



Informe Solarimétrico

11 Semestre 2024

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: JULY Year: 2024 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	27°21' S	33°27' S
Longitude	70°19'W	68°54' W	70°21' W	70°42' W
Elevation	58 m	2270 m	362 m	520 m
Station	ARICA	CALAMA	COPIAPO	QUINTA NORMAL
Date				
1	12.78	.	15.92	10.50
2	10.16	.	12.69	11.17
3	9.83	.	11.28	8.83
4	16.63	.	14.13	8.31
5	13.94	.	7.67	9.34
6	16.77	.	9.45	10.11
7	18.09	.	12.11	10.18
8	9.10	.	6.41	10.25
9	8.85	.	11.68	10.18
10	4.29	.	10.99	6.78
11	11.44	.	16.22	9.92
12	14.44	.	10.84	11.28
13	17.69	.	16.83	11.17
14	16.82	.	12.02	10.75
15	16.32	.	14.71	9.69
16	16.27	.	11.75	10.61
17	9.47	.	3.61	10.27
18	19.38	.	10.16	3.52
19	11.57	.	10.95	9.09
20	6.32	.	11.18	10.77
21	14.27	.	10.94	9.27
22	15.44	.	16.34	11.83
23	17.01	.	16.65	3.69
24	13.99	.	17.98	11.66
25	10.97	.	17.20	8.44
26	12.56	.	15.55	6.35
27	10.70	.	14.21	11.92
28	16.68	.	13.87	12.10
29	14.99	.	13.63	12.71
30	17.36	.	4.74	2.88
31	15.95	.	10.14	1.53
TT Monthly Totals	420.06	.	381.85	285.10
 Daily Means	13.55	.	12.32	9.20
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: JULY		Year: 2024		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	1.20	.	3.77		
2	7.32	.	2.94		
3	4.11	.	1.62		
4	7.97	.	1.20		
5	5.86	.	3.92		
6	5.83	.	2.64		
7	7.47	.	0.76		
8	2.84	.	4.15		
9	8.26	.	0.86		
10	0.38	.	4.11		
11	9.18	.	4.23		
12	5.95	.	1.61		
13	8.31	.	2.11		
14	3.48	.	3.13		
15	2.36	.	1.09		
16	7.11	.	3.50		
17	2.23	.	1.65		
18	7.39	.	4.68		
19	10.14	.	3.15		
20	3.82	.	4.53		
21	7.98	.	1.85		
22	3.32	.	4.27		
23	1.81	.	4.77		
24	1.83	.	2.51		
25	9.23	.	4.73		
26	7.04	.	3.66		
27	6.65	.	2.59		
28	10.05	.	5.08		
29	8.99	.	3.10		
30	4.29	.	2.54		
31	3.17	.	1.32		
TT Monthly Totals	175.57	.	92.04		
 Daily Means	5.66	.	2.97		
SS Monthly Totals					
 Daily Means					
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	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: AUGUST Year: 2024 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	27°21' S	33°27' S
Longitude	70°19'W	68°54' W	70°21' W	70°42' W
Elevation	58 m	2270 m	362 m	520 m
Station	ARICA	CALAMA	COPIAPO	QUINTA NORMAL
Date				
1	13.56	.	7.78	2.06
2	14.03	.	8.85	2.70
3	16.96	.	18.19	13.81
4	16.33	.	18.57	8.50
5	13.47	.	17.98	1.24
6	14.23	.	19.10	14.30
7	6.93	.	17.42	7.03
8	9.60	.	19.63	14.19
9	16.64	.	17.51	14.74
10	17.48	.	16.86	13.63
11	16.49	.	18.97	14.31
12	15.71	.	16.23	14.63
13	15.38	.	14.52	14.08
14	15.85	.	15.20	6.68
15	11.91	.	13.06	7.51
16	15.46	.	17.45	5.53
17	14.01	.	15.50	10.19
18	19.60	.	10.26	4.97
19	12.71	.	10.29	5.91
20	15.13	.	9.84	6.72
21	9.41	.	17.63	12.01
22	10.11	.	21.71	12.50
23	10.91	.	22.12	13.02
24	14.53	.	22.49	16.95
25	23.67	.	16.09	16.85
26	22.72	.	17.72	17.07
27	16.78	.	17.37	16.13
28	17.03	.	17.26	16.39
29	10.37	.	9.77	2.17
30	16.73	.	22.93	13.73
31	16.54	.	22.79	16.93
TT Monthly Totals	460.25	.	511.12	336.53
 Daily Means	14.85	.	16.49	10.86
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: 2024 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	1.30	.	1.60	
2	4.01	.	0.90	
3	2.99	.	1.52	
4	3.59	.	4.15	
5	1.92	.	8.09	
6	7.98	.	3.44	
7	11.24	.	6.98	
8	7.33	.	2.48	
9	1.01	.	1.94	
10	0.00	.	5.24	
11	0.00	.	3.63	
12	7.45	.	2.65	
13	1.74	.	3.75	
14	9.97	.	5.75	
15	12.87	.	5.90	
16	9.31	.	4.89	
17	9.39	.	5.22	
18	9.14	.	6.07	
19	13.95	.	9.31	
20	9.94	.	9.42	
21	8.36	.	9.27	
22	10.86	.	5.30	
23	7.95	.	7.27	
24	9.49	.	7.02	
25	2.97	.	2.16	
26	7.14	.	7.69	
27	13.38	.	3.99	
28	14.33	.	9.76	
29	15.43	.	3.12	
30	13.65	.	7.54	
31	10.57	.	1.94	
TT Monthly Totals	239.26	.	157.99	
 Daily Means	7.72	.	5.10	
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: SEPTEMBER Year: 2024 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	1.40	.	4.19	
2	9.40	.	4.44	
3	9.70	.	12.08	
4	11.74	.	12.48	
5	2.59	.	9.32	
6	8.45	.	10.88	
7	0.00	.	9.31	
8	0.00	.	7.81	
9	3.39	.	6.36	
10	9.27	.	4.20	
11	10.06	.	9.12	
12	6.25	.	13.70	
13	6.16	.	11.89	
14	12.10	.	3.65	
15	15.55	.	11.50	
16	17.08	.	8.20	
17	10.97	.	15.49	
18	11.78	.	12.13	
19	7.80	.	11.60	
20	4.34	.	16.07	
21	12.24	.	5.84	
22	4.84	.	15.72	
23	17.76	.	15.68	
24	6.99	.	16.54	
25	12.74	.	12.32	
26	19.93	.	12.39	
27	6.14	.	12.87	
28	6.64	.	18.27	
29	2.63	.	19.11	
30	15.19	.	11.11	
31				
TT Monthly Totals	263.14	.	334.28	
 Daily Means	8.77	.	11.14	
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: OCTOBER Year: 2024 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	27°21' S	33°27' S
Longitude	70°19'W	68°54' W	70°21' W	70°42' W
Elevation	58 m	2270 m	362 m	520 m
Station	ARICA	CALAMA	COPIAPO	QUINTA NORMAL
Date				
1	21.08	.	21.98	13.34
2	17.54	.	24.04	19.88
3	20.12	.	25.42	24.00
4	27.90	.	22.10	24.21
5	19.84	.	17.52	24.51
6	26.10	.	9.99	10.48
7	24.03	.	26.84	21.74
8	19.40	.	27.18	3.03
9	16.73	.	27.72	16.25
10	16.82	.	26.82	24.46
11	26.94	.	29.01	10.07
12	27.80	.	16.93	10.53
13	28.65	.	20.20	23.08
14	27.44	.	28.49	15.17
15	27.10	.	23.65	21.15
16	26.50	.	17.04	22.57
17	24.25	.	22.21	23.22
18	20.75	.	19.56	26.80
19	26.97	.	9.77	25.65
20	20.49	.	21.95	21.32
21	27.27	.	25.82	27.35
22	26.53	.	22.90	22.38
23	8.90	.	31.14	17.54
24	4.12	.	30.85	27.99
25	18.69	.	27.99	26.56
26	14.43	.	20.27	28.61
27	19.46	.	24.18	28.43
28	21.87	.	23.74	28.67
29	29.56	.	23.88	28.19
30	27.24	.	26.19	26.68
31	21.44	.	17.39	24.67
TT Monthly Totals	685.94	.	712.77	668.55
Daily Means	22.13	.	22.99	21.57
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: OCTOBER Year: 2024 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	12.26	.	15.44	
2	8.91	.	5.78	
3	17.86	.	18.40	
4	11.31	.	16.27	
5	22.35	.	14.88	
6	23.15	.	12.13	
7	20.68	.	13.58	
8	23.70	.	10.12	
9	25.09	.	7.39	
10	3.00	.	19.79	
11	18.01	.	11.93	
12	9.57	.	7.41	
13	14.05	.	16.03	
14	14.22	.	8.72	
15	20.33	.	21.40	
16	13.96	.	15.55	
17	7.25	.	16.89	
18	13.43	.	17.88	
19	19.51	.	13.31	
20	9.39	.	14.43	
21	13.06	.	18.75	
22	22.08	.	21.60	
23	19.11	.	19.96	
24	11.43	.	16.48	
25	14.94	.	14.88	
26	28.21	.	18.81	
27	23.38	.	22.71	
28	28.41	.	21.57	
29	23.13	.	13.02	
30	25.10	.	12.29	
31	25.76	.	22.89	
TT Monthly Totals	542.63	.	480.30	
 Daily Means	17.50	.	15.49	
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: 2024		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	16.81	.	9.11		
2	19.35	.	24.80		
3	4.55	.	16.59		
4	11.92	.	18.97		
5	5.52	.	14.24		
6	20.29	.	24.11		
7	16.84	.	9.16		
8	7.46	.	12.25		
9	19.97	.	12.57		
10	8.17	.	29.82		
11	12.77	.	9.19		
12	13.80	.	11.08		
13	12.34	.	28.04		
14	10.57	.	22.25		
15	23.64	.	21.72		
16	18.48	.	24.99		
17	28.98	.	24.59		
18	30.19	.	27.97		
19	23.15	.	19.63		
20	15.23	.	23.46		
21	32.53	.	16.26		
22	17.96	.	14.86		
23	17.06	.	32.85		
24	23.89	.	28.82		
25	11.34	.	31.73		
26	13.69	.	28.22		
27	18.09	.	27.55		
28	16.22	.	31.94		
29	30.62	.	20.08		
30	17.04	.	22.60		
31					
TT Monthly Totals	518.49	.	639.44		
 Daily Means	17.28	.	21.31		
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: 2024		Country: CHILE	
Daily Totals					
Latitude	18°21' S	22°29' S	27°21' S	33°27' S	
Longitude	70°19'W	68°54' W	70°21' W	70°42' W	
Elevation	58 m	2270 m	362 m	520 m	
Station	ARICA	CALAMA	COPIAPO	QUINTA NORMAL	
Date					
1	29.82	.	32.49	28.08	
2	25.68	.	28.57	31.36	
3	20.32	.	31.22	30.22	
4	28.34	.	31.98	23.97	
5	29.19	.	30.97	23.99	
6	25.47	.	34.85	27.34	
7	22.67	.	28.66	28.12	
8	28.19	.	31.71	32.31	
9	26.55	.	29.13	31.92	
10	27.51	.	26.97	31.15	
11	28.58	.	20.98	31.47	
12	26.22	.	23.65	32.08	
13	29.00	.	21.32	31.41	
14	30.98	.	30.91	31.46	
15	30.79	.	28.97	29.37	
16	19.69	.	27.87	31.35	
17	30.81	.	20.94	26.64	
18	26.33	.	28.55	31.37	
19	25.77	.	27.29	31.18	
20	26.88	.	28.12	26.36	
21	29.90	.	28.62	30.67	
22	27.01	.	22.56	30.58	
23	28.00	.	30.33	30.86	
24	31.01	.	27.26	31.41	
25	23.75	.	24.80	30.77	
26	27.58	.	28.65	29.92	
27	21.10	.	29.08	29.57	
28	31.21	.	29.22	30.31	
29	30.51	.	21.02	29.59	
30	25.24	.	9.31	30.31	
31	25.70	.	14.15	29.68	
TT Monthly Totals	839.81	.	830.18	924.81	
 Daily Means	27.09	.	26.78	29.83	
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: DECEMBER Year: 2024 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	14.82	.	24.92	
2	25.69	.	24.39	
3	28.50	.	23.92	
4	8.28	.	20.16	
5	13.23	.	19.11	
6	23.71	.	25.91	
7	33.80	.	26.72	
8	12.21	.	18.40	
9	29.57	.	11.79	
10	18.60	.	33.48	
11	23.75	.	14.51	
12	16.31	.	26.97	
13	28.94	.	13.05	
14	32.22	.	15.42	
15	26.28	.	32.63	
16	32.55	.	18.76	
17	11.69	.	22.58	
18	18.21	.	22.33	
19	5.59	.	29.53	
20	23.70	.	24.77	
21	33.23	.	14.36	
22	17.40	.	10.67	
23	18.17	.	24.69	
24	33.86	.	14.38	
25	33.91	.	10.45	
26	33.84	.	31.08	
27	27.67	.	21.14	
28	30.87	.	32.21	
29	32.62	.	31.73	
30	8.70	.	13.59	
31	16.79	.	17.83	
TT Monthly Totals	714.74	.	671.50	
 Daily Means	23.06	.	21.66	
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: 2024		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	.	7.6	.	7.5	
2	.	9.8	.	7.6	
3	.	0.9	.	7.5	
4	.	4.0	.	6.4	
5	.	7.2	.	8.0	
6	.	7.2	.	7.8	
7	.	8.8	.	5.4	
8	.	6.5	.	3.3	
9	.	5.0	.	9.2	
10	.	0.1	.	0.4	
11	.	10.0	.	9.3	
12	.	7.6	.	9.1	
13	.	10.0	.	9.3	
14	.	10.0	.	7.4	
15	.	7.8	.	6.4	
16	.	6.0	.	6.3	
17	.	0.0	.	0.0	
18	.	8.4	.	7.0	
19	.	7.4	.	5.6	
20	.	0.0	.	5.5	
21	.	8.6	.	8.2	
22	.	6.8	.	5.6	
23	.	8.7	.	9.5	
24	.	10.1	.	9.8	
25	.	6.6	.	5.7	
26	.	10.0	.	7.5	
27	.	1.7	.	6.9	
28	.	2.4	.	6.7	
29	.	6.0	.	8.1	
30	.	3.2	.	4.5	
31	.	6.1	.	7.1	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	194.5	.	208.6	
 Daily Means	.	6.3	.	6.7	
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: JULY Year: 2024 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	9.8	.	9.8	9.2
2	6.9	.	8.8	9.1
3	4.8	.	9.6	7.1
4	7.0	.	3.0	8.1
5	1.2	.	0.0	9.2
6	4.8	.	0.0	9.2
7	6.3	.	.	9.0
8	1.0	.	6.2	8.2
9	5.9	.	0.0	8.2
10	5.3	.	9.5	4.5
11	10.2	.	9.9	8.3
12	6.7	.	9.2	9.3
13	.	.	9.5	9.3
14	6.8	.	7.8	9.0
15	7.2	.	2.3	7.5
16	7.0	.	7.7	8.0
17	0.0	.	1.2	6.8
18	4.2	.	4.0	0.5
19	2.3	.	.	7.8
20	4.1	.	0.4	8.3
21	6.0	.	5.7	6.6
22	7.9	.	9.9	9.5
23	9.4	.	.	0.2
24	10.4	.	10.2	9.0
25	7.9	.	10.1	6.2
26	.	.	8.0	5.8
27	6.1	.	9.2	9.4
28	5.8	.	4.7	9.6
29	6.1	.	2.0	9.6
30	0.0	.	0.6	0.0
31	2.9	.	0.2	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	.	222.5
 Daily Means	5.7	.	5.7	7.2
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JULY		Year: 2024		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	7.5	.	6.4	.	
2	7.2	.	6.0	.	
3	5.2	.	5.9	.	
4	5.1	.	6.2	.	
5	7.3	.	6.8	.	
6	7.2	.	6.1	.	
7	6.8	.	6.1	.	
8	7.0	.	6.7	.	
9	7.3	.	5.3	.	
10	4.2	.	6.7	.	
11	7.0	.	5.9	.	
12	7.2	.	6.0	.	
13	7.2	.	3.3	.	
14	7.2	.	4.2	.	
15	5.1	.	2.6	.	
16	6.9	.	6.3	.	
17	6.0	.	6.0	.	
18	0.2	.	0.0	.	
19	5.5	.	6.2	.	
20	6.7	.	0.3	.	
21	5.3	.	7.2	.	
22	7.4	.	6.8	.	
23	0.0	.	3.4	.	
24	7.2	.	7.0	.	
25	5.0	.	5.4	.	
26	2.1	.	3.9	.	
27	7.4	.	6.5	.	
28	7.8	.	7.6	.	
29	6.9	.	6.2	.	
30	0.0	.	0.0	.	
31	0.0	.	0.0	.	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	172.9	.	157.0	.	
 Daily Means	5.6	.	5.1	.	
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: 2024		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	
2	.	.	5.9	6.0	
3	.	.	2.8	2.5	
4	.	.	4.1	0.8	
5	.	.	5.0	3.5	
6	.	.	6.9	1.7	
7	.	.	3.6	2.0	
8	.	.	7.7	2.4	
9	.	.	7.9	8.0	
10	.	.	0.2	1.8	
11	.	.	6.8	7.8	
12	.	.	7.8	4.8	
13	.	.	7.1	1.7	
14	.	.	0.0	0.0	
15	.	.	0.0	0.0	
16	.	.	0.0	.	
17	.	.	0.0	0.0	
18	.	.	5.3	6.7	
19	.	.	8.2	8.3	
20	.	.	8.3	7.0	
21	.	.	7.6	7.5	
22	.	.	6.6	.	
23	.	.	0.7	0.0	
24	.	.	0.6	0.0	
25	.	.	2.0	4.2	
26	.	.	4.6	3.0	
27	.	.	3.5	8.3	
28	.	.	7.9	7.9	
29	.	.	4.3	0.1	
30	.	.	0.0	0.4	
31	.	.	0.0	0.0	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	.	125.4	.	
 Daily Means	.	.	4.0	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: JULY Year: 2024 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	.	4.6	
2	4.6	.	2.1	
3	2.4	.	1.2	
4	5.2	.	0.0	
5	3.9	.	7.2	
6	3.3	.	2.5	
7	5.0	.	0.1	
8	0.8	.	7.7	
9	8.7	.	0.8	
10	0.3	.	7.2	
11	8.7	.	6.4	
12	6.1	.	2.2	
13	6.0	.	0.5	
14	0.3	.	4.5	
15	0.0	.	1.0	
16	4.4	.	3.2	
17	0.3	.	0.1	
18	5.6	.	7.5	
19	9.0	.	2.3	
20	0.2	.	6.4	
21	7.4	.	1.6	
22	0.0	.	6.6	
23	0.0	.	6.5	
24	0.0	.	1.1	
25	4.5	.	5.9	
26	3.8	.	4.7	
27	6.3	.	2.5	
28	7.0	.	7.0	
29	7.0	.	1.9	
30	1.1	.	0.0	
31	0.6	.	0.0	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	112.5	.	105.3	
 Daily Means	3.6	.	3.4	
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: 2024		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					
Date	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
1	.	8.0	.	7.8	
2	.	8.3	.	8.8	
3	.	4.5	.	7.2	
4	.	8.8	.	2.3	
5	.	3.3	.	3.6	
6	.	0.0	.	7.6	
7	.	10.5	.	9.3	
8	.	7.3	.	9.5	
9	.	7.5	.	8.7	
10	.	4.0	.	8.0	
11	.	8.6	.	8.3	
12	.	7.6	.	8.4	
13	.	8.6	.	9.5	
14	.	7.9	.	7.8	
15	.	8.8	.	6.7	
16	.	9.2	.	6.5	
17	.	5.8	.	6.1	
18	.	8.2	.	8.0	
19	.	8.2	.	1.4	
20	.	0.0	.	0.0	
21	.	0.0	.	1.3	
22	.	2.6	.	10.1	
23	.	10.2	.	10.1	
24	.	4.2	.	10.2	
25	.	6.0	.	9.6	
26	.	8.7	.	4.7	
27	.	8.3	.	7.5	
28	.	2.1	.	5.7	
29	.	0.0	.	1.8	
30	.	9.9	.	11.6	
31	.	9.3	.	9.7	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	196.4	.	217.8	
 Daily Means	.	6.3	.	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: AUGUST Year: 2024 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	1.5	.	0.3	0.0
2	1.9	.	0.0	0.5
3	8.9	.	5.7	9.5
4	10.5	.	6.7	4.9
5	8.7	.	9.5	0.0
6	9.5	.	7.5	8.8
7	8.6	.	.	6.8
8	10.7	.	10.5	9.9
9	7.8	.	10.5	9.4
10	6.8	.	10.4	10.0
11	9.0	.	9.4	10.7
12	6.1	.	0.0	10.1
13	5.3	.	0.0	9.9
14	6.2	.	0.0	0.3
15	5.3	.	.	4.2
16	8.4	.	4.7	0.1
17	5.2	.	0.0	6.6
18	3.9	.	1.9	0.2
19	4.3	.	.	2.2
20	3.1	.	3.2	3.2
21	6.5	.	10.9	6.7
22	11.1	.	10.9	7.1
23	11.1	.	.	7.6
24	11.1	.	11.0	10.5
25	6.1	.	5.4	10.3
26	7.2	.	9.8	10.5
27	6.3	.	.	8.4
28	5.1	.	0.0	9.3
29	1.3	.	1.5	0.0
30	10.3	.	10.9	10.8
31	11.1	.	11.0	10.6
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	218.9	.	.	199.1
 Daily Means	7.1	.	5.8	6.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: AUGUST Year: 2024 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	0.0	.	0.0	.
2	0.8	.	2.0	.
3	7.6	.	.	.
4	2.7	.	.	.
5	0.0	.	0.0	.
6	6.1	.	8.6	.
7	1.9	.	8.3	.
8	7.5	.	8.2	.
9	7.3	.	7.1	.
10	8.0	.	8.1	.
11	11.1	.	8.4	.
12	8.1	.	8.5	.
13	7.9	.	0.0	.
14	0.1	.	0.0	.
15	2.0	.	5.9	.
16	0.0	.	0.0	.
17	4.2	.	5.0	.
18	0.0	.	0.0	.
19	0.0	.	7.7	.
20	0.9	.	8.0	.
21	4.2	.	3.9	.
22	3.5	.	8.0	.
23	6.1	.	8.0	.
24	8.4	.	9.7	.
25	8.3	.	9.5	.
26	8.4	.	9.8	.
27	6.8	.	7.3	.
28	8.2	.	0.0	.
29	0.0	.	0.0	.
30	6.1	.	4.3	.
31	8.2	.	9.9	.
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	144.4	.	.	.
 Daily Means	4.7	.	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: AUGUST Year: 2024 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
2	.	.	2.6	2.9
3	.	.	0.0	0.0
4	.	.	0.0	0.7
5	.	.	2.8	2.2
6	.	.	4.2	7.8
7	.	.	.	0.0
8
9	.	.	.	1.4
10	.	.	.	1.1
11	.	.	6.5	4.3
12	.	.	.	4.7
13
14	.	.	.	7.9
15	.	.	5.9	4.3
16	.	.	4.4	3.8
17	.	.	7.2	5.5
18	.	.	8.4	8.3
19	.	.	4.5	5.5
20	.	.	9.1	8.2
21	.	.	0.0	.
22	.	.	1.2	0.0
23	.	.	5.7	3.2
24	.	.	6.3	3.5
25	.	.	1.9	1.6
26	.	.	2.9	3.8
27	.	.	6.7	.
28	.	.	9.3	9.2
29	.	.	9.9	10.1
30	.	.	4.4	6.5
31	.	.	4.2	2.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals
 Daily Means	.	.	.	4.0
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: AUGUST Year: 2024 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	
2	1.2	.	0.0	
3	1.2	.	0.0	
4	0.0	.	2.3	
5	0.0	.	8.2	
6	7.7	.	1.5	
7	9.5	.	5.9	
8	5.4	.	.	
9	0.0	.	0.0	
10	1.2	.	4.3	
11	6.8	.	1.4	
12	3.6	.	0.5	
13	0.0	.	1.0	
14	5.8	.	4.1	
15	7.1	.	6.4	
16	7.2	.	4.6	
17	6.7	.	6.5	
18	4.1	.	5.7	
19	9.3	.	9.7	
20	6.9	.	9.8	
21	5.7	.	9.8	
22	6.4	.	2.1	
23	3.2	.	6.7	
24	6.9	.	6.0	
25	0.2	.	0.0	
26	4.5	.	6.7	
27	8.4	.	1.9	
28	8.7	.	7.9	
29	9.1	.	2.0	
30	9.3	.	4.8	
31	3.4	.	0.0	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	149.5	.	.	
 Daily Means	4.8	.	4.0	
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: SEPTEMBER		Year: 2024		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	.	5.9	.	8.1	
2	.	1.7	.	4.6	
3	.	7.1	.	8.8	
4	.	9.3	.	2.8	
5	.	4.6	.	7.2	
6	.	0.1	.	5.3	
7	.	6.1	.	8.3	
8	.	8.1	.	8.8	
9	.	7.7	.	7.9	
10	.	2.0	.	6.5	
11	.	5.4	.	8.3	
12	.	4.7	.	0.8	
13	.	6.4	.	3.5	
14	.	5.9	.	5.0	
15	.	11.3	.	10.6	
16	.	0.0	.	0.0	
17	.	11.2	.	10.1	
18	.	7.3	.	7.7	
19	.	9.2	.	6.1	
20	.	5.2	.	8.8	
21	.	0.0	.	0.8	
22	.	.	.	10.1	
23	.	.	.	7.8	
24	.	8.0	.	4.9	
25	.	6.4	.	2.1	
26	.	6.8	.	10.5	
27	.	0.0	.	8.4	
28	.	.	.	8.0	
29	.	9.8	.	10.6	
30	.	9.4	.	4.9	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	.	.	197.3	
 Daily Means	.	5.9	.	6.6	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: SEPTEMBER Year: 2024 Country: CHILE

Daily Totals				
Latitude	27°15'S	27°10' S	29°57' S	33°23' S
Longitude	70°46'W	109°26' W	71°22' W	70°47' W
Elevation	204 m	47 m	25 m	474 m
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL
Date				
1	7.9	.	5.0	10.6
2	2.2	.	6.7	10.0
3	.	.	7.8	5.9
4	6.9	.	11.0	10.9
5	3.1	.	7.7	10.8
6	5.9	.	7.4	9.0
7	4.9	.	7.6	7.6
8	6.0	.	6.6	8.7
9	8.2	.	11.1	10.6
10	8.2	.	8.4	8.6
11	4.5	.	8.6	11.2
12	0.0	.	0.0	9.2
13	5.6	.	11.4	9.2
14	7.4	.	4.9	11.2
15	10.5	.	7.1	11.3
16	3.8	.	6.1	6.0
17	9.0	.	8.9	10.0
18	0.6	.	1.8	1.1
19	11.6	.	11.1	11.1
20	11.7	.	11.4	0.0
21	2.6	.	6.0	6.0
22	8.7	.	11.0	6.0
23	9.3	.	9.6	3.8
24	7.7	.	11.5	10.4
25	7.0	.	10.1	11.5
26	11.1	.	9.7	10.0
27	6.2	.	2.7	10.9
28	0.0	.	0.7	9.5
29	10.0	.	3.4	8.7
30	9.5	.	2.4	4.4
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	217.7	254.2
 Daily Means	6.6	.	7.3	8.5
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: SEPTEMBER		Year: 2024		Country: CHILE	
Daily Totals					
Latitude	33°27' S	33°37' S	33°39' S	34°58' S	
Longitude	70°42' W	78°50' W	71°36' W	71°12' W	
Elevation	520 m	30 m	74 m	225 m	
Station					
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	
1	8.0	.	7.0	.	
2	7.8	.	0.0	.	
3	2.6	.	7.7	.	
4	8.5	.	10.5	.	
5	8.3	.	9.7	.	
6	6.2	.	9.1	.	
7	6.6	.	6.6	.	
8	6.4	3.5	8.4	.	
9	8.6	1.5	9.7	.	
10	6.7	2.7	6.9	.	
11	8.5	1.7	11.1	.	
12	8.0	3.4	7.2	.	
13	8.5	.	10.0	.	
14	15.8	.	13.1	.	
15	8.7	6.8	10.5	.	
16	4.6	8.4	2.4	.	
17	8.1	0.2	7.7	.	
18	0.4	2.1	0.0	.	
19	7.6	3.0	4.2	.	
20	0.0	.	3.8	.	
21	6.2	.	8.6	.	
22	0.0	5.7	0.0	.	
23	1.7	5.4	6.1	.	
24	7.9	4.4	10.7	.	
25	7.5	7.8	10.5	.	
26	6.4	8.6	10.6	.	
27	6.8	.	5.2	.	
28	6.6	.	7.5	.	
29	5.5	0.0	0.0	.	
30	3.1	6.1	2.2	.	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	191.6	.	207.0	.	
 Daily Means	6.4	.	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: SEPTEMBER Year: 2024 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
2	.	.	2.9	4.0
3	.	.	2.3	1.1
4	.	.	8.1	5.2
5	.	.	0.0	0.0
6	.	.	0.7	2.2
7	.	.	3.5	4.1
8	.	.	5.7	2.9
9	.	.	1.1	1.4
10	.	.	3.4	2.9
11	.	.	10.2	3.3
12	.	.	8.9	3.1
13	.	.	4.9	6.9
14	.	.	6.9	3.2
15	.	.	9.1	9.4
16	.	.	5.5	7.4
17	.	.	7.4	4.5
18	.	.	2.0	3.7
19	.	.	1.2	4.3
20	.	.	0.0	0.0
21	.	.	0.0	4.3
22	.	.	3.6	1.1
23	.	.	3.4	6.6
24	.	.	3.8	0.6
25	.	.	10.6	10.2
26	.	.	5.3	6.0
27	.	.	1.3	.
28	.	.	0.0	0.0
29	.	.	0.0	0.0
30	.	.	2.3	7.6
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	114.1	.
 Daily Means	.	.	3.8	3.7
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: SEPTEMBER

Year: 2024

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	.	4.2	
2	3.4	.	2.4	
3	2.0	.	7.8	
4	6.6	.	10.3	
5	0.0	.	5.9	
6	2.7	.	6.1	
7	4.8	.	6.5	
8	1.1	.	7.3	
9	1.5	.	2.7	
10	2.0	.	1.8	
11	3.5	.	6.3	
12	1.7	.	8.6	
13	3.4	.	7.8	
14	5.3	.	0.7	
15	8.7	.	8.9	
16	11.3	.	6.2	
17	4.9	.	9.4	
18	3.3	.	7.6	
19	1.1	.	7.2	
20	0.1	.	10.0	
21	7.3	.	1.1	
22	1.0	.	8.7	
23	7.5	.	7.3	
24	0.8	.	7.2	
25	8.0	.	6.4	
26	9.2	.	6.4	
27	0.8	.	7.4	
28	1.3	.	11.9	
29	9.1	.	8.7	
30	4.0	.	5.0	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	116.4	.	197.8	
 Daily Means	3.9	.	6.6	
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: OCTOBER		Year: 2024		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					
Date	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
1	.	10.0	.	4.6	
2	.	7.6	.	7.9	
3	.	7.4	.	9.6	
4	.	11.6	.	9.0	
5	.	9.2	.	9.3	
6	.	9.2	.	8.1	
7	.	8.1	.	4.3	
8	.	0.0	.	2.7	
9	.	7.2	.	5.5	
10	.	11.2	.	11.4	
11	.	11.8	.	9.5	
12	.	11.8	.	9.3	
13	.	11.8	.	9.4	
14	.	11.1	.	6.2	
15	.	8.1	.	8.4	
16	.	10.3	.	8.7	
17	.	11.7	.	5.4	
18	.	6.4	.	6.1	
19	.	7.8	.	6.8	
20	.	6.6	.	8.8	
21	.	11.5	.	8.6	
22	.	11.6	.	10.2	
23	.	9.3	.	10.9	
24	.	10.9	.	7.7	
25	.	9.6	.	9.2	
26	.	8.5	.	9.1	
27	.	10.6	.	9.3	
28	.	10.7	.	8.3	
29	.	11.3	.	9.2	
30	.	10.0	.	6.6	
31	.	2.9	.	6.1	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	285.8	.	246.2	
 Daily Means	.	9.2	.	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: OCTOBER		Year: 2024		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	10.9	.	11.9	10.2	
2	8.5	.	11.9	10.1	
3	8.9	.	11.8	11.6	
4	7.6	.	4.3	11.6	
5	4.8	.	1.0	11.5	
6	0.2	.	0.1	2.3	
7	8.9	.	0.4	7.8	
8	10.8	.	4.8	0.0	
9	10.9	.	9.9	6.6	
10	11.1	.	2.2	11.7	
11	11.7	.	12.1	0.1	
12	4.7	.	1.3	1.0	
13	6.6	.	2.2	11.3	
14	10.3	.	9.4	7.6	
15	6.7	.	0.2	9.6	
16	4.3	.	5.1	12.0	
17	7.0	.	11.1	12.2	
18	4.9	.	4.1	12.3	
19	0.0	.	0.0	11.5	
20	6.7	.	6.0	10.1	
21	7.1	.	10.2	12.3	
22	7.6	.	0.0	7.9	
23	12.6	.	12.3	7.1	
24	12.0	.	10.0	12.4	
25	8.5	.	10.1	9.9	
26	5.5	.	5.2	12.5	
27	6.9	.	3.2	12.5	
28	5.7	.	5.3	12.5	
29	6.8	.	3.6	12.5	
30	8.1	.	0.8	9.5	
31	2.1	.	2.9	11.3	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	228.4	.	173.4	291.5	
 Daily Means	7.4	.	5.6	9.4	
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: 2024 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	5.7	9.6	.
2	7.9	3.6	10.1	.
3	10.9	0.8	11.3	.
4	10.4	.	14.5	.
5	10.4	.	7.4	.
6	0.8	8.0	0.0	.
7	7.4	8.1	7.5	.
8	0.0	7.1	3.2	.
9	4.5	8.2	5.0	.
10	9.5	5.6	0.0	.
11	0.3	.	4.8	.
12	0.0	.	0.4	.
13	7.0	3.3	9.5	.
14	5.0	8.0	7.0	.
15	5.7	0.8	11.3	.
16	10.4	4.8	5.1	.
17	10.4	0.0	11.2	.
18	10.6	.	0.4	.
19	9.6	.	0.0	.
20	9.3	3.1	7.1	.
21	11.1	6.7	11.7	.
22	7.1	0.0	0.8	.
23	7.1	1.8	8.1	.
24	10.7	6.1	11.7	.
25	10.1	.	11.9	.
26	11.0	.	12.7	.
27	10.9	9.7	9.3	.
28	11.0	10.9	1.7	.
29	11.1	11.0	2.9	.
30	10.6	5.2	1.3	.
31	10.1	1.9	0.0	.
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	243.9	.	197.5	.
 Daily Means	7.9	.	6.4	.
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: OCTOBER Year: 2024 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	.	.	6.4	4.5
2	.	.	11.2	9.4
3	.	.	9.9	6.1
4	.	.	4.6	0.9
5	.	.	9.4	8.7
6	.	.	7.4	11.1
7	.	.	10.1	11.1
8	.	.	9.7	10.6
9	.	.	10.7	9.7
10	.	.	0.0	0.0
11	.	.	6.7	8.9
12	.	.	6.8	4.8
13	.	.	8.8	9.6
14	.	.	6.8	10.3
15	.	.	5.9	3.0
16	.	.	3.6	2.5
17	.	.	6.5	2.9
18	.	.	7.6	6.1
19	.	.	2.3	1.0
20	.	.	1.6	3.8
21	.	.	10.2	6.4
22	.	.	8.4	10.0
23	.	.	3.2	1.7
24	.	.	0.0	0.7
25	.	.	12.4	11.0
26	.	.	13.6	11.5
27	.	.	11.3	12.0
28	.	.	12.3	11.9
29	.	.	10.5	11.5
30	.	.	4.7	11.4
31	.	.	6.5	8.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	229.1	221.2
 Daily Means	.	.	7.4	7.1
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: OCTOBER Year: 2024 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	.	8.7	
2	0.6	.	1.5	
3	5.9	.	10.3	
4	3.7	.	10.9	
5	9.3	.	8.1	
6	10.4	.	5.1	
7	7.8	.	6.9	
8	10.2	.	3.3	
9	11.9	.	4.4	
10	0.0	.	9.7	
11	7.6	.	5.6	
12	2.1	.	0.7	
13	4.5	.	6.8	
14	4.1	.	1.9	
15	6.7	.	10.4	
16	4.6	.	6.0	
17	0.7	.	8.3	
18	3.1	.	9.8	
19	5.8	.	3.6	
20	1.9	.	7.2	
21	1.9	.	9.9	
22	7.9	.	7.8	
23	6.0	.	9.0	
24	2.2	.	9.2	
25	6.8	.	6.0	
26	12.7	.	7.2	
27	9.9	.	10.0	
28	12.0	.	10.1	
29	9.3	.	5.2	
30	8.4	.	6.2	
31	8.4	.	9.1	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	191.3	.	218.9	
 Daily Means	6.2	.	7.1	
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: NOVEMBER		Year: 2024		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	.	8.5	.	0.5	
2	.	10.5	.	4.9	
3	.	11.3	.	6.9	
4	.	11.7	.	7.6	
5	.	6.8	.	10.0	
6	.	8.5	.	5.7	
7	.	8.1	.	10.0	
8	.	4.8	.	8.4	
9	.	8.6	.	9.1	
10	.	12.2	.	10.6	
11	.	12.2	.	10.6	
12	.	9.0	.	7.0	
13	.	7.8	.	11.3	
14	.	11.9	.	9.8	
15	.	10.1	.	10.4	
16	.	12.3	.	11.1	
17	.	9.5	.	8.8	
18	.	10.4	.	7.2	
19	.	12.0	.	9.2	
20	.	10.7	.	8.6	
21	.	9.9	.	11.7	
22	.	11.9	.	10.8	
23	.	11.5	.	10.8	
24	.	9.0	.	11.4	
25	.	9.7	.	8.2	
26	.	9.3	.	8.7	
27	.	5.8	.	8.5	
28	.	12.4	.	11.6	
29	.	12.4	.	9.5	
30	.	12.4	.	8.7	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	301.2	.	267.6	
 Daily Means	.	10.0	.	8.9	
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: NOVEMBER		Year: 2024		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	1.4	.	0.0	4.4	
2	4.6	.	12.8	12.7	
3	0.4	.	0.7	1.7	
4	11.4	.	12.9	12.7	
5	8.5	.	12.8	12.7	
6	6.4	.	12.5	12.4	
7	2.4	.	7.4	8.6	
8	1.6	.	4.6	12.3	
9	0.0	.	1.7	12.9	
10	4.6	.	7.9	12.7	
11	6.3	.	12.0	13.0	
12	3.7	.	7.9	13.0	
13	4.0	.	0.0	13.0	
14	9.4	.	9.7	12.4	
15	4.7	.	1.4	11.4	
16	7.9	.	5.3	2.2	
17	5.6	.	12.0	11.8	
18	7.0	.	2.2	11.2	
19	7.7	.	8.2	12.5	
20	6.8	.	5.8	7.7	
21	4.9	.	5.6	13.2	
22	7.2	.	10.0	13.3	
23	9.1	.	10.9	13.3	
24	8.6	.	10.9	13.4	
25	9.6	.	13.3	13.4	
26	8.7	.	13.3	13.3	
27	8.8	.	13.4	13.4	
28	9.2	.	13.3	13.4	
29	9.0	.	13.1	13.5	
30	5.3	.	9.6	13.5	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	184.8	.	251.2	345.0	
Daily Means	6.2	.	8.4	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: NOVEMBER Year: 2024 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	4.3	.	6.0	.
2	10.5	.	12.4	.
3	0.5	5.5	1.1	.
4	10.6	8.0	13.0	.
5	11.0	8.4	12.1	.
6	11.1	6.2	12.1	.
7	6.0	10.8	7.9	.
8	10.6	.	11.9	.
9	11.1	.	7.5	.
10	11.1	7.3	10.2	.
11	9.2	3.7	14.2	.
12	11.1	7.0	19.2	.
13	11.0	9.9	8.4	.
14	10.6	7.6	1.0	.
15	10.8	.	5.8	.
16	0.6	.	4.5	.
17	6.9	5.5	11.4	.
18	9.1	10.4	3.6	.
19	9.1	1.8	8.0	.
20	7.8	2.7	7.3	.
21	11.8	6.8	7.3	.
22	11.1	.	12.6	.
23	11.3	.	12.5	.
24	11.1	.	12.9	.
25	11.0	5.4	12.8	.
26	10.9	4.9	12.6	.
27	10.0	7.1	12.6	.
28	12.0	3.8	12.4	.
29	10.9	.	12.6	.
30	11.1	.	2.9	.
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	284.2	.	288.8	.
 Daily Means	9.5	.	9.6	.
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: NOVEMBER		Year: 2024		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	7.3	
2	.	.	11.6	12.5	
3	.	.	0.0	0.1	
4	.	.	5.8	0.9	
5	.	.	6.4	0.0	
6	.	.	9.3	10.4	
7	.	.	8.9	10.6	
8	.	.	8.9	1.9	
9	.	.	1.9	8.5	
10	.	.	5.6	3.4	
11	.	.	9.4	8.7	
12	.	.	9.0	6.6	
13	.	.	12.6	11.6	
14	.	.	0.4	3.8	
15	.	.	7.9	3.8	
16	.	.	12.6	7.8	
17	.	.	13.5	12.4	
18	.	.	13.3	11.5	
19	.	.	1.4	2.0	
20	.	.	13.8	12.0	
21	.	.	7.4	9.7	
22	.	.	3.9	0.6	
23	.	.	7.5	5.9	
24	.	.	6.8	11.3	
25	.	.	5.2	1.8	
26	.	.	7.5	10.5	
27	.	.	9.9	6.5	
28	.	.	12.5	10.2	
29	.	.	12.5	11.5	
30	.	.	11.7	12.1	
31					
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	.	241.9	215.9	
 Daily Means	.	.	8.1	7.2	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: NOVEMBER Year: 2024 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	5.4	.	0.6	
2	9.8	.	10.6	
3	0.6	.	6.6	
4	0.4	.	10.5	
5	0.1	.	5.1	
6	10.9	.	12.2	
7	4.4	.	0.2	
8	0.9	.	3.6	
9	6.6	.	4.3	
10	3.5	.	12.6	
11	2.2	.	1.6	
12	3.6	.	3.4	
13	3.5	.	11.1	
14	1.5	.	9.0	
15	7.6	.	9.4	
16	10.2	.	10.0	
17	11.6	.	9.9	
18	10.4	.	14.0	
19	7.1	.	8.2	
20	4.0	.	7.4	
21	12.4	.	6.1	
22	4.4	.	4.1	
23	5.2	.	13.1	
24	8.2	.	14.1	
25	2.8	.	11.0	
26	5.0	.	10.8	
27	3.5	.	10.8	
28	7.5	.	12.6	
29	13.5	.	7.4	
30	4.5	.	8.8	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	171.3	.	249.1	
 Daily Means	5.7	.	8.3	
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: 2024		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					
Date	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA	
1	.	12.0	.	6.9	
2	.	2.1	.	6.1	
3	.	5.4	.	11.5	
4	.	12.5	.	10.9	
5	.	12.0	.	9.2	
6	.	2.9	.	7.6	
7	.	1.8	.	7.8	
8	.	8.4	.	10.5	
9	.	10.2	.	7.5	
10	.	12.5	.	8.9	
11	.	11.4	.	9.4	
12	.	10.6	.	9.0	
13	.	12.1	.	9.5	
14	.	12.5	.	9.7	
15	.	12.4	.	11.9	
16	.	9.0	.	7.2	
17	.	12.3	.	9.7	
18	.	7.4	.	9.8	
19	.	7.5	.	10.3	
20	.	10.1	.	12.1	
21	.	12.5	.	9.8	
22	.	8.4	.	10.8	
23	.	12.4	.	10.1	
24	.	12.5	.	11.5	
25	.	9.9	.	9.1	
26	.	9.7	.	11.4	
27	.	8.0	.	3.3	
28	.	12.5	.	12.0	
29	.	12.6	.	11.6	
30	.	10.6	.	9.6	
31	.	12.0	.	9.4	
TT Monthly Totals					
 Daily Means					
SS Monthly Totals	.	306.2	.	294.1	
 Daily Means	.	9.9	.	9.5	
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: DECEMBER Year: 2024 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	10.5	.	11.3	10.2
2	8.6	.	13.4	13.5
3	10.3	.	9.1	13.4
4	10.0	.	13.4	13.4
5	12.5	.	12.4	8.5
6	13.3	.	12.4	13.1
7	8.3	.	8.8	11.9
8	9.8	.	11.8	13.5
9	8.3	.	11.7	13.5
10	7.1	.	2.6	13.5
11	4.9	.	6.8	13.4
12	5.5	.	6.5	13.5
13	4.8	.	9.3	13.5
14	9.2	.	4.2	13.5
15	9.1	.	3.3	13.5
16	6.7	.	5.8	13.5
17	4.5	.	5.6	11.8
18	8.2	.	6.4	13.4
19	7.1	.	6.4	13.4
20	7.5	.	.	13.4
21	9.0	.	.	13.4
22	6.2	.	.	13.5
23	6.4	.	.	13.5
24	8.8	.	.	13.5
25	6.9	.	5.0	13.5
26	9.6	.	5.1	12.4
27	9.8	.	10.7	13.2
28	9.6	.	13.3	13.4
29	5.8	.	13.3	13.5
30	0.0	.	0.0	13.5
31	1.0	.	4.5	13.5
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	239.3	.	.	404.3
 Daily Means	7.7	.	.	13.0
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: DECEMBER Year: 2024 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	5.7	11.5	.
2	17.3	4.5	12.6	.
3	10.4	0.1	8.6	.
4	11.1	1.1	7.5	.
5	7.6	7.7	10.5	.
6	7.3	.	12.0	.
7	9.0	.	11.7	.
8	11.3	0.6	12.0	.
9	11.2	1.1	12.7	.
10	11.2	6.2	12.4	.
11	11.2	1.3	11.5	.
12	11.5	7.4	9.0	.
13	11.4	.	18.6	.
14	11.1	.	8.7	.
15	11.1	3.9	4.6	.
16	11.5	1.9	8.5	.
17	10.2	7.1	12.2	.
18	11.5	4.8	10.5	.
19	11.5	11.4	12.6	.
20	11.1	.	12.8	.
21	11.4	.	13.3	.
22	11.6	11.7	11.4	.
23	11.4	3.8	7.2	.
24	11.6	9.6	8.4	.
25	10.0	7.5	0.0	.
26	10.9	7.1	0.0	.
27	11.1	.	7.9	.
28	11.5	.	18.6	.
29	11.4	11.6	2.6	.
30	10.2	9.1	7.1	.
31	16.5	8.9	11.0	.
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	345.4	.	308.0	.
 Daily Means	11.1	.	9.9	.
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: DECEMBER Year: 2024 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	.	.	1.5	8.9
2	.	.	12.6	13.9
3	.	.	12.6	13.0
4	.	.	0.1	1.3
5	.	.	2.3	4.7
6	.	.	7.3	9.6
7	.	.	12.9	13.1
8	.	.	10.3	6.9
9	.	.	10.1	12.4
10	.	.	7.6	8.4
11	.	.	12.5	11.0
12	.	.	10.6	10.2
13	.	.	11.7	11.0
14	.	.	12.9	12.8
15	.	.	12.3	7.8
16	.	.	6.7	12.1
17	.	.	0.5	0.2
18	.	.	5.3	7.7
19	.	.	3.9	1.0
20	.	.	6.9	4.2
21	.	.	12.1	12.3
22	.	.	13.1	12.5
23	.	.	12.0	11.3
24	.	.	12.9	13.2
25	.	.	12.8	13.5
26	.	.	8.3	12.5
27	.	.	8.3	7.1
28	.	.	9.1	13.2
29	.	.	11.2	13.0
30	.	.	6.8	4.0
31	.	.	12.6	7.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	.	.	279.8	289.8
 Daily Means	.	.	9.0	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: DECEMBER Year: 2024 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	.	9.0	
2	11.0	.	11.7	
3	11.9	.	9.5	
4	0.3	.	10.1	
5	4.1	.	6.4	
6	10.1	.	13.6	
7	13.2	.	13.0	
8	0.9	.	0.0	
9	11.8	.	4.0	
10	7.4	.	12.4	
11	9.0	.	2.5	
12	4.7	.	9.7	
13	11.0	.	0.9	
14	13.7	.	4.4	
15	9.5	.	10.6	
16	10.9	.	7.0	
17	2.4	.	8.2	
18	8.2	.	9.7	
19	0.9	.	11.6	
20	11.9	.	9.4	
21	14.4	.	2.8	
22	5.3	.	0.6	
23	7.0	.	9.2	
24	14.0	.	3.5	
25	14.1	.	0.2	
26	11.4	.	10.2	
27	8.0	.	10.1	
28	14.0	.	10.8	
29	11.8	.	13.2	
30	3.7	.	1.8	
31	5.1	.	4.8	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	266.2	.	230.9	
 Daily Means	8.6	.	7.4	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	