

Informe

Solarimétrico

I Semestre 2020

Oficina de Servicios Climatológicos

Dirección Meteorológica de Chile
Subdepartamento de Climatología y Meteorología Aplicada

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

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

Month: JANUARY

Year: 2020

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	20.64	.	.	.
2	24.26	.	.	.
3	27.40	.	.	.
4	27.50	.	.	.
5	27.89	.	.	.
6	27.50	.	.	.
7	27.46	.	.	.
8	27.75	.	.	.
9	29.26	.	.	.
10	23.65	.	.	.
11	27.87	.	.	.
12	22.07	.	.	.
13	19.75	.	.	.
14	24.33	.	.	.
15	21.16	.	.	.
16	26.34	.	.	.
17	27.26	.	.	.
18	24.63	.	.	.
19	23.95	.	.	.
20	18.32	.	.	.
21	22.25	.	.	.
22	11.28	.	.	.
23	27.06	.	.	.
24	16.49	.	.	.
25	19.29	.	.	.
26	27.32	.	.	.
27	26.01	.	.	.
28	22.19	.	.	.
29	20.70	.	.	.
30	25.10	.	.	.
31	24.28	.	.	.
TT Monthly Totals	740.95	.	.	.
 Daily Means	23.90	.	.	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: JANUARY

Year: 2020

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	30.66	28.14	31.09	29.27
2	30.89	32.96	27.51	17.29
3	30.46	27.49	22.75	24.88
4	30.52	25.14	28.64	20.61
5	21.39	16.85	18.12	15.60
6	26.80	7.51	14.79	10.13
7	30.22	10.32	11.32	18.47
8	21.77	17.55	10.93	14.19
9	30.76	5.84	23.41	13.17
10	30.67	18.07	12.21	5.95
11	30.44	29.85	26.33	16.36
12	30.09	24.73	29.09	18.45
13	30.74	16.66	28.69	11.31
14	30.67	23.32	.	13.70
15	30.09	20.54	.	29.10
16	27.22	29.87	.	18.92
17	27.71	30.48	.	28.31
18	28.10	22.18	.	23.59
19	23.08	25.39	.	30.43
20	28.29	31.40	.	14.40
21	28.96	31.48	.	22.19
22	29.11	31.04	.	15.54
23	28.18	17.81	.	26.24
24	25.65	24.41	.	8.91
25	28.52	9.90	.	27.89
26	28.92	26.75	.	22.78
27	28.41	22.53	.	14.47
28	25.87	14.06	.	27.50
29	26.86	29.37	.	11.92
30	28.34	16.76	.	26.96
31	28.40	18.63	.	11.32
TT Monthly Totals	877.79	687.03	.	589.83
 Daily Means	28.32	22.16	.	19.03
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: FEBRUARY

Year: 2020

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	27.67	.	.	.
2	21.59	.	.	.
3	25.89	.	.	.
4	23.63	.	.	.
5	25.47	.	.	.
6	26.23	.	.	.
7	25.65	.	.	.
8	25.08	.	.	.
9	25.09	.	.	.
10	25.91	.	.	.
11	25.89	.	.	.
12	24.92	.	.	.
13	23.02	.	.	.
14	16.26	.	.	.
15	22.97	.	.	.
16	24.94	.	.	.
17	25.18	.	.	.
18	24.31	.	.	.
19	20.67	.	.	.
20	18.42	.	.	.
21	12.38	.	.	.
22	26.23	.	.	.
23	21.39	.	.	.
24	25.06	.	.	.
25	25.56	.	.	.
26	26.07	.	.	.
27	25.96	.	.	.
28	26.30	.	.	.
29	25.86	.	.	.
30				
31				
TT Monthly Totals	693.60	.	.	.
 Daily Means	23.92	.	.	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: FEBRUARY

Year: 2020

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	28.19	16.08	8.16	19.74
2	28.68	21.13	14.46	10.06
3	28.99	16.16	20.33	17.94
4	28.76	16.31	20.33	15.41
5	28.52	19.47	25.28	24.09
6	28.70	29.41	2.83	26.91
7	28.28	25.07	18.60	27.04
8	28.85	30.01	25.45	26.70
9	28.63	28.40	22.91	13.62
10	27.60	25.53	24.79	17.93
11	26.07	25.64	25.24	8.57
12	23.36	18.22	20.32	28.29
13	26.31	17.97	12.85	9.97
14	26.87	12.67	13.77	18.99
15	27.29	8.76	25.36	16.51
16	26.54	12.01	18.48	21.54
17	26.49	20.96	19.78	5.38
18	26.53	13.54	14.48	13.75
19	26.28	19.65	24.72	17.94
20	25.85	27.93	23.37	18.01
21	25.48	27.38	23.92	18.05
22	25.88	20.47	23.52	19.56
23	25.91	9.24	22.87	7.78
24	23.38	8.92	10.11	23.91
25	25.38	12.09	19.90	10.56
26	25.05	15.53	6.56	16.72
27	24.88	17.13	20.48	21.44
28	24.20	19.49	22.27	16.00
29	23.88	25.59	21.67	17.48
30				
31				
TT Monthly Totals	770.83	560.76	552.81	509.87
Daily Means	26.58	19.34	19.06	17.58
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: MARCH

Year: 2020

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	25.57	.	.	.
2	25.52	.	.	.
3	25.64	.	.	.
4	20.24	.	.	.
5	19.89	.	.	.
6	21.92	.	.	.
7	22.41	.	.	.
8	25.02	.	.	.
9	21.77	.	.	.
10	23.86	.	.	.
11	23.57	.	.	.
12	23.35	.	.	.
13	20.39	.	.	.
14	16.76	.	.	.
15	16.64	.	.	.
16	22.03	.	.	.
17	20.89	.	.	.
18	22.18	.	.	.
19	22.78	.	.	.
20	21.26	.	.	.
21	20.58	.	.	.
22	23.22	.	.	.
23	23.23	.	.	.
24	17.44	.	.	.
25	16.25	.	.	.
26	14.20	.	.	.
27	16.81	.	.	.
28	17.72	.	.	.
29	22.10	.	.	.
30	21.38	.	.	.
31	21.68	.	.	.
TT Monthly Totals	656.31	.	.	.
 Daily Means	21.17	.	.	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: MARCH

Year: 2020

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	23.84	24.86	21.24	19.27
2	23.61	22.76	21.62	13.49
3	23.65	21.35	18.80	7.80
4	22.79	22.52	17.06	8.01
5	23.83	14.31	18.93	16.22
6	23.00	10.20	9.66	7.23
7	22.41	15.88	15.39	9.71
8	23.22	18.65	19.67	17.78
9	22.26	21.28	18.81	17.82
10	22.55	18.72	14.14	10.90
11	22.22	15.61	18.06	3.64
12	22.08	10.08	.	8.53
13	21.77	17.30	.	17.52
14	21.59	20.33	.	8.22
15	21.57	21.44	.	13.71
16	21.34	11.43	.	12.74
17	20.83	15.19	.	5.27
18	20.83	17.86	.	7.06
19	20.85	17.85	.	7.21
20	20.56	10.57	.	12.11
21	16.65	6.74	.	6.19
22	20.04	12.76	.	12.97
23	20.45	2.41	.	10.01
24	20.33	10.51	.	14.09
25	19.53	19.87	.	9.66
26	19.42	19.94	.	9.04
27	13.23	8.42	.	9.85
28	15.04	9.41	.	10.52
29	17.63	14.73	.	6.02
30	17.77	19.52	.	10.06
31	18.24	11.78	.	10.43
TT Monthly Totals	643.13	484.26	.	333.07
 Daily Means	20.75	15.62	.	10.74
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: APRIL

Year: 2020

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	18.81	.	.	.
2	15.35	.	.	.
3	17.11	.	.	.
4	20.08	.	.	.
5	20.04	.	.	.
6	20.84	.	.	.
7	16.47	.	.	.
8	20.64	.	.	.
9	18.00	.	.	.
10	18.23	.	.	.
11	12.08	.	.	.
12	15.75	.	.	.
13	15.84	.	.	.
14	20.25	.	.	.
15	20.24	.	.	.
16	19.87	.	.	.
17	20.09	.	.	.
18	18.61	.	.	.
19	13.83	.	.	.
20	18.91	.	.	.
21	19.40	.	.	.
22	16.01	.	.	.
23	14.37	.	.	.
24	18.72	.	.	.
25	18.44	.	.	.
26	13.75	.	.	.
27	15.54	.	.	.
28	14.15	.	.	.
29	10.34	.	.	.
30	14.02	.	.	.
31				
TT Monthly Totals	515.77	.	.	.
 Daily Means	17.19	.	.	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: APRIL

Year: 2020

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	18.01	15.95	.	11.20
2	18.95	18.28	.	5.24
3	18.32	7.48	.	6.74
4	11.01	8.96	.	3.41
5	17.50	9.55	.	8.83
6	17.46	17.82	.	4.44
7	16.69	17.39	.	3.88
8	16.53	16.62	.	10.81
9	14.57	12.86	.	5.55
10	14.22	4.16	.	6.53
11	9.70	16.75	.	7.94
12	6.51	15.15	.	8.23
13	17.23	9.65	.	5.26
14	16.21	7.11	.	4.38
15	14.80	4.82	.	8.32
16	16.31	2.91	.	4.57
17	16.17	3.71	.	7.49
18	16.19	6.13	.	6.56
19	15.95	8.87	.	4.17
20	15.22	11.02	.	6.59
21	14.77	13.17	.	7.45
22	12.81	10.92	.	7.42
23	5.03	3.62	.	8.55
24	7.52	3.72	.	7.96
25	14.37	2.83	.	4.28
26	12.67	4.64	.	5.48
27	12.94	4.03	.	6.13
28	14.65	8.93	.	7.07
29	14.65	10.51	.	2.74
30	14.03	6.13	.	4.72
31				
TT Monthly Totals	430.97	283.67	.	191.92
 Daily Means	14.37	9.46	.	6.40
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: MAY

Year: 2020

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	14.59	.	.	.
2	16.65	.	.	.
3	17.91	.	.	.
4	9.34	.	.	.
5	11.35	.	.	.
6	15.07	.	.	.
7	16.80	.	.	.
8	17.13	.	.	.
9	15.76	.	.	.
10	8.92	.	.	.
11	7.08	.	.	.
12	16.39	.	.	.
13	16.19	.	.	.
14	9.66	.	.	.
15	13.25	.	.	.
16	10.01	.	.	.
17	11.57	.	.	.
18	12.83	.	.	.
19	10.29	.	.	.
20	13.78	.	.	.
21	12.16	.	.	.
22	13.81	.	.	.
23	10.72	.	.	.
24	9.97	.	.	.
25	13.74	.	.	.
26	14.43	.	.	.
27	13.20	.	.	.
28	12.16	.	.	.
29	14.44	.	.	.
30	14.10	.	.	.
31	11.55	.	.	.
TT Monthly Totals	404.85	.	.	.
 Daily Means	13.06	.	.	.
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: MAY

Year: 2020

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	14.32	6.32	.	4.52
2	13.76	8.74	.	4.18
3	12.73	3.61	.	4.70
4	11.72	7.30	.	6.02
5	13.20	10.98	.	5.54
6	13.31	11.44	.	1.03
7	13.20	7.67	.	1.80
8	12.48	0.94	.	4.09
9	12.75	2.39	.	3.12
10	12.56	7.29	.	2.30
11	12.36	6.59	.	2.73
12	5.54	4.25	.	4.37
13	12.21	7.46	.	2.68
14	12.23	2.03	.	3.68
15	11.78	1.48	.	1.23
16	11.88	3.98	.	1.66
17	12.03	3.96	.	2.28
18	11.63	1.53	.	0.52
19	2.72	6.11	.	4.35
20	2.06	9.86	.	3.89
21	8.65	9.96	.	1.85
22	11.03	9.48	.	1.14
23	11.51	1.34	.	1.06
24	12.08	5.02	.	1.05
25	11.62	8.65	.	0.65
26	11.53	1.98	.	3.23
27	1.79	8.56	.	0.78
28	2.38	4.30	.	3.63
29	4.67	9.04	.	1.62
30	9.91	8.08	.	0.83
31	10.05	4.42	.	1.53
TT Monthly Totals	319.69	184.74	.	82.06
 Daily Means	10.31	5.96	.	2.65
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: JUNE

Year: 2020

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	13.50	.	.	.
2	4.06	.	.	.
3	5.30	.	.	.
4	9.85	.	.	.
5	14.67	.	.	.
6	14.47	.	.	.
7	8.16	.	.	.
8	9.85	.	.	.
9	7.34	.	.	.
10	7.63	.	.	.
11	12.03	.	.	.
12	6.69	.	.	.
13	10.19	.	.	.
14	9.53	.	.	.
15	7.37	.	.	.
16	5.82	.	.	.
17	11.40	.	.	.
18	8.61	.	.	.
19	9.14	.	.	.
20	11.24	.	.	.
21	10.19	.	.	.
22	11.02	.	.	.
23	14.27	.	.	.
24	9.74	.	.	.
25	10.01	.	.	.
26	12.15	.	.	.
27	9.45	.	.	.
28	13.26	.	.	.
29	12.23	.	.	.
30	8.43	.	.	.
31				
TT Monthly Totals	297.62	.	.	.
Daily Means	9.92	.	.	.
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

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

Month: JUNE

Year: 2020

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	9.93	2.42	.	3.06
2	2.26	4.51	.	3.38
3	3.33	6.87	.	1.31
4	10.72	5.13	.	3.30
5	10.65	3.87	.	2.22
6	10.64	0.67	.	1.17
7	10.14	6.49	.	2.07
8	4.17	7.17	.	2.62
9	12.23	1.14	.	1.64
10	9.91	1.70	.	3.08
11	6.23	4.72	.	3.10
12	7.31	6.03	.	3.48
13	10.70	4.16	.	3.02
14	10.92	3.14	.	0.58
15	7.24	3.10	.	3.11
16	4.15	4.76	.	2.94
17	2.51	4.13	.	2.94
18	1.84	5.06	.	0.31
19	5.58	4.57	.	1.38
20	1.08	0.95	.	1.16
21	6.36	3.17	.	0.75
22	1.24	2.98	.	1.29
23	4.08	4.64	.	3.03
24	6.79	8.35	.	0.83
25	6.21	5.25	.	3.43
26	4.74	2.55	.	2.96
27	5.80	3.77	.	3.09
28	5.89	4.76	.	3.04
29	1.49	4.28	.	2.18
30	7.87	3.44	.	2.17
31				
TT Monthly Totals	192.02	123.78	.	68.63
 Daily Means	6.40	4.13	.	2.29
SS Monthly Totals				
 Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: JANUARY

Year: 2020

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	6.1	7.2	.	8.1
2	7.3	10.0	.	11.7
3	10.2	12.2	.	11.4
4	11.4	12.4	.	7.0
5	11.8	11.7	.	8.2
6	11.8	11.9	.	9.0
7	11.4	12.6	.	11.9
8	11.3	12.6	.	10.7
9	12.2	12.5	.	11.8
10	7.3	12.1	.	9.3
11	11.7	12.1	.	10.9
12	6.9	8.5	.	8.2
13	4.6	6.4	.	7.7
14	8.1	6.8	.	9.7
15	2.4	12.0	.	8.9
16	8.2	8.4	.	8.2
17	11.2	12.4	.	8.2
18	8.2	11.8	.	.
19	6.2	6.5	.	4.8
20	3.4	9.5	.	5.1
21	5.3	10.6	.	9.0
22	1.4	8.7	.	9.9
23	8.7	6.7	.	8.5
24	3.2	3.6	.	5.8
25	0.0	5.7	.	0.9
26	11.0	12.3	.	8.5
27	11.7	12.3	.	8.4
28	1.6	11.9	.	8.3
29	4.5	12.3	.	11.0
30	8.6	12.3	.	11.7
31	8.3	12.3	.	11.5
TT Monthly Totals				
Daily Means				
SS Monthly Totals	236.0	318.3	.	.
Daily Means	7.6	10.3	.	8.8
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: JANUARY		Year: 2020		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	7.7	6.3	3.1	13.3
2	4.6	9.9	5.1	13.3
3	5.3	0.0	4.3	13.4
4	5.0	0.3	3.7	13.4
5	8.9	0.3	0.0	11.2
6	8.1	2.0	9.9	12.4
7	12.1	3.5	10.9	13.0
8	8.6	4.5	8.3	10.1
9	5.3	1.7	12.3	13.3
10	6.8	1.4	11.8	13.3
11	10.2	3.1	10.5	13.4
12	7.5	4.6	7.9	13.1
13	2.7	8.3	0.7	13.4
14	2.3	6.3	5.8	13.3
15	8.4	8.7	10.4	13.0
16	10.0	10.0	10.4	12.1
17	10.0	11.8	7.0	12.3
18	8.2	6.3	6.0	8.1
19	12.0	11.0	6.0	9.4
20	8.4	11.7	5.1	12.9
21	11.7	12.0	5.8	12.9
22	12.0	7.8	5.6	12.9
23	11.1	11.5	11.9	12.2
24	11.5	9.3	12.4	12.9
25	12.2	9.7	10.2	13.1
26	12.2	6.0	11.8	13.1
27	10.3	7.5	6.0	13.1
28	0.0	7.4	4.5	12.0
29	5.3	3.4	.	11.9
30	5.3	7.8	.	12.9
31	7.4	9.4	.	12.9
TT Monthly Totals				
Daily Means				
SS Monthly Totals	251.1	203.5	.	387.6
Daily Means	8.1	6.6	7.4	12.5
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

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

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

Month: JANUARY

Year: 2020

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	11.6	10.8	4.6	12.9
2	11.6	11.5	2.2	13.3
3	11.4	11.3	3.7	13.4
4	11.6	7.3	1.8	12.3
5	6.6	8.2	6.7	7.8
6	10.9	6.2	10.6	10.9
7	11.4	1.5	10.8	9.8
8	6.9	4.7	7.3	6.5
9	11.4	0.7	11.5	13.2
10	11.5	4.3	12.8	13.2
11	11.5	0.6	12.0	13.2
12	11.4	7.6	0.0	12.6
13	11.4	2.3	8.6	13.2
14	11.5	4.6	6.7	13.2
15	11.3	8.3	12.0	11.8
16	10.5	10.1	9.4	11.8
17	10.9	8.4	8.7	12.3
18	8.7	9.7	7.2	9.8
19	7.8	10.0	1.4	6.1
20	11.2	7.1	0.1	12.8
21	11.3	10.9	5.5	12.9
22	11.3	11.3	6.2	12.8
23	10.9	8.1	10.0	12.5
24	10.9	9.1	4.3	.
25	11.0	5.5	9.6	13.1
26	11.2	7.1	10.9	13.0
27	11.2	0.0	4.0	13.0
28	10.5	2.3	7.6	11.6
29	10.7	4.5	10.8	12.7
30	11.4	6.6	12.2	12.9
31	11.5	3.8	9.9	17.8
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	333.0	204.4	229.1	.
 Daily Means	10.7	6.6	7.4	12.1
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: JANUARY		Year: 2020		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	.	8.6	14.3	11.8
2	.	12.8	12.0	12.3
3	.	11.7	10.4	13.1
4	.	12.6	14.0	12.6
5	.	11.2	2.0	3.5
6	.	11.5	3.9	2.0
7	.	12.1	7.8	2.3
8	.	0.0	4.2	6.1
9	.	10.5	6.4	1.9
10	.	12.2	12.5	8.7
11	.	11.6	13.0	12.1
12	.	12.1	11.9	9.1
13	.	11.2	7.9	10.7
14	.	11.5	6.9	8.3
15	.	11.4	11.2	10.2
16	.	12.2	12.6	11.7
17	.	11.5	12.6	11.9
18	.	10.9	13.5	12.2
19	.	10.5	12.0	13.2
20	.	11.2	12.9	13.8
21	.	11.8	12.8	11.4
22	.	0.0	13.5	12.1
23	.	4.2	11.5	12.1
24	.	12.5	10.8	12.4
25	.	12.2	10.8	9.6
26	.	11.8	10.7	10.9
27	.	11.8	13.2	10.9
28	.	12.1	9.0	9.9
29	.	12.1	13.1	12.1
30	.	12.4	12.2	11.6
31	.	12.4	9.4	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	330.6	329.0	.
Daily Means	.	10.7	10.6	10.0
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: JANUARY		Year: 2020		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	12.9	12.7	10.0	
2	17.6	9.2	6.4	
3	6.6	8.6	7.9	
4	8.3	11.2	7.9	
5	3.2	5.0	5.6	
6	0.0	1.2	1.4	
7	1.7	2.2	4.2	
8	5.1	2.6	9.0	
9	0.0	8.2	0.1	
10	2.6	3.5	0.0	
11	12.7	10.1	5.0	
12	8.7	13.0	6.0	
13	5.1	12.4	1.5	
14	7.5	6.4	5.2	
15	9.5	8.9	12.4	
16	11.7	11.7	4.7	
17	13.1	10.3	13.2	
18	7.8	12.5	11.7	
19	9.7	12.4	13.3	
20	12.8	12.4	13.3	
21	13.2	10.2	10.2	
22	12.7	10.4	0.8	
23	8.8	8.9	0.8	
24	7.3	7.2	2.8	
25	0.5	9.7	9.1	
26	9.6	12.5	9.3	
27	6.9	5.5	1.4	
28	4.9	6.3	10.1	
29	11.6	2.7	2.4	
30	2.7	9.2	12.4	
31	7.0	10.3	0.9	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	241.8	267.4	199.0	
Daily Means	7.8	8.6	6.4	
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: 2020		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	11.5	12.3	.	11.7	
2	7.2	12.3	.	11.8	
3	11.3	12.3	.	12.0	
4	7.6	12.3	.	11.3	
5	11.4	12.3	.	11.9	
6	11.0	12.2	.	10.7	
7	9.9	12.0	.	7.1	
8	8.7	11.8	.	5.3	
9	8.7	12.1	.	4.6	
10	10.8	12.2	.	6.1	
11	9.0	12.0	.	6.3	
12	8.6	10.9	.	6.3	
13	7.9	11.3	.	6.8	
14	7.6	9.5	.	1.3	
15	6.1	12.0	.	5.6	
16	8.5	11.9	.	5.7	
17	9.7	11.6	.	5.7	
18	8.3	11.9	.	6.9	
19	6.5	9.3	.	6.1	
20	4.0	3.5	.	2.7	
21	1.5	8.5	.	6.4	
22	8.9	11.1	.	6.6	
23	6.6	10.9	.	7.0	
24	8.7	9.9	.	6.4	
25	10.0	11.9	.	6.9	
26	9.9	11.9	.	6.0	
27	11.3	11.9	.	6.9	
28	11.1	11.7	.	7.3	
29	10.6	11.8	.	7.0	
30					
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	252.9	325.3	.	206.4	
Daily Means	8.7	11.2	.	7.1	
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: 2020		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	1.2	11.1	.	12.8
2	3.6	4.6	.	12.9
3	7.4	7.7	.	12.8
4	10.2	3.2	.	12.7
5	6.9	3.7	.	12.7
6	7.5	10.7	.	12.7
7	11.1	5.8	.	12.7
8	6.1	7.2	.	12.7
9	7.4	10.7	.	12.6
10	7.8	2.2	.	12.6
11	8.5	11.8	.	12.5
12	8.9	2.6	.	12.1
13	8.4	8.6	.	11.9
14	9.2	10.0	.	12.5
15	9.1	9.4	.	12.5
16	6.1	11.0	.	12.4
17	7.5	10.2	.	11.8
18	6.4	6.2	.	12.4
19	4.8	9.9	.	12.6
20	2.6	4.2	.	12.3
21	7.9	0.9	.	12.2
22	9.9	10.5	.	12.1
23	5.7	9.5	.	12.2
24	6.8	7.9	.	10.1
25	5.8	8.9	.	12.1
26	6.9	11.3	.	12.2
27	7.5	8.6	.	12.1
28	5.9	6.1	.	12.0
29	5.9	9.9	.	11.9
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	197.1	214.5	.	345.2
Daily Means	7.0	7.7	.	12.3
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

DIRECCION METEOROLOGICA DE CHILE
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DPTO. CLIMATOLOGIA

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

Month: FEBRUARY

Year: 2020

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	11.3	7.1	2.6	12.2
2	11.2	7.0	4.4	12.8
3	11.3	6.3	10.9	12.8
4	11.2	9.6	11.9	.
5	11.1	6.4	11.8	12.9
6	11.2	3.3	11.7	12.2
7	11.1	7.6	12.0	.
8	11.1	11.0	11.8	12.0
9	11.2	10.5	5.8	12.2
10	11.2	8.8	2.2	12.4
11	11.2	5.2	0.0	11.4
12	10.5	8.4	8.0	11.1
13	11.1	7.0	10.9	11.4
14	11.2	3.4	10.6	11.3
15	11.2	2.5	6.8	.
16	11.3	3.2	2.5	10.9
17	11.2	7.6	7.0	11.6
18	11.2	8.1	9.9	11.4
19	11.2	4.8	10.8	11.8
20	11.3	9.9	9.8	11.3
21	11.1	10.0	5.1	11.4
22	11.3	10.3	4.9	8.1
23	11.0	7.4	3.3	11.1
24	7.9	5.2	3.4	1.8
25	10.5	1.5	11.6	11.3
26	10.9	6.7	11.4	11.4
27	10.9	2.6	6.5	11.1
28	10.8	6.3	0.0	10.9
29	10.8	9.9	0.0	10.9
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	318.5	197.6	207.6	.
 Daily Means	11.0	6.8	7.2	11.1
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: 2020		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	.	7.4	3.5	4.6
2	.	12.3	11.5	8.4
3	.	10.0	3.1	0.3
4	.	10.7	7.6	11.2
5	.	11.4	8.7	7.3
6	.	12.3	12.4	12.2
7	.	12.5	12.1	11.5
8	.	12.2	12.5	12.1
9	.	12.0	12.9	10.7
10	.	11.9	12.0	12.0
11	.	12.3	12.2	12.1
12	.	11.0	11.3	10.9
13	.	12.3	12.5	.
14	.	12.3	8.7	4.5
15	.	12.0	10.8	1.8
16	.	11.8	5.5	3.9
17	.	11.7	9.5	9.5
18	.	12.0	11.7	11.0
19	.	12.2	12.8	12.0
20	.	12.2	13.6	11.8
21	.	1.3	12.2	12.7
22	.	7.1	11.2	11.4
23	.	1.1	3.4	8.5
24	.	8.5	7.5	3.6
25	.	11.6	10.7	10.4
26	.	12.1	10.3	6.7
27	.	12.0	11.1	11.2
28	.	11.5	11.4	8.8
29	.	7.7	11.3	11.3
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	305.4	294.0	252.4
Daily Means	.	10.5	10.1	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: 2020		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	5.3	0.8	4.9	
2	5.8	4.2	0.6	
3	5.2	7.0	8.1	
4	5.4	7.3	3.4	
5	7.5	9.0	8.8	
6	11.6	0.0	12.4	
7	10.7	7.8	10.1	
8	11.6	11.6	17.9	
9	11.2	11.8	3.8	
10	9.6	11.0	9.3	
11	10.2	10.5	0.0	
12	8.8	9.3	12.0	
13	7.8	2.9	0.0	
14	2.8	10.6	7.2	
15	1.0	11.2	6.4	
16	1.7	4.5	6.7	
17	8.8	10.7	0.0	
18	1.5	6.7	2.4	
19	10.3	11.6	9.0	
20	11.2	10.2	8.4	
21	16.1	11.2	4.2	
22	11.4	11.5	10.1	
23	0.9	10.7	2.1	
24	0.1	3.3	10.2	
25	4.4	10.3	3.8	
26	6.0	0.6	9.5	
27	5.0	8.7	9.9	
28	7.8	11.3	4.5	
29	10.8	11.1	3.4	
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	210.5	237.4	189.1	
Daily Means	7.3	8.2	6.5	
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: 2020		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	11.8	.	6.6
2	11.1	11.8	.	8.8
3	11.1	11.8	.	10.9
4	5.9	9.1	.	6.9
5	5.4	7.6	.	3.8
6	8.1	11.7	.	10.7
7	11.0	11.6	.	11.2
8	11.0	11.5	.	11.1
9	6.3	9.3	.	10.3
10	10.6	7.1	.	6.4
11	10.3	12.1	.	10.6
12	8.5	10.8	.	11.1
13	0.0	12.1	.	8.9
14	4.7	9.6	.	8.1
15	5.0	9.5	.	10.5
16	5.4	5.7	.	10.5
17	7.7	8.0	.	11.2
18	7.3	11.0	.	11.4
19	10.2	11.4	.	11.4
20	7.1	9.3	.	0.5
21	6.6	10.5	.	9.3
22	10.5	10.3	.	10.2
23	10.0	11.3	.	10.3
24	5.7	11.2	.	9.4
25	4.9	11.2	.	10.5
26	0.0	7.1	.	7.1
27	5.3	9.3	.	10.8
28	6.8	11.2	.	10.8
29	7.4	11.2	.	10.2
30	10.0	11.2	.	10.1
31	9.8	11.0	.	9.1
TT Monthly Totals				
Daily Means				
SS Monthly Totals	234.8	318.3	.	288.7
Daily Means	7.6	10.3	.	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: MARCH		Year: 2020		Country: CHILE
Daily Totals				
Latitude	27°15'S	27°10' S	29°57' S	33°23' S
Longitude	70°46'W	109°26' W	71°22' W	70°47' W
Elevation	204 m	47 m	25 m	474 m
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL
Date				
1	7.0	3.3	.	11.3
2	8.0	5.0	.	12.0
3	4.8	0.2	.	11.9
4	1.0	0.0	.	11.9
5	0.0	1.6	.	11.8
6	5.1	10.6	.	11.8
7	7.1	4.0	.	11.8
8	11.1	8.4	.	11.8
9	7.7	11.1	.	11.7
10	8.1	10.3	.	11.7
11	8.3	6.7	.	10.9
12	9.1	3.5	.	11.6
13	2.0	11.1	.	11.6
14	4.3	4.1	.	11.5
15	0.0	8.8	.	11.5
16	0.0	9.9	.	11.5
17	6.8	6.8	.	11.4
18	7.9	6.6	.	11.5
19	5.5	3.5	.	11.5
20	6.9	.	.	11.5
21	3.2	.	.	9.6
22	10.9	.	.	11.4
23	9.8	.	.	.
24	4.1	.	.	.
25	7.4	6.2	.	.
26	8.0	7.4	.	.
27	8.0	.	.	.
28	8.3	.	.	.
29	6.9	.	.	.
30	1.1	.	.	.
31	1.0	.	.	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	179.4	.	.	.
Daily Means	5.8	.	.	.
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: MARCH		Year: 2020		Country: CHILE
Daily Totals				
Latitude	33°27' S	33°37' S	33°39' S	34°58' S
Longitude	70°42' W	78°50' W	71°36' W	71°12' W
Elevation	520 m	30 m	74 m	225 m
Station				
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
1	10.5	4.5	0.0	.
2	10.9	9.6	0.0	.
3	10.6	1.0	0.0	.
4	10.1	9.2	8.5	.
5	10.0	10.0	.	.
6	10.1	10.2	5.1	.
7	10.2	0.0	5.1	.
8	9.9	9.7	9.4	.
9	9.9	10.1	10.8	.
10	9.8	2.8	7.6	.
11	8.9	3.4	7.7	.
12	9.7	8.1	6.2	.
13	9.1	2.4	5.0	.
14	9.5	5.0	10.3	.
15	9.3	3.2	10.4	.
16	9.8	5.4	0.0	.
17	8.8	4.0	7.8	.
18	9.5	2.9	1.6	.
19	8.9	0.6	2.8	.
20	8.9	1.0	5.1	.
21	6.9	4.2	5.1	.
22	8.9	3.0	7.3	.
23	15.7	3.8	11.4	.
24	8.9	3.5	6.0	.
25	8.1	5.5	0.5	.
26	.	7.8	0.0	.
27	.	0.7	0.0	.
28	.	2.0	7.6	.
29	.	3.7	5.6	.
30	.	6.2	9.3	.
31	.	6.7	9.9	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	150.2	.	.
Daily Means	.	4.8	5.5	.
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: MARCH		Year: 2020		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	.	7.8	10.9	11.2
2	.	4.4	10.4	12.0
3	.	10.1	11.0	11.1
4	.	10.8	9.4	10.0
5	.	9.3	8.4	9.1
6	.	10.6	8.4	4.5
7	.	9.6	9.3	5.7
8	.	11.3	10.6	11.4
9	.	11.4	10.6	7.8
10	.	8.8	7.5	7.7
11	.	11.7	5.3	6.9
12	.	7.4	6.2	2.6
13	.	5.6	6.8	7.2
14	.	10.6	10.6	9.7
15	.	10.0	10.4	10.8
16	.	7.9	9.9	4.9
17	.	10.2	8.8	7.9
18	.	9.2	9.4	4.8
19	.	10.2	10.4	11.0
20	.	7.3	9.3	4.9
21	.	2.6	3.4	1.7
22	.	3.6	8.1	4.3
23	.	4.0	1.4	0.0
24	.	3.5	8.4	7.6
25	.	7.5	.	8.5
26	.	0.0	.	11.2
27	.	5.1	.	6.6
28	.	3.9	.	3.5
29	.	8.6	.	9.5
30	.	9.9	.	9.8
31	.	9.7	.	9.9
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	242.6	.	233.8
Daily Means	.	7.8	8.5	7.5
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: MARCH		Year: 2020		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	10.3	10.8	8.1	
2	9.6	.	2.9	
3	7.8	7.5	0.0	
4	8.8	10.9	3.6	
5	4.1	7.8	7.0	
6	2.1	4.6	0.6	
7	5.0	6.7	3.4	
8	7.8	10.3	9.7	
9	8.1	9.5	5.3	
10	6.6	5.0	3.8	
11	5.4	6.9	3.8	
12	3.1	0.0	2.6	
13	5.6	1.8	9.4	
14	9.0	7.2	0.1	
15	9.5	6.3	5.4	
16	2.1	4.4	8.1	
17	7.4	8.9	0.1	
18	7.2	9.5	2.6	
19	8.3	2.7	0.0	
20	1.9	2.6	4.5	
21	1.0	0.5	3.1	
22	4.9	0.1	6.0	
23	0.0	7.0	2.7	
24	5.5	4.0	10.2	
25	10.3	9.1	1.4	
26	11.2	5.6	1.0	
27	0.0	4.8	1.8	
28	5.1	4.9	7.0	
29	7.4	4.6	2.6	
30	11.2	8.8	5.3	
31	4.3	8.1	6.4	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	190.6	.	128.5	
Daily Means	6.1	6.0	4.1	
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: APRIL

Year: 2020

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	7.5	9.0	.	9.5
2	6.5	11.0	.	8.4
3	6.3	9.2	.	10.4
4	9.8	10.9	.	.
5	10.3	10.9	.	10.2
6	10.4	11.0	.	10.4
7	6.2	10.4	.	9.4
8	10.2	10.9	.	9.4
9	6.2	10.9	.	5.9
10	6.6	7.7	.	9.8
11	4.2	5.3	.	7.4
12	6.0	3.5	.	0.0
13	6.8	10.9	.	10.4
14	10.6	9.9	.	10.1
15	11.2	10.9	.	11.0
16	10.6	10.9	.	10.5
17	10.3	10.8	.	3.5
18	7.1	10.8	.	8.2
19	9.0	10.6	.	9.5
20	9.2	10.8	.	10.4
21	8.8	10.7	.	8.9
22	5.8	9.5	.	8.5
23	5.2	7.2	.	9.9
24	9.7	11.6	.	8.6
25	11.2	10.6	.	10.5
26	6.3	6.8	.	5.6
27	5.1	9.7	.	7.0
28	6.0	5.2	.	6.3
29	4.0	0.0	.	5.1
30	7.0	8.3	.	7.4
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	234.1	275.9	.	.
Daily Means	7.8	9.2	.	8.4
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: 2020

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	0.7	.	.	11.1
2	0.0	.	.	11.1
3	6.8	.	.	10.8
4	5.9	.	.	8.2
5	9.1	.	.	10.9
6	9.7	.	.	10.9
7	5.9	.	.	10.6
8	5.0	.	.	10.7
9	5.6	.	.	7.7
10	10.3	.	.	7.6
11	9.5	.	.	4.6
12	1.0	.	.	3.7
13	10.3	.	.	10.6
14	3.6	.	.	9.7
15	5.4	.	.	9.2
16	10.2	.	.	10.4
17	10.2	.	.	10.4
18	3.2	.	.	10.2
19	3.6	.	.	10.4
20	7.5	.	.	10.0
21	6.5	.	.	10.2
22	4.9	.	.	9.2
23	4.3	.	.	0.0
24	6.8	.	.	1.4
25	9.0	.	.	10.0
26	8.2	.	.	7.7
27	9.2	.	.	7.4
28	9.8	.	.	10.1
29	0.0	.	.	10.1
30	0.0	.	.	10.1
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	182.2	.	.	265.0
Daily Means	6.1	.	.	8.8
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: APRIL		Year: 2020		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	.	7.7	9.8	.
2	.	7.5	10.6	.
3	.	6.9	7.8	.
4	.	4.4	3.0	.
5	.	2.3	8.9	.
6	.	5.4	10.9	.
7	.	7.7	9.3	.
8	.	6.4	0.0	.
9	.	3.6	0.0	.
10	.	0.0	2.3	.
11	.	4.7	0.0	.
12	.	6.5	0.2	.
13	.	4.7	9.6	.
14	.	8.4	8.5	.
15	.	2.3	5.2	.
16	.	1.6	5.2	.
17	.	0.0	8.2	.
18	.	7.5	6.1	.
19	.	6.4	8.4	.
20	.	7.8	7.7	.
21	.	7.6	5.8	.
22	.	2.1	0.0	.
23	.	2.6	0.0	.
24	.	6.1	0.1	.
25	.	6.0	8.9	.
26	.	7.9	4.1	.
27	.	7.7	1.7	.
28	.	2.2	8.1	.
29	.	5.7	8.3	.
30	.	5.9	8.1	.
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	155.6	166.8	.
Daily Means	.	5.2	5.6	#¡DIV/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: APRIL		Year: 2020		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	.	10.1	.	9.7
2	.	10.7	.	10.5
3	.	10.5	.	5.4
4	.	9.9	.	9.9
5	.	9.3	.	5.9
6	.	10.4	.	9.7
7	.	10.5	9.3	9.2
8	.	1.0	9.3	8.9
9	.	4.9	6.3	6.3
10	.	7.5	2.8	3.3
11	.	8.9	9.6	8.8
12	.	9.0	10.0	9.4
13	.	9.2	7.8	6.2
14	.	6.8	1.1	0.4
15	.	3.9	0.0	0.0
16	.	4.2	2.5	0.0
17	.	8.4	0.8	0.0
18	.	3.1	3.0	4.7
19	.	7.0	2.1	1.3
20	.	7.8	8.4	5.2
21	.	8.1	7.0	3.5
22	.	7.9	8.0	4.4
23	.	0.0	1.3	1.0
24	.	1.0	4.7	3.0
25	.	0.0	1.1	1.2
26	.	0.4	0.1	0.0
27	.	6.3	5.8	0.4
28	.	8.3	3.9	7.9
29	.	8.2	5.4	0.9
30	.	8.5	8.7	7.4
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	201.8	.	144.5
Daily Means	.	6.7	.	4.8
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: APRIL		Year: 2020		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	10.5	6.3	5.6	
2	10.6	6.9	1.2	
3	2.1	3.0	0.0	
4	3.7	1.0	0.2	
5	4.6	5.7	8.3	
6	10.5	7.2	2.0	
7	10.7	8.1	0.1	
8	10.0	6.8	8.6	
9	8.3	5.4	4.5	
10	0.2	0.1	4.2	
11	8.6	7.3	4.5	
12	8.7	0.1	2.1	
13	2.8	6.1	0.0	
14	2.4	5.4	0.0	
15	0.3	0.9	6.2	
16	0.2	0.4	1.8	
17	0.0	3.3	5.6	
18	0.4	0.9	0.0	
19	3.5	2.8	2.1	
20	7.4	6.7	1.3	
21	9.3	7.1	7.5	
22	9.5	2.2	0.0	
23	0.8	1.1	9.2	
24	1.2	1.5	7.4	
25	0.5	0.0	2.8	
26	0.7	0.0	6.0	
27	0.4	0.0	5.8	
28	5.5	0.2	6.4	
29	4.6	0.0	0.0	
30	4.7	6.4	0.0	
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	142.7	102.9	103.4	
Daily Means	4.8	3.4	3.4	
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: 2020

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	8.1	7.1	.	9.7
2	8.7	7.9	.	5.9
3	8.7	8.8	.	9.5
4	0.8	9.9	.	9.2
5	5.7	9.0	.	9.0
6	.	9.2	.	7.1
7	9.1	8.5	.	8.2
8	9.4	10.2	.	5.8
9	7.7	10.1	.	5.6
10	3.8	5.7	.	7.1
11	3.0	5.9	.	5.5
12	8.3	10.1	.	8.8
13	8.1	10.1	.	8.7
14	4.0	7.6	.	8.1
15	5.1	7.8	.	8.0
16	5.0	4.5	.	6.4
17	.	8.9	.	9.2
18	.	9.2	.	8.6
19	.	8.4	.	9.1
20	7.9	9.4	.	8.9
21	5.8	9.8	.	9.5
22	6.4	10.3	.	8.7
23	.	7.2	.	7.3
24	4.5	6.6	.	6.4
25	.	6.2	.	5.0
26	6.8	8.5	.	8.0
27	4.8	6.8	.	9.3
28	6.7	4.6	.	3.2
29	.	10.0	.	9.4
30	6.9	9.9	.	8.7
31	.	8.7	.	9.3
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	256.9	.	243.2
Daily Means	6.3	8.3	.	7.8
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: MAY		Year: 2020		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	0.8	.	.	10.0
2	0.1	.	.	7.9
3	6.2	.	.	8.5
4	5.2	.	.	7.5
5	6.7	.	.	9.8
6	7.2	9.0	.	15.8
7	6.1	9.4	.	9.6
8	.	2.9	.	9.8
9	5.3	.	.	9.6
10	5.2	4.8	.	9.6
11	1.8	.	.	9.6
12	0.0	8.7	.	1.4
13	6.4	7.9	.	9.6
14	6.4	8.4	.	9.6
15	8.1	9.8	.	9.6
16	6.6	0.0	.	9.6
17	4.0	8.8	.	9.6
18	4.5	8.7	.	9.5
19	6.4	4.3	.	0.0
20	5.7	2.9	.	0.2
21	7.7	2.5	.	7.1
22	9.4	0.6	.	9.3
23	7.5	0.0	.	9.4
24	6.3	9.0	.	9.4
25	5.7	8.3	.	9.4
26	4.6	4.5	.	9.3
27	4.8	6.3	.	0.0
28	6.5	8.3	.	0.5
29	6.1	7.0	.	0.1
30	0.4	5.6	.	6.2
31	4.4	5.9	.	8.4
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	.	.	235.9
Daily Means	5.2	.	.	7.6
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: 2020		Country: CHILE
Daily Totals				
Latitude	33°27' S	33°37' S	33°39' S	34°58' S
Longitude	70°42' W	78°50' W	71°36' W	71°12' W
Elevation	520 m	30 m	74 m	225 m
Station				
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
1	.	1.0	4.9	.
2	.	4.1	2.3	.
3	.	4.4	5.7	.
4	.	2.8	5.2	.
5	.	6.4	7.5	.
6	.	7.9	6.9	.
7	.	7.9	4.2	.
8	.	7.1	0.4	.
9	.	3.6	4.3	.
10	.	4.9	6.5	.
11	.	1.6	6.7	.
12	.	0.2	0.9	.
13	.	0.5	6.3	.
14	.	2.6	6.4	.
15	.	7.5	6.9	.
16	.	3.8	5.3	.
17	.	7.3	1.4	.
18	.	0.0	0.0	.
19	.	3.4	0.1	.
20	.	5.8	0.7	.
21	.	2.8	5.7	.
22	.	5.0	5.4	.
23	.	7.4	7.8	.
24	.	7.3	5.7	.
25	.	6.8	6.1	.
26	.	5.6	1.3	.
27	.	0.6	0.0	.
28	.	2.3	0.0	.
29	.	5.8	0.0	.
30	.	4.5	4.3	.
31	.	3.7	4.6	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	134.6	123.5	.
Daily Means	.	4.3	4.0	.
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: MAY		Year: 2020		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	.	1.1	0.4	0.2
2	.	0.3	0.4	3.5
3	.	3.0	.	0.1
4	.	0.5	0.0	0.9
5	.	8.7	8.2	3.8
6	.	8.8	8.7	5.6
7	.	7.3	6.4	3.6
8	.	0.0	0.0	0.0
9	.	0.2	2.4	1.4
10	.	2.8	4.1	6.2
11	.	7.4	5.7	0.9
12	.	8.1	1.3	0.9
13	.	7.4	4.0	0.0
14	.	4.5	1.1	0.0
15	.	4.0	0.0	0.7
16	.	7.0	0.0	0.0
17	.	7.8	0.0	0.0
18	.	0.0	0.2	0.0
19	.	0.0	0.0	2.9
20	.	8.5	3.4	0.2
21	.	7.2	8.0	4.8
22	.	8.3	6.6	3.1
23	.	7.4	1.1	0.0
24	.	3.9	0.2	2.2
25	.	8.7	8.6	3.2
26	.	8.0	0.0	0.0
27	.	7.8	7.2	6.8
28	.	1.9	.	1.0
29	.	9.0	.	6.4
30	.	8.8	6.8	5.4
31	.	6.5	4.4	7.7
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	164.9	.	71.5
Daily Means	.	5.3	3.2	2.3
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: 2020		Country: CHILE
Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	0.0	0.0	0.8	
2	3.7	3.3	2.8	
3	0.2	0.0	3.6	
4	4.7	1.2	7.9	
5	8.8	3.6	8.0	
6	9.1	0.0	0.0	
7	7.3	0.0	0.0	
8	0.0	0.0	3.6	
9	0.1	0.0	1.9	
10	2.3	4.0	0.5	
11	4.3	4.2	2.9	
12	0.1	1.1	4.7	
13	2.3	2.0	0.5	
14	0.0	0.0	4.3	
15	0.0	0.0	0.0	
16	1.2	1.0	0.0	
17	1.7	1.1	2.2	
18	0.0	0.3	0.0	
19	2.3	3.9	5.8	
20	8.4	3.4	0.0	
21	8.7	6.4	0.3	
22	8.9	1.4	0.0	
23	0.0	0.1	0.0	
24	3.6	1.6	0.0	
25	7.6	3.1	0.0	
26	0.0	1.8	2.0	
27	6.7	1.8	0.0	
28	2.2	0.0	4.7	
29	7.4	0.0	0.4	
30	6.3	3.0	0.4	
31	2.2	3.5	0.0	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	110.1	51.8	57.3	
Daily Means	3.6	1.7	1.8	
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: JUNE

Year: 2020

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19' W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	8.7	9.8	.	7.7
2	.	0.0	.	8.2
3	.	5.5	.	7.4
4	3.2	9.9	.	7.1
5	9.2	10.2	.	9.4
6	.	8.4	.	9.4
7	.	4.8	.	7.6
8	.	4.7	.	1.9
9	.	4.0	.	3.2
10	0.0	0.0	.	0.0
11	5.0	4.4	.	1.7
12	0.0	3.5	.	5.4
13	.	7.3	.	7.2
14	.	1.9	.	7.4
15	.	4.4	.	2.4
16	.	5.3	.	5.7
17	.	7.1	.	9.1
18	3.6	3.8	.	8.3
19	.	7.1	.	5.2
20	.	4.9	.	5.7
21	.	7.5	.	7.0
22	3.4	8.1	.	7.7
23	.	7.5	.	6.1
24	.	8.2	.	5.4
25	2.4	6.7	.	7.5
26	.	11.2	.	6.3
27	.	5.8	.	5.5
28	4.1	8.5	.	2.6
29	4.5	9.4	.	4.3
30	3.1	9.2	.	7.7
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	189.1	.	180.1
Daily Means	.	6.3	.	6.0
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: JUNE		Year: 2020		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	6.4	10.2	.	8.3
2	5.9	6.0	.	0.0
3	1.6	3.4	.	1.4
4	5.8	3.0	.	9.2
5	9.2	.	.	9.2
6	.	.	.	9.2
7	7.2	.	.	5.2
8	9.2	.	.	0.5
9	1.2	.	.	8.7
10	4.6	.	.	8.7
11	1.8	.	.	3.9
12	9.2	.	.	4.5
13	9.2	.	.	9.1
14	4.8	.	.	9.1
15	0.1	.	.	2.8
16	0.0	.	.	0.4
17	6.8	.	.	1.3
18	8.6	.	.	0.0
19	6.7	.	.	2.1
20	8.1	.	.	0.0
21	6.9	.	.	3.3
22	4.0	.	.	0.0
23	0.0	.	.	0.0
24	0.9	.	.	4.9
25	3.3	.	.	4.5
26	.	.	.	1.0
27	8.9	.	.	1.6
28	2.9	.	.	2.0
29	4.0	.	.	0.0
30	7.9	.	.	4.4
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	.	.	115.3
Daily Means	5.2	.	.	3.8
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: JUNE		Year: 2020		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	.	0.1	3.6	.
2	.	4.3	0.0	.
3	.	5.7	0.4	.
4	.	6.6	4.0	.
5	.	0.0	5.7	.
6	.	4.8	1.5	.
7	.	5.5	4.5	.
8	.	4.2	2.6	.
9	.	6.5	2.2	.
10	.	4.9	4.1	.
11	.	2.7	0.0	.
12	.	3.9	3.8	.
13	.	5.7	6.1	.
14	.	0.6	5.3	.
15	.	4.9	0.0	.
16	.	5.7	0.0	.
17	.	2.4	0.0	.
18	.	0.0	0.0	.
19	.	5.4	0.0	.
20	.	1.3	0.0	.
21	.	5.8	4.8	.
22	.	1.9	0.0	.
23	.	4.7	1.4	.
24	.	5.7	1.8	.
25	.	2.6	3.2	.
26	.	6.2	1.3	.
27	.	0.0	0.0	.
28	.	5.8	0.0	.
29	.	6.1	2.1	.
30	.	0.4	1.1	.
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	114.4	59.5	.
Daily Means	.	3.8	2.0	.
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: JUNE		Year: 2020		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	.	7.0	0.3	1.0
2	.	0.0	1.9	3.5
3	.	8.0	8.1	5.5
4	.	7.2	4.4	0.0
5	.	7.2	6.8	1.4
6	.	0.6	0.0	0.2
7	.	6.1	3.2	2.6
8	.	1.3	2.7	5.9
9	.	3.1	0.0	0.4
10	.	0.0	0.0	0.0
11	.	0.0	0.4	1.6
12	.	5.9	5.4	3.4
13	.	7.4	4.2	3.2
14	.	7.6	4.1	0.0
15	.	0.4	0.0	0.0
16	.	0.0	0.0	0.0
17	.	0.8	0.0	1.2
18	.	0.0	0.0	3.1
19	.	3.3	1.6	3.3
20	.	0.0	0.0	0.0
21	.	4.6	2.8	1.3
22	.	1.6	3.8	2.2
23	.	3.0	0.4	3.4
24	.	0.2	0.0	0.7
25	.	0.6	0.3	.
26	.	0.0	0.0	0.0
27	.	1.6	0.9	0.0
28	.	0.0	3.8	2.6
29	.	2.4	0.0	0.0
30	.	0.0	0.0	0.0
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	79.9	55.1	.
Daily Means	.	2.7	1.8	1.6
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: 2020

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	0.0	0.6	0.0	
2	3.7	3.4	6.0	
3	5.5	0.6	0.0	
4	2.1	0.3	6.5	
5	1.0	0.0	0.0	
6	0.2	0.0	0.6	
7	5.1	0.6	1.9	
8	4.7	1.0	3.5	
9	0.0	0.0	1.9	
10	0.0	0.0	.	
11	2.9	1.3	6.4	
12	4.9	1.1	5.8	
13	0.2	0.3	6.7	
14	0.6	1.2	0.0	
15	0.2	0.0	14.1	
16	4.4	0.0	7.3	
17	2.2	0.0	0.0	
18	2.6	2.6	0.0	
19	3.4	2.6	0.0	
20	0.0	0.0	0.0	
21	0.1	2.3	0.0	
22	1.6	1.2	0.0	
23	3.2	0.0	0.0	
24	7.5	2.3	0.0	
25	1.9	1.6	6.5	
26	0.0	0.0	0.0	
27	0.1	0.0	6.5	
28	3.1	0.0	6.5	
29	1.0	0.0	0.4	
30	0.0	0.0	0.0	
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	62.2	23.0	.	
Daily Means	2.1	0.8	2.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	