70°26' W	
Elevation	58 m	52 m	270 m	135 m	
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
Date					
1	.	7.4	.	7.8	
2	.	8.0	.	6.7	
3	.	7.0	.	5.1	
4	.	0.0	.	4.2	
5	.	0.0	.	3.6	
6	.	5.1	.	10.1	
7	.	8.7	.	9.0	
8	.	10.3	.	10.2	
9	.	10.1	.	7.5	
10	.	9.5	.	6.4	
11	.	5.6	.	6.8	
12	.	7.1	.	8.1	
13	.	7.3	.	7.8	
14	.	7.9	.	9.5	
15	.	8.5	.	8.2	
16	.	10.2	.	9.8	
17	.	9.4	.	7.6	
18	.	10.3	.	9.8	
19	.	10.3	.	7.6	
20	.	3.5	.	2.7	
21	.	6.3	.	5.3	
22	.	10.3	.	9.2	
23	.	6.2	.	6.7	
24	.	3.0	.	7.1	
25	.	5.1	.	9.3	
26	.	9.0	.	5.0	
27	.	7.0	.	6.5	
28	.	3.6	.	8.3	
29	.	3.6	.	7.0	
30	.	2.6	.	8.4	
31	.	6.5	.	5.6	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	209.4	.	226.9	
|Daily Means	.	6.8	.	7.3	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: MAY		Year: 2022		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	5.1	.	.	3.9	
2	8.0	.	.	10.0	
3	3.2	.	.	10.0	
4	3.8	.	.	9.9	
5	8.6	.	.	9.7	
6	8.6	.	.	9.7	
7	9.9	.	.	9.2	
8	10.6	.	.	9.1	
9	7.5	.	.	9.8	
10	8.4	.	.	9.6	
11	2.5	.	.	5.0	
12	2.1	.	.	9.3	
13	5.2	.	.	9.6	
14	6.0	.	.	9.5	
15	1.9	.	.	9.6	
16	9.3	.	.	3.5	
17	3.3	.	.	8.2	
18	10.3	.	.	4.1	
19	7.3	.	.	8.2	
20	4.1	.	.	9.1	
21	0.0	.	.	9.4	
22	6.2	.	.	0.0	
23	10.1	.	.	0.7	
24	10.1	.	.	0.0	
25	7.8	.	.	0.0	
26	0.0	.	.	0.0	
27	9.0	.	.	5.9	
28	7.1	.	.	8.5	
29	3.2	.	.	1.3	
30	0.0	.	.	8.2	
31	6.7	.	.	1.0	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	185.9	.	.	202.0	
|Daily Means	6.0	.	.	6.5	
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: MAY Year: 2023 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	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
Date				
1	2.0	5.2	5.9	.
2	7.9	5.3	7.4	.
3	7.9	2.8	8.3	.
4	7.9	0.3	7.6	.
5	7.8	1.1	5.7	.
6	7.5	0.7	6.8	.
7	5.1	0.0	0.0	.
8	7.5	2.7	5.3	.
9	7.6	7.0	7.2	.
10	7.8	7.5	6.0	.
11	4.4	3.4	1.7	.
12	7.4	7.5	5.9	.
13	7.1	1.8	6.4	.
14	7.6	7.8	0.9	.
15	7.6	1.5	0.0	.
16	2.9	2.8	0.0	.
17	7.5	2.6	0.5	.
18	2.5	7.4	6.5	.
19	6.0	1.4	5.7	.
20	7.6	4.7	6.5	.
21	7.1	2.9	5.9	.
22	0.0	3.4	0.0	.
23	0.2	0.2	0.6	.
24	0.0	6.9	0.0	.
25	0.0	.	2.3	.
26	0.0	6.6	0.0	.
27	4.2	.	2.3	.
28	6.4	1.1	6.2	.
29	0.7	.	0.0	.
30	7.2	1.9	5.1	.
31	0.0	0.1	0.0	.
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	155.4	.	116.7	.
|Daily Means	5.0	3.5	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: MAY		Year: 2023		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	.	.	4.7	7.7	
2	.	.	5.8	2.0	
3	.	.	7.8	4.6	
4	.	.	7.7	7.4	
5	.	.	2.6	3.5	
6	.	.	7.8	6.6	
7	.	.	3.9	6.5	
8	.	.	7.4	5.9	
9	.	.	3.3	3.8	
10	.	.	6.5	5.8	
11	.	.	2.5	4.3	
12	.	.	5.8	4.4	
13	.	.	0.0	0.2	
14	.	.	3.0	.	
15	.	.	6.3	2.2	
16	.	.	4.8	1.7	
17	.	.	0.0	1.1	
18	.	.	3.4	0.0	
19	.	.	2.5	0.8	
20	.	.	7.3	5.4	
21	.	.	0.7	1.1	
22	.	.	0.0	0.8	
23	.	.	0.3	1.0	
24	.	.	4.7	4.9	
25	.	.	1.4	2.0	
26	.	.	4.8	0.8	
27	.	.	1.0	4.3	
28	.	.	6.9	6.9	
29	.	.	0.7	0.0	
30	.	.	1.8	1.1	
31	.	.	0.0	0.1	
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	.	115.4	.	
|Daily Means	.	.	3.7	3.2	
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: MAY Year: 2023 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	4.9	.	2.7	
2	0.0	.	1.6	
3	2.8	.	4.7	
4	5.1	.	5.7	
5	0.2	.	5.9	
6	0.0	.	1.3	
7	3.4	.	8.6	
8	2.7	.	3.2	
9	0.8	.	2.6	
10	7.5	.	5.4	
11	0.6	.	0.6	
12	0.6	.	0.0	
13	0.0	.	6.3	
14	0.5	.	0.6	
15	6.4	.	0.1	
16	0.4	.	4.5	
17	8.0	.	2.2	
18	0.3	.	6.2	
19	2.7	.	7.0	
20	8.7	.	5.3	
21	0.3	.	0.4	
22	2.1	.	0.4	
23	1.9	.	5.8	
24	3.4	.	0.4	
25	1.9	.	2.8	
26	0.0	.	3.1	
27	4.3	.	4.8	
28	8.2	.	0.9	
29	2.7	.	3.5	
30	0.1	.	3.5	
31	0.0	.	2.9	
TT|Monthly Totals				
|Daily Means				
SS|Monthly Totals	80.5	.	103.0	
|Daily Means	2.6	.	3.3	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	

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

Month: JUNE		Year: 2023		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	.	8.0	.	8.2	
2	.	0.0	.	2.9	
3	.	7.4	.	6.0	
4	.	4.6	.	8.0	
5	.	5.1	.	8.3	
6	.	5.3	.	8.6	
7	.	8.2	.	5.3	
8	.	7.4	.	8.1	
9	.	9.5	.	7.3	
10	.	9.1	.	8.5	
11	.	7.6	.	8.2	
12	.	6.5	.	6.0	
13	.	0.3	.	0.0	
14	.	3.4	.	9.4	
15	.	8.8	.	9.1	
16	.	8.2	.	8.1	
17	.	7.6	.	9.1	
18	.	7.8	.	7.7	
19	.	5.2	.	9.3	
20	.	9.0	.	7.9	
21	.	4.6	.	2.6	
22	.	1.9	.	3.3	
23	.	4.7	.	5.6	
24	.	6.7	.	9.5	
25	.	3.8	.	9.3	
26	.	1.0	.	2.7	
27	.	7.5	.	6.8	
28	.	6.0	.	6.8	
29	.	8.4	.	7.8	
30	.	7.6	.	7.0	
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	181.2	.	207.4	
|Daily Means	.	6.0	.	6.9	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: JUNE		Year: 2023		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	8.7	.	.	9.0	
2	3.3	.	.	7.5	
3	4.3	.	.	4.8	
4	7.1	.	.	0.0	
5	7.0	.	.	8.1	
6	2.8	.	.	8.0	
7	0.0	.	.	1.5	
8	3.9	.	.	5.2	
9	1.9	.	.	7.7	
10	5.9	.	.	0.0	
11	2.5	.	.	0.9	
12	6.6	.	.	7.5	
13	2.6	.	.	0.0	
14	8.4	.	.	9.1	
15	9.9	.	.	8.2	
16	9.8	.	.	9.1	
17	7.4	.	.	8.8	
18	4.2	.	.	9.1	
19	1.6	.	.	3.9	
20	9.1	.	.	7.7	
21	6.3	.	.	1.4	
22	6.4	.	.	0.0	
23	6.4	.	.	0.0	
24	10.1	.	.	0.0	
25	9.9	.	.	1.6	
26	5.9	.	.	0.0	
27	7.5	.	.	0.5	
28	9.3	.	.	0.2	
29	7.5	.	.	3.1	
30	3.8	.	.	8.9	
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	180.1	.	.	131.8	
|Daily Means	6.0	.	.	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: JUNE		Year: 2023		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	6.4	.	6.3	.	
2	7.9	0.0	4.1	.	
3	4.3	5.0	2.1	.	
4	0.0	3.3	2.2	.	
5	6.2	2.2	5.6	.	
6	6.9	5.9	5.8	.	
7	1.2	0.9	1.6	.	
8	2.7	0.9	0.8	.	
9	5.2	0.1	0.0	.	
10	0.0	1.8	2.5	.	
11	0.0	4.2	6.1	.	
12	7.3	.	6.1	.	
13	7.5	.	6.1	.	
14	7.6	6.5	6.0	.	
15	4.3	6.6	4.5	.	
16	8.1	6.3	5.6	.	
17	7.3	4.2	6.0	.	
18	7.6	5.6	5.9	.	
19	0.6	2.1	0.0	.	
20	6.7	2.2	5.8	.	
21	1.1	0.4	0.0	.	
22	0.0	0.0	0.0	.	
23	0.0	.	0.0	.	
24	0.0	0.0	0.0	.	
25	0.9	0.0	1.6	.	
26	0.0	2.5	0.0	.	
27	0.0	.	0.0	.	
28	0.0	2.8	4.8	.	
29	0.6	4.1	2.4	.	
30	7.0	0.0	6.2	.	
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals					
|Daily Means					
Types of					
Instruments					
HELIOGRAPH					
CAMPBELL					
STOKES					

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

Month: JUNE		Year: 2023		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	0.9	
2	.	.	0.6	1.0	
3	.	.	4.1	2.4	
4	.	.	1.5	5.5	
5	.	.	5.3	0.6	
6	.	.	0.8	0.0	
7	.	.	3.2	4.8	
8	.	.	0.0	0.0	
9	.	.	0.0	0.3	
10	.	.	1.7	1.0	
11	.	.	5.9	4.1	
12	.	.	6.6	2.7	
13	.	.	8.2	4.0	
14	.	.	1.0	1.6	
15	.	.	2.4	0.0	
16	.	.	0.2	2.2	
17	.	.	7.3	5.1	
18	.	.	6.8	2.2	
19	.	.	1.2	0.1	
20	.	.	0.0	1.6	
21	.	.	0.0	0.0	
22	.	.	0.7	0.0	
23	.	.	0.0	0.0	
24	.	.	0.0	0.0	
25	.	.	1.9	0.4	
26	.	.	1.5	2.1	
27	.	.	0.0	.	
28	.	.	3.5	1.2	
29	.	.	2.2	0.1	
30	.	.	1.5	0.0	
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	.	.	68.1	.	
|Daily Means	.	.	2.3	1.5	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	STOKES	

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

Month: JUNE		Year: 2023		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	4.5	.	0.0		
2	0.1	.	4.0		
3	1.4	.	2.5		
4	3.0	.	1.2		
5	5.8	.	6.2		
6	0.0	.	4.0		
7	5.2	.	3.4		
8	0.0	.	7.1		
9	0.6	.	2.4		
10	1.9	.	0.9		
11	6.3	.	2.1		
12	3.8	.	6.3		
13	4.1	.	6.8		
14	1.4	.	1.3		
15	0.0	.	4.7		
16	2.8	.	5.4		
17	7.9	.	6.0		
18	6.6	.	3.2		
19	2.7	.	4.8		
20	7.6	.	0.6		
21	0.0	.	6.6		
22	0.0	.	0.2		
23	0.2	.	0.0		
24	0.4	.	0.0		
25	4.3	.	0.0		
26	2.5	.	0.0		
27	2.8	.	0.0		
28	1.2	.	0.0		
29	1.6	.	0.0		
30	0.0	.	0.0		
31					
TT|Monthly Totals					
|Daily Means					
SS|Monthly Totals	78.7	.	79.7		
|Daily Means	2.6	.	2.7		
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH		
Instruments	CAMPBELL	CAMPBELL	CAMPBELL		
	STOKES	STOKES	STOKES		