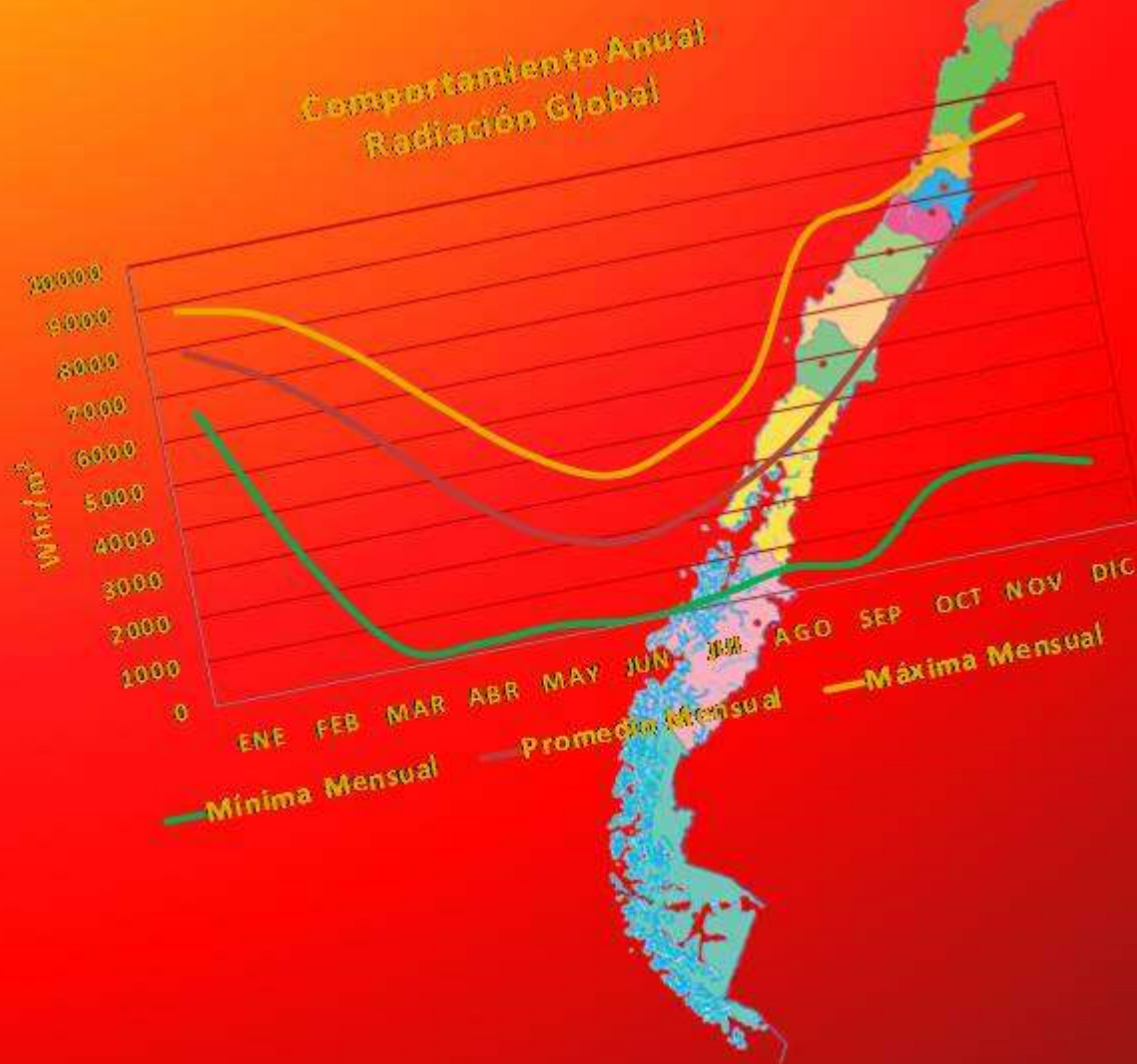




DIRECCIÓN METEOROLÓGICA DE CHILE

INFORME SOLARIMÉTRICO

I SEMESTRE 2008



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: 2008

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	DESIERTO ATACAMA
Date				
1	19.41	28.69	.	25.06
2	21.69	30.06	.	25.87
3	23.72	25.58	.	26.78
4	26.03	29.70	.	31.07
5	18.82	31.38	.	29.18
6	23.46	31.09	.	29.08
7	20.14	30.30	.	29.46
8	20.74	30.71	.	30.83
9	22.20	30.59	.	30.56
10	24.10	30.45	.	31.23
11	24.26	30.45	.	21.59
12	19.86	28.79	.	23.86
13	24.96	24.20	.	27.15
14	24.51	25.14	.	29.40
15	24.79	22.64	.	27.44
16	26.53	29.50	.	28.03
17	17.77	29.83	.	27.67
18	28.18	27.93	.	27.89
19	26.89	29.68	.	25.84
20	15.87	23.91	.	23.07
21	21.39	28.71	.	29.21
22	22.12	28.77	.	28.16
23	28.96	29.68	.	18.98
24	27.28	23.82	.	30.99
25	28.37	29.22	.	30.50
26	27.82	30.17	.	31.22
27	23.23	30.85	.	28.66
28	24.98	31.01	.	22.79
29	28.33	30.35	.	27.61
30	24.65	29.92	.	30.76
31	27.93	29.81	.	26.32
TT Monthly Totals	738.98	892.94	.	856.27
 Daily Means	23.84	28.80	.	27.62
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

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

Month: JANUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	29.44	.	24.75	.
2	29.23	.	24.51	.
3	29.04	.	24.84	.
4	29.02	.	24.84	.
5	29.03	.	24.39	.
6	28.25	.	24.52	.
7	28.56	.	24.16	.
8	28.92	.	23.25	.
9	28.28	.	11.83	.
10	27.39	.	24.37	.
11	29.05	.	24.57	.
12	30.21	.	23.57	.
13	29.50	.	16.15	.
14	29.09	.	22.87	.
15	29.16	.	23.66	.
16	29.47	.	24.37	.
17	28.50	.	24.40	.
18	28.32	.	23.89	.
19	28.46	.	23.62	.
20	28.58	.	23.40	.
21	28.31	.	23.46	.
22	28.15	.	23.32	.
23	28.14	.	13.69	.
24	27.31	.	14.46	.
25	27.17	.	19.65	.
26	24.94	.	18.75	.
27	28.47	.	22.35	.
28	27.98	.	15.47	.
29	21.04	.	10.92	.
30	22.20	.	9.53	.
31	25.95	.	21.47	.
TT Monthly Totals	867.17	.	655.03	.
 Daily Means	27.97	.	21.13	.
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: JANUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	.	.		
2	.	.		
3	.	.		
4	.	.		
5	.	.		
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8	.	.		
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18	.	.		
19	.	.		
20	.	.		
21	.	.		
22	.	.		
23	.	.		
24	.	.		
25	.	.		
26	.	24.47		
27	.	19.35		
28	.	24.13		
29	.	5.17		
30	.	13.34		
31	.	13.34		
TT Monthly Totals	.	.		
Daily Means	.	.		
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: FEBRUARY Year: 2008 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	DESIERTO ATACAMA
Date				
1	28.44	30.06	29.80	30.26
2	28.85	29.86	29.94	30.47
3	28.30	29.49	29.92	29.44
4	28.21	29.66	30.32	24.48
5	28.13	29.90	29.83	21.58
6	27.77	29.80	28.49	24.84
7	25.10	29.88	29.73	30.51
8	27.89	29.71	29.89	28.14
9	27.35	29.79	29.52	25.86
10	27.58	29.46	29.03	28.43
11	27.56	28.91	28.71	27.50
12	27.89	28.48	29.10	27.79
13	27.64	28.86	28.99	27.02
14	26.85	28.19	27.56	28.46
15	27.60	28.42	28.33	25.84
16	23.80	27.53	26.48	23.13
17	26.34	23.85	23.94	22.65
18	26.01	27.64	27.82	27.95
19	25.21	27.25	28.85	27.94
20	24.71	27.22	28.71	24.47
21	23.83	27.05	28.55	26.55
22	26.62	27.16	28.58	25.04
23	24.02	26.83	28.49	28.44
24	26.09	26.32	27.76	27.88
25	26.56	27.21	28.22	23.29
26	19.70	26.77	28.82	28.06
27	26.49	27.07	28.54	28.14
28	26.22	27.18	28.23	26.72
29	26.14	27.12	28.04	27.45
30				
31				
TT Monthly Totals	766.88	816.68	830.16	778.32
 Daily Means	26.44	28.16	28.63	26.84
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER 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: 2008

Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	26.39	.	21.57	18.69
2	26.81	.	22.03	26.92
3	26.79	.	10.82	26.85
4	23.99	.	10.19	27.16
5	26.30	.	16.17	27.23
6	18.89	.	15.21	26.68
7	24.30	.	20.86	25.82
8	25.51	.	21.57	15.74
9	28.25	.	21.36	21.92
10	26.50	.	21.38	25.18
11	26.10	.	18.81	19.05
12	25.20	.	19.16	19.65
13	24.67	.	20.11	8.27
14	24.70	.	18.65	14.89
15	24.73	.	21.08	25.00
16	25.05	.	21.09	11.83
17	20.66	.	20.61	15.67
18	24.46	.	20.22	25.23
19	24.56	.	20.24	24.53
20	24.25	.	19.74	23.83
21	23.91	.	9.25	14.24
22	23.82	.	12.42	21.04
23	24.73	.	14.31	22.49
24	23.94	.	14.81	21.35
25	25.09	.	15.97	19.94
26	24.44	.	6.23	19.28
27	23.55	.	10.73	19.89
28	23.23	.	17.73	12.28
29	23.03	.	7.88	5.35
30				
31				
TT Monthly Totals	713.82	.	490.20	585.99
 Daily Means	24.61	.	16.90	20.21
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: FEBRUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	.	25.35		
2	.	6.49		
3	.	25.01		
4	.	17.64		
5	.	21.33		
6	.	21.07		
7	.	20.88		
8	.	7.90		
9	.	6.60		
10	.	8.81		
11	.	19.15		
12	.	.		
13	.	.		
14	.	.		
15	.	.		
16	.	.		
17	.	.		
18	.	.		
19	.	.		
20	.	.		
21	.	.		
22	.	.		
23	.	.		
24	.	.		
25	.	.		
26	.	.		
27	.	.		
28	.	.		
29	.	.		
30	.	.		
31	.	.		
TT Monthly Totals	.	.		
Daily Means	.	.		
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: MARCH Year: 2008 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	DESIERTO ATACAMA
Date				
1	26.19	26.85	27.75	23.99
2	24.12	26.97	27.47	26.45
3	26.04	26.55	27.73	24.33
4	25.60	.	27.57	25.63
5	25.69	.	27.41	20.68
6	25.96	.	27.20	22.97
7	26.03	.	26.92	26.25
8	24.08	26.26	27.11	26.33
9	24.91	25.96	26.78	26.30
10	21.08	22.75	27.23	23.21
11	22.94	22.29	26.53	26.14
12	24.47	25.20	27.10	24.07
13	17.22	25.38	27.16	21.40
14	23.64	25.26	26.54	17.85
15	24.92	24.85	26.36	21.89
16	24.41	24.47	25.83	20.04
17	24.37	24.28	25.71	25.05
18	24.13	24.11	24.12	13.96
19	23.66	24.24	25.30	24.62
20	23.74	24.32	25.53	22.58
21	23.43	23.80	24.30	23.81
22	23.32	23.94	23.56	21.70
23	23.10	23.39	23.79	21.21
24	22.63	23.10	24.07	23.58
25	22.87	22.51	22.84	21.91
26	21.89	22.69	16.12	15.02
27	22.65	22.31	18.90	5.83
28	22.65	22.62	23.42	12.89
29	21.20	22.34	15.90	13.82
30	22.02	22.55	22.87	22.32
31	19.31	22.45	19.42	16.50
TT Monthly Totals	728.28	.	768.53	662.35
 Daily Means	23.49	.	24.79	21.37
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER 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: 2008

Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	20.36	.	8.29	18.35
2	22.71	.	18.80	22.62
3	22.79	.	17.02	21.25
4	22.11	.	17.97	21.97
5	22.21	.	17.58	15.70
6	17.76	.	16.89	20.29
7	9.95	.	16.80	18.56
8	.	.	12.98	10.50
9	.	.	16.96	21.60
10	.	.	17.42	20.18
11	.	.	12.61	20.53
12	.	.	16.84	16.69
13	.	.	16.97	13.37
14	.	.	14.95	17.27
15	.	.	14.74	8.11
16	.	.	15.29	6.83
17	.	.	16.64	14.09
18	.	.	16.31	13.53
19	.	.	8.73	8.82
20	.	.	15.63	6.17
21	.	.	15.67	15.12
22	.	.	15.33	18.03
23	.	.	4.56	16.61
24	.	.	5.49	10.95
25	.	.	6.61	6.30
26	.	.	11.95	14.33
27	.	.	15.11	17.50
28	.	.	14.68	16.86
29	.	.	11.99	13.74
30	.	.	11.58	7.33
31	.	.	13.80	8.98
TT Monthly Totals	.	.	436.21	462.16
 Daily Means	.	.	14.07	14.91
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: MARCH

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	.	0.00		
2	.	0.00		
3	.	16.54		
4	.	6.80		
5	.	10.89		
6	.	10.64		
7	.	9.19		
8	.	14.45		
9	.	5.86		
10	.	7.52		
11	.	12.80		
12	.	15.49		
13	.	13.35		
14	.	5.96		
15	.	9.43		
16	.	8.63		
17	.	14.82		
18	.	3.29		
19	.	7.92		
20	.	9.10		
21	.	13.74		
22	.	5.89		
23	.	3.59		
24	.	9.75		
25	.	10.16		
26	.	10.15		
27	.	5.73		
28	.	4.50		
29	.	11.78		
30	.	3.80		
31	.	11.17		
TT Monthly Totals	.	272.95		
 Daily Means	.	8.80		
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: APRIL Year: 2008 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	DESIERTO ATACAMA
Date				
1	15.76	22.18	16.61	20.29
2	17.45	21.77	19.29	20.57
3	22.06	22.06	23.17	21.48
4	22.17	21.80	22.79	21.62
5	22.43	21.86	22.35	19.32
6	22.42	21.61	22.68	20.39
7	22.11	21.60	22.95	20.41
8	22.25	21.85	22.61	21.60
9	21.90	22.40	22.07	19.41
10	20.60	22.02	21.21	14.35
11	21.57	21.56	22.05	19.71
12	21.53	21.22	21.46	19.94
13	21.21	20.87	21.85	19.92
14	21.19	21.05	16.18	16.33
15	20.46	20.92	14.42	20.42
16	16.89	20.85	21.10	20.19
17	20.76	20.89	20.58	20.13
18	20.58	21.01	12.60	14.30
19	18.00	21.08	17.67	11.60
20	20.53	20.73	19.62	8.34
21	20.26	20.60	20.83	13.52
22	20.24	20.36	20.80	18.46
23	19.84	20.04	20.48	18.47
24	15.95	20.07	20.47	9.59
25	20.04	19.91	18.60	6.52
26	20.08	19.77	20.14	11.82
27	18.29	19.12	19.72	13.79
28	15.74	16.73	18.28	18.84
29	13.75	19.24	18.20	12.21
30	17.39	19.14	19.40	16.90
31				
TT Monthly Totals	593.44	624.31	600.18	510.44
 Daily Means	19.78	20.81	20.01	17.01
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: APRIL Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	17.42	.	13.84	8.94
2	17.68	.	13.66	15.59
3	17.18	.	12.44	9.80
4	16.59	.	12.88	15.29
5	16.30	.	10.83	3.27
6	16.35	.	13.54	7.55
7	.	.	12.31	7.65
8	.	.	13.12	4.83
9	.	.	8.75	2.91
10	13.43	.	3.02	10.02
11	.	.	12.11	12.32
12	14.43	.	11.70	6.44
13	16.30	.	12.85	9.72
14	15.80	.	12.30	12.97
15	14.96	.	12.11	5.80
16	14.62	.	11.76	10.58
17	14.91	.	11.58	3.55
18	14.89	.	9.38	2.62
19	15.05	.	11.02	5.76
20	14.77	.	5.42	1.22
21	12.16	.	8.57	8.10
22	11.82	.	10.62	10.70
23	13.48	.	10.48	6.52
24	13.01	.	10.32	4.75
25	1.78	.	2.06	3.36
26	11.25	.	2.30	3.57
27	5.56	.	2.18	7.14
28	8.06	.	10.69	8.41
29	11.13	.	10.49	8.85
30	4.41	.	2.53	6.68
31				
TT Monthly Totals	.	.	294.88	224.93
 Daily Means	13.21	.	9.83	7.50
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: APRIL

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	.	.		
2	.	.		
3	.	.		
4	.	7.68		
5	.	7.96		
6	.	4.55		
7	.	6.35		
8	.	10.15		
9	.	7.52		
10	.	4.74		
11	.	4.91		
12	.	6.21		
13	.	8.25		
14	.	7.74		
15	.	7.72		
16	.	5.86		
17	.	1.44		
18	.	7.90		
19	.	1.48		
20	.	7.04		
21	.	6.02		
22	.	5.96		
23	.	7.03		
24	.	6.54		
25	.	3.59		
26	.	5.36		
27	.	3.84		
28	.	3.35		
29	.	6.14		
30	.	2.53		
31				
TT Monthly Totals	.	.		
Daily Means	.	5.85		
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: MAY Year: 2008 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	DESIERTO ATACAMA
Date				
1	.	19.30	20.17	19.02
2	.	19.57	19.48	18.78
3	.	19.24	19.10	15.33
4	.	19.11	18.73	17.32
5	.	19.22	17.81	17.85
6	.	18.93	16.88	15.28
7	.	18.73	1.37	13.44
8	.	18.33	17.37	10.50
9	13.59	18.34	14.53	9.18
10	13.70	17.92	17.28	11.78
11	11.51	18.36	17.00	14.66
12	11.99	18.17	18.29	11.58
13	13.34	17.93	17.54	10.58
14	13.09	17.81	17.54	13.91
15	13.05	17.50	17.18	15.20
16	11.05	17.80	8.80	5.43
17	14.84	17.60	11.29	12.45
18	16.79	17.85	17.68	15.52
19	17.85	17.73	17.26	15.51
20	15.75	17.69	15.18	8.56
21	17.08	17.62	12.49	4.21
22	17.09	17.63	17.30	14.15
23	15.41	17.44	11.80	13.66
24	17.10	17.40	13.16	3.58
25	14.22	16.98	14.57	3.21
26	17.36	16.79	15.72	7.41
27	16.25	16.84	16.63	5.36
28	16.29	16.34	16.11	10.32
29	14.53	16.62	13.14	15.76
30	10.56	16.65	12.18	7.36
31	13.87	16.62	16.21	15.31
TT Monthly Totals	.	554.05	479.79	372.21
 Daily Means	.	17.87	15.48	12.01
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: MAY Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	12.12	.	8.00	9.21
2	12.12	.	9.88	10.09
3	12.58	.	9.77	8.49
4	12.17	.	6.20	2.56
5	12.11	.	3.48	5.97
6	11.51	.	8.37	7.95
7	7.72	.	9.32	9.49
8	11.02	.	8.43	6.54
9	10.71	.	8.77	6.68
10	10.50	.	8.76	8.82
11	10.83	.	8.59	3.41
12	11.33	.	8.61	6.53
13	10.92	.	8.24	3.95
14	10.51	.	6.52	1.43
15	9.71	.	4.61	1.52
16	9.75	.	6.87	1.38
17	3.22	.	1.07	1.75
18	2.00	.	0.65	1.58
19	1.35	.	1.02	5.60
20	1.16	.	0.96	1.13
21	2.43	.	1.46	4.57
22	2.84	.	2.20	2.92
23	10.05	.	6.53	4.51
24	7.58	.	5.83	6.13
25	3.51	.	1.03	6.08
26	1.11	.	0.93	6.85
27	1.13	.	7.12	6.21
28	9.04	.	8.02	5.48
29	9.97	.	7.94	3.55
30	8.83	.	8.02	6.70
31	9.29	.	6.48	7.30
TT Monthly Totals	249.10	.	183.66	164.39
 Daily Means	8.04	.	5.92	5.30
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: MAY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	.	5.20		
2	.	1.40		
3	.	4.44		
4	.	5.37		
5	.	3.16		
6	.	3.45		
7	.	2.87		
8	.	3.94		
9	.	4.25		
10	.	4.37		
11	.	4.62		
12	.	3.80		
13	.	3.39		
14	.	4.21		
15	.	3.37		
16	.	2.93		
17	.	4.13		
18	.	3.97		
19	.	1.79		
20	.	2.24		
21	.	2.92		
22	.	3.28		
23	.	2.65		
24	.	2.01		
25	.	3.25		
26	.	3.09		
27	.	2.58		
28	.	3.25		
29	.	3.22		
30	.	3.25		
31	.	2.95		
TT Monthly Totals	.	105.35		
 Daily Means	.	3.40		
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: JUNE Year: 2008 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	DESIERTO ATACAMA
Date				
1	14.35	16.10	11.41	6.54
2	14.17	16.54	16.52	14.86
3	10.62	16.51	16.37	14.68
4	15.58	16.46	13.27	4.57
5	13.08	16.55	14.69	14.78
6	13.81	16.59	13.44	4.18
7	14.55	16.21	12.01	5.68
8	8.50	16.38	13.85	13.92
9	10.34	15.33	14.99	15.55
10	8.41	16.39	11.42	13.74
11	8.42	8.53	11.69	7.94
12	6.56	16.00	15.63	13.39
13	11.90	16.04	16.13	13.37
14	10.80	16.14	14.93	10.74
15	7.74	16.33	14.40	11.20
16	15.11	16.17	13.13	9.30
17	12.69	15.09	12.53	8.95
18	14.71	12.10	9.13	3.73
19	5.28	15.21	14.54	10.03
20	8.26	15.77	13.85	14.63
21	10.46	15.69	12.15	11.24
22	5.25	15.77	12.31	9.35
23	12.35	15.80	15.57	12.63
24	13.15	15.41	14.85	13.62
25	5.02	14.64	8.28	5.01
26	7.95	14.51	9.88	12.12
27	13.43	15.16	16.10	14.74
28	13.77	15.72	15.48	8.75
29	12.11	15.80	14.68	13.60
30	9.53	15.85	14.51	9.07
31				
TT Monthly Totals	327.95	464.79	407.74	321.89
 Daily Means	10.93	15.49	13.59	10.73
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: JUNE Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°27' S	34°58' S	36°46' S	41°25' S
Longitude	70°42' W	71°14' W	73°03' W	73°05' W
Elevation	520 m	228 m	12 m	85 m
Station	QUINTA NORMAL	CURICO	CONCEPCION	PUERTO MONTT
Date				
1	4.85	.	7.71	6.95
2	8.94	.	2.46	3.12
3	0.97	.	1.52	5.75
4	0.86	.	2.23	4.18
5	7.78	.	6.92	3.91
6	9.69	.	7.85	4.56
7	9.54	.	7.30	3.47
8	7.68	.	7.26	3.12
9	8.92	.	7.21	1.87
10	8.63	.	7.23	2.81
11	8.81	.	5.48	5.51
12	8.79	.	6.37	2.83
13	8.80	.	5.01	1.78
14	9.20	.	6.27	4.61
15	9.41	.	7.29	3.72
16	9.42	.	7.46	2.40
17	7.51	.	7.01	5.98
18	1.04	.	1.16	2.36
19	2.58	.	2.64	5.47
20	5.97	.	6.86	2.44
21	6.94	.	6.85	6.13
22	5.03	.	3.08	6.40
23	3.80	.	5.88	2.59
24	3.98	.	5.66	4.68
25	8.19	.	6.99	4.03
26	8.82	.	6.85	0.82
27	8.49	.	2.29	1.07
28	8.96	.	6.21	1.33
29	8.36	.	4.20	0.63
30	7.47	.	1.64	6.33
31				
TT Monthly Totals	209.41	.	162.88	110.86
 Daily Means	6.98	.	5.43	3.70
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: JUNE

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°00' S		
Longitude	72°07' W	70°51' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	5.33	2.96		
2	1.31	2.93		
3	4.21	0.75		
4	3.37	1.66		
5	3.19	1.09		
6	4.65	0.94		
7	2.58	1.74		
8	4.64	1.52		
9	1.22	1.75		
10	3.18	2.18		
11	3.14	1.86		
12	3.66	2.64		
13	3.26	1.52		
14	4.70	2.01		
15	2.70	1.21		
16	4.33	1.46		
17	4.58	2.78		
18	5.62	2.33		
19	3.04	2.64		
20	2.94	3.08		
21	2.71	2.69		
22	3.06	1.52		
23	4.49	2.25		
24	2.77	2.48		
25	4.69	1.22		
26	0.50	1.37		
27	0.37	1.23		
28	1.77	2.67		
29	0.37	4.40		
30	3.84	2.16		
31				
TT Monthly Totals	96.23	61.04		
Daily Means	3.21	2.03		
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY		

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

Month: JANUARY Year: 2008 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	4.0	9.3	12.2	10.5
2	6.5	7.7	11.0	8.1
3	6.6	6.1	5.3	10.0
4	9.3	5.8	7.7	10.9
5	4.0	9.5	10.4	10.6
6	7.4	9.3	11.2	8.2
7	4.8	8.3	10.8	2.7
8	4.4	7.1	10.5	4.6
9	5.1	9.1	10.8	6.3
10	6.7	10.5	11.6	11.4
11	7.6	11.6	11.1	9.8
12	3.7	11.0	8.2	10.4
13	8.7	8.1	5.2	9.0
14	7.6	9.1	6.2	8.2
15	7.2	7.6	4.7	7.5
16	7.7	10.6	10.0	11.0
17	1.4	10.6	11.0	8.1
18	11.1	12.0	8.5	11.5
19	9.1	11.4	10.1	11.3
20	1.1	11.2	6.7	11.5
21	3.9	9.8	9.8	9.9
22	6.1	6.9	11.1	9.9
23	10.8	10.5	11.6	11.6
24	8.8	11.8	5.6	11.6
25	11.7	11.9	9.7	11.5
26	11.2	11.9	12.5	11.8
27	8.0	11.9	12.4	11.8
28	7.2	11.8	12.3	11.1
29	10.9	9.5	12.2	11.6
30	7.0	.	11.5	11.3
31	11.3	.	11.1	11.8
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	220.9	.	303.0	305.5
 Daily Means	7.1	9.7	9.8	9.9
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JANUARY Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	9.3	5.4	12.9	12.4
2	11.4	5.8	12.0	12.3
3	8.6	7.4	12.8	12.2
4	12.2	12.6	12.8	12.1
5	7.2	3.8	12.8	12.2
6	8.0	8.1	12.6	11.9
7	12.0	12.8	12.4	11.8
8	7.7	12.6	12.8	12.0
9	5.2	8.8	12.8	12.1
10	6.5	9.5	12.8	11.7
11	9.7	12.6	12.9	12.0
12	12.7	6.4	12.9	12.0
13	11.5	12.6	12.8	12.9
14	6.2	11.2	12.8	11.9
15	9.4	7.4	12.9	12.0
16	10.7	7.2	13.1	11.8
17	8.9	7.0	12.6	11.7
18	4.4	8.9	12.4	11.3
19	12.8	9.9	12.6	11.1
20	12.8	4.0	12.6	11.7
21	12.6	10.9	12.5	11.7
22	9.0	8.3	12.6	11.5
23	3.7	10.7	12.4	11.4
24	7.8	9.5	12.2	11.2
25	9.7	12.8	12.2	11.2
26	3.2	12.9	12.0	10.0
27	12.7	11.7	12.6	11.1
28	13.0	4.6	12.4	10.9
29	11.3	7.0	8.5	7.3
30	7.9	12.7	8.2	8.2
31	12.2	12.7	12.2	11.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	290.3	287.8	382.1	354.8
 Daily Means	9.4	9.3	12.3	11.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JANUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	5.7	12.2	13.7	13.4
2	7.4	6.3	13.9	13.4
3	4.9	12.8	13.8	13.3
4	11.4	12.8	13.8	13.4
5	9.5	4.3	13.8	13.3
6	10.9	4.6	13.5	13.3
7	10.0	5.3	13.7	13.3
8	6.8	7.3	13.6	13.3
9	7.8	4.7	9.2	8.0
10	9.2	12.1	13.7	12.3
11	10.6	13.2	13.6	13.3
12	11.6	12.4	13.6	13.1
13	6.5	5.0	13.7	10.5
14	6.5	10.0	13.6	11.7
15	7.0	12.6	13.6	13.3
16	10.3	12.8	13.6	13.3
17	10.4	4.6	13.5	13.3
18	1.0	8.9	13.2	13.3
19	7.1	3.8	13.3	13.2
20	8.4	1.7	13.4	13.2
21	3.5	11.8	11.9	12.7
22	3.2	6.3	13.2	13.1
23	1.5	7.8	13.2	13.1
24	0.0	9.9	13.2	13.0
25	5.0	10.9	13.2	11.7
26	3.1	12.5	12.8	12.8
27	9.1	11.1	13.4	12.9
28	5.2	1.1	13.4	0.0
29	0.1	1.0	0.0	10.5
30	0.0	9.9	6.4	0.0
31	0.2	10.8	9.0	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	193.9	260.5	387.5	355.0
 Daily Means	6.3	8.4	12.5	11.5
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JANUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	13.1	7.1	12.1	3.9
2	13.2	7.1	10.2	9.9
3	13.0	11.2	13.4	14.0
4	12.8	11.3	13.5	13.9
5	12.9	11.1	13.1	12.9
6	12.9	8.5	13.4	9.7
7	12.9	7.4	7.3	2.5
8	11.3	5.2	4.1	4.2
9	4.4	2.2	2.6	7.1
10	12.9	7.7	10.0	10.6
11	12.9	9.5	11.3	2.9
12	12.6	7.0	1.9	4.0
13	9.1	4.7	8.6	5.8
14	11.5	10.9	8.7	3.5
15	12.6	7.4	11.9	12.6
16	12.8	11.0	13.3	10.1
17	12.7	11.1	7.1	2.2
18	12.7	11.0	10.4	8.3
19	12.4	11.0	13.1	9.5
20	12.7	8.1	8.0	8.9
21	12.4	9.0	9.6	6.4
22	12.5	10.8	9.4	9.8
23	3.8	9.6	13.1	13.9
24	6.2	9.1	12.1	13.9
25	9.0	10.6	8.4	0.4
26	9.8	6.8	10.0	12.0
27	12.4	10.0	13.2	12.8
28	5.6	10.9	12.7	13.0
29	0.2	11.2	9.6	13.3
30	0.0	6.1	9.6	13.7
31	12.3	3.7	7.1	.
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	325.6	268.3	308.8	.
 Daily Means	10.5	8.7	10.0	8.9
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JANUARY

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	8.7	11.9		
2	8.7	11.9		
3	13.3	7.3		
4	5.5	11.8		
5	9.5	13.4		
6	3.8	2.2		
7	6.7	4.3		
8	7.1	8.8		
9	6.1	13.4		
10	9.5	8.5		
11	3.4	3.2		
12	4.5	8.7		
13	6.3	9.8		
14	4.2	12.0		
15	11.4	7.4		
16	12.8	14.3		
17	12.0	7.4		
18	10.9	11.4		
19	12.1	7.2		
20	6.2	6.8		
21	13.1	9.5		
22	12.4	9.8		
23	12.9	14.1		
24	12.4	7.0		
25	13.1	6.4		
26	10.2	10.3		
27	12.3	8.1		
28	12.1	10.4		
29	12.6	0.0		
30	12.6	13.0		
31	11.5	6.9		
TT Monthly Totals				
Daily Means				
SS Monthly Totals	297.9	277.2		
Daily Means	9.6	8.9		
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES		

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

Month: FEBRUARY Year: 2008 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	11.8	11.8	11.6	11.6
2	11.6	11.8	11.9	11.7
3	11.5	10.8	12.1	11.5
4	11.5	11.7	12.1	11.6
5	11.3	11.6	12.2	11.6
6	11.4	11.7	12.1	9.6
7	8.0	11.6	12.0	11.5
8	11.2	11.7	12.0	11.6
9	10.7	11.6	12.3	11.4
10	11.5	11.5	12.0	11.4
11	11.1	11.7	12.0	11.2
12	11.7	11.7	11.6	11.3
13	11.5	11.5	11.9	11.3
14	10.4	11.6	10.6	10.4
15	11.2	11.4	11.8	10.5
16	8.4	10.1	11.0	9.9
17	9.5	8.6	8.0	7.7
18	9.7	10.4	11.4	10.7
19	9.4	11.4	11.6	11.1
20	8.0	11.5	11.4	11.1
21	7.0	10.6	10.9	11.3
22	10.7	11.4	9.7	11.3
23	10.6	11.3	11.2	10.9
24	10.7	11.2	10.4	9.9
25	11.5	8.8	11.5	10.6
26	2.7	10.6	11.6	11.1
27	11.3	10.6	11.6	11.0
28	11.1	11.3	11.6	11.2
29	11.3	11.3	11.5	10.8
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	298.3	322.8	331.6	316.8
 Daily Means	10.3	11.1	11.4	10.9
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: FEBRUARY Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	11.8	12.5	12.4	11.1
2	2.6	9.3	12.0	11.0
3	11.2	8.1	11.7	12.0
4	8.8	5.6	8.2	.
5	7.3	12.5	12.1	10.9
6	9.7	12.5	6.7	6.3
7	10.0	11.2	9.1	8.5
8	12.4	12.3	11.2	10.3
9	9.5	7.4	12.4	10.9
10	12.4	11.9	12.3	11.0
11	12.0	8.1	12.4	11.0
12	11.9	7.1	12.0	10.9
13	10.5	10.9	11.6	11.0
14	10.3	12.1	11.7	11.0
15	9.9	12.0	12.0	11.1
16	8.5	9.2	12.1	11.7
17	9.6	7.8	7.7	7.5
18	8.6	12.0	12.1	11.0
19	10.1	9.9	12.0	11.1
20	11.8	4.6	11.8	11.2
21	9.1	8.0	10.4	.
22	11.8	12.1	11.4	10.8
23	11.8	12.0	11.4	10.5
24	11.5	12.3	11.4	10.2
25	11.5	13.2	11.6	10.5
26	11.4	10.8	11.4	9.8
27	11.2	10.7	9.3	10.0
28	11.4	11.7	11.2	10.4
29	11.5	9.7	10.9	10.4
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	300.1	297.5	322.5	.
 Daily Means	10.3	10.3	11.1	10.4
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRUARY Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	6.1	8.6	13.1	12.6
2	7.1	0.0	11.7	12.7
3	8.6	0.2	12.4	12.7
4	2.2	7.0	7.3	5.2
5	0.0	11.3	12.2	11.5
6	5.6	10.0	4.8	2.7
7	6.8	11.7	5.8	9.8
8	3.6	8.5	11.8	12.3
9	5.7	12.6	13.0	12.6
10	10.2	12.1	13.0	12.6
11	9.9	8.0	12.7	12.1
12	9.0	5.2	12.1	11.7
13	11.1	6.8	12.4	12.0
14	1.1	12.0	11.7	11.1
15	8.3	12.2	12.9	12.0
16	1.4	11.4	12.9	11.9
17	2.2	7.6	9.4	10.8
18	10.5	11.5	12.5	11.8
19	9.7	12.1	12.5	11.9
20	5.5	6.6	12.4	11.0
21	4.3	6.8	12.1	11.2
22	1.8	11.5	11.4	11.5
23	3.3	11.4	12.3	11.0
24	7.0	11.5	12.2	12.2
25	9.4	10.0	11.4	8.7
26	8.1	0.0	9.0	11.7
27	6.5	2.2	8.0	10.2
28	0.6	1.5	11.9	10.7
29	3.5	1.2	12.1	8.0
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	169.1	231.5	327.0	316.2
Daily Means	5.8	8.0	11.3	10.9
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: FEBRUARY Year: 2008 Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	12.3	7.5	8.1	7.6
2	12.4	10.2	12.8	13.3
3	1.8	11.1	12.9	13.4
4	2.2	8.3	12.4	12.7
5	5.4	4.0	10.7	13.1
6	9.0	8.6	12.0	12.7
7	11.8	10.5	12.1	11.1
8	12.5	8.9	12.1	6.1
9	12.2	6.9	8.8	11.4
10	12.5	10.4	12.0	10.9
11	9.1	10.6	12.7	7.0
12	9.7	7.8	7.1	9.6
13	12.3	9.6	4.8	2.2
14	9.8	10.1	11.1	7.2
15	12.4	10.5	12.1	11.2
16	12.3	10.6	11.9	3.8
17	12.2	11.2	1.7	5.4
18	12.3	10.8	12.5	11.5
19	12.1	10.7	11.9	11.0
20	11.9	11.0	12.5	12.0
21	2.6	9.5	11.9	6.1
22	4.7	11.1	12.2	8.8
23	5.1	7.6	7.5	10.2
24	6.9	7.2	10.0	10.2
25	8.5	10.3	11.8	8.3
26	0.0	9.0	11.5	7.8
27	5.4	6.2	8.2	7.8
28	10.0	8.3	9.5	6.5
29	0.4	3.2	1.3	0.4
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	249.8	261.7	296.1	259.3
 Daily Means	8.6	9.0	10.2	8.9
Types of Instruments	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH	HELIOGRAPH
	CAMPBELL	CAMPBELL	CAMPBELL	CAMPBELL
	STOKES	STOKES	STOKES	STOKES

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

Month: FEBRUARY

Year: 2008

Country: CHILE

Daily Totals			
Latitude	45°35' S	53°08' S	
Longitude	72°07'W	70°58' W	
Elevation	310 m	37 m	
Station	COYHAIQUE	PUNTA ARENAS	
Date			
1	4.0	13.7	
2	12.1	0.0	
3	12.2	12.2	
4	12.2	10.0	
5	12.3	9.0	
6	12.4	11.4	
7	8.7	8.1	
8	7.1	0.1	
9	8.7	0.0	
10	7.2	1.1	
11	10.4	8.8	
12	5.9	10.0	
13	3.9	3.7	
14	7.1	12.3	
15	5.9	3.7	
16	7.3	7.1	
17	10.1	10.1	
18	11.9	1.1	
19	6.4	11.3	
20	5.2	7.1	
21	4.5	.	
22	11.4	8.2	
23	11.5	6.8	
24	11.1	6.0	
25	11.3	.	
26	11.3	5.1	
27	10.0	0.7	
28	0.8	5.2	
29	7.0	2.4	
30			
31			
TT Monthly Totals			
Daily Means			
SS Monthly Totals	249.9	.	
Daily Means	8.6	6.5	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MARCH Year: 2008 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	11.0	11.2	11.5	11.3
2	10.0	11.1	11.5	11.0
3	10.9	11.1	11.4	11.0
4	11.0	11.1	11.3	11.2
5	11.1	11.1	11.3	11.4
6	11.0	11.1	11.3	11.1
7	10.9	11.0	11.3	10.5
8	9.8	11.1	11.2	11.1
9	10.1	11.1	11.2	10.8
10	6.0	2.9	9.2	10.6
11	7.3	9.9	10.1	9.4
12	9.1	10.9	11.0	10.9
13	2.2	10.9	11.1	11.2
14	9.9	10.8	11.0	10.8
15	10.7	10.9	10.8	10.6
16	10.7	10.8	10.8	10.6
17	10.7	10.5	10.8	9.9
18	10.6	10.6	10.7	8.6
19	9.2	10.6	10.7	10.4
20	10.6	10.5	10.7	10.3
21	10.4	10.3	10.7	9.3
22	10.6	10.3	10.5	8.7
23	10.6	10.4	10.5	8.7
24	10.0	10.0	10.6	10.0
25	10.3	10.3	9.1	8.1
26	9.7	8.0	10.6	5.0
27	9.2	9.8	10.1	5.3
28	10.5	8.9	10.8	9.3
29	8.5	6.5	10.5	3.3
30	9.7	10.1	10.4	8.7
31	5.7	3.6	10.4	5.8
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	298.0	307.4	333.1	294.9
 Daily Means	9.6	9.9	10.7	9.5
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MARCH Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	8.3	11.6	8.7	8.6
2	12.4	7.7	11.1	10.2
3	11.8	7.2	11.3	10.3
4	10.1	9.2	11.3	10.2
5	10.8	8.0	11.0	10.1
6	11.0	10.4	7.2	6.2
7	11.3	8.9	3.0	3.8
8	6.2	11.8	10.5	9.1
9	6.5	11.7	9.8	9.5
10	9.5	9.6	11.1	9.6
11	8.7	11.5	5.1	4.7
12	9.3	11.3	10.5	9.1
13	9.9	9.6	10.3	9.2
14	9.9	3.8	10.5	9.5
15	11.3	6.3	9.8	8.9
16	10.9	10.6	7.2	6.5
17	10.1	11.1	10.5	9.0
18	11.3	8.4	10.1	9.2
19	11.0	5.3	10.4	8.8
20	10.0	8.9	10.5	9.0
21	10.6	4.9	10.3	.
22	2.2	7.3	10.2	9.8
23	8.2	6.1	7.6	9.5
24	8.8	10.0	9.7	8.2
25	1.1	10.3	10.3	8.7
26	10.1	9.4	10.1	8.7
27	7.7	1.3	10.4	8.9
28	4.5	3.4	10.4	8.8
29	10.0	6.3	10.6	8.8
30	9.7	10.1	10.0	8.7
31	10.2	8.2	10.5	8.7
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	283.4	260.2	300.0	.
 Daily Means	9.1	8.4	9.7	8.7
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MARCH Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	2.3	7.2	6.9	1.0
2	7.4	11.1	9.0	11.3
3	10.5	11.1	11.8	11.5
4	7.5	9.1	11.8	9.3
5	6.9	10.2	10.5	10.3
6	8.2	1.0	3.1	10.5
7	2.7	2.6	1.3	8.2
8	9.3	10.6	11.3	10.6
9	0.6	9.6	11.4	9.3
10	4.2	3.5	11.5	11.4
11	2.0	6.7	4.3	6.0
12	9.3	11.1	10.9	11.0
13	10.1	5.1	11.2	11.4
14	6.1	4.8	10.9	11.4
15	6.9	11.1	9.9	7.2
16	9.2	11.3	9.7	10.7
17	4.0	11.4	10.8	11.0
18	8.4	4.6	10.9	11.5
19	8.2	11.2	10.0	8.8
20	6.2	11.0	8.0	9.8
21	1.9	4.0	10.3	11.6
22	6.4	0.0	10.6	10.3
23	6.4	7.8	4.6	8.4
24	6.4	10.5	8.5	6.3
25	7.0	11.0	9.5	5.6
26	0.3	11.0	9.6	8.2
27	6.0	10.9	10.5	10.7
28	4.5	10.2	10.3	10.5
29	6.7	9.6	10.9	8.8
30	5.4	11.0	9.9	10.2
31	3.9	10.9	8.9	10.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	184.9	261.2	288.8	292.9
 Daily Means	6.0	8.4	9.3	9.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MARCH Year: 2008 Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	4.5	8.3	10.8	8.2
2	11.8	9.9	11.4	10.1
3	9.7	9.8	10.5	10.4
4	10.6	9.8	11.4	10.1
5	10.6	7.6	6.8	8.8
6	11.1	10.2	10.8	9.2
7	10.3	10.5	11.4	11.1
8	6.2	1.0	0.0	3.8
9	10.2	9.6	11.2	9.9
10	10.4	9.6	11.1	9.4
11	6.8	10.7	11.1	10.5
12	11.3	8.7	10.8	9.7
13	11.2	9.1	7.3	5.3
14	8.2	8.8	7.1	8.2
15	6.7	7.9	4.2	2.4
16	10.1	6.9	8.7	2.4
17	10.9	9.7	10.5	6.4
18	9.8	9.5	8.1	5.8
19	4.6	7.6	5.1	1.9
20	10.3	8.0	6.0	1.8
21	10.5	9.2	8.5	8.7
22	10.3	9.2	9.5	9.2
23	0.0	8.8	10.2	8.0
24	0.0	0.5	0.4	3.9
25	2.2	2.5	2.7	1.8
26	8.1	9.5	9.0	9.4
27	10.4	9.4	9.1	9.5
28	10.7	9.4	8.2	9.0
29	7.3	9.3	10.1	6.5
30	7.7	1.5	4.2	2.5
31	10.1	9.3	6.9	4.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	262.6	251.8	253.1	218.2
 Daily Means	8.5	8.1	8.2	7.0
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MARCH

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	11.5	7.9		
2	11.3	3.3		
3	9.6	7.5		
4	10.4	0.8		
5	9.1	3.7		
6	11.0	0.0		
7	9.9	1.3		
8	7.0	9.7		
9	10.1	1.8		
10	10.6	2.3		
11	4.4	7.6		
12	10.9	9.7		
13	9.7	6.6		
14	8.2	0.3		
15	5.4	4.6		
16	2.1	0.0		
17	10.2	10.1		
18	8.6	0.0		
19	4.7	1.2		
20	7.0	4.2		
21	8.6	7.7		
22	6.4	3.5		
23	9.7	0.5		
24	9.8	5.7		
25	0.1	6.2		
26	9.2	6.2		
27	9.0	2.3		
28	9.1	1.8		
29	5.7	9.6		
30	3.3	0.4		
31	7.5	9.2		
TT Monthly Totals				
Daily Means				
SS Monthly Totals	250.1	135.7		
Daily Means	8.1	4.4		
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES		

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

Month: APRIL Year: 2008 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	4.1	3.3	10.6	3.6
2	6.0	4.3	10.5	6.7
3	8.4	10.1	10.5	10.2
4	9.8	10.3	10.5	9.6
5	10.0	10.4	10.6	9.6
6	10.0	10.3	10.6	10.0
7	10.6	10.4	10.6	10.3
8	10.8	10.3	10.7	10.0
9	10.4	10.3	10.8	9.0
10	10.3	10.2	10.8	8.2
11	10.4	10.2	10.7	9.8
12	9.8	10.1	10.6	9.0
13	10.4	10.3	10.8	9.8
14	10.7	10.3	10.7	5.6
15	9.9	10.4	10.7	2.1
16	8.1	10.4	10.7	9.6
17	10.5	10.3	10.8	8.5
18	10.5	10.3	10.7	2.4
19	7.0	10.3	10.7	6.5
20	10.4	10.3	10.7	7.9
21	10.3	10.1	10.4	9.2
22	10.6	10.2	10.3	9.8
23	10.2	10.2	10.3	9.6
24	5.4	4.9	10.3	9.3
25	10.1	10.1	10.4	8.4
26	10.3	10.2	10.4	10.0
27	8.6	10.1	10.0	9.4
28	7.6	7.8	8.0	8.3
29	5.3	7.2	10.1	7.6
30	6.8	10.0	10.1	9.8
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	273.3	283.6	313.6	249.8
 Daily Means	9.1	9.5	10.5	8.3
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: APRIL Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	8.4	9.1	9.9	8.8
2	5.5	7.7	10.4	8.8
3	7.8	10.2	10.5	8.8
4	9.9	5.5	10.3	8.6
5	10.3	6.4	10.3	8.9
6	9.3	4.7	10.3	9.1
7	9.5	4.3	8.9	9.0
8	10.2	.	10.4	9.1
9	4.2	.	10.2	9.1
10	5.0	.	10.1	9.1
11	0.0	9.3	1.3	0.0
12	10.1	9.8	7.2	5.7
13	9.5	6.2	9.7	8.8
14	7.2	9.9	10.2	8.4
15	9.0	8.4	9.6	8.6
16	9.3	10.0	11.2	8.5
17	9.6	8.3	10.0	8.4
18	3.8	5.1	9.9	8.4
19	3.6	3.8	10.0	8.5
20	9.9	3.3	9.8	8.5
21	6.0	2.8	8.0	7.2
22	7.7	5.4	6.1	6.6
23	0.6	9.8	8.6	7.8
24	0.6	5.6	7.9	7.2
25	1.8	0.0	0.0	.
26	4.8	5.1	5.7	5.8
27	8.2	0.0	1.2	1.2
28	6.0	7.1	5.4	5.2
29	9.6	0.0	5.2	5.8
30	8.4	8.6	2.4	5.8
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	205.8	.	240.7	.
 Daily Means	6.9	6.2	8.0	7.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: APRIL Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	3.8	10.5	9.7	9.5
2	8.6	4.8	10.1	8.6
3	8.1	7.2	10.2	10.3
4	8.7	1.5	9.2	8.6
5	7.1	3.1	9.2	8.0
6	3.8	10.9	5.5	9.9
7	5.4	10.3	9.4	9.6
8	2.7	10.7	9.2	9.3
9	0.9	10.4	9.3	9.2
10	4.8	10.7	5.4	1.9
11	2.9	1.7	0.0	6.5
12	5.8	6.7	9.3	8.7
13	5.6	10.3	6.9	9.2
14	2.6	10.3	9.4	9.4
15	5.5	7.4	9.6	9.5
16	2.4	9.1	9.5	9.1
17	2.0	10.8	8.2	9.7
18	5.9	8.8	6.7	3.7
19	6.0	10.5	7.4	9.2
20	6.4	0.0	9.7	6.5
21	0.0	0.0	2.9	5.3
22	0.9	0.0	3.6	3.0
23	1.1	0.0	3.4	3.7
24	0.0	0.0	3.8	5.4
25	2.4	0.0	0.0	3.4
26	1.0	6.5	6.3	0.0
27	4.3	0.4	0.0	0.0
28	6.2	4.6	0.9	8.9
29	1.2	5.5	6.2	10.1
30	1.3	8.3	6.8	9.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	117.4	181.0	197.8	215.2
 Daily Means	3.9	6.0	6.6	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: APRIL Year: 2008 Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	9.9	6.0	4.6	4.4
2	10.0	9.6	10.4	9.4
3	10.7	9.5	10.3	4.4
4	8.9	7.0	3.6	9.0
5	6.9	2.8	0.8	1.3
6	9.4	3.1	5.6	3.5
7	9.3	4.7	3.3	2.0
8	9.9	7.5	1.7	0.7
9	6.0	2.2	1.1	1.0
10	0.1	0.0	0.0	5.1
11	8.9	9.2	8.8	7.5
12	7.9	0.1	2.3	2.9
13	10.1	7.9	6.9	6.1
14	10.2	8.9	9.3	8.6
15	10.0	7.9	6.1	1.6
16	10.0	0.0	2.4	6.7
17	10.1	5.6	3.5	0.0
18	7.9	7.7	3.1	0.0
19	10.0	8.2	2.5	1.2
20	3.1	3.9	0.4	0.0
21	6.8	0.0	.	3.7
22	9.7	3.9	7.7	8.0
23	9.7	3.0	5.4	4.7
24	9.4	5.5	6.7	1.5
25	0.0	4.3	.	.
26	0.0	4.3	0.2	0.0
27	0.0	1.0	6.7	4.2
28	9.1	8.8	7.7	5.0
29	9.8	7.6	6.4	6.7
30	0.7	7.7	6.6	3.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	224.5	157.9	.	.
 Daily Means	7.5	5.3	4.8	3.9
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: APRIL

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	4.2	1.1		
2	1.4	1.0		
3	2.6	4.0		
4	6.4	5.2		
5	0.9	.		
6	5.4	2.5		
7	1.8	3.7		
8	0.0	8.8		
9	7.8	4.7		
10	8.2	4.7		
11	7.1	1.5		
12	4.4	3.5		
13	7.6	6.8		
14	6.1	6.2		
15	4.3	5.2		
16	7.0	0.6		
17	0.2	0.0		
18	5.8	8.0		
19	3.8	0.4		
20	8.3	6.3		
21	7.5	5.2		
22	0.9	4.5		
23	7.2	5.4		
24	7.6	8.1		
25	8.0	2.0		
26	1.0	4.4		
27	5.7	2.4		
28	7.3	2.2		
29	6.0	7.0		
30	3.6	1.2		
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	148.1	.		
Daily Means	4.9	4.0		
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES		

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

Month: MAY Year: 2008 Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	7.6	10.1	10.1	9.8
2	7.7	8.9	10.1	9.5
3	9.7	10.1	10.1	9.0
4	7.8	6.4	9.9	8.1
5	6.0	8.9	10.1	7.2
6	5.3	5.1	10.1	6.8
7	5.2	8.4	10.1	6.9
8	6.9	9.9	10.1	6.9
9	5.3	7.4	10.0	4.2
10	4.8	4.4	9.7	6.8
11	4.6	4.0	9.9	7.1
12	4.5	1.9	10.1	8.8
13	5.2	6.1	10.0	7.8
14	5.7	8.3	10.0	8.7
15	5.3	8.9	10.0	7.9
16	4.2	0.2	9.8	1.4
17	3.9	7.5	10.0	4.3
18	7.7	9.8	9.9	8.9
19	8.1	9.8	9.8	8.0
20	7.1	8.4	10.0	6.3
21	7.3	8.7	10.0	3.8
22	8.0	9.7	9.9	8.8
23	7.1	9.5	10.0	4.3
24	9.6	9.8	9.9	4.6
25	6.2	9.9	9.7	5.7
26	10.2	9.8	9.1	6.9
27	7.9	9.9	9.7	8.7
28	9.6	9.8	9.7	8.0
29	6.8	7.6	9.8	4.7
30	4.8	5.6	9.7	3.7
31	5.9	8.5	9.5	7.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	206.0	243.3	306.8	210.9
 Daily Means	6.6	7.8	9.9	6.8
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	8.6	10.0	8.5	9.4
2	2.8	10.1	9.1	7.4
3	8.8	6.8	9.2	7.7
4	7.8	6.8	8.9	7.3
5	6.5	7.2	8.9	8.0
6	8.2	5.8	8.9	7.9
7	9.7	4.7	5.0	4.7
8	5.8	1.4	8.3	6.5
9	8.7	3.5	8.2	6.8
10	3.7	5.7	8.3	6.7
11	4.7	6.1	8.9	7.0
12	6.9	6.1	8.9	7.8
13	7.2	2.6	8.9	7.5
14	8.2	5.6	8.3	7.0
15	7.6	6.2	8.6	7.4
16	0.1	0.0	7.7	6.2
17	6.7	4.6	0.0	0.0
18	8.2	1.1	0.0	0.0
19	8.2	5.7	0.0	.
20	9.1	8.9	0.3	0.0
21	7.9	7.5	0.0	0.0
22	2.0	7.3	0.1	0.1
23	0.0	8.0	7.7	6.8
24	0.3	0.0	4.1	3.3
25	0.0	0.0	0.5	0.6
26	4.9	0.0	0.0	0.0
27	8.8	0.5	0.5	0.0
28	4.2	8.5	7.6	6.3
29	8.5	9.4	8.1	7.1
30	7.8	4.2	5.3	5.2
31	3.2	5.9	7.1	6.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	185.1	160.2	175.9	.
 Daily Means	6.0	5.2	5.7	5.0
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	7.0	11.0	9.0	6.9
2	0.7	10.1	5.0	8.1
3	1.0	4.2	8.6	8.5
4	4.6	2.1	8.9	8.6
5	5.7	2.6	3.0	1.8
6	3.9	1.9	0.7	6.2
7	0.8	8.7	4.8	8.9
8	2.4	9.6	9.0	7.2
9	2.1	4.7	3.9	8.0
10	4.8	8.2	3.1	7.2
11	3.7	6.2	8.4	5.6
12	6.1	9.5	8.7	9.0
13	5.1	2.9	6.4	6.9
14	0.0	6.3	8.6	2.7
15	0.0	7.3	5.6	6.9
16	0.0	2.9	5.4	4.3
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	.
19	0.0	0.0	0.0	0.0
20	1.2	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.3	0.0	0.0	0.3
23	5.1	8.4	7.9	7.0
24	5.5	6.7	2.4	5.2
25	1.5	0.2	0.0	0.0
26	0.9	0.0	0.0	0.0
27	4.9	0.0	0.0	0.0
28	3.1	3.6	4.2	3.1
29	3.3	9.5	0.2	5.8
30	0.3	6.3	0.0	4.0
31	0.0	5.2	5.5	0.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	74.0	138.1	119.3	.
 Daily Means	2.4	4.5	3.8	4.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY Year: 2008 Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	6.3	6.0	2.7	5.8
2	9.5	5.4	2.2	7.3
3	9.3	5.1	4.0	5.4
4	3.8	1.7	0.0	0.2
5	0.1	0.0	6.0	2.5
6	7.4	5.5	6.1	7.2
7	9.2	7.9	8.2	6.5
8	7.9	6.6	4.0	3.5
9	9.2	5.5	5.2	3.4
10	9.3	3.9	0.0	5.5
11	8.5	2.9	1.2	0.0
12	9.4	7.8	7.1	3.3
13	8.0	2.1	3.4	0.7
14	4.5	0.9	0.8	0.0
15	0.3	0.0	0.0	0.0
16	4.2	0.2	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	2.0
20	0.0	2.0	0.0	0.0
21	0.0	0.0	0.1	2.5
22	0.5	2.2	1.6	0.8
23	6.3	7.5	5.4	0.9
24	4.0	5.0	0.8	3.7
25	0.0	0.0	0.0	4.5
26	0.0	0.0	1.8	3.0
27	2.6	4.3	1.7	4.8
28	8.0	7.4	6.2	1.1
29	8.1	7.2	2.0	1.7
30	7.6	4.0	0.0	2.0
31	5.7	7.0	0.0	4.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	149.7	108.1	70.5	82.3
 Daily Means	4.8	3.5	2.3	2.7
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY

Year: 2008

Country: CHILE

Daily Totals			
Latitude	45°35' S	53°08' S	
Longitude	72°07'W	70°58' W	
Elevation	310 m	37 m	
Station	COYHAIQUE	PUNTA ARENAS	
Date			
1	7.3	4.5	
2	1.5	0.0	
3	2.9	5.6	
4	4.5	7.7	
5	3.7	3.0	
6	4.1	1.7	
7	4.2	1.8	
8	2.0	4.6	
9	0.9	6.2	
10	0.4	6.5	
11	1.0	7.9	
12	6.2	5.0	
13	2.8	3.7	
14	0.0	6.4	
15	5.1	5.5	
16	2.4	3.7	
17	0.0	7.1	
18	0.0	7.7	
19	5.4	1.0	
20	0.0	0.8	
21	0.0	3.3	
22	0.0	.	
23	2.6	2.2	
24	1.6	0.3	
25	5.3	5.9	
26	4.5	6.0	
27	6.0	4.6	
28	3.7	.	
29	6.0	6.9	
30	3.2	6.9	
31	0.0	5.6	
TT Monthly Totals			
Daily Means			
SS Monthly Totals	87.3	.	
Daily Means	2.8	4.6	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE Year: 2008 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	6.2	0.1	9.1	3.6
2	6.4	9.4	9.7	9.5
3	4.4	6.0	9.5	8.0
4	7.9	7.6	9.4	5.2
5	5.8	7.5	9.3	7.0
6	6.3	2.9	9.5	3.8
7	7.1	9.3	9.4	3.4
8	2.5	2.6	9.4	5.2
9	3.9	4.2	7.9	6.1
10	3.4	0.0	9.3	2.4
11	2.0	0.4	0.8	3.9
12	0.7	4.1	9.3	8.2
13	3.8	9.3	9.4	8.3
14	3.9	6.0	9.3	6.5
15	1.1	5.3	9.5	6.0
16	7.8	8.3	9.3	4.9
17	5.3	1.2	8.7	4.4
18	7.4	2.3	5.4	2.3
19	0.0	5.5	8.3	7.0
20	1.6	4.4	9.6	5.6
21	4.7	3.9	9.7	3.9
22	0.0	0.0	9.6	4.4
23	5.0	6.2	9.6	7.5
24	5.4	7.7	9.4	7.2
25	0.1	1.9	8.6	1.6
26	0.0	2.0	8.7	3.4
27	5.6	9.7	9.2	8.1
28	6.2	2.4	9.2	7.1
29	5.5	8.1	9.3	6.4
30	3.9	6.7	9.2	6.0
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	123.9	145.0	264.6	166.9
Daily Means	4.1	4.8	8.8	5.6
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JUNE Year: 2008 Country: CHILE

Daily Totals				
Latitude	27°10' S	29°57' S	33°23' S	33°27' S
Longitude	109°26' W	71°22' W	70°47' W	70°42' W
Elevation	47 m	25 m	474 m	520 m
Station	ISLA DE PASCUA	LA SERENA	PUDAHUEL	QUINTA NORMAL
Date				
1	4.7	0.0	1.8	1.9
2	1.6	8.3	7.3	6.5
3	9.1	3.5	0.0	0.0
4	3.5	3.3	0.0	0.0
5	7.2	9.1	7.7	5.8
6	8.6	0.0	8.3	6.8
7	5.9	7.5	7.9	6.6
8	2.1	8.8	6.2	1.7
9	7.4	9.4	8.0	6.3
10	1.3	9.2	7.1	6.2
11	1.8	4.5	8.2	6.9
12	0.1	4.6	8.3	7.9
13	8.3	3.7	8.3	6.8
14	5.5	10.1	8.1	6.7
15	7.9	0.0	8.6	7.1
16	7.7	0.0	8.5	7.1
17	8.3	6.3	5.2	5.3
18	0.4	0.0	0.0	0.0
19	6.3	0.7	0.3	0.4
20	7.7	7.0	0.1	1.5
21	4.8	5.7	5.7	4.1
22	8.0	4.0	0.9	0.1
23	7.0	8.5	0.0	0.0
24	7.2	9.0	0.1	0.2
25	5.0	1.6	5.2	4.9
26	0.0	8.2	8.5	7.2
27	6.9	8.8	7.5	6.5
28	4.6	7.7	8.0	7.1
29	7.6	0.0	6.9	6.3
30	8.3	7.5	6.6	6.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	164.8	157.0	159.3	133.9
 Daily Means	5.5	5.2	5.3	4.5
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JUNE Year: 2008 Country: CHILE

Daily Totals				
Latitude	33°37' S	33°39' S	34°58' S	36°36' S
Longitude	78°50' W	71°36' W	71°12' W	72°26' W
Elevation	30 m	74 m	225 m	124 m
Station	ROBINSON CRUSOE	SANTO DOMINGO	CURICO	CHILLAN
Date				
1	0.0	2.0	2.0	3.0
2	2.3	7.8	6.7	1.4
3	1.5	0.0	0.0	0.0
4	5.2	0.0	0.0	0.0
5	6.1	7.9	7.6	6.5
6	3.3	9.3	3.0	3.1
7	5.4	6.6	6.8	4.0
8	4.4	8.8	0.0	5.5
9	5.2	9.4	7.1	7.3
10	4.4	9.2	7.9	0.3
11	0.4	9.1	4.9	8.8
12	1.1	7.7	2.9	7.2
13	5.7	8.4	3.0	9.5
14	5.0	9.2	4.7	7.5
15	1.0	9.3	5.1	8.9
16	4.7	2.1	3.9	8.2
17	3.1	0.0	1.1	.
18	2.0	0.1	0.0	0.0
19	1.2	3.0	0.0	0.0
20	2.4	1.8	6.1	8.6
21	1.2	5.8	7.1	5.5
22	3.0	4.1	1.3	0.9
23	6.3	3.6	8.3	1.9
24	0.0	0.0	0.0	.
25	4.8	6.0	0.0	0.0
26	1.7	7.5	3.3	3.1
27	0.4	7.7	0.0	3.0
28	1.8	7.1	0.0	5.8
29	3.9	5.9	0.4	2.4
30	0.0	5.9	4.3	0.0
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	87.5	165.3	97.5	.
Daily Means	2.9	5.5	3.3	4.0
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JUNE Year: 2008 Country: CHILE

Daily Totals				
Latitude	36°46' S	38°45' S	39°41' S	41°26' S
Longitude	73°03' W	72°38' W	73°04' W	73°07' W
Elevation	12 m	114 m	19 m	81 m
Station	CONCEPCION	TEMUCO	VALDIVIA	PUERTO MONTT
Date				
1	8.7	6.9	0.0	4.0
2	0.3	0.6	0.0	0.0
3	0.0	3.0	1.4	3.2
4	0.2	0.0	0.7	2.8
5	6.8	3.7	0.0	1.3
6	7.8	2.9	4.1	2.0
7	7.6	4.5	2.9	1.8
8	7.4	2.8	4.5	0.7
9	7.9	0.8	0.0	0.0
10	6.9	3.4	3.2	0.0
11	5.5	3.2	2.9	2.9
12	6.6	4.7	0.6	0.0
13	4.9	0.4	0.1	0.7
14	6.4	4.7	4.6	3.2
15	8.7	7.5	5.1	0.0
16	8.6	4.5	0.0	0.0
17	6.6	0.0	0.0	2.5
18	0.0	0.3	0.0	0.0
19	0.4	1.2	0.0	3.1
20	6.8	4.1	1.3	0.0
21	7.2	4.4	1.4	2.7
22	0.0	0.4	1.0	4.5
23	5.8	5.0	1.8	0.0
24	5.3	0.3	0.0	1.6
25	7.9	0.0	0.0	0.9
26	7.9	3.4	0.0	0.0
27	0.0	4.8	0.2	0.0
28	4.6	1.9	0.0	0.0
29	1.5	0.3	0.1	0.0
30	0.0	0.0	6.5	5.4
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	148.3	79.7	42.4	43.3
 Daily Means	4.9	2.7	1.4	1.4
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JUNE

Year: 2008

Country: CHILE

Daily Totals				
Latitude	45°35' S	53°08' S		
Longitude	72°07'W	70°58' W		
Elevation	310 m	37 m		
Station	COYHAIQUE	PUNTA ARENAS		
Date				
1	3.6	7.0		
2	0.0	5.6		
3	3.4	0.0		
4	2.1	0.9		
5	0.0	0.1		
6	5.0	.		
7	0.1	0.2		
8	5.8	0.0		
9	0.1	1.8		
10	1.3	3.2		
11	0.8	3.2		
12	2.1	5.7		
13	2.9	1.6		
14	6.2	0.0		
15	0.9	0.0		
16	5.0	2.7		
17	6.2	6.4		
18	2.7	5.0		
19	0.9	6.3		
20	0.0	0.0		
21	0.5	1.3		
22	0.5	1.1		
23	6.0	4.3		
24	2.7	.		
25	5.5	1.8		
26	0.0	0.0		
27	0.0	0.0		
28	0.0	6.0		
29	0.0	3.8		
30	5.2	2.5		
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	69.5	.		
Daily Means	2.3	2.5		
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES		