



Informe Solarimétrico I Semestre 2017

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: 2017

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	19.77	.	30.85	.
2	20.12	.	30.42	.
3	19.35	.	30.96	.
4	18.91	.	30.40	.
5	17.15	.	30.12	.
6	16.48	.	29.89	.
7	13.68	.	28.86	.
8	19.42	.	29.89	.
9	12.14	.	26.62	.
10	17.00	.	30.70	.
11	16.47	.	29.90	.
12	16.68	.	29.81	.
13	17.50	.	18.88	.
14	19.51	.	28.64	.
15	9.16	.	29.31	.
16	14.33	.	26.06	.
17	20.42	.	29.35	.
18	20.41	.	29.45	.
19	20.66	.	25.79	.
20	21.43	.	28.04	.
21	17.52	.	20.15	.
22	14.31	.	22.40	.
23	18.63	.	28.23	.
24	22.48	.	28.42	.
25	21.04	.	17.80	.
26	21.94	.	24.41	.
27	22.99	.	28.06	.
28	23.38	.	28.07	.
29	23.01	.	28.25	.
30	22.59	.	25.01	.
31	22.60	.	27.37	.
TT Monthly Totals	.	.	852.11	.
 Daily Means	18.74	.	27.49	.
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: 2017

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	.	.	7.46	.
2	.	.	7.51	.
3	.	.	14.31	.
4	.	.	15.05	.
5	.	.	15.74	.
6	.	.	15.86	.
7	.	.	18.96	.
8	.	.	19.11	.
9	.	.	18.18	.
10	.	.	18.34	.
11	.	.	12.28	.
12	.	.	14.32	.
13	.	.	14.55	.
14	.	.	14.26	.
15	.	.	20.17	.
16	.	.	11.28	.
17	.	.	10.17	.
18	.	.	2.90	.
19	.	.	10.28	.
20	.	.	15.79	.
21	.	.	22.56	.
22	.	.	22.64	.
23	.	.	18.14	.
24	.	.	17.60	.
25	.	.	12.85	.
26	.	.	14.83	.
27	.	.	13.34	.
28	.	.	16.16	.
29	.	.	4.61	.
30	.	.	12.73	.
31	.	.	12.96	.
TT Monthly Totals	.	.	444.95	.
Daily Means	.	.	14.35	.
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: 2017

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	22.47	.	27.79	.
2	21.64	.	27.62	.
3	22.54	.	28.27	.
4	22.41	.	28.36	.
5	22.37	.	28.91	.
6	22.10	.	28.91	.
7	22.06	.	28.49	.
8	22.39	.	28.60	.
9	22.06	.	28.83	.
10	22.36	.	28.89	.
11	21.07	.	28.06	.
12	20.95	.	28.10	.
13	21.22	.	27.76	.
14	21.77	.	28.05	.
15	20.54	.	28.15	.
16	21.39	.	28.09	.
17	20.70	.	28.20	.
18	20.96	.	28.21	.
19	19.10	.	28.35	.
20	20.18	.	27.59	.
21	19.60	.	27.53	.
22	20.88	.	25.66	.
23	19.72	.	27.06	.
24	20.92	.	26.77	.
25	21.29	.	26.53	.
26	15.87	.	25.66	.
27	16.05	.	26.17	.
28	20.57	.	26.59	.
29				
30				
31				
TT Monthly Totals	585.17	.	777.17	.
 Daily Means	20.90	.	27.76	.
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: 2017

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	.	.	20.88	.
2	.	.	7.04	.
3	.	.	16.54	.
4	.	.	20.25	.
5	.	.	20.28	.
6	.	.	19.58	.
7	.	.	19.24	.
8	.	.	19.36	.
9	.	.	9.73	.
10	.	.	18.01	.
11	.	.	18.03	.
12	.	.	21.95	.
13	.	.	19.09	.
14	.	.	20.41	.
15	.	.	10.44	.
16	.	.	4.32	.
17	.	.	6.30	.
18	.	.	2.79	.
19	.	.	16.67	.
20	.	.	12.61	.
21	.	.	7.13	.
22	.	.	16.46	.
23	.	.	6.80	.
24	.	.	17.40	.
25	.	.	12.94	.
26	.	.	15.92	.
27	.	.	8.96	.
28	.	.	6.82	.
29				
30				
31				
TT Monthly Totals	.	.	395.93	.
Daily Means	.	.	14.14	.
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER	PYRANOMETER	PYRANOMETER	PYRANOMETER
Instruments	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY	PSP EPPLEY

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

Month: MARCH

Year: 2017

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	20.62	.	27.34	.
2	1.19	.	26.55	.
3	.	.	26.45	.
4	.	.	17.45	.
5	.	.	21.65	.
6	.	.	26.89	.
7	.	.	25.96	.
8	19.79	.	25.62	.
9	19.65	.	25.82	.
10	18.67	.	25.38	.
11	17.44	.	25.37	.
12	20.56	.	25.30	.
13	18.61	.	21.62	.
14	19.54	.	24.95	.
15	14.00	.	24.38	.
16	19.61	.	23.12	.
17	19.49	.	23.61	.
18	19.14	.	24.73	.
19	17.85	.	24.77	.
20	17.52	.	25.04	.
21	19.12	.	24.73	.
22	19.12	.	24.36	.
23	17.67	.	24.07	.
24	19.33	.	23.90	.
25	18.45	.	23.90	.
26	18.98	.	24.04	.
27	18.04	.	23.54	.
28	18.39	.	23.09	.
29	18.16	.	22.62	.
30	17.81	.	23.05	.
31	16.38	.	22.98	.
TT Monthly Totals	.	.	752.30	.
Daily Means	.	.	24.27	.
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: 2017

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	.	.	10.88	.
2	.	.	10.20	.
3	.	.	3.07	.
4	.	.	13.61	.
5	.	.	11.33	.
6	.	.	15.98	.
7	.	.	4.43	.
8	.	.	9.61	.
9	.	.	13.64	.
10	.	.	7.77	.
11	.	.	13.17	.
12	.	.	9.33	.
13	.	.	14.58	.
14	.	.	12.88	.
15	.	.	16.08	.
16	8.43	.	14.20	.
17	22.11	.	14.36	.
18	21.88	.	14.51	.
19	21.93	.	10.37	.
20	21.55	.	9.76	.
21	10.18	.	14.06	.
22	20.91	.	13.68	.
23	20.55	.	10.56	.
24	20.15	.	13.79	.
25	3.25	.	12.68	.
26	18.06	.	3.69	.
27	19.74	.	8.07	.
28	19.55	.	3.21	.
29	19.49	.	1.17	.
30	17.82	.	0.80	.
31	19.16	.	1.60	.
TT Monthly Totals	.	.	313.08	.
 Daily Means	.	.	10.10	.
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: 2017

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	18.28	.	22.95	.
2	18.16	.	23.03	.
3	17.82	.	22.20	.
4	17.99	.	22.61	.
5	17.84	.	22.33	.
6	17.63	.	22.39	.
7	17.65	.	22.11	.
8	17.07	.	22.22	.
9	17.45	.	21.97	.
10	17.38	.	21.70	.
11	17.35	.	21.56	.
12	16.89	.	21.72	.
13	16.93	.	21.44	.
14	16.89	.	18.38	.
15	16.71	.	20.12	.
16	11.91	.	20.58	.
17	14.22	.	18.78	.
18	15.84	.	10.94	.
19	16.20	.	20.62	.
20	16.20	.	19.77	.
21	16.17	.	20.03	.
22	15.47	.	17.69	.
23	12.39	.	19.56	.
24	11.58	.	15.16	.
25	8.64	.	17.09	.
26	11.71	.	18.93	.
27	13.38	.	18.83	.
28	15.04	.	19.43	.
29	10.41	.	16.42	.
30	10.35	.	17.55	.
31				
TT Monthly Totals	461.53	.	598.10	.
 Daily Means	15.38	.	19.94	.
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: 2017

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	18.84	.	7.57	.
2	13.97	.	4.24	.
3	18.50	.	1.61	.
4	16.40	.	6.05	.
5	17.97	.	0.49	.
6	18.46	.	0.21	.
7	16.35	.	1.58	.
8	9.32	.	2.95	.
9	17.50	.	5.72	.
10	18.28	.	8.42	.
11	17.92	.	4.19	.
12	17.68	.	8.42	.
13	16.73	.	8.05	.
14	16.89	.	5.80	.
15	15.75	.	3.93	.
16	10.53	.	3.33	.
17	8.21	.	3.92	.
18	14.54	.	0.10	.
19	14.00	.	1.98	.
20	10.76	.	0.84	.
21	2.84	.	3.46	.
22	9.04	.	3.16	.
23	13.34	.	1.47	.
24	0.33	.	4.43	.
25	8.79	.	1.48	.
26	14.93	.	4.58	.
27	14.98	.	2.91	.
28	15.34	.	2.01	.
29	6.08	.	4.94	.
30	15.06	.	1.71	.
31				
TT Monthly Totals	409.34	.	109.55	.
 Daily Means	13.64	.	3.65	.
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: 2017

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	12.48	.	18.47	.
2	13.43	.	17.25	.
3	9.35	.	18.77	.
4	10.98	.	17.65	.
5	14.62	.	18.52	.
6	14.11	.	17.78	.
7	14.22	.	14.80	.
8	14.42	.	18.00	.
9	14.07	.	17.24	.
10	12.71	.	9.30	.
11	12.52	.	12.61	.
12	13.68	.	12.33	.
13	13.67	.	17.28	.
14	10.56	.	14.77	.
15	6.31	.	3.36	.
16	10.33	.	16.61	.
17	8.51	.	16.75	.
18	10.47	.	17.35	.
19	6.09	.	16.12	.
20	11.00	.	16.74	.
21	8.58	.	12.92	.
22	10.34	.	3.57	.
23	7.41	.	15.67	.
24	12.96	.	15.41	.
25	12.56	.	13.97	.
26	11.81	.	11.42	.
27	10.73	.	15.33	.
28	5.17	.	15.17	.
29	4.52	.	14.50	.
30	6.80	.	15.86	.
31	7.12	.	14.74	.
TT Monthly Totals	331.49	.	460.27	.
 Daily Means	10.69	.	14.85	.
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: 2017

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	15.05	.	6.72	.
2	12.07	.	2.83	.
3	7.77	.	1.70	.
4	13.33	.	5.23	.
5	13.08	.	1.72	.
6	4.86	.	5.01	.
7	6.12	.	3.10	.
8	8.13	.	3.69	.
9	11.86	.	2.50	.
10	7.62	.	5.00	.
11	3.55	.	2.86	.
12	1.50	.	2.59	.
13	7.54	.	1.94	.
14	11.17	.	3.33	.
15	3.12	.	.	.
16	9.90	.	0.07	.
17	1.54	.	2.33	.
18	5.51	.	4.07	.
19	4.62	.	3.82	.
20	12.23	.	2.05	.
21	12.23	.	2.90	.
22	8.53	.	3.65	.
23	1.96	.	3.06	.
24	0.31	.	4.45	.
25	8.76	.	4.20	.
26	11.25	.	4.22	.
27	7.37	.	3.34	.
28	.	.	0.95	.
29	.	.	2.39	.
30	.	.	1.86	.
31	.	.	1.39	.
TT Monthly Totals	.	.	.	.
 Daily Means	.	.	3.10	.
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: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	8.22	.	14.01	.
2	5.56	.	12.47	.
3	8.15	.	13.26	.
4	10.75	.	13.26	.
5	7.76	.	10.72	.
6	9.67	.	7.12	.
7	4.15	.	4.76	.
8	10.60	.	15.00	.
9	10.20	.	7.92	.
10	11.63	.	12.36	.
11	10.40	.	13.00	.
12	8.88	.	12.17	.
13	13.57	.	12.54	.
14	13.78	.	15.64	.
15	13.45	.	15.36	.
16	9.41	.	13.83	.
17	9.58	.	12.56	.
18	10.57	.	5.09	.
19	7.23	.	13.66	.
20	14.17	.	13.21	.
21	12.49	.	13.32	.
22	8.01	.	6.58	.
23	9.91	.	12.27	.
24	4.77	.	9.18	.
25	8.78	.	15.04	.
26	10.00	.	15.10	.
27	11.48	.	14.08	.
28	8.80	.	8.14	.
29	5.86	.	5.62	.
30	8.62	.	11.65	.
31				
TT Monthly Totals	286.45	.	348.90	.
Daily Means	9.55	.	11.63	.
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: 2017

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	.	.	2.24	.
2	.	.	.	.
3	.	.	2.32	.
4	.	.	3.41	.
5	.	.	2.42	.
6	.	.	2.60	.
7	.	.	2.40	.
8	.	.	2.67	.
9	.	.	2.56	.
10	.	.	2.16	.
11	.	.	2.48	.
12	.	.	1.07	.
13	.	.	2.11	.
14	.	.	0.12	.
15	.	.	3.57	.
16	.	.	0.89	.
17	.	.	0.52	.
18	.	.	3.02	.
19	.	.	3.78	.
20	.	.	2.23	.
21	.	.	0.07	.
22	.	.	2.23	.
23	.	.	3.09	.
24	4.49	.	3.23	.
25	3.07	.	0.02	.
26	6.04	.	0.25	.
27	2.36	.	1.19	.
28	8.64	.	2.40	.
29	10.17	.	3.16	.
30	10.17	.	1.68	.
31				
TT Monthly Totals	.	.	.	.
Daily Means	.	.	2.07	.
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: 2017

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	8.3	11.3	11.2	10.3
2	11.6	10.4	11.5	10.3
3	10.5	11.0	11.6	11.9
4	9.0	10.5	10.9	11.2
5	5.8	9.5	11.3	11.3
6	3.7	10.2	10.2	11.1
7	5.5	11.4	9.2	11.0
8	8.6	10.0	10.4	10.8
9	0.9	6.7	11.4	7.5
10	6.1	8.3	10.9	12.7
11	6.5	11.3	11.6	11.1
12	6.9	8.1	10.7	11.6
13	8.5	11.6	10.5	11.8
14	7.2	8.4	8.7	9.9
15	0.0	4.7	5.5	11.7
16	2.8	6.3	7.0	9.6
17	8.6	10.1	10.4	11.8
18	9.5	10.4	8.8	12.1
19	10.0	10.9	11.6	8.6
20	9.3	11.4	11.3	11.1
21	5.0	10.7	11.4	8.2
22	0.8	3.8	7.1	8.8
23	4.9	9.1	6.6	11.9
24	11.2	11.5	10.9	10.9
25	8.2	4.4	10.5	11.8
26	9.0	11.0	10.5	10.4
27	11.1	11.5	11.6	10.6
28	11.3	11.3	11.5	11.0
29	11.2	11.2	11.5	11.6
30	11.0	10.3	11.7	8.9
31	11.0	11.4	11.2	10.0
TT Monthly Totals				
Daily Means				
SS Monthly Totals	234.0	298.7	319.2	331.5
Daily Means	7.5	9.6	10.3	10.7
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: 2017		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	2.6	10.8	12.9	.
2	8.1	9.3	9.9	.
3	8.6	11.2	12.4	.
4	10.1	7.6	12.7	.
5	8.9	12.3	12.3	.
6	12.2	12.8	12.4	.
7	12.3	10.8	12.9	.
8	11.8	10.9	11.1	.
9	9.6	6.2	6.4	.
10	9.3	0.0	7.8	.
11	8.8	0.1	11.4	.
12	9.7	6.9	10.0	.
13	11.8	2.2	10.8	.
14	6.7	8.5	9.4	.
15	12.2	3.2	10.5	.
16	12.5	0.1	12.8	.
17	12.1	7.2	6.2	.
18	9.3	8.2	10.9	.
19	11.2	1.9	12.0	.
20	7.7	10.3	5.4	.
21	10.1	6.6	10.9	.
22	5.3	11.0	11.4	.
23	11.5	0.2	10.6	.
24	10.0	12.8	9.8	.
25	6.0	5.9	10.8	.
26	11.7	1.7	6.8	.
27	11.6	5.2	10.8	.
28	10.4	10.8	10.5	.
29	0.0	4.2	4.1	.
30	0.0	11.4	0.0	.
31	0.0	11.8	5.8	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	272.1	222.1	301.7	.
Daily Means	8.8	7.2	9.7	.
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: 2017		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	11.7	11.7	11.8	9.3
2	12.1	8.8	11.0	13.5
3	10.2	7.8	7.7	13.3
4	11.8	10.1	11.1	13.4
5	12.1	8.7	11.8	13.4
6	11.8	7.5	11.6	13.4
7	11.9	6.2	7.5	13.4
8	11.0	5.3	7.4	10.5
9	6.7	1.8	7.7	7.9
10	10.9	5.3	11.7	13.2
11	11.8	11.6	11.9	13.4
12	11.8	10.5	12.0	13.2
13	11.9	6.5	12.0	11.2
14	12.0	8.7	9.4	13.3
15	10.7	9.4	7.2	13.2
16	11.7	11.1	6.1	13.3
17	11.5	5.1	11.5	11.5
18	11.6	8.8	8.7	13.3
19	12.3	9.9	8.7	13.2
20	12.0	10.5	8.8	13.2
21	11.2	11.0	1.1	12.7
22	10.8	10.9	1.0	12.3
23	11.0	11.4	5.3	11.2
24	12.0	8.7	9.0	13.2
25	12.1	10.7	8.0	13.2
26	11.0	11.1	10.3	13.2
27	10.8	10.5	10.7	13.1
28	10.0	10.6	0.0	6.8
29	10.3	11.3	1.6	11.6
30	10.8	10.4	8.5	12.1
31	11.2	4.9	10.9	12.8
TT Monthly Totals				
Daily Means				
SS Monthly Totals	348.7	276.8	262.0	382.3
Daily Means	11.2	8.9	8.5	12.3
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: JANUARY		Year: 2017		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	.	13.2	.	12.5
2	.	13.4	.	7.3
3	.	12.9	.	7.6
4	.	13.1	.	10.1
5	.	12.8	.	11.0
6	.	13.0	.	8.0
7	.	12.3	.	0.5
8	.	3.7	.	0.9
9	.	11.1	.	10.1
10	.	13.0	.	5.2
11	.	13.1	.	10.8
12	.	10.6	.	6.5
13	.	12.7	.	9.9
14	.	12.5	.	10.4
15	.	12.9	.	13.0
16	.	12.8	.	2.5
17	.	12.8	.	11.4
18	.	13.0	.	12.4
19	.	12.9	.	8.4
20	.	12.8	.	11.7
21	.	12.7	.	12.2
22	.	12.6	.	12.6
23	.	12.5	.	10.2
24	.	12.6	.	5.6
25	.	12.8	.	12.6
26	.	10.5	.	12.3
27	.	6.5	.	13.7
28	.	11.9	.	13.2
29	.	11.7	.	12.0
30	.	12.3	.	11.3
31	.	12.6	.	12.9
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	373.3	.	298.8
Daily Means	.	12.0	.	9.6
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: JANUARY

Year: 2017

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	3.6	3.6	4.0	
2	5.0	3.3	10.2	
3	8.2	5.9	4.4	
4	6.6	8.4	11.6	
5	11.9	6.0	0.7	
6	0.2	0.9	2.3	
7	5.1	8.4	3.9	
8	0.1	1.6	5.9	
9	5.9	7.1	6.7	
10	5.5	6.9	11.0	
11	8.7	5.3	8.9	
12	1.6	5.2	7.5	
13	9.4	5.5	3.5	
14	11.9	5.9	1.9	
15	10.1	9.3	7.2	
16	2.7	6.7	12.2	
17	5.8	7.4	8.2	
18	9.4	0.7	5.0	
19	6.7	5.1	2.1	
20	8.2	9.9	12.8	
21	12.1	11.8	9.9	
22	12.9	8.2	4.8	
23	6.0	3.4	10.8	
24	4.9	10.4	0.9	
25	12.5	5.6	5.2	
26	12.1	8.6	4.3	
27	7.3	6.8	6.2	
28	13.0	8.3	2.6	
29	10.7	4.0	2.8	
30	10.7	4.9	7.6	
31	12.2	8.3	6.3	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	241.0	193.4	191.4	
Daily Means	7.8	6.2	6.2	
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: FEBRUARY		Year: 2017		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	10.3	11.8	11.7	10.7
2	9.7	11.3	11.4	11.0
3	11.1	11.0	11.5	11.1
4	10.5	9.9	11.7	10.3
5	10.5	9.3	11.7	11.6
6	10.6	10.4	11.7	11.7
7	10.7	11.1	11.7	11.4
8	11.4	10.2	11.6	11.5
9	11.0	10.3	11.7	11.4
10	11.1	11.3	11.6	11.5
11	9.3	11.4	11.3	11.4
12	10.5	10.8	11.7	11.6
13	10.4	11.2	11.3	11.0
14	11.2	9.6	.	11.8
15	9.1	9.8	.	11.6
16	10.6	10.0	11.3	11.3
17	10.6	9.5	11.3	10.5
18	9.3	10.0	.	11.4
19	6.8	10.8	.	11.2
20	8.1	11.0	.	11.0
21	8.4	8.1	.	11.4
22	10.0	8.9	.	8.8
23	8.6	10.3	.	11.1
24	8.9	11.0	.	11.3
25	11.1	10.7	.	11.2
26	3.9	4.5	.	10.5
27	2.9	1.2	.	10.9
28	9.2	11.0	.	11.0
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	265.8	276.4	.	311.2
Daily Means	9.5	9.9	.	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: 2017		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	0.4	10.3	0.6	.
2	0.0	9.8	0.3	.
3	3.2	1.8	0.0	.
4	9.5	13.0	11.2	.
5	10.5	11.6	12.2	.
6	8.4	11.0	10.1	.
7	7.4	11.8	7.4	.
8	8.8	11.8	11.7	.
9	8.4	9.6	12.2	.
10	8.7	8.2	9.9	.
11	9.3	9.3	6.1	.
12	9.0	12.0	11.8	.
13	7.6	9.3	6.7	.
14	11.8	7.9	9.3	.
15	11.8	11.4	10.2	.
16	11.5	12.3	11.9	.
17	11.7	11.9	7.0	.
18	11.5	11.5	11.8	.
19	11.0	10.8	12.0	.
20	11.1	11.9	10.4	.
21	6.9	11.1	9.4	.
22	8.7	11.9	5.4	.
23	11.1	11.0	11.1	.
24	11.2	8.5	11.1	.
25	10.6	7.8	9.9	.
26	10.5	8.4	11.8	.
27	10.8	8.9	12.0	.
28	10.9	2.0	11.6	.
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	252.3	276.8	255.1	.
Daily Means	9.0	9.9	9.1	.
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: 2017		Country: CHILE
Daily Totals				
Latitude	33°27' S	33°37' S	33°39' S	34°58' S
Longitude	70°42' W	78°50' W	71°36' W	71°12' W
Elevation	520 m	30 m	74 m	225 m
Station				
Date	QUINTA NORMAL	ROBINSON CRUSOE	SANTO DOMINGO	CURICO
1	11.1	0.9	10.9	12.5
2	10.2	3.8	5.9	11.8
3	4.6	6.0	2.8	0.7
4	9.3	8.8	10.5	6.7
5	11.1	5.8	11.6	12.8
6	10.9	4.1	11.1	12.9
7	10.9	10.6	1.3	12.7
8	10.0	6.2	11.0	9.7
9	10.9	8.8	3.6	5.9
10	8.4	11.3	8.5	12.4
11	11.1	5.3	8.3	12.4
12	11.2	7.5	8.0	12.3
13	11.2	10.8	6.2	12.2
14	11.0	7.6	6.4	11.8
15	11.1	7.5	8.0	12.7
16	10.8	4.9	9.2	11.3
17	10.5	7.4	8.8	5.6
18	11.1	6.8	11.6	12.1
19	11.2	10.7	11.1	12.1
20	11.1	9.7	9.9	10.8
21	11.2	9.2	11.1	9.2
22	10.7	7.4	0.0	10.7
23	8.3	6.4	2.7	11.7
24	6.6	6.8	1.6	11.5
25	8.9	9.7	1.1	10.5
26	6.5	1.0	6.5	6.4
27	10.7	5.2	9.5	11.1
28	11.0	8.6	8.3	11.6
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	281.6	198.8	205.5	294.1
Daily Means	10.1	7.1	7.3	10.5
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: FEBRUARY		Year: 2017		Country: CHILE
Daily Totals				
Latitude	36°36' S	36°46' S	38°45' S	39°41' S
Longitude	72°26' W	73°03' W	72°38' W	73°04' W
Elevation	124 m	12 m	114 m	19 m
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA
Date				
1	.	12.3	.	12.6
2	.	10.5	.	10.2
3	.	0.2	.	7.2
4	.	7.2	.	11.6
5	.	12.8	.	12.8
6	.	12.7	.	11.6
7	.	12.5	.	12.9
8	.	12.4	.	9.8
9	.	11.9	.	10.6
10	.	12.5	.	12.8
11	.	12.3	.	12.2
12	.	12.4	.	9.5
13	.	12.2	.	12.9
14	.	1.4	.	11.4
15	.	5.2	.	10.3
16	.	0.7	.	3.9
17	.	5.9	.	0.0
18	.	12.3	.	2.4
19	.	11.6	.	2.4
20	.	11.7	.	5.6
21	.	12.1	.	8.5
22	.	12.3	.	8.5
23	.	11.5	.	6.8
24	.	11.4	.	9.1
25	.	9.9	.	11.5
26	.	2.1	.	8.7
27	.	2.4	.	10.5
28	.	0.4	.	0.5
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	252.8	.	246.8
Daily Means	.	9.0	.	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: FEBRUARY		Year: 2017		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	10.6	10.7	6.7	
2	2.8	0.8	0.4	
3	3.2	8.2	2.8	
4	9.4	9.6	7.6	
5	10.0	9.7	1.9	
6	6.8	10.4	4.1	
7	11.2	8.3	5.1	
8	4.8	6.2	9.8	
9	6.7	2.7	5.7	
10	12.2	7.9	3.3	
11	7.4	5.7	11.6	
12	11.2	11.5	5.3	
13	12.3	12.4	12.2	
14	10.2	11.4	7.8	
15	7.7	5.5	0.0	
16	4.5	2.9	1.1	
17	0.0	4.4	0.0	
18	0.0	1.5	7.9	
19	0.0	7.9	9.4	
20	3.9	6.1	4.0	
21	2.4	4.1	2.5	
22	0.7	8.6	11.9	
23	3.9	5.2	3.4	
24	3.5	9.8	8.7	
25	9.3	8.4	11.0	
26	4.8	9.2	7.0	
27	6.3	4.6	0.0	
28	3.1	5.8	0.0	
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	168.9	199.5	151.2	
Daily Means	6.0	7.1	5.4	
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: MARCH		Year: 2017		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	10.9	10.8	.	11.1	
2	10.5	9.6	.	10.9	
3	10.5	10.8	.	10.6	
4	8.6	10.7	.	1.5	
5	7.0	8.0	.	6.6	
6	9.6	9.8	.	11.0	
7	7.2	7.0	.	11.0	
8	10.5	10.6	.	10.9	
9	8.6	10.1	.	11.1	
10	7.0	6.0	.	10.9	
11	6.8	7.2	.	10.0	
12	9.8	10.2	.	9.7	
13	6.4	10.1	.	8.2	
14	9.3	10.4	.	10.7	
15	4.1	10.3	.	10.7	
16	9.3	9.0	.	9.4	
17	10.6	7.4	.	10.1	
18	10.7	6.1	.	10.3	
19	7.0	7.6	.	9.9	
20	7.0	9.8	.	10.9	
21	10.3	9.6	.	11.0	
22	10.6	10.1	.	10.8	
23	8.7	8.0	.	10.9	
24	10.8	9.3	.	10.7	
25	10.0	9.5	.	10.8	
26	10.8	10.1	.	10.8	
27	9.4	9.8	.	10.7	
28	8.2	9.9	.	9.8	
29	7.8	7.1	.	8.5	
30	8.8	7.7	.	10.5	
31	7.2	10.2	.	10.4	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	274.0	282.8	.	310.4	
Daily Means	8.8	9.1	.	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: MARCH		Year: 2017		Country: CHILE
Daily Totals				
Latitude	27°15'S	27°10' S	29°57' S	33°23' S
Longitude	70°46'W	109°26' W	71°22' W	70°47' W
Elevation	204 m	47 m	25 m	474 m
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL
Date				
1	8.6	11.1	11.0	.
2	6.3	10.1	5.7	.
3	8.4	10.7	3.1	.
4	2.9	1.8	9.0	.
5	5.7	10.6	10.8	.
6	7.6	5.5	8.3	.
7	5.7	8.2	8.4	.
8	10.9	10.3	6.7	.
9	10.0	11.3	11.3	.
10	9.7	11.2	11.3	.
11	9.5	11.1	11.3	.
12	9.1	8.9	11.0	.
13	6.9	4.7	7.5	.
14	6.9	11.2	7.3	.
15	9.8	11.2	11.1	.
16	7.8	3.4	6.0	.
17	10.1	7.9	7.4	.
18	1.0	7.3	4.0	.
19	2.9	4.8	1.2	.
20	8.9	10.3	5.4	.
21	0.0	11.1	0.0	.
22	8.5	10.8	5.4	.
23	5.1	11.2	0.0	.
24	10.0	10.6	6.9	.
25	10.0	11.1	10.9	.
26	10.7	1.6	10.9	.
27	7.0	10.6	10.9	.
28	6.5	8.8	7.1	.
29	6.3	10.2	7.7	.
30	9.1	10.0	10.8	.
31	7.0	10.4	10.2	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	228.9	278.0	238.6	.
Daily Means	7.4	9.0	7.7	.
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: 2017		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	10.1	9.8	8.1	9.2
2	8.7	6.7	5.7	7.3
3	7.3	8.6	8.8	7.8
4	7.2	7.0	11.4	11.4
5	4.5	8.8	9.5	9.4
6	10.3	9.5	10.7	11.5
7	5.4	4.7	3.2	10.8
8	10.1	8.0	7.6	2.1
9	10.9	5.4	11.1	10.4
10	10.7	7.4	11.5	10.8
11	9.9	6.7	11.8	11.0
12	9.6	5.6	11.6	11.2
13	9.6	3.1	4.9	10.3
14	9.9	3.9	7.6	7.8
15	8.4	7.7	10.3	8.7
16	8.5	9.5	0.7	10.8
17	8.8	9.9	3.3	10.8
18	8.9	1.0	3.0	10.4
19	8.7	5.9	1.8	10.5
20	6.2	4.6	10.3	10.6
21	9.0	3.5	3.2	10.7
22	8.7	1.2	0.0	10.4
23	8.7	0.0	0.0	9.4
24	0.0	0.3	0.1	0.0
25	7.8	7.0	9.0	7.5
26	8.3	6.0	8.4	3.1
27	9.1	6.8	8.9	5.4
28	8.8	8.4	10.4	10.1
29	9.0	8.5	7.1	7.7
30	8.8	6.7	10.6	9.4
31	9.0	6.0	9.2	10.0
TT Monthly Totals				
Daily Means				
SS Monthly Totals	260.9	188.2	219.8	276.5
Daily Means	8.4	6.1	7.1	8.9
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: MARCH		Year: 2017		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	.	6.0	.	5.7
2	.	11.0	.	9.7
3	.	11.9	.	11.4
4	.	11.5	.	10.4
5	.	11.8	.	8.9
6	.	11.5	.	10.7
7	.	10.1	.	2.0
8	.	2.3	.	4.1
9	.	9.1	.	6.5
10	.	10.6	.	2.9
11	.	10.7	.	5.6
12	.	11.8	.	7.4
13	.	10.1	.	11.3
14	.	6.7	.	8.8
15	.	10.3	.	10.7
16	.	10.4	.	10.3
17	.	8.6	.	11.0
18	.	7.7	.	6.0
19	.	10.2	.	9.0
20	.	9.6	.	10.9
21	.	9.7	.	6.9
22	.	0.1	.	9.4
23	.	0.0	.	10.5
24	.	1.9	.	4.5
25	.	3.3	.	1.4
26	.	0.0	.	3.8
27	.	6.8	.	7.5
28	.	9.4	.	7.2
29	.	0.7	.	2.9
30	.	8.0	.	5.1
31	.	10.1	.	5.7
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	241.9	.	228.2
Daily Means	.	7.8	.	7.4
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: MARCH

Year: 2017

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	2.6	4.4	11.5	
2	5.0	5.8	3.0	
3	10.3	3.0	7.2	
4	8.0	9.7	11.2	
5	7.3	7.0	8.2	
6	9.7	9.6	6.7	
7	1.3	0.3	0.2	
8	5.1	4.7	0.0	
9	1.8	7.6	0.7	
10	1.5	2.7	0.0	
11	4.4	7.5	1.8	
12	2.6	4.4	0.4	
13	6.6	8.8	10.5	
14	4.2	7.9	2.1	
15	10.4	10.1	2.8	
16	10.2	7.6	5.1	
17	7.3	9.6	7.1	
18	3.9	8.4	0.2	
19	3.0	5.6	7.7	
20	9.1	5.1	5.8	
21	8.8	8.6	0.8	
22	7.4	8.3	0.8	
23	3.9	5.0	4.0	
24	1.7	9.0	2.2	
25	0.8	7.1	10.5	
26	4.3	0.1	1.2	
27	7.7	3.2	3.4	
28	2.0	0.2	5.3	
29	2.6	0.7	9.4	
30	5.1	0.0	9.8	
31	8.0	0.0	9.4	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	166.6	172.0	149.0	
Daily Means	5.4	5.5	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: APRIL		Year: 2017		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	10.5	10.2	.	10.6	
2	10.3	11.3	.	10.4	
3	10.4	10.0	.	8.8	
4	10.9	10.2	.	8.7	
5	10.7	10.3	.	9.8	
6	10.6	7.9	.	10.4	
7	10.2	9.9	.	9.7	
8	10.4	10.0	.	10.4	
9	10.5	10.2	.	10.3	
10	10.8	10.2	.	10.5	
11	10.9	10.2	.	10.1	
12	10.3	10.2	.	10.6	
13	10.2	10.4	.	9.7	
14	10.2	10.3	.	8.1	
15	10.0	10.3	.	9.3	
16	6.0	10.4	.	9.0	
17	6.1	9.6	.	6.8	
18	9.0	8.7	.	2.0	
19	10.5	8.4	.	10.6	
20	10.7	10.7	.	10.1	
21	10.6	10.5	.	10.9	
22	9.5	10.5	.	7.8	
23	6.7	8.2	.	9.7	
24	5.0	4.8	.	4.0	
25	2.8	6.8	.	7.1	
26	3.4	3.3	.	8.4	
27	6.7	7.7	.	8.1	
28	8.6	10.1	.	10.6	
29	3.8	9.3	.	6.8	
30	4.2	3.9	.	7.1	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	260.5	274.5	.	266.4	
Daily Means	8.7	9.2	.	8.9	
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: APRIL		Year: 2017		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	5.3	7.5	8.7	.
2	10.4	9.2	10.8	.
3	4.8	9.9	8.7	.
4	5.2	8.4	4.2	.
5	10.3	10.1	10.5	.
6	5.2	10.0	6.4	.
7	6.4	7.6	9.9	.
8	8.7	9.7	6.7	.
9	10.2	7.8	10.4	.
10	10.3	8.2	10.6	.
11	9.7	9.7	10.3	.
12	10.2	7.0	9.3	.
13	10.0	2.5	9.9	.
14	8.2	7.8	9.9	.
15	9.0	8.5	8.1	.
16	1.6	9.4	1.5	.
17	2.4	7.0	0.0	.
18	7.7	10.3	8.8	.
19	9.9	8.4	9.4	.
20	10.3	3.1	8.2	.
21	6.3	4.0	10.2	.
22	7.3	9.1	9.6	.
23	3.0	9.6	9.5	.
24	9.2	7.1	10.0	.
25	9.8	9.2	9.9	.
26	9.7	8.4	10.1	.
27	7.7	9.7	9.3	.
28	7.2	7.4	7.0	.
29	4.8	8.0	3.9	.
30	6.2	6.6	2.8	.
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	227.0	241.2	244.6	.
Daily Means	7.6	8.0	8.2	.
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: 2017		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	7.3	8.1	8.3	6.0
2	8.8	8.2	10.5	9.6
3	6.1	0.5	4.5	8.0
4	8.0	2.4	9.3	6.0
5	8.5	2.5	10.1	7.9
6	7.0	4.9	8.3	.
7	2.8	2.8	8.2	7.5
8	8.0	5.2	10.5	8.2
9	8.6	4.4	10.1	6.5
10	8.8	8.0	10.3	9.2
11	9.0	7.8	2.1	6.9
12	8.2	8.0	6.2	9.0
13	8.4	1.5	10.0	7.8
14	6.4	3.4	6.5	8.3
15	3.1	3.8	7.4	6.8
16	1.1	3.4	0.5	1.1
17	7.7	7.5	6.9	8.2
18	8.5	7.7	7.0	8.6
19	3.3	0.0	0.9	0.7
20	0.0	4.0	0.0	0.0
21	4.1	8.4	9.4	5.9
22	7.5	6.6	9.1	9.4
23	6.3	4.7	8.5	1.4
24	2.4	3.9	2.2	0.1
25	8.2	1.7	7.6	6.9
26	7.8	1.2	9.2	8.5
27	8.2	2.1	8.8	7.1
28	8.3	3.2	8.6	6.5
29	8.2	5.4	9.2	5.6
30	8.1	6.0	3.1	5.2
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	198.7	137.3	213.3	.
Daily Means	6.6	4.6	7.1	6.3
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: 2017		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	.	4.5	.	3.8
2	.	5.6	.	2.4
3	.	7.6	.	3.0
4	.	7.6	.	2.0
5	.	7.6	.	2.3
6	.	4.9	.	0.0
7	.	5.1	.	1.3
8	.	7.8	.	5.6
9	.	9.6	.	7.0
10	.	10.0	.	3.0
11	.	10.0	.	8.5
12	.	6.1	.	6.8
13	.	0.0	.	0.9
14	.	3.8	.	2.8
15	.	9.4	.	6.7
16	.	2.7	.	8.4
17	.	6.5	.	9.7
18	.	5.3	.	4.7
19	.	0.0	.	1.3
20	.	3.3	.	2.1
21	.	7.9	.	4.3
22	.	9.0	.	4.1
23	.	7.7	.	2.7
24	.	0.1	.	3.0
25	.	7.1	.	4.0
26	.	8.8	.	0.1
27	.	8.3	.	0.0
28	.	9.1	.	6.4
29	.	9.3	.	3.0
30	.	9.4	.	6.6
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	194.1	.	116.5
Daily Means	.	6.5	.	3.9
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: APRIL		Year: 2017		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	7.4	4.4	7.4	
2	2.4	1.9	0.0	
3	7.3	4.0	0.0	
4	1.7	6.7	0.0	
5	1.4	4.2	8.2	
6	0.0	1.4	9.8	
7	4.9	0.0	8.9	
8	6.4	2.8	0.6	
9	8.8	3.4	4.7	
10	0.0	6.5	6.0	
11	8.1	8.5	7.9	
12	7.7	5.8	7.2	
13	8.5	6.9	7.7	
14	6.7	7.4	1.4	
15	6.2	8.1	9.2	
16	8.5	7.4	7.8	
17	8.7	7.1	0.0	
18	5.6	1.6	0.1	
19	0.2	7.9	4.4	
20	2.1	4.6	3.0	
21	5.1	5.6	1.5	
22	3.5	7.2	0.0	
23	1.1	0.9	5.1	
24	3.8	2.8	0.0	
25	1.2	2.1	6.1	
26	2.9	4.8	4.1	
27	0.0	3.4	1.8	
28	4.7	2.8	5.2	
29	0.0	4.0	5.4	
30	5.6	0.1	0.6	
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	130.5	134.3	124.1	
Daily Means	4.4	4.5	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: MAY		Year: 2017		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	5.1	.	7.8	
2	6.0	8.8	.	7.3	
3	4.5	6.4	.	10.1	
4	5.8	8.3	.	9.0	
5	10.3	9.9	.	9.8	
6	9.9	7.6	.	11.3	
7	9.9	3.6	.	6.6	
8	10.2	11.2	.	9.9	
9	10.1	10.3	.	8.3	
10	7.6	6.1	.	2.4	
11	7.6	6.5	.	6.4	
12	9.8	10.1	.	7.1	
13	9.0	9.7	.	9.8	
14	4.6	5.5	.	6.1	
15	2.7	4.8	.	0.0	
16	4.9	8.9	.	8.3	
17	4.3	9.7	.	9.5	
18	5.9	7.0	.	9.9	
19	2.0	9.0	.	9.5	
20	6.0	5.7	.	9.5	
21	2.6	2.5	.	5.6	
22	5.3	0.0	.	0.1	
23	2.5	4.9	.	9.2	
24	9.8	0.1	.	9.0	
25	9.4	4.9	.	6.6	
26	6.9	3.1	.	0.7	
27	6.0	3.1	.	8.1	
28	0.0	2.1	.	8.4	
29	0.0	0.0	.	7.4	
30	0.4	7.4	.	9.6	
31	3.1	5.4	.	7.8	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	183.2	187.7	.	231.1	
Daily Means	5.9	6.1	.	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: MAY		Year: 2017		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	1.9	5.1	2.4	.
2	6.4	9.4	8.8	.
3	9.3	0.3	8.9	.
4	3.9	7.6	1.9	.
5	3.0	4.3	0.0	.
6	8.4	2.5	6.7	.
7	3.3	7.5	2.9	.
8	9.8	6.6	9.0	.
9	6.2	8.4	4.0	.
10	3.9	8.7	5.7	.
11	1.3	2.2	0.0	.
12	0.8	10.0	0.0	.
13	9.8	5.9	9.5	.
14	10.9	4.7	5.7	.
15	0.0	4.9	2.8	.
16	0.2	8.4	0.0	.
17	4.1	9.4	2.2	.
18	7.5	9.3	4.1	.
19	9.5	8.0	9.7	.
20	9.5	6.5	9.7	.
21	9.4	7.9	9.8	.
22	0.7	6.4	4.8	.
23	8.4	8.7	4.7	.
24	8.1	8.9	0.0	.
25	9.2	5.2	8.9	.
26	9.3	7.9	7.1	.
27	9.4	2.4	9.2	.
28	6.5	8.8	6.8	.
29	6.8	8.1	6.0	.
30	9.3	8.4	8.8	.
31	9.4	5.0	9.2	.
TT Monthly Totals				
Daily Means				
SS Monthly Totals	196.2	207.4	169.3	.
Daily Means	6.3	6.7	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: MAY

Year: 2017

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	4.5	1.4	0.0	0.0
2	2.4	4.0	5.6	0.0
3	7.9	8.0	7.6	4.5
4	7.5	5.3	7.2	6.9
5	7.2	0.2	0.0	7.4
6	2.9	2.6	0.1	2.9
7	1.3	5.9	0.0	0.0
8	5.5	4.3	5.5	6.2
9	1.1	3.4	1.0	4.9
10	0.3	0.1	2.0	0.0
11	0.0	3.4	0.0	0.0
12	2.1	7.5	2.9	8.9
13	6.2	1.6	3.9	1.0
14	0.6	4.3	4.2	4.1
15	4.4	3.4	3.1	2.5
16	0.0	2.1	2.9	0.6
17	0.9	5.3	0.0	0.0
18	0.6	5.1	2.7	2.6
19	7.5	6.6	7.5	3.1
20	7.3	3.2	7.1	5.6
21	2.9	1.3	3.0	2.5
22	0.0	4.0	0.8	0.0
23	0.0	1.7	0.0	0.0
24	0.0	4.8	0.6	0.0
25	0.2	6.9	5.3	6.8
26	4.4	2.7	6.9	6.4
27	7.0	3.7	6.2	8.5
28	3.3	1.6	4.4	5.3
29	5.6	5.9	3.4	5.1
30	5.1	1.4	6.1	8.0
31	6.7	2.1	6.1	3.7
TT Monthly Totals				
Daily Means				
SS Monthly Totals	105.4	113.8	106.1	107.5
Daily Means	3.4	3.7	3.4	3.5
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: MAY		Year: 2017		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	.	2.8	.	1.5
2	.	3.2	.	5.8
3	.	7.4	.	2.6
4	.	4.6	.	1.3
5	.	0.0	.	0.9
6	.	0.0	.	0.0
7	.	7.9	.	1.9
8	.	7.0	.	1.0
9	.	8.5	.	6.0
10	.	1.6	.	1.1
11	.	1.4	.	0.5
12	.	7.7	.	1.4
13	.	0.0	.	0.0
14	.	7.9	.	.
15	.	7.1	.	3.5
16	.	2.8	.	0.6
17	.	6.2	.	6.3
18	.	2.1	.	6.7
19	.	8.4	.	0.3
20	.	7.0	.	0.0
21	.	2.0	.	5.3
22	.	7.5	.	2.7
23	.	8.5	.	0.9
24	.	8.2	.	0.0
25	.	8.7	.	0.0
26	.	8.7	.	0.0
27	.	8.5	.	0.0
28	.	2.8	.	0.0
29	.	8.6	.	0.0
30	.	4.7	.	0.2
31	.	3.7	.	0.0
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	165.5	.	.
Daily Means	.	5.3	.	1.7
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: 2017

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	2.0	4.5	0.3	
2	5.9	1.6	0.6	
3	0.0	0.0	0.0	
4	0.0	4.3	6.3	
5	0.1	0.0	0.0	
6	0.0	3.0	0.0	
7	3.5	1.5	0.0	
8	4.6	2.6	5.9	
9	8.2	1.0	4.8	
10	0.9	3.4	4.8	
11	2.3	1.1	0.9	
12	0.2	0.1	6.7	
13	0.0	0.0	0.0	
14	4.7	4.1	3.2	
15	1.6	0.0	2.5	
16	0.2	0.0	1.9	
17	5.9	0.8	6.8	
18	5.1	5.5	1.2	
19	2.6	1.6	1.0	
20	0.0	0.0	6.8	
21	3.7	2.2	1.7	
22	5.3	4.1	5.8	
23	6.2	1.9	4.9	
24	2.3	4.7	2.1	
25	0.3	3.4	5.6	
26	2.5	4.9	1.7	
27	5.7	3.8	0.0	
28	4.7	0.0	6.9	
29	3.4	0.0	0.0	
30	0.0	0.7	0.0	
31	0.7	1.6	0.2	
TT Monthly Totals				
Daily Means				
SS Monthly Totals	82.6	62.4	82.6	
Daily Means	2.7	2.0	2.7	
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: 2017		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	4.8	3.7	.	6.7
2	1.1	3.5	.	4.8
3	4.9	5.4	.	6.0
4	6.6	3.3	.	7.3
5	1.8	0.1	.	2.3
6	3.1	2.6	.	0.0
7	0.0	0.0	.	1.5
8	4.2	7.3	.	8.8
9	2.0	3.7	.	1.9
10	5.3	2.0	.	5.6
11	4.7	7.2	.	6.0
12	3.8	2.8	.	4.4
13	7.8	9.4	.	5.8
14	8.3	9.3	.	8.8
15	6.5	9.3	.	9.2
16	4.5	6.4	.	7.1
17	3.3	5.8	.	5.3
18	5.6	0.4	.	0.0
19	1.2	0.0	.	5.8
20	11.1	9.2	.	6.6
21	6.5	8.1	.	6.3
22	2.8	4.1	.	1.3
23	5.2	5.8	.	6.2
24	0.0	0.5	.	2.9
25	2.0	8.4	.	9.4
26	3.7	7.0	.	8.8
27	4.8	9.0	.	8.2
28	0.0	0.0	.	0.5
29	0.7	0.0	.	0.0
30	0.9	0.0	.	4.5
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	117.2	134.3	.	152.0
Daily Means	3.9	4.5	.	5.1
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: JUNE		Year: 2017		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	6.1	9.5	9.1	.
2	0.6	4.2	0.0	.
3	5.7	3.9	4.2	.
4	7.8	6.9	9.2	.
5	1.4	6.3	8.6	.
6	1.1	8.0	8.9	.
7	1.8	6.2	1.4	.
8	8.3	4.5	9.2	.
9	9.3	7.2	9.4	.
10	8.1	2.2	8.2	.
11	3.7	5.0	0.0	.
12	3.0	3.4	0.0	.
13	7.6	7.2	5.7	.
14	3.8	5.1	2.5	.
15	5.7	2.4	4.6	.
16	6.7	1.9	4.0	.
17	9.1	8.3	4.2	.
18	7.6	7.8	8.3	.
19	3.6	7.9	8.6	.
20	1.0	7.2	0.0	.
21	6.2	3.9	0.0	.
22	6.1	6.4	4.8	.
23	8.8	7.1	3.3	.
24	4.9	5.9	2.4	.
25	9.2	0.5	3.0	.
26	2.3	5.1	0.0	.
27	9.2	4.6	9.5	.
28	5.5	6.9	8.5	.
29	7.8	6.6	9.0	.
30	8.2	2.2	7.3	.
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	170.2	164.3	153.9	.
Daily Means	5.7	5.5	5.1	.
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: JUNE		Year: 2017		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	5.5	3.0	5.2	0.0
2	1.0	3.5	0.7	0.0
3	8.7	5.0	6.5	7.1
4	6.5	2.1	6.9	3.9
5	0.6	4.1	5.9	5.7
6	7.0	2.0	6.1	4.7
7	0.0	3.1	0.0	0.0
8	0.8	5.7	2.8	1.2
9	6.4	1.3	6.5	6.1
10	6.7	3.9	6.2	4.9
11	7.0	3.9	6.8	2.3
12	6.4	0.0	7.0	0.0
13	0.7	0.3	0.0	0.3
14	0.0	1.2	0.7	0.0
15	0.1	0.5	4.7	8.0
16	0.9	1.3	0.0	1.2
17	0.0	3.8	5.6	4.4
18	6.3	2.7	6.2	7.2
19	0.0	2.0	0.0	0.0
20	6.3	0.0	0.0	0.0
21	0.0	0.8	0.0	0.0
22	0.0	1.5	0.0	0.0
23	0.0	0.0	0.0	0.7
24	0.0	0.0	0.0	0.0
25	1.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	5.3	2.5	6.7	5.6
28	6.6	3.7	6.1	0.1
29	6.7	4.7	5.8	4.8
30	6.0	1.8	6.0	4.8
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	96.5	64.4	102.4	73.0
Daily Means	3.2	2.1	3.4	2.4
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: JUNE		Year: 2017		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	.	7.1	.	4.9
2	.	0.0	.	0.0
3	.	2.8	.	0.0
4	.	7.0	.	0.1
5	.	8.6	.	0.0
6	.	7.6	.	0.0
7	.	3.5	.	3.5
8	.	0.2	.	0.0
9	.	2.3	.	0.0
10	.	6.6	.	2.6
11	.	7.6	.	0.7
12	.	6.8	.	0.0
13	.	0.0	.	0.4
14	.	0.0	.	0.0
15	.	0.0	.	0.0
16	.	0.0	.	0.0
17	.	4.8	.	5.8
18	.	8.5	.	0.0
19	.	0.0	.	2.3
20	.	0.0	.	0.0
21	.	0.0	.	0.0
22	.	0.1	.	3.6
23	.	5.7	.	1.2
24	.	0.0	.	0.0
25	.	0.2	.	1.3
26	.	1.5	.	.
27	.	2.7	.	1.3
28	.	2.0	.	0.0
29	.	1.5	.	0.6
30	.	5.2	.	0.6
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	.	92.3	.	.
Daily Means	.	3.1	.	1.0
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: 2015		Country: CHILE
Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station				
Date	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
1	2.5	1.4	0.0	
2	0.0	1.4	3.1	
3	1.3	2.5	5.5	
4	2.9	3.4	2.3	
5	0.3	0.7	3.5	
6	0.0	0.9	1.4	
7	3.4	1.9	4.6	
8	0.0	1.0	1.8	
9	0.1	1.2	5.9	
10	1.0	1.2	3.8	
11	2.1	0.6	1.3	
12	0.0	0.5	0.0	
13	0.0	1.0	0.0	
14	0.0	0.0	6.2	
15	0.0	0.9	0.0	
16	0.5	0.0	0.0	
17	1.7	1.6	0.3	
18	2.8	1.5	4.0	
19	5.5	3.2	6.5	
20	0.0	0.0	3.6	
21	0.0	0.0	5.9	
22	1.1	0.0	5.3	
23	3.3	2.9	5.6	
24	0.0	0.0	5.9	
25	0.0	0.0	6.0	
26	0.0	0.0	3.8	
27	0.0	1.1	2.3	
28	0.8	0.0	5.4	
29	0.0	0.8	5.2	
30	0.0	0.0	5.8	
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	29.3	29.7	105.0	
Daily Means	1.0	1.0	3.5	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL	CAMPBELL	CAMPBELL	
	STOKES	STOKES	STOKES	