



# Informe Solarimétrico II Semestre 2017

Oficina de Servicios Climatológicos



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: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	7.50	.	14.78	10.58
2	6.11	.	13.99	10.89
3	8.29	.	10.88	10.51
4	6.66	.	15.78	1.64
5	4.28	.	10.84	4.27
6	10.49	.	13.04	1.80
7	9.81	.	15.27	7.44
8	10.28	.	14.68	9.81
9	8.69	.	15.45	4.67
10	12.58	.	15.25	8.38
11	14.46	.	15.54	7.49
12	6.70	.	15.22	11.27
13	6.18	.	15.42	8.96
14	7.66	.	6.72	5.67
15	8.72	.	5.33	7.79
16	6.23	.	14.67	6.40
17	7.32	.	16.57	10.56
18	10.77	.	15.38	12.01
19	8.18	.	14.14	11.70
20	6.27	.	11.07	11.58
21	12.40	.	6.97	11.78
22	14.75	.	16.52	11.82
23	15.17	.	16.70	1.68
24	10.80	.	11.44	2.58
25	6.65	.	7.97	8.29
26	6.97	.	13.33	11.11
27	6.47	.	4.65	12.20
28	4.74	.	11.62	11.78
29	10.28	.	11.60	10.33
30	14.65	.	16.05	8.95
31	9.95	.	15.36	12.14
<b>TT Monthly Totals</b>	<b>280.01</b>	.	<b>402.22</b>	<b>266.11</b>
Daily Means	<b>9.03</b>	.	<b>10.81</b>	<b>8.58</b>
<b>SS Monthly Totals</b>				
Daily Means				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: JULY

Year: 2017

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S		
Longitude	73°05' W	72°07' W		
Elevation	85 m	310 m		
Station	PUERTO MONTT	COYHAIQUE		
Date				
1	.	3.09		
2	.	2.05		
3	.	1.56		
4	.	3.82		
5	.	2.41		
6	.	1.84		
7	.	4.34		
8	.	2.01		
9	.	2.92		
10	.	2.92		
11	.	2.73		
12	.	1.79		
13	.	1.24		
14	.	2.53		
15	.	4.91		
16	.	4.55		
17	.	2.82		
18	.	2.50		
19	.	3.81		
20	.	3.93		
21	.	1.33		
22	.	1.30		
23	.	3.69		
24	.	3.73		
25	.	5.50		
26	.	0.52		
27	.	3.46		
28	.	4.78		
29	.	5.69		
30	.	4.64		
31	.	5.56		
<b>TT Monthly Totals</b>	.	<b>97.99</b>		
<b> Daily Means</b>	.	<b>3.16</b>		
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: AUGUST

Year: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	12.31	.	10.81	6.49
2	13.34	.	18.40	2.16
3	14.48	.	14.09	12.88
4	11.62	.	14.93	13.29
5	9.22	.	16.18	11.42
6	8.92	.	16.80	4.13
7	9.92	.	14.81	8.42
8	10.93	.	18.14	6.81
9	13.98	.	17.66	11.98
10	12.32	.	14.57	1.85
11	10.62	.	13.59	4.51
12	13.85	.	18.84	3.00
13	12.02	.	19.88	14.14
14	9.13	.	19.10	4.76
15	13.41	.	17.83	15.07
16	13.18	.	18.47	10.84
17	15.01	.	18.94	15.01
18	13.51	.	18.39	15.07
19	12.28	.	18.53	6.19
20	15.89	.	19.95	8.85
21	16.90	.	16.59	16.11
22	18.37	.	13.43	16.07
23	15.12	.	19.12	9.01
24	12.43	.	18.93	15.01
25	10.84	.	17.05	13.50
26	12.81	.	20.57	14.39
27	12.34	.	18.80	8.76
28	12.32	.	19.59	12.89
29	12.35	.	17.80	8.17
30	15.09	.	19.38	17.81
31	14.21	.	18.25	17.64
<b>TT Monthly Totals</b>	<b>398.72</b>	.	<b>539.42</b>	<b>326.21</b>
Daily Means	<b>12.86</b>	.	<b>17.60</b>	<b>10.52</b>
<b>SS Monthly Totals</b>				
Daily Means				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: AUGUST

Year: 2017

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S		
Longitude	73°05' W	72°07' W		
Elevation	85 m	310 m		
Station	PUERTO MONTT	COYHAIQUE		
Date				
1	.	6.07		
2	.	5.18		
3	.	3.94		
4	.	4.96		
5	.	4.41		
6	.	5.05		
7	.	7.09		
8	.	1.82		
9	.	4.98		
10	.	4.95		
11	.	4.73		
12	.	5.00		
13	.	3.60		
14	.	0.89		
15	.	6.31		
16	.	2.45		
17	.	1.79		
18	.	6.07		
19	.	4.14		
20	.	3.65		
21	.	1.13		
22	.	3.69		
23	.	3.44		
24	.	6.03		
25	.	7.75		
26	.	9.10		
27	.	7.61		
28	.	8.53		
29	.	8.80		
30	.	6.52		
31	.	6.29		
<b>TT Monthly Totals</b>	.	<b>155.96</b>		
<b> Daily Means</b>	.	<b>5.03</b>		
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of</b>	<b>PYRANOMETER</b>	<b>PYRANOMETER</b>	<b>PYRANOMETER</b>	<b>PYRANOMETER</b>
<b>Instruments</b>	<b>PSP EPPLEY</b>	<b>PSP EPPLEY</b>	<b>PSP EPPLEY</b>	<b>PSP EPPLEY</b>

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

Month: SEPTEMBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	17.73	.	17.60	17.51
2	12.03	.	15.24	9.32
3	10.62	.	8.64	16.46
4	13.08	.	16.02	4.51
5	8.66	.	21.46	18.55
6	13.65	.	13.01	12.00
7	17.08	.	15.78	15.61
8	18.35	.	19.67	17.92
9	13.06	.	15.78	4.92
10	20.60	.	23.49	5.22
11	9.59	.	22.28	8.91
12	13.74	.	19.22	6.78
13	14.68	.	22.36	18.61
14	10.27	.	22.07	15.45
15	10.20	.	23.62	13.81
16	16.65	.	23.83	20.43
17	21.48	.	23.21	21.66
18	19.19	.	22.77	21.47
19	15.06	.	12.27	17.25
20	14.12	.	18.48	6.24
21	11.01	.	20.45	17.26
22	14.74	.	20.43	21.24
23	12.11	.	23.61	21.48
24	20.25	.	23.61	21.63
25	20.33	.	21.61	18.39
26	16.88	.	17.15	19.22
27	21.98	.	24.47	13.68
28	23.45	.	25.41	1.67
29	23.01	.	19.43	9.11
30	14.48	.	20.73	14.61
31				
<b>TT Monthly Totals</b>	<b>468.08</b>	.	<b>593.68</b>	<b>430.94</b>
<b> Daily Means</b>	<b>15.65</b>	.	<b>20.03</b>	<b>14.36</b>
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: SEPTEMBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S		
Longitude	73°05' W	72°07' W		
Elevation	85 m	310 m		
Station	PUERTO MONTT	COYHAIQUE		
Date				
1	.	5.54		
2	.	5.94		
3	.	10.03		
4	.	7.19		
5	.	7.73		
6	.	10.12		
7	.	7.88		
8	.	9.35		
9	.	13.12		
10	.	7.71		
11	.	11.60		
12	.	9.17		
13	.	7.08		
14	.	11.33		
15	.	7.74		
16	.	11.82		
17	.	14.11		
18	.	13.97		
19	.	7.22		
20	.	9.24		
21	.	8.69		
22	.	8.74		
23	.	13.28		
24	.	6.71		
25	.	12.68		
26	.	16.65		
27	.	16.27		
28	.	10.53		
29	.	5.48		
30	.	9.46		
31				
TT Monthly Totals	.	296.41		
Daily Means	.	9.88		
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: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	19.79	.	19.67	4.04
2	22.73	.	26.56	21.13
3	19.89	.	25.92	11.66
4	23.82	.	24.58	20.57
5	21.44	.	25.79	11.38
6	18.83	.	24.52	19.39
7	18.72	.	25.14	24.56
8	17.41	.	25.32	12.18
9	19.54	.	26.00	19.22
10	15.34	.	24.83	22.55
11	15.09	.	18.82	23.95
12	16.92	.	20.62	16.74
13	21.39	.	23.22	25.77
14	20.04	.	23.32	25.60
15	10.12	.	23.27	26.47
16	21.57	.	24.08	25.64
17	24.04	.	21.81	21.49
18	19.29	.	12.31	15.45
19	17.05	.	25.98	18.63
20	13.80	.	23.76	26.12
21	23.37	.	24.25	5.96
22	23.27	.	28.28	26.37
23	22.64	.	26.80	25.15
24	21.33	.	28.69	26.17
25	18.52	.	26.77	27.33
26	18.92	.	11.68	27.12
27	19.54	.	22.07	25.46
28	25.90	.	27.17	26.75
29	23.99	.	25.12	24.29
30	23.44	.	27.97	11.98
31	26.59	.	27.89	28.54
<b>TT Monthly Totals</b>	<b>624.34</b>	.	<b>742.20</b>	<b>647.64</b>
Daily Means	<b>20.14</b>	.	<b>23.94</b>	<b>20.89</b>
<b>SS Monthly Totals</b>				
Daily Means				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: OCTOBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S		
Longitude	73°05' W	72°07' W		
Elevation	85 m	310 m		
Station	PUERTO MONTT	COYHAIQUE		
Date				
1	.	16.20		
2	.	9.62		
3	.	8.18		
4	.	12.90		
5	.	9.76		
6	.	10.50		
7	.	8.15		
8	.	4.97		
9	.	15.12		
10	.	14.27		
11	.	18.66		
12	.	12.69		
13	.	7.48		
14	.	20.21		
15	.	18.50		
16	.	15.81		
17	.	15.32		
18	.	14.24		
19	.	12.96		
20	.	14.22		
21	.	15.20		
22	.	10.22		
23	.	10.22		
24	.	12.35		
25	.	15.89		
26	.	13.93		
27	.	10.77		
28	.	11.69		
29	.	11.78		
30	.	20.03		
31	.	11.99		
<b>TT Monthly Totals</b>	.	<b>403.84</b>		
<b> Daily Means</b>	.	<b>13.03</b>		
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: NOVEMBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	20.30	.	25.75	17.88
2	23.15	.	23.55	6.80
3	19.38	.	28.27	19.96
4	17.35	.	24.98	21.12
5	18.56	.	26.77	9.87
6	21.79	.	22.88	27.17
7	23.84	.	13.01	14.93
8	24.45	.	21.26	15.10
9	16.91	.	22.53	23.27
10	19.17	.	19.64	28.64
11	17.93	.	28.21	29.52
12	20.31	.	24.24	29.66
13	21.02	.	25.33	28.82
14	20.31	.	28.08	28.67
15	15.09	.	28.04	28.57
16	18.08	.	18.38	25.49
17	24.83	.	23.43	29.64
18	27.08	.	30.75	27.97
19	27.51	.	29.84	29.31
20	24.68	.	29.68	29.30
21	25.01	.	29.38	26.04
22	23.12	.	28.78	29.64
23	18.92	.	24.24	31.34
24	22.52	.	24.92	30.85
25	25.69	.	28.54	31.34
26	27.26	.	30.08	31.21
27	27.35	.	30.38	31.22
28	26.98	.	30.79	30.08
29	24.60	.	31.87	30.58
30	23.73	.	29.14	30.14
31		.		
<b>TT Monthly Totals</b>	<b>666.89</b>	.	<b>782.75</b>	<b>774.11</b>
<b> Daily Means</b>	<b>22.23</b>	.	<b>26.09</b>	<b>25.80</b>
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: NOVEMBER		Year: 2017		Country: CHILE	
Daily Totals					
Latitude	41°25' S	45°35' S			
Longitude	73°05' W	72°07' W			
Elevation	85 m	310 m			
Station	PUERTO MONTT	COYHAIQUE			
Date					
1	.	24.99			
2	.	22.23			
3	.	23.57			
4	.	21.10			
5	.	14.88			
6	.	11.86			
7	.	9.43			
8	.	22.27			
9	.	8.63			
10	.	22.39			
11	.	6.56			
12	.	18.74			
13	.	15.86			
14	.	18.91			
15	.	6.62			
16	.	17.71			
17	.	18.24			
18	.	9.24			
19	.	11.28			
20	.	15.80			
21	.	9.31			
22	.	17.87			
23	.	19.61			
24	.	10.06			
25	.	15.26			
26	.	17.07			
27	.	25.47			
28	.	26.48			
29	.	26.53			
30	.	24.86			
31					
<b>TT Monthly Totals</b>	.	<b>512.82</b>			
<b> Daily Means</b>	.	<b>17.09</b>			
<b>SS Monthly Totals</b>					
<b> Daily Means</b>					
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: DECEMBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	33°27' S
Longitude	70°19' W	68°54' W	70°26' W	70°42' W
Elevation	58 m	2270 m	135 m	520 m
Station	ARICA	CALAMA	ANTOFAGASTA	QUINTA NORMAL
Date				
1	26.89	.	.	30.59
2	26.54	.	.	25.82
3	26.95	.	.	28.94
4	23.71	.	.	29.65
5	22.90	.	.	30.43
6	17.12	.	.	30.62
7	24.67	.	.	30.18
8	22.47	.	.	30.97
9	25.70	.	.	31.20
10	23.42	.	.	31.32
11	26.57	.	.	31.48
12	27.44	.	.	29.31
13	26.87	.	.	18.64
14	25.95	.	.	29.45
15	23.10	.	.	31.07
16	26.62	.	.	31.37
17	16.01	.	.	22.87
18	25.72	.	.	31.39
19	24.64	.	.	27.46
20	26.13	.	.	31.11
21	24.70	.	.	30.75
22	22.38	.	.	30.84
23	26.76	.	.	31.12
24	26.73	.	.	30.96
25	17.11	.	.	31.09
26	24.76	.	.	30.79
27	27.52	.	.	30.61
28	20.37	.	.	32.21
29	21.47	.	.	32.29
30	24.50	.	.	32.26
31	.	.	.	.
<b>TT Monthly Totals</b>	.	.	.	.
<b> Daily Means</b>	<b>24.19</b>	.	.	<b>29.89</b>
<b>SS Monthly Totals</b>				
<b> Daily Means</b>				
<b>Types of Instruments</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>	<b>PYRANOMETER PSP EPPLEY</b>

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

Month: DECEMBER

Year: 2017

Country: CHILE

Daily Totals				
Latitude	41°25' S	45°35' S		
Longitude	73°05' W	72°07' W		
Elevation	85 m	310 m		
Station	PUERTO MONTT	COYHAIQUE		
Date				
1	.	21.08		
2	.	24.25		
3	.	26.31		
4	.	26.41		
5	.	26.19		
6	.	25.15		
7	.	20.16		
8	.	23.70		
9	.	23.84		
10	.	26.54		
11	.	26.61		
12	.	23.69		
13	.	8.69		
14	.	24.88		
15	.	25.03		
16	.	24.49		
17	.	24.59		
18	.	21.69		
19	.	12.87		
20	.	16.52		
21	.	16.55		
22	.	16.25		
23	.	25.10		
24	.	25.32		
25	.	18.49		
26	.	24.54		
27	.	24.69		
28	.	14.50		
29	.	21.76		
30	.	21.94		
31	.	18.22		
TT Monthly Totals	.	<b>680.06</b>		
Daily Means	.	<b>21.94</b>		
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: 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	0.5	0.3	11.2	7.3	
2	0.0	2.2	11.5	6.2	
3	0.0	3.8	11.6	4.3	
4	0.2	5.5	10.9	9.2	
5	0.0	5.7	11.3	3.9	
6	3.7	7.3	10.2	7.1	
7	3.1	3.3	9.2	8.5	
8	3.1	7.5	10.4	6.9	
9	3.5	0.8	11.4	7.6	
10	6.1	0.7	10.9	8.1	
11	9.6	3.7	11.6	8.3	
12	0.1	5.0	10.7	8.0	
13	0.0	4.5	10.5	7.3	
14	0.6	3.3	8.7	0.0	
15	3.4	0.0	5.5	1.0	
16	0.0	0.0	7.0	7.2	
17	2.1	7.4	10.4	9.0	
18	4.1	6.7	8.8	7.3	
19	0.3	5.5	11.6	6.2	
20	0.7	0.0	11.3	3.6	
21	4.6	2.1	11.4	0.0	
22	8.0	8.8	7.1	8.4	
23	8.5	8.9	6.6	9.3	
24	3.8	8.2	10.9	3.4	
25	0.4	0.0	10.5	1.6	
26	0.5	2.6	10.5	5.1	
27	0.0	0.0	11.6	0.0	
28	0.0	0.4	11.5	3.2	
29	3.5	0.0	11.5	4.5	
30	7.2	6.8	11.7	7.4	
31	7.2	6.8	11.7	7.4	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>84.8</b>	<b>117.8</b>	<b>319.7</b>	<b>177.3</b>	
<b> Daily Means</b>	<b>2.7</b>	<b>3.8</b>	<b>10.3</b>	<b>5.7</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: JULY	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	3.0	7.3	0.1	
2	5.3	8.6	4.2	
3	0.0	4.5	0.0	
4	9.0	8.5	7.7	
5	7.1	8.1	1.7	
6	3.2	9.1	3.9	
7	8.0	2.3	8.9	
8	6.4	8.3	8.0	
9	7.2	4.2	9.5	
10	6.4	4.5	7.7	
11	2.5	0.2	0.0	
12	5.6	8.1	0.0	
13	7.4	8.2	8.9	
14	0.1	3.5	7.4	
15	8.3	1.0	4.2	
16	9.2	8.7	9.2	
17	9.3	9.4	9.5	
18	5.2	7.9	9.4	
19	6.4	9.3	5.6	
20	0.2	3.4	0.0	
21	0.0	8.7	0.0	
22	5.4	7.0	0.0	
23	9.3	5.9	9.0	
24	9.5	4.4	9.4	
25	2.0	6.0	0.2	
26	0.0	4.6	7.4	
27	0.0	6.5	0.0	
28	3.9	7.8	5.1	
29	4.2	4.2	7.0	
30	6.6	6.1	5.4	
31	6.6	6.1	5.4	
<b>TT Monthly Totals</b>				
<b> Daily Means</b>				
<b>SS Monthly Totals</b>	<b>157.3</b>	<b>192.4</b>	<b>154.8</b>	<b>.</b>
<b> Daily Means</b>	<b>5.1</b>	<b>6.2</b>	<b>5.0</b>	<b>.</b>
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>

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

Month: JULY		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	6.9	0.3	6.1	4.7	
2	6.1	0.0	0.0	0.3	
3	0.0	6.4	0.0	0.0	
4	1.5	5.8	2.0	0.0	
5	0.0	0.0	0.0	0.0	
6	3.5	3.4	3.8	7.8	
7	6.2	3.1	5.2	7.8	
8	0.3	3.2	0.0	0.0	
9	3.7	5.7	1.0	0.2	
10	4.1	4.6	5.6	4.0	
11	6.6	6.5	5.8	7.8	
12	3.7	5.0	0.0	4.1	
13	1.3	6.5	0.6	0.0	
14	4.4	2.9	6.0	5.4	
15	2.5	5.1	4.0	.	
16	6.7	6.2	6.4	5.3	
17	7.5	5.5	7.0	4.5	
18	7.7	7.0	7.1	5.4	
19	7.3	4.3	6.7	6.8	
20	7.3	7.2	6.0	6.6	
21	7.4	1.4	5.6	5.3	
22	0.0	3.1	0.0	0.0	
23	0.0	5.8	0.0	0.4	
24	4.1	6.9	6.5	2.9	
25	6.6	6.9	5.8	8.5	
26	7.3	3.4	7.4	7.1	
27	7.1	1.9	6.4	1.5	
28	5.7	5.6	5.7	7.0	
29	4.9	4.8	6.8	2.0	
30	7.2	5.9	6.8	4.0	
31	7.2	5.9	6.8	4.0	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	144.8	140.3	131.1	113.4	
Daily Means	4.7	4.5	4.2	3.8	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JULY	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	.	8.2	.	0.0	
2	.	0.0	.	0.2	
3	.	0.0	.	0.0	
4	.	0.3	.	3.4	
5	.	0.9	.	0.0	
6	.	2.3	.	1.8	
7	.	7.2	.	0.0	
8	.	0.1	.	0.6	
9	.	8.5	.	3.3	
10	.	8.7	.	0.0	
11	.	6.4	.	0.0	
12	.	0.5	.	0.6	
13	.	8.1	.	2.5	
14	.	0.4	.	0.0	
15	.	7.7	.	6.2	
16	.	7.4	.	3.8	
17	.	8.3	.	6.0	
18	.	7.5	.	0.0	
19	.	8.6	.	0.0	
20	.	7.1	.	2.6	
21	.	8.2	.	0.1	
22	.	0.0	.	0.0	
23	.	6.0	.	5.4	
24	.	8.9	.	0.2	
25	.	8.7	.	5.7	
26	.	7.8	.	6.2	
27	.	4.2	.	0.1	
28	.	4.9	.	5.3	
29	.	6.6	.	5.9	
30	.	9.0	.	8.2	
31	.	9.0	.	8.2	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	171.5	.	76.3	
<b> Daily Means</b>	.	5.5	.	2.5	
<b>Types of Instruments</b>	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: 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	1.6	0.7	1.1		
2	0.8	0.0	0.1		
3	0.2	0.0	1.1		
4	3.9	4.1	0.0		
5	0.0	1.2	0.0		
6	5.1	1.3	5.6		
7	3.1	3.8	0.0		
8	0.0	0.2	5.9		
9	5.5	2.3	5.2		
10	5.9	1.2	6.6		
11	0.6	0.4	3.8		
12	0.2	0.0	3.9		
13	1.8	0.0	2.5		
14	0.0	1.6	2.9		
15	5.9	0.0	4.5		
16	2.2	0.8	4.8		
17	6.0	1.2	1.1		
18	2.9	0.4	0.0		
19	0.0	1.9	2.6		
20	1.1	4.4	0.0		
21	0.2	0.0	1.2		
22	1.3	0.0	0.0		
23	3.6	3.4	4.6		
24	5.2	2.3	4.8		
25	5.8	3.8	4.8		
26	0.3	0.0	0.0		
27	0.2	1.4	2.1		
28	2.4	3.8	7.5		
29	8.0	4.9	4.2		
30	8.3	3.6	0.0		
31	8.3	3.6	0.0		
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>90.4</b>	<b>52.3</b>	<b>80.9</b>		
<b> Daily Means</b>	<b>2.9</b>	<b>1.7</b>	<b>2.6</b>		
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>		

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

Month: AUGUST		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	4.9	2.3	11.7	0.6	
2	5.7	7.2	11.4	10.0	
3	6.6	6.0	11.5	5.5	
4	4.3	6.4	11.7	5.7	
5	2.6	7.3	11.7	6.7	
6	2.5	5.3	11.7	7.4	
7	4.2	7.1	11.7	4.6	
8	3.8	5.5	11.6	8.5	
9	5.2	4.1	11.7	8.4	
10	4.8	4.3	11.6	5.8	
11	2.0	0.4	11.3	5.5	
12	3.7	10.0	11.7	9.0	
13	3.3	10.4	11.3	10.4	
14	2.7	2.8	.	10.0	
15	5.4	7.3	.	7.6	
16	5.6	8.5	11.3	8.3	
17	6.2	7.7	11.3	9.0	
18	5.5	2.4	.	7.8	
19	5.1	8.6	.	7.8	
20	6.7	9.8	.	9.0	
21	6.6	1.9	.	6.4	
22	10.6	8.1	.	3.5	
23	5.9	9.1	.	7.9	
24	4.1	3.3	.	7.0	
25	3.0	7.0	.	5.1	
26	3.0	5.5	.	9.0	
27	2.6	4.3	.	8.1	
28	3.4	4.8	.	7.8	
29	3.9	5.0	0.0	6.7	
30	5.6	1.8	0.0	6.5	
31	5.6	1.8	0.0	6.5	
TT Monthly Totals					
Daily Means					
SS Monthly Totals	145.1	176.0	.	222.1	
Daily Means	4.7	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: AUGUST

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	1.3	0.0	3.5	.
2	9.9	5.9	9.7	.
3	4.0	8.1	0.5	.
4	6.1	9.4	5.2	.
5	7.3	6.2	6.3	.
6	9.2	9.8	9.4	.
7	6.5	3.1	7.5	.
8	9.6	4.8	9.5	.
9	7.9	9.5	7.8	.
10	5.3	9.3	4.2	.
11	3.1	4.6	1.8	.
12	7.9	5.8	8.2	.
13	9.9	9.3	10.3	.
14	9.7	5.2	10.1	.
15	5.9	8.2	7.3	.
16	5.8	10.1	4.1	.
17	5.8	5.1	5.1	.
18	0.0	7.3	0.0	.
19	7.3	2.2	9.6	.
20	10.4	5.2	10.1	.
21	8.4	8.0	7.7	.
22	0.2	7.8	1.2	.
23	8.9	0.7	7.2	.
24	8.4	1.5	0.0	.
25	6.7	5.0	7.9	.
26	11.3	6.2	10.4	.
27	7.8	2.8	4.5	.
28	10.5	9.4	10.3	.
29	11.1	4.8	10.0	.
30	3.8	2.1	9.3	.
31	3.8	2.1	9.3	.
<b>TT Monthly Totals</b>				
<b> Daily Means</b>				
<b>SS Monthly Totals</b>	<b>213.8</b>	<b>179.5</b>	<b>208.0</b>	.
<b> Daily Means</b>	<b>6.9</b>	<b>5.8</b>	<b>6.7</b>	.
<b>Types of</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>
<b>Instruments</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>
	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>

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

Month: AUGUST

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	0.0	4.2	1.4	0.2
2	7.4	0.0	8.0	5.7
3	8.0	1.8	6.0	2.6
4	5.9	2.1	0.0	0.0
5	0.2	4.3	3.3	0.0
6	3.9	4.7	6.3	6.3
7	0.7	5.0	3.8	0.0
8	6.4	0.0	4.2	2.4
9	0.0	7.2	0.0	0.0
10	0.0	5.4	0.0	2.2
11	0.0	6.3	0.0	0.0
12	7.0	2.6	6.6	7.1
13	0.0	0.3	0.0	0.0
14	7.9	0.0	9.9	1.7
15	5.1	4.5	6.0	6.6
16	8.0	3.9	8.6	7.7
17	8.0	1.5	8.2	8.9
18	1.7	4.4	0.0	0.0
19	2.6	0.4	8.6	7.0
20	7.6	5.2	9.3	6.7
21	8.4	0.4	7.9	8.1
22	0.0	6.5	0.0	0.0
23	0.0	6.0	2.3	3.4
24	6.2	0.0	7.4	0.9
25	7.0	8.4	5.7	3.4
26	3.6	5.3	6.1	1.1
27	5.2	4.4	9.4	4.1
28	1.3	6.1	0.0	0.0
29	7.9	7.3	8.4	9.2
30	8.5	3.8	8.7	9.0
31	8.5	3.8	8.7	9.0
<b>TT Monthly Totals</b>				
<b> Daily Means</b>				
<b>SS Monthly Totals</b>	<b>137.0</b>	<b>115.8</b>	<b>154.8</b>	<b>113.3</b>
<b> Daily Means</b>	<b>4.4</b>	<b>3.7</b>	<b>5.0</b>	<b>3.7</b>
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>

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

Month: AUGUST		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	.	8.9	.	6.2	
2	.	9.0	.	2.9	
3	.	8.7	.	5.1	
4	.	0.3	.	1.8	
5	.	0.0	.	0.0	
6	.	3.6	.	4.5	
7	.	0.0	.	0.5	
8	.	1.9	.	0.0	
9	.	4.1	.	3.6	
10	.	0.0	.	0.3	
11	.	7.9	.	5.9	
12	.	4.5	.	2.1	
13	.	5.6	.	2.3	
14	.	4.7	.	3.2	
15	.	8.5	.	8.8	
16	.	8.9	.	0.6	
17	.	2.2	.	0.0	
18	.	4.9	.	5.4	
19	.	7.1	.	5.2	
20	.	8.6	.	7.3	
21	.	6.3	.	0.0	
22	.	1.5	.	3.7	
23	.	6.6	.	0.1	
24	.	0.0	.	1.5	
25	.	6.1	.	6.0	
26	.	4.1	.	0.7	
27	.	0.6	.	1.1	
28	.	10.2	.	4.2	
29	.	10.0	.	6.1	
30	.	8.8	.	1.2	
31	.	8.8	.	1.2	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	<b>162.4</b>	.	<b>91.5</b>	
<b> Daily Means</b>	.	<b>5.2</b>	.	<b>3.0</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	

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

Month: AUGUST

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	0.2	5.4	6.6	
2	2.0	5.9	4.4	
3	1.9	1.6	0.0	
4	2.3	3.0	0.6	
5	0.0	2.0	1.3	
6	3.8	2.6	0.0	
7	0.2	5.8	0.0	
8	0.0	0.0	1.0	
9	4.6	2.3	6.5	
10	0.0	3.4	4.7	
11	5.5	4.8	5.3	
12	2.5	4.2	0.3	
13	1.9	0.8	2.9	
14	0.3	2.3	4.9	
15	6.5	6.2	5.2	
16	0.0	0.0	5.2	
17	0.0	0.0	8.0	
18	4.2	5.7	0.0	
19	4.6	5.6	4.6	
20	4.4	0.4	0.4	
21	0.0	0.0	6.7	
22	3.9	0.9	3.4	
23	0.0	0.0	3.4	
24	4.2	4.8	1.8	
25	5.6	5.5	3.2	
26	0.0	5.6	0.0	
27	0.0	3.9	6.3	
28	7.2	4.7	6.2	
29	4.6	4.7	1.3	
30	3.2	2.0	3.2	
31	3.2	2.0	3.2	
<b>TT Monthly Totals</b>				
<b> Daily Means</b>				
<b>SS Monthly Totals</b>	<b>76.8</b>	<b>96.1</b>	<b>100.6</b>	
<b> Daily Means</b>	<b>2.5</b>	<b>3.1</b>	<b>3.2</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: SEPTEMBER		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	7.4	7.8	.	6.1	
2	3.5	2.7	.	3.6	
3	1.1	4.6	.	0.0	
4	3.8	5.2	.	4.2	
5	3.8	0.0	.	8.3	
6	0.6	0.0	.	2.2	
7	5.6	6.5	.	4.5	
8	5.4	7.1	.	6.7	
9	2.8	0.3	.	4.2	
10	8.7	10.4	.	10.9	
11	0.0	7.2	.	10.0	
12	1.3	2.2	.	7.4	
13	3.8	7.8	.	8.5	
14	0.0	8.1	.	10.1	
15	1.4	7.5	.	10.4	
16	5.1	9.6	.	11.4	
17	10.8	10.2	.	9.2	
18	6.4	10.4	.	8.5	
19	1.6	8.2	.	0.4	
20	3.4	4.0	.	4.2	
21	0.1	0.0	.	6.6	
22	3.0	4.6	.	7.4	
23	0.0	3.2	.	8.3	
24	7.3	8.0	.	8.5	
25	6.8	9.8	.	7.6	
26	4.3	5.2	.	4.4	
27	10.5	10.7	.	9.3	
28	9.2	10.5	.	11.0	
29	8.8	9.7	.	5.7	
30	8.8	9.7	.	5.7	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	135.3	191.2	.	205.3	
Daily Means	4.5	6.4	.	6.8	
Types of	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	
Instruments	CAMPBELL STOKES	CAMPBELL STOKES	CAMPBELL STOKES	CAMPBELL STOKES	

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

Month: SEPTEMBER		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	0.0	6.7	4.7	.	.
2	6.3	6.4	8.4	.	.
3	5.3	7.1	1.2	.	.
4	9.8	10.0	10.3	.	.
5	9.0	9.6	9.8	.	.
6	9.6	5.5	7.8	.	.
7	3.8	2.3	0.8	.	.
8	4.3	6.8	6.8	.	.
9	0.8	6.9	0.0	.	.
10	10.5	6.4	9.4	.	.
11	6.7	9.0	10.6	.	.
12	6.2	6.0	7.2	.	.
13	9.8	6.8	10.1	.	.
14	10.4	8.0	10.7	.	.
15	8.4	6.6	10.5	.	.
16	6.4	6.4	3.6	.	.
17	8.9	4.2	0.0	.	.
18	8.9	2.0	0.0	.	.
19	4.2	2.6	1.2	.	.
20	8.6	5.1	10.7	.	.
21	7.2	5.6	10.4	.	.
22	6.3	8.4	5.4	.	.
23	0.0	9.7	0.0	.	.
24	0.0	3.9	0.1	.	.
25	4.9	4.1	8.0	.	.
26	0.1	2.4	10.2	.	.
27	0.0	0.6	0.0	.	.
28	6.4	4.6	3.4	.	.
29	9.4	4.9	8.0	.	.
30	9.4	4.9	8.0	.	.
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	181.6	173.5	177.3	.	.
Daily Means	6.1	5.8	5.9	.	.
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: 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	4.0	7.9	4.0	0.2	
2	7.5	8.0	6.9	4.4	
3	0.1	3.5	10.1	7.0	
4	8.6	3.5	9.0	6.7	
5	2.9	2.0	2.1	1.8	
6	5.9	3.2	8.0	9.5	
7	7.7	1.0	10.5	9.0	
8	0.0	2.9	6.5	1.9	
9	0.0	6.2	2.8	4.5	
10	2.2	0.2	4.3	3.8	
11	0.0	3.5	0.0	0.0	
12	8.1	4.9	8.6	8.0	
13	6.0	2.5	5.8	3.6	
14	4.8	2.4	7.9	7.3	
15	8.9	8.8	10.9	9.9	
16	10.0	9.4	9.5	9.2	
17	8.6	9.0	0.0	9.6	
18	5.6	5.2	0.0	0.0	
19	0.3	4.8	5.6	0.5	
20	7.6	8.2	10.1	6.9	
21	8.6	8.3	9.9	9.4	
22	8.3	7.5	9.3	5.3	
23	8.6	3.5	5.2	9.1	
24	6.2	4.0	7.0	8.8	
25	7.3	6.4	9.3	8.8	
26	3.0	5.8	8.1	9.1	
27	2.8	7.6	4.3	6.1	
28	0.2	6.1	0.4	1.1	
29	3.5	0.0	6.0	0.0	
30	3.5	0.0	6.0	0.0	
31					
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>150.8</b>	<b>146.3</b>	<b>188.1</b>	<b>161.5</b>	
<b> Daily Means</b>	<b>5.0</b>	<b>4.9</b>	<b>6.3</b>	<b>5.4</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: SEPTEMBER		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	.	3.9	.	4.0	
2	.	9.7	.	8.0	
3	.	9.5	.	1.0	
4	.	9.5	.	4.0	
5	.	1.9	.	0.1	
6	.	7.9	.	6.3	
7	.	4.3	.	0.2	
8	.	8.6	.	7.8	
9	.	10.0	.	10.6	
10	.	3.9	.	2.4	
11	.	5.5	.	3.2	
12	.	10.3	.	10.5	
13	.	1.9	.	0.1	
14	.	10.5	.	6.1	
15	.	10.8	.	10.6	
16	.	10.8	.	10.2	
17	.	3.2	.	10.8	
18	.	0.0	.	5.2	
19	.	1.6	.	1.7	
20	.	10.3	.	8.4	
21	.	9.4	.	3.4	
22	.	8.1	.	4.7	
23	.	2.6	.	0.1	
24	.	7.1	.	4.4	
25	.	8.4	.	7.1	
26	.	10.6	.	11.2	
27	.	8.9	.	9.4	
28	.	3.0	.	2.5	
29	.	0.0	.	0.0	
30	.	0.0	.	0.0	
31	.		.		
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	192.2	.	154.0	
<b> Daily Means</b>	.	6.4	.	5.1	
<b>Types of Instruments</b>	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: 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	<b>PUERTO MONTT</b>	<b>COYHAIQUE</b>	<b>PUNTA ARENAS</b>	
1	3.9	2.6	6.1	
2	3.6	5.5	4.9	
3	3.7	7.7	7.9	
4	7.2	4.6	2.1	
5	0.7	4.8	6.8	
6	6.2	7.4	3.1	
7	0.0	3.0	1.5	
8	1.7	5.8	10.5	
9	10.1	7.8	1.6	
10	0.8	3.7	8.9	
11	3.9	8.5	7.6	
12	3.1	5.2	9.4	
13	0.0	2.7	8.4	
14	5.9	7.0	1.1	
15	6.8	2.3	2.5	
16	10.0	7.9	0.0	
17	4.7	9.2	7.5	
18	1.1	8.4	0.0	
19	2.9	1.4	0.0	
20	2.3	4.2	1.1	
21	1.5	3.2	7.4	
22	3.1	5.2	3.2	
23	2.6	7.2	0.0	
24	5.4	3.1	8.6	
25	5.8	6.5	8.0	
26	10.7	9.1	3.2	
27	8.0	9.5	6.8	
28	3.9	3.3	5.2	
29	0.1	0.1	0.0	
30	0.1	0.1	0.0	
31				
<b>TT Monthly Totals</b>				
<b> Daily Means</b>				
<b>SS Monthly Totals</b>	<b>119.8</b>	<b>157.0</b>	<b>133.4</b>	
<b> Daily Means</b>	<b>4.0</b>	<b>5.2</b>	<b>4.4</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: OCTOBER		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	5.7	7.8	.	5.5	
2	7.2	8.8	.	9.9	
3	6.1	6.0	.	9.9	
4	9.5	9.3	.	11.1	
5	7.2	10.7	.	10.8	
6	3.8	7.3	.	6.2	
7	6.2	8.6	.	9.1	
8	4.6	8.8	.	9.1	
9	6.0	10.1	.	9.4	
10	5.0	6.9	.	8.8	
11	4.0	1.3	.	2.9	
12	4.1	0.3	.	4.3	
13	6.6	8.2	.	7.5	
14	5.0	2.5	.	6.6	
15	0.0	4.4	.	7.4	
16	7.3	10.5	.	7.7	
17	10.8	9.3	.	4.6	
18	6.6	0.0	.	0.1	
19	4.3	0.0	.	8.6	
20	0.3	0.0	.	6.7	
21	7.8	7.5	.	6.7	
22	8.4	10.8	.	9.9	
23	9.1	10.8	.	9.0	
24	7.3	10.1	.	10.1	
25	6.1	6.5	.	7.5	
26	5.3	5.6	.	0.2	
27	4.8	4.5	.	5.8	
28	10.2	8.9	.	9.9	
29	8.6	9.7	.	7.6	
30	8.0	9.0	.	9.3	
31	8.0	9.0	.	9.3	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>193.9</b>	<b>213.2</b>	.	<b>231.5</b>	
<b> Daily Means</b>	<b>6.3</b>	<b>6.9</b>	.	<b>7.5</b>	
<b>Types of</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	
<b>Instruments</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	
	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>	

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

Month: OCTOBER		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	0.8	8.3	9.6	.	.
2	10.6	9.4	11.3	.	.
3	10.3	2.4	11.3	.	.
4	6.6	3.7	9.1	.	.
5	8.9	3.9	10.7	.	.
6	8.2	5.3	11.1	.	.
7	5.0	2.6	0.0	.	.
8	4.4	4.2	13.5	.	.
9	4.0	9.1	11.1	.	.
10	6.5	8.7	5.1	.	.
11	6.1	4.9	8.7	.	.
12	10.6	8.8	11.7	.	.
13	10.7	9.9	11.6	.	.
14	8.2	7.7	9.4	.	.
15	7.9	4.5	10.9	.	.
16	3.6	7.5	6.3	.	.
17	8.4	3.8	9.2	.	.
18	7.1	0.3	8.4	.	.
19	4.6	11.9	11.5	.	.
20	4.8	9.3	6.2	.	.
21	6.1	6.6	11.6	.	.
22	5.0	10.9	7.5	.	.
23	8.3	0.8	4.8	.	.
24	8.3	0.0	7.8	.	.
25	2.6	6.2	7.8	.	.
26	1.0	10.3	4.4	.	.
27	0.0	11.3	6.3	.	.
28	1.6	6.2	0.3	.	.
29	6.5	5.9	12.3	.	.
30	9.8	5.4	12.4	.	.
31	9.8	5.4	12.4	.	.
TT Monthly Totals					
Daily Means					
SS Monthly Totals	196.3	195.2	274.3	.	.
Daily Means	6.3	6.3	8.8	.	.
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	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: 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	7.9	6.8	9.6	6.4	
2	0.8	9.0	1.7	1.1	
3	8.6	6.3	8.8	5.0	
4	0.0	6.2	0.0	0.0	
5	7.5	4.8	8.6	7.9	
6	10.0	0.0	10.9	11.4	
7	3.3	2.5	0.0	4.0	
8	6.4	9.8	9.4	9.2	
9	9.4	8.4	10.8	8.1	
10	8.3	6.9	10.8	11.0	
11	5.7	4.9	11.8	7.1	
12	10.7	5.9	10.4	9.7	
13	10.2	1.0	11.2	9.3	
14	10.3	7.1	11.6	7.8	
15	10.0	8.4	6.8	10.7	
16	7.5	2.9	1.8	4.1	
17	2.6	1.8	1.9	0.6	
18	6.8	9.3	9.4	9.6	
19	9.7	4.3	11.2	6.0	
20	0.0	6.4	3.0	2.1	
21	10.3	10.2	12.5	10.7	
22	10.3	10.9	10.8	8.5	
23	10.2	2.2	9.1	11.3	
24	10.7	0.6	11.9	8.7	
25	10.7	5.4	10.0	10.0	
26	9.2	6.4	4.8	11.4	
27	10.6	3.6	9.7	11.2	
28	7.9	7.2	4.2	2.4	
29	2.0	7.2	11.4	8.9	
30	10.9	4.3	12.2	9.2	
31	10.9	4.3	12.2	9.2	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>239.4</b>	<b>175.0</b>	<b>258.5</b>	<b>232.6</b>	
<b> Daily Means</b>	<b>7.7</b>	<b>5.6</b>	<b>8.3</b>	<b>7.5</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: OCTOBER		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	.	4.8	.	3.0	
2	.	0.0	.	0.0	
3	.	0.4	.	0.0	
4	.	3.6	.	1.1	
5	.	1.2	.	1.9	
6	.	10.8	.	8.6	
7	.	2.0	.	0.0	
8	.	7.4	.	5.6	
9	.	11.2	.	7.8	
10	.	10.4	.	2.1	
11	.	11.4	.	10.5	
12	.	11.2	.	8.1	
13	.	10.8	.	7.7	
14	.	11.6	.	9.6	
15	.	1.1	.	11.2	
16	.	0.3	.	0.3	
17	.	1.6	.	0.6	
18	.	11.5	.	10.5	
19	.	9.0	.	2.8	
20	.	11.9	.	8.5	
21	.	12.6	.	10.8	
22	.	10.5	.	8.1	
23	.	3.0	.	0.3	
24	.	10.8	.	7.3	
25	.	11.8	.	1.8	
26	.	11.4	.	7.0	
27	.	11.1	.	3.5	
28	.	6.4	.	8.0	
29	.	8.5	.	1.2	
30	.	4.7	.	4.0	
31	.	4.7	.	4.0	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	227.7	.	155.9	
<b> Daily Means</b>	.	7.3	.	5.0	
<b>Types of Instruments</b>	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: 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	<b>PUERTO MONTT</b>	<b>COYHAIQUE</b>	<b>PUNTA ARENAS</b>		
1	3.6	7.9	3.3		
2	0.0	4.2	4.8		
3	0.0	2.7	7.2		
4	0.0	5.6	0.4		
5	2.8	4.8	6.6		
6	6.2	5.2	10.8		
7	0.7	3.0	8.3		
8	4.4	0.5	8.3		
9	5.2	8.4	9.6		
10	3.2	6.0	4.0		
11	10.0	9.1	10.3		
12	7.5	5.8	12.3		
13	5.8	2.0	3.7		
14	5.7	10.6	6.6		
15	9.2	9.0	7.4		
16	1.0	9.3	11.3		
17	0.4	6.7	8.0		
18	9.3	6.6	7.3		
19	1.4	6.6	4.6		
20	11.6	7.5	3.2		
21	10.8	7.2	0.0		
22	2.7	3.6	2.7		
23	2.3	2.7	10.4		
24	0.7	4.9	11.8		
25	1.8	5.8	7.7		
26	3.7	4.1	6.3		
27	0.4	1.8	2.3		
28	4.8	5.6	0.0		
29	0.1	6.0	0.0		
30	3.2	8.9	12.1		
31	3.2	8.9	12.1		
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>121.7</b>	<b>181.0</b>	<b>203.4</b>		
<b> Daily Means</b>	<b>3.9</b>	<b>5.8</b>	<b>6.6</b>		
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>		

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

Month: NOVEMBER		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	6.3	6.8	.	7.0	
2	7.0	8.0	.	5.3	
3	5.5	8.6	.	8.7	
4	3.1	8.3	.	6.6	
5	5.9	1.1	.	8.2	
6	7.0	0.1	.	5.4	
7	8.0	9.5	.	5.1	
8	8.4	10.6	.	5.9	
9	4.4	3.9	.	4.4	
10	5.1	0.2	.	5.3	
11	4.5	0.0	.	8.0	
12	6.1	5.2	.	5.6	
13	6.1	8.2	.	7.5	
14	4.1	4.0	.	9.6	
15	0.0	5.1	.	8.6	
16	5.5	5.0	.	2.4	
17	7.9	4.1	.	5.3	
18	12.1	11.8	.	10.4	
19	12.0	11.7	.	11.3	
20	8.5	11.6	.	10.3	
21	7.6	11.3	.	10.2	
22	7.9	10.3	.	8.6	
23	5.9	6.4	.	7.5	
24	7.7	10.0	.	7.0	
25	10.0	12.4	.	7.9	
26	10.7	12.5	.	10.5	
27	10.8	12.5	.	10.4	
28	10.8	11.9	.	10.7	
29	10.8	12.4	.	12.0	
30	10.8	12.4	.	12.0	
31					
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	220.5	235.9	.	237.7	
<b> Daily Means</b>	7.4	7.9	.	7.9	
<b>Types of Instruments</b>	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: 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	10.3	9.3	12.5	.	
2	11.0	10.3	9.3	.	
3	8.9	6.2	6.8	.	
4	8.9	9.4	4.2	.	
5	10.3	0.0	12.5	.	
6	1.2	1.9	3.8	.	
7	6.7	0.0	0.5	.	
8	5.2	9.0	7.6	.	
9	12.5	7.2	12.5	.	
10	8.7	2.4	11.4	.	
11	4.1	11.4	3.8	.	
12	7.7	8.7	9.3	.	
13	9.1	5.4	5.9	.	
14	9.3	8.5	4.4	.	
15	6.4	11.6	6.2	.	
16	4.3	1.7	12.5	.	
17	5.5	0.0	11.0	.	
18	6.4	7.4	7.4	.	
19	11.4	11.1	12.3	.	
20	7.5	11.0	6.8	.	
21	8.3	10.5	12.5	.	
22	7.8	12.2	9.4	.	
23	0.0	9.7	5.5	.	
24	1.9	9.3	5.7	.	
25	2.1	7.6	7.2	.	
26	2.9	10.4	3.8	.	
27	8.0	4.5	6.2	.	
28	10.8	11.9	6.0	.	
29	1.4	12.0	9.0	.	
30	1.4	12.0	9.0	.	
31					
TT Monthly Totals					
Daily Means					
SS Monthly Totals	200.0	232.6	235.0	.	
Daily Means	6.7	7.8	7.8	.	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: NOVEMBER		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	0.0	7.3	0.0	0.0	
2	5.0	3.8	6.5	4.5	
3	6.4	0.4	8.3	9.8	
4	0.0	0.4	0.0	0.4	
5	9.7	0.7	8.4	9.9	
6	2.2	4.2	0.0	0.0	
7	1.9	1.4	3.7	2.6	
8	7.0	3.5	3.4	8.8	
9	10.5	10.0	10.2	12.3	
10	11.3	8.8	11.8	10.3	
11	11.5	11.3	12.3	13.0	
12	11.3	10.9	4.2	13.0	
13	11.3	5.6	0.7	13.0	
14	11.0	3.3	0.4	12.9	
15	8.4	7.3	11.8	12.6	
16	11.3	5.2	12.2	12.9	
17	9.6	2.5	12.5	4.0	
18	11.4	3.8	13.1	13.2	
19	11.3	1.8	12.4	13.2	
20	9.3	0.8	8.5	7.5	
21	11.3	6.2	12.0	13.4	
22	11.4	1.0	12.3	13.3	
23	11.4	0.7	5.3	13.4	
24	9.7	10.0	10.7	13.4	
25	11.3	5.1	11.3	13.4	
26	11.3	6.8	0.0	13.4	
27	11.4	7.3	0.0	13.4	
28	10.0	9.7	0.0	13.4	
29	10.3	4.0	6.1	6.0	
30	10.3	4.0	6.1	6.0	
31					
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>268.8</b>	<b>147.8</b>	<b>204.2</b>	<b>293.0</b>	
<b> Daily Means</b>	<b>9.0</b>	<b>4.9</b>	<b>6.8</b>	<b>9.8</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: NOVEMBER		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	.	11.4	.	9.2	
2	.	3.1	.	6.2	
3	.	8.4	.	7.4	
4	.	0.0	.	0.0	
5	.	0.0	.	6.2	
6	.	7.7	.	3.4	
7	.	6.3	.	7.5	
8	.	12.1	.	11.2	
9	.	11.6	.	5.5	
10	.	12.7	.	12.6	
11	.	12.8	.	10.8	
12	.	12.7	.	11.1	
13	.	9.2	.	5.9	
14	.	8.1	.	7.4	
15	.	12.2	.	4.4	
16	.	10.7	.	0.6	
17	.	11.8	.	9.0	
18	.	12.8	.	5.0	
19	.	12.8	.	12.4	
20	.	12.7	.	12.4	
21	.	13.0	.	12.9	
22	.	12.8	.	13.0	
23	.	12.9	.	13.2	
24	.	12.9	.	11.2	
25	.	12.9	.	13.2	
26	.	13.0	.	12.2	
27	.	12.9	.	13.0	
28	.	5.0	.	12.4	
29	.	1.6	.	6.4	
30	.	1.6	.	6.4	
31					
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	287.7	.	262.1	
<b> Daily Means</b>	.	9.6	.	8.7	
<b>Types of Instruments</b>	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: 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	<b>PUERTO MONTT</b>	<b>COYHAIQUE</b>	<b>PUNTA ARENAS</b>		
1	6.5	8.2	6.9		
2	9.1	10.8	5.6		
3	4.4	11.5	9.1		
4	1.3	11.6	8.8		
5	1.1	5.1	13.0		
6	0.9	3.0	8.5		
7	8.0	2.0	13.3		
8	11.0	11.9	5.8		
9	2.0	2.7	3.9		
10	11.8	11.7	5.0		
11	10.3	3.0	5.3		
12	0.5	8.6	10.1		
13	5.3	7.7	8.5		
14	5.4	10.3	2.0		
15	4.2	3.8	4.8		
16	0.7	9.2	0.9		
17	5.2	12.0	6.8		
18	0.0	6.0	10.2		
19	4.5	10.4	10.6		
20	11.7	8.2	7.6		
21	9.2	1.8	3.5		
22	1.6	10.4	4.7		
23	12.3	11.2	4.1		
24	7.9	1.6	9.4		
25	4.9	3.7	8.5		
26	5.4	10.3	12.3		
27	13.0	11.8	2.9		
28	12.5	12.0	0.9		
29	5.5	3.3	11.3		
30	5.5	3.3	11.3		
31					
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>181.7</b>	<b>227.1</b>	<b>215.6</b>		
<b> Daily Means</b>	<b>6.1</b>	<b>7.6</b>	<b>7.2</b>		
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>		

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

Month: DECEMBER		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	11.5	12.5	.	11.5	
2	12.7	12.6	.	10.5	
3	12.8	12.5	.	11.3	
4	8.1	11.0	.	11.6	
5	8.6	11.7	.	10.9	
6	2.1	8.3	.	7.6	
7	8.3	11.6	.	8.5	
8	7.0	12.1	.	10.6	
9	8.4	12.5	.	12.0	
10	7.7	8.0	.	7.5	
11	9.6	7.7	.	8.0	
12	11.8	12.5	.	12.1	
13	11.7	13.5	.	11.0	
14	11.3	12.5	.	10.7	
15	6.6	9.2	.	10.1	
16	11.7	11.6	.	12.0	
17	2.5	10.8	.	10.3	
18	10.4	12.4	.	9.6	
19	8.8	12.4	.	9.6	
20	10.2	12.5	.	9.7	
21	9.3	12.1	.	11.8	
22	9.2	12.5	.	10.3	
23	11.8	12.6	.	11.7	
24	11.7	12.5	.	8.4	
25	3.6	9.7	.	5.3	
26	8.5	10.7	.	8.9	
27	11.8	12.4	.	10.4	
28	5.3	12.4	.	12.0	
29	7.1	11.7	.	8.6	
30	9.3	12.5	.	11.4	
31	9.3	12.5	.	11.4	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>278.7</b>	<b>359.5</b>	.	<b>315.3</b>	
<b> Daily Means</b>	<b>9.0</b>	<b>11.6</b>	.	<b>10.2</b>	
<b>Types of</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	<b>HELIOGRAPH</b>	
<b>Instruments</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	<b>CAMPBELL</b>	
	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>	<b>STOKES</b>	

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

Month: DECEMBER		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	8.2	9.1	0.6	.	.
2	6.3	4.4	2.6	.	.
3	11.5	5.1	13.1	.	.
4	9.0	8.1	9.5	.	.
5	9.0	10.2	11.6	.	.
6	7.9	9.9	10.9	.	.
7	7.0	8.7	7.9	.	.
8	6.7	11.4	7.7	.	.
9	6.0	7.4	3.9	.	.
10	0.0	0.2	3.8	.	.
11	0.6	6.6	0.0	.	.
12	3.9	11.1	0.0	.	.
13	11.3	12.2	13.1	.	.
14	7.0	9.5	12.2	.	.
15	0.9	2.1	3.2	.	.
16	6.1	9.4	8.0	.	.
17	8.4	11.2	12.1	.	.
18	12.2	2.3	7.3	.	.
19	11.6	3.2	7.1	.	.
20	8.7	1.5	6.1	.	.
21	8.2	0.0	8.3	.	.
22	7.7	6.3	5.2	.	.
23	6.5	5.3	9.8	.	.
24	4.9	2.6	7.9	.	.
25	0.0	1.1	8.5	.	.
26	5.7	2.2	4.4	.	.
27	7.7	8.5	6.7	.	.
28	6.7	11.2	4.4	.	.
29	8.9	12.7	13.2	.	.
30	8.9	12.8	7.6	.	.
31	8.9	12.8	7.6	.	.
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>216.4</b>	<b>219.1</b>	<b>224.3</b>	.	.
<b> Daily Means</b>	<b>7.0</b>	<b>7.1</b>	<b>7.2</b>	.	.
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>

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

Month: DECEMBER		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	8.9	7.1	0.3	7.6	
2	10.6	4.8	2.6	10.4	
3	10.4	1.1	10.9	11.4	
4	11.5	4.9	0.0	10.4	
5	11.0	3.3	0.0	11.4	
6	10.6	0.0	3.5	8.3	
7	11.5	2.7	0.0	12.9	
8	10.8	3.5	7.9	13.2	
9	11.7	2.3	8.1	13.3	
10	11.9	11.2	8.4	13.4	
11	10.9	6.9	0.0	7.5	
12	5.8	3.8	4.5	2.6	
13	10.1	4.1	8.4	8.0	
14	11.5	8.7	13.3	12.0	
15	11.7	11.4	12.7	11.0	
16	6.5	5.5	4.3	4.3	
17	11.9	7.0	13.1	10.3	
18	10.1	9.3	9.0	12.9	
19	11.8	4.5	12.9	13.5	
20	11.9	10.7	6.3	13.5	
21	11.9	7.7	11.5	10.9	
22	11.9	4.8	12.7	13.5	
23	11.9	4.0	13.0	13.6	
24	11.8	9.7	13.2	13.6	
25	11.8	5.3	4.8	13.5	
26	11.9	8.7	9.2	12.2	
27	11.9	5.9	11.6	13.6	
28	11.8	8.9	13.1	13.6	
29	11.7	10.8	9.8	12.8	
30	11.9	2.9	6.1	11.5	
31	11.9	2.9	6.1	11.5	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>341.5</b>	<b>184.4</b>	<b>237.3</b>	<b>348.2</b>	
<b> Daily Means</b>	<b>11.0</b>	<b>5.9</b>	<b>7.7</b>	<b>11.2</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	

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

Month: DECEMBER		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	.	12.9	.	13.1	
2	.	8.6	.	13.1	
3	.	8.4	.	7.9	
4	.	9.6	.	13.2	
5	.	0.0	.	12.6	
6	.	7.6	.	9.4	
7	.	11.5	.	8.0	
8	.	13.0	.	11.9	
9	.	12.7	.	10.9	
10	.	13.0	.	10.5	
11	.	0.6	.	5.9	
12	.	3.5	.	0.4	
13	.	4.8	.	8.5	
14	.	10.8	.	0.1	
15	.	12.4	.	0.4	
16	.	3.6	.	7.9	
17	.	13.2	.	13.3	
18	.	13.2	.	13.3	
19	.	13.0	.	9.0	
20	.	7.9	.	6.4	
21	.	12.9	.	8.4	
22	.	13.0	.	9.4	
23	.	13.4	.	12.3	
24	.	13.2	.	4.5	
25	.	12.6	.	1.2	
26	.	6.5	.	7.3	
27	.	13.3	.	10.1	
28	.	12.8	.	0.9	
29	.	7.8	.	0.0	
30	.	8.3	.	8.1	
31	.	8.3	.	8.1	
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	.	<b>302.4</b>	.	<b>246.1</b>	
<b> Daily Means</b>	.	<b>9.8</b>	.	<b>7.9</b>	
<b>Types of Instruments</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	<b>HELIOGRAPH</b> <b>CAMPBELL</b> <b>STOKES</b>	

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

Month: DECEMBER		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	11.8	11.8	10.2		
2	10.5	11.6	13.8		
3	8.8	12.0	9.4		
4	8.2	12.1	3.4		
5	8.2	11.2	11.3		
6	10.6	11.0	12.4		
7	8.4	4.4	7.9		
8	8.7	10.5	1.9		
9	2.5	4.2	5.2		
10	10.0	11.5	6.8		
11	3.9	8.1	9.5		
12	3.4	10.2	6.7		
13	1.2	6.6	3.2		
14	6.6	11.8	9.3		
15	0.0	0.7	0.6		
16	8.8	11.6	14.8		
17	11.9	9.0	5.0		
18	13.3	2.6	10.2		
19	8.2	2.4	2.7		
20	8.0	7.2	8.7		
21	1.5	0.5	2.2		
22	10.3	6.6	9.2		
23	8.4	8.7	2.5		
24	0.0	1.7	5.9		
25	2.6	1.7	13.4		
26	2.8	11.8	3.8		
27	5.0	0.5	6.5		
28	0.0	6.1	5.7		
29	0.3	7.8	12.4		
30	10.8	8.7	8.0		
31	10.8	8.7	8.0		
<b>TT Monthly Totals</b>					
<b> Daily Means</b>					
<b>SS Monthly Totals</b>	<b>205.5</b>	<b>233.3</b>	<b>230.6</b>		
<b> Daily Means</b>	<b>6.6</b>	<b>7.5</b>	<b>7.4</b>		
<b>Types of Instruments</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>	<b>HELIOGRAPH CAMPBELL STOKES</b>		