



DIRECCIÓN METEOROLÓGICA DE CHILE



INFORME
SOLARIMÉTRICO
I SEMESTRE 2010



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: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	.	31.82	27.95	25.91
2	.	31.61	26.95	21.33
3	.	28.51	28.51	20.94
4	.	31.17	28.05	12.05
5	.	25.79	28.90	20.67
6	.	29.92	30.25	24.26
7	.	29.32	29.42	27.14
8	.	31.45	31.34	24.38
9	.	31.13	22.36	22.28
10	.	31.04	31.02	25.07
11	.	30.12	28.52	27.31
12	.	30.38	29.56	29.25
13	.	30.54	29.49	23.74
14	.	30.50	27.61	26.32
15	.	30.63	29.26	22.54
16	.	30.92	29.24	24.66
17	.	30.91	29.07	19.99
18	.	30.35	30.90	20.88
19	.	30.88	29.01	16.98
20	.	30.44	28.33	19.44
21	.	30.05	29.73	25.04
22	.	29.71	27.50	27.94
23	.	30.41	29.67	28.54
24	.	30.03	29.22	31.38
25	.	29.96	29.33	31.27
26	.	29.95	29.61	30.35
27	.	29.92	29.15	26.17
28	.	29.46	27.50	20.78
29	.	27.57	28.25	26.20
30	.	27.27	27.90	27.58
31	.	27.91	27.38	11.31
TT Monthly Totals	.	929.67	890.98	741.71
 Daily Means	.	29.99	28.74	23.93
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: 2010

Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	29.39	.	12.09	14.80
2	29.17	.	19.39	20.47
3	29.43	.	24.76	12.11
4	29.12	.	9.54	18.22
5	28.72	.	24.23	15.43
6	29.39	.	14.11	22.67
7	28.82	.	13.89	15.10
8	29.17	.	13.79	13.29
9	29.27	.	11.54	16.55
10	29.02	.	21.47	12.38
11	29.96	.	18.95	13.26
12	29.59	.	16.91	9.56
13	29.41	.	14.95	9.76
14	28.77	.	28.64	21.92
15	25.33	.	28.44	7.20
16	26.81	.	5.98	21.80
17	23.92	.	19.95	9.05
18	13.89	.	11.24	11.22
19	28.27	.	17.03	12.44
20	28.11	.	11.26	13.51
21	27.71	.	27.45	25.83
22	27.90	.	27.78	13.53
23	28.02	.	27.98	11.94
24	27.12	.	28.37	27.33
25	3.86	.	28.63	13.90
26	26.62	.	22.40	26.91
27	26.77	.	20.68	9.54
28	27.67	.	22.36	19.52
29	26.90	.	24.46	17.48
30	28.12	.	25.64	24.72
31	28.18	.	13.63	14.74
TT Monthly Totals	834.41	.	607.52	496.19
 Daily Means	26.92	.	19.60	16.01
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: JANUARY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	15.40			
2	27.02			
3	15.42			
4	21.76			
5	25.35			
6	19.64			
7	10.20			
8	11.85			
9	15.72			
10	13.47			
11	9.91			
12	27.65			
13	11.19			
14	17.07			
15	20.82			
16	22.94			
17	26.90			
18	20.92			
19	18.71			
20	18.73			
21	19.99			
22	25.82			
23	5.03			
24	24.69			
25	14.43			
26	26.59			
27	21.39			
28	17.59			
29	21.09			
30	12.71			
31	18.80			
TT Monthly Totals	578.80			
Daily Means	18.67			
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY			

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

Month: FEBRUARY Year: 2010 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	24.18	27.73	27.12	15.32
2	24.80	29.63	27.87	10.81
3	20.03	29.48	23.62	15.66
4	19.60	29.77	27.82	15.83
5	19.60	26.65	13.81	24.35
6	20.70	27.67	25.85	28.39
7	25.63	28.68	26.51	29.41
8	24.67	28.78	28.84	29.46
9	22.83	29.30	27.16	11.13
10	14.86	28.99	23.56	19.53
11	21.74	28.30	27.97	29.39
12	24.74	27.69	27.44	27.61
13	24.55	27.66	27.83	20.44
14	21.63	28.05	28.05	17.23
15	24.42	28.35	27.16	14.87
16	19.23	28.00	24.99	21.76
17	24.51	27.69	27.67	28.38
18	24.00	27.70	27.42	27.12
19	22.99	24.96	23.54	27.94
20	23.49	24.25	25.90	23.93
21	17.15	27.19	18.11	11.90
22	21.14	26.77	26.74	25.65
23	23.34	26.78	27.64	19.61
24	21.66	26.21	26.37	26.38
25	20.13	22.63	25.31	18.98
26	23.14	25.27	27.12	26.82
27	23.21	25.92	26.99	27.43
28	21.60	26.15	26.87	26.67
29				
30				
31				
TT Monthly Totals	619.55	766.23	725.28	621.99
 Daily Means	22.13	27.37	25.90	22.21
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: 2010 Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	27.62	.	11.34	18.84
2	27.64	.	11.68	7.96
3	27.49	.	21.67	19.22
4	25.35	.	4.75	10.61
5	26.92	.	10.99	11.46
6	26.86	.	6.27	13.87
7	26.11	.	11.02	16.71
8	27.21	.	5.35	11.42
9	26.90	.	18.19	13.99
10	26.36	.	20.90	14.83
11	26.01	.	25.39	18.64
12	24.89	.	16.35	6.26
13	25.77	.	20.81	12.63
14	21.47	.	22.26	22.79
15	25.88	.	24.66	23.31
16	25.46	.	9.37	18.53
17	23.93	.	11.51	10.83
18	25.32	.	10.49	11.00
19	25.02	.	13.95	16.41
20	24.60	.	22.65	21.08
21	24.81	.	14.70	21.53
22	18.41	.	11.19	20.59
23	24.27	.	20.67	21.78
24	23.92	.	24.12	20.95
25	17.17	.	23.78	21.43
26	22.56	.	16.23	20.91
27	18.98	.	16.98	20.54
28	22.53	.	23.32	20.72
29				
30				
31				
TT Monthly Totals	689.47	.	450.59	468.85
 Daily Means	24.62	.	16.09	16.74
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: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	17.10			
2	20.13			
3	13.91			
4	24.01			
5	12.01			
6	10.79			
7	22.09			
8	11.29			
9	16.02			
10	17.02			
11	19.65			
12	14.59			
13	14.11			
14	15.03			
15	17.06			
16	22.48			
17	20.39			
18	7.60			
19	16.57			
20	12.33			
21	5.15			
22	15.95			
23	17.90			
24	9.95			
25	14.31			
26	19.50			
27	10.63			
28	19.41			
29				
30				
31				
TT Monthly Totals	436.99			
Daily Means	15.61			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

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

Month: MARCH Year: 2010 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	23.36	26.27	25.72	25.79
2	21.57	26.39	27.68	25.90
3	22.76	26.64	27.50	27.46
4	22.88	26.66	27.96	27.10
5	22.07	26.78	26.90	22.43
6	22.69	26.44	24.35	12.93
7	22.78	25.99	24.61	9.19
8	22.54	25.77	26.79	21.22
9	22.43	25.66	26.75	10.48
10	22.18	25.46	24.73	9.84
11	21.96	25.23	24.99	21.12
12	22.07	25.01	13.43	24.87
13	22.00	25.20	26.45	21.41
14	22.03	25.16	25.82	25.83
15	22.01	25.08	25.87	18.95
16	22.02	24.53	25.88	17.30
17	17.90	24.38	25.75	23.58
18	21.42	24.28	25.50	19.62
19	21.13	23.96	25.23	21.85
20	21.01	23.81	24.95	20.14
21	20.30	24.24	20.56	17.39
22	9.43	23.98	8.45	12.22
23	20.91	24.18	24.47	24.23
24	21.06	23.93	24.32	23.85
25	17.62	23.82	23.76	18.41
26	20.60	23.08	23.48	8.53
27	19.44	23.07	20.70	14.14
28	15.96	23.45	22.28	9.98
29	15.18	23.06	23.08	11.33
30	19.11	22.95	22.34	18.85
31	19.94	22.47	20.58	22.33
TT Monthly Totals	638.34	766.92	740.90	588.28
 Daily Means	20.59	24.74	23.90	18.98
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: 2010

Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	20.59	.	22.10	18.85
2	13.80	.	6.74	20.73
3	22.32	.	11.65	11.11
4	22.49	.	6.41	9.52
5	22.37	.	17.04	19.46
6	22.07	.	19.17	15.90
7	20.43	.	6.32	9.27
8	21.51	.	16.65	13.99
9	21.43	.	15.21	18.30
10	21.25	.	20.49	17.21
11	20.55	.	20.95	18.71
12	18.96	.	20.52	11.06
13	21.28	.	9.99	14.15
14	21.11	.	6.65	16.93
15	21.16	.	19.45	6.88
16	20.70	.	7.90	6.95
17	16.64	.	8.53	14.52
18	20.12	.	10.40	15.81
19	19.46	.	16.94	14.39
20	19.79	.	9.24	13.71
21	19.85	.	5.46	11.08
22	18.26	.	7.50	12.88
23	19.42	.	10.32	6.90
24	18.65	.	12.39	6.07
25	17.99	.	15.11	5.58
26	18.06	.	4.69	12.81
27	18.75	.	11.20	3.56
28	18.83	.	5.72	5.99
29	18.09	.	8.76	8.84
30	18.04	.	8.33	8.33
31	17.80	.	7.45	12.20
TT Monthly Totals	611.75	.	369.26	381.70
 Daily Means	19.73	.	11.91	12.31
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: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	10.11			
2	14.04			
3	13.32			
4	14.58			
5	10.97			
6	12.41			
7	9.86			
8	9.80			
9	5.61			
10	10.02			
11	8.30			
12	4.47			
13	8.00			
14	9.02			
15	7.61			
16	14.88			
17	14.07			
18	10.95			
19	14.45			
20	6.14			
21	9.34			
22	8.72			
23	12.97			
24	4.30			
25	8.43			
26	4.56			
27	8.25			
28	12.00			
29	11.57			
30	4.82			
31	9.14			
TT Monthly Totals	302.71			
Daily Means	9.76			
SS Monthly Totals				
Daily Means				
Types of	PYRANOMETER			
Instruments	PSP EPPLEY			

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

Month: APRIL Year: 2010 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	19.81	22.24	22.16	21.98
2	19.61	22.05	21.31	13.32
3	16.43	22.19	21.16	14.42
4	18.45	22.03	20.23	13.54
5	12.19	22.01	20.28	6.62
6	19.09	21.08	21.29	8.61
7	14.00	21.66	20.99	10.69
8	12.55	21.71	19.88	7.73
9	9.15	21.36	19.77	6.23
10	17.20	21.40	20.41	7.81
11	14.58	21.42	17.77	9.61
12	18.46	21.46	16.84	15.62
13	18.00	21.11	19.23	9.50
14	18.30	20.42	20.14	19.98
15	18.24	20.67	18.87	18.78
16	17.66	18.48	17.66	16.17
17	14.48	10.20	15.81	19.89
18	13.92	19.87	19.48	20.30
19	6.13	19.87	17.55	19.52
20	10.70	19.77	17.97	12.42
21	8.66	19.57	18.71	7.82
22	7.89	19.79	19.41	15.15
23	12.31	19.85	17.69	16.82
24	6.90	19.79	16.34	10.44
25	17.30	19.74	18.45	19.29
26	15.69	19.53	18.74	18.81
27	16.70	19.54	18.19	11.60
28	10.38	16.46	12.17	15.82
29	8.11	18.62	4.73	10.37
30	12.04	14.74	16.69	17.06
31				
TT Monthly Totals	424.93	598.61	549.92	415.90
 Daily Means	14.16	19.95	18.33	13.86
SS Monthly Totals				
 Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY	PYRANOMETER PSP EPPLEY

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

Month: APRIL

Year: 2010

Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	9.79	.	7.96	5.56
2	17.15	.	9.25	5.80
3	18.03	.	14.83	8.40
4	17.84	.	15.31	6.01
5	17.53	.	14.33	7.97
6	9.99	.	9.75	5.29
7	15.61	.	13.02	6.42
8	16.42	.	11.90	11.04
9	15.07	.	9.63	6.78
10	15.42	.	3.88	8.17
11	16.00	.	8.94	6.90
12	13.99	.	7.13	9.88
13	15.67	.	.	11.15
14	15.84	.	.	8.72
15	15.12	.	.	3.87
16	3.29	.	.	3.93
17	11.79	.	.	7.80
18	8.32	.	.	9.58
19	10.91	.	.	9.26
20	6.38	.	6.13	7.37
21	10.62	.	7.82	5.04
22	10.57	.	10.11	1.40
23	9.50	.	3.11	5.19
24	9.56	.	3.72	4.06
25	10.01	.	3.51	7.30
26	7.36	.	4.02	3.76
27	12.39	.	4.66	8.65
28	12.39	.	6.32	2.70
29	12.70	.	7.06	8.53
30	12.54	.	3.04	6.72
31				
TT Monthly Totals	377.81	.	.	203.26
 Daily Means	12.59	.	.	6.78
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: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	2.10			
2	9.26			
3	3.88			
4	6.58			
5	3.05			
6	8.66			
7	6.25			
8	9.26			
9	8.12			
10	6.40			
11	4.60			
12	8.16			
13	3.25			
14	6.55			
15	5.47			
16	7.61			
17	7.61			
18	4.78			
19	5.89			
20	7.03			
21	6.56			
22	3.57			
23	6.04			
24	6.36			
25	1.93			
26	1.99			
27	5.39			
28	3.61			
29	4.76			
30	1.67			
31				
TT Monthly Totals	166.39			
Daily Means	5.55			
SS Monthly Totals				
Daily Means				
Types of Instruments	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: MAY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	15.29	12.26	12.54	15.03
2	17.82	17.54	15.69	16.82
3	18.79	18.89	17.95	19.24
4	9.67	18.91	11.77	7.17
5	8.90	18.79	12.45	13.96
6	15.47	18.82	18.07	18.56
7	8.70	18.85	18.63	13.81
8	11.22	18.72	17.64	15.56
9	12.71	18.77	15.97	15.84
10	17.47	18.46	16.99	14.54
11	12.30	18.53	16.30	12.08
12	13.56	16.37	15.88	8.96
13	16.99	16.33	13.88	15.93
14	15.05	12.30	8.91	7.09
15	5.09	7.67	8.63	12.87
16	7.40	13.52	11.86	4.67
17	14.77	17.85	17.10	17.43
18	17.26	17.61	16.76	17.12
19	13.43	15.67	13.01	8.40
20	12.75	16.91	14.19	11.20
21	11.96	16.75	13.62	4.79
22	5.21	15.38	12.72	10.21
23	9.14	16.73	13.54	15.36
24	11.00	17.15	15.33	15.29
25	11.54	16.86	14.00	6.18
26	12.14	15.07	13.99	11.41
27	14.16	16.95	15.54	14.17
28	5.89	14.46	8.58	3.27
29	16.04	16.28	15.94	15.59
30	15.39	16.62	13.52	16.23
31	5.59	16.65	6.20	2.96
TT Monthly Totals	382.68	511.67	437.22	381.74
 Daily Means	12.34	16.51	14.10	12.31
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: 2010 Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	11.38	.	2.56	1.03
2	4.73	.	2.93	2.02
3	12.11	.	4.80	8.18
4	10.34	.	1.15	4.88
5	2.70	.	4.81	5.42
6	1.96	.	5.91	7.05
7	11.71	.	6.51	6.79
8	11.80	.	9.00	1.06
9	12.52	.	9.74	2.49
10	11.85	.	8.73	5.10
11	11.19	.	5.93	1.52
12	10.11	.	8.20	4.79
13	3.98	.	4.01	6.85
14	2.39	.	7.92	4.62
15	8.27	.	9.44	3.43
16	6.70	.	6.06	1.51
17	10.76	.	1.74	2.93
18	8.95	.	1.61	1.24
19	10.12	.	5.84	6.09
20	9.89	.	3.82	1.67
21	5.16	.	2.99	1.24
22	4.34	.	4.25	1.38
23	10.59	.	4.08	2.73
24	9.88	.	3.10	3.93
25	3.64	.	7.15	4.79
26	5.63	.	3.32	3.04
27	9.83	.	7.83	5.35
28	5.77	.	4.45	1.37
29	4.49	.	5.27	3.36
30	10.10	.	5.47	1.85
31	9.70	.	6.03	5.13
TT Monthly Totals	252.56	.	164.64	112.84
 Daily Means	8.15	.	5.31	3.64
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: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	4.35			
2	4.18			
3	5.98			
4	3.80			
5	4.42			
6	4.50			
7	1.87			
8	4.60			
9	1.15			
10	1.16			
11	1.62			
12	3.63			
13	4.22			
14	4.08			
15	0.73			
16	4.06			
17	3.99			
18	2.42			
19	2.75			
20	3.21			
21	3.19			
22	3.53			
23	2.68			
24	3.20			
25	2.94			
26	3.33			
27	0.93			
28	2.27			
29	1.70			
30	2.72			
31	2.15			
TT Monthly Totals	95.35			
Daily Means	3.08			
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY			

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

Month: JUNE Year: 2010 Country: CHILE

Daily Totals				
Latitude	18°21' S	22°29' S	23°26' S	27°15' S
Longitude	70°19' W	68°54' W	70°26' W	70°46' W
Elevation	58 m	2270 m	135 m	204 m
Station	ARICA	CALAMA	ANTOFAGASTA	CALDERA
Date				
1	5.75	16.49	14.54	5.03
2	9.47	16.24	13.70	5.16
3	8.37	16.06	15.71	12.81
4	11.98	15.47	14.37	15.39
5	13.95	13.77	14.10	14.23
6	9.97	15.26	12.80	11.22
7	11.71	16.03	14.82	13.43
8	8.81	15.90	12.91	4.78
9	6.75	13.74	13.74	14.78
10	15.57	15.76	6.81	8.80
11	11.84	15.55	14.43	10.11
12	15.19	15.43	10.31	13.89
13	11.17	15.31	12.34	3.17
14	9.16	15.20	14.68	14.35
15	5.46	14.37	7.62	14.35
16	9.43	15.72	15.41	11.81
17	8.68	15.65	13.91	14.48
18	8.96	15.57	14.89	10.48
19	5.55	15.55	13.10	12.39
20	7.31	14.32	13.26	12.04
21	13.42	11.95	12.50	11.60
22	14.12	14.77	11.44	13.25
23	9.95	15.31	11.60	4.20
24	11.08	15.43	12.57	14.11
25	8.47	15.44	12.54	3.22
26	7.34	15.31	8.53	5.82
27	4.73	15.48	12.02	14.50
28	6.42	15.89	15.33	7.10
29	11.78	16.34	16.34	13.05
30	11.27	16.52	15.71	14.96
31				
TT Monthly Totals	293.64	459.83	392.03	324.48
 Daily Means	9.79	15.33	13.07	10.82
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: 2010 Country: CHILE

Daily Totals				
Latitude	33°27' S	36°46' S	41°25' S	45°35' S
Longitude	70°42' W	73°03' W	73°05' W	72°07' W
Elevation	520 m	12 m	85 m	310 m
Station	QUINTA NORMAL	CONCEPCION	PUERTO MONTT	COYHAIQUE
Date				
1	9.08	.	1.10	2.13
2	1.01	.	4.35	2.55
3	7.44	.	1.03	1.97
4	0.52	.	2.31	1.85
5	9.14	.	2.76	0.40
6	9.31	.	3.87	0.95
7	9.16	.	7.47	4.56
8	8.43	.	6.67	5.89
9	4.70	.	4.77	4.72
10	2.76	.	4.31	4.77
11	9.20	.	1.72	2.20
12	8.02	.	1.48	3.97
13	9.01	.	3.10	1.33
14	4.87	.	2.15	0.92
15	6.34	.	3.16	0.86
16	3.45	.	1.71	4.70
17	2.54	.	1.72	2.99
18	4.18	.	4.27	5.96
19	8.74	.	2.22	2.43
20	8.72	.	1.99	3.31
21	4.08	.	1.89	2.65
22	9.03	.	0.61	1.82
23	0.79	.	4.03	3.24
24	9.33	.	3.66	1.06
25	6.01	.	3.53	2.67
26	4.94	.	4.53	3.29
27	9.17	.	1.73	.
28	9.39	.	2.74	0.34
29	8.22	.	1.14	2.92
30	8.90	.	0.95	.
31				
TT Monthly Totals	196.46	.	86.99	.
 Daily Means	6.55	.	2.90	2.73
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: 2010

Country: CHILE

Daily Totals				
Latitude	53°00' S			
Longitude	70°51' W			
Elevation	37 m			
Station	PUNTA ARENAS			
Date				
1	0.97			
2	2.80			
3	0.83			
4	0.43			
5	2.11			
6	2.42			
7	1.95			
8	2.88			
9	0.59			
10	2.18			
11	0.58			
12	1.73			
13	1.49			
14	2.18			
15	2.59			
16	0.82			
17	2.41			
18	1.89			
19	2.87			
20	3.13			
21	0.99			
22	1.70			
23	2.01			
24	1.91			
25	1.74			
26	1.70			
27	0.46			
28	1.22			
29	0.83			
30	1.73			
31				
TT Monthly Totals	51.14			
Daily Means	1.70			
SS Monthly Totals				
Daily Means				
Types of Instruments	PYRANOMETER PSP EPPLEY			

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

Month: JANUARY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	10.9	.	11.8	10.2
2	6.0	.	11.5	8.0
3	4.4	.	10.5	10.1
4	5.8	.	11.6	7.8
5	7.4	.	6.2	10.5
6	5.0	.	8.9	10.5
7	9.8	.	8.9	11.0
8	11.4	.	11.6	4.5
9	4.9	.	11.5	4.5
10	11.6	.	11.1	11.5
11	11.2	.	11.5	9.0
12	11.7	.	11.0	10.2
13	10.3	.	11.2	10.2
14	11.8	.	11.5	9.4
15	11.8	.	11.9	9.4
16	11.1	.	11.6	9.0
17	4.1	.	11.9	10.0
18	5.5	.	11.0	8.0
19	7.9	.	12.0	10.0
20	8.5	.	11.8	9.7
21	10.1	.	11.7	11.2
22	8.8	.	11.5	8.7
23	11.3	.	11.5	11.5
24	10.0	.	11.4	11.0
25	7.0	.	10.8	11.7
26	11.7	.	11.5	11.7
27	11.9	.	11.6	10.4
28	8.2	.	11.4	10.0
29	6.4	.	10.5	11.0
30	10.1	.	10.2	10.2
31	11.2	.	7.7	9.6
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	277.8	.	338.8	300.5
 Daily Means	9.0	.	10.9	9.7
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: JANUARY Year: 2010 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	8.4	6.6	11.9	12.7
2	5.2	8.8	4.1	12.7
3	5.3	5.7	2.4	12.7
4	1.5	5.7	9.1	12.3
5	5.0	11.2	9.1	12.5
6	6.3	12.7	5.3	12.7
7	8.4	4.1	9.7	12.6
8	7.2	2.4	7.0	12.6
9	6.0	6.1	7.3	12.6
10	8.0	11.5	6.1	12.7
11	8.6	9.2	7.1	12.7
12	9.6	5.1	12.7	12.3
13	7.0	12.7	12.4	12.8
14	8.4	9.2	4.2	12.2
15	7.0	10.1	8.6	11.6
16	7.0	8.9	6.2	11.8
17	3.8	2.8	2.7	9.2
18	4.4	7.6	1.9	4.1
19	3.9	2.6	10.2	12.0
20	4.8	8.2	9.9	12.5
21	8.0	7.5	4.7	12.4
22	9.0	4.7	5.6	12.3
23	9.5	9.1	3.7	12.2
24	11.9	8.1	9.6	11.3
25	12.8	8.4	12.5	11.7
26	12.2	10.9	12.1	12.0
27	7.4	12.0	3.0	12.2
28	4.2	10.7	2.4	12.4
29	9.3	11.3	7.5	11.1
30	9.6	8.6	12.1	12.6
31	0.0	.	6.5	12.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	219.7	242.5	227.6	369.5
 Daily Means	7.1	8.1	7.3	11.9
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: 2010

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	12.2	2.4	12.9	9.1
2	12.7	5.4	10.3	13.8
3	12.1	3.8	4.9	11.7
4	11.7	9.0	6.3	7.7
5	12.1	9.0	12.7	11.3
6	12.1	1.6	12.3	13.7
7	11.7	2.5	10.3	13.2
8	12.0	8.7	12.3	13.6
9	12.1	7.3	11.9	13.6
10	12.0	10.7	12.0	13.5
11	11.8	8.3	10.6	13.1
12	11.5	6.4	12.7	12.1
13	11.7	7.4	12.8	12.2
14	11.6	8.5	12.1	13.2
15	11.0	10.7	6.2	13.5
16	11.3	8.8	0.5	12.0
17	8.5	1.7	4.7	10.2
18	4.6	7.5	6.6	4.3
19	11.6	8.6	12.4	13.3
20	11.6	11.0	12.5	13.6
21	11.5	9.1	10.9	13.6
22	11.5	8.9	5.3	13.6
23	11.5	8.9	7.9	13.4
24	11.0	8.8	4.5	13.1
25	10.9	11.3	7.1	13.3
26	10.8	11.2	0.1	13.0
27	10.8	10.8	10.5	13.2
28	11.0	9.9	10.5	13.3
29	11.0	3.4	7.1	10.2
30	11.4	2.0	12.4	13.1
31	11.4	8.9	12.4	13.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	348.7	232.5	285.7	381.8
 Daily Means	11.2	7.5	9.2	12.3
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: JANUARY

Year: 2010

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	12.1	9.2	5.2	7.4
2	13.2	13.0	10.6	10.9
3	13.1	1.5	6.2	10.8
4	6.6	3.8	0.7	2.3
5	5.7	9.6	7.8	10.9
6	12.2	13.0	10.3	11.2
7	11.9	12.7	8.2	9.6
8	13.3	12.7	8.9	4.2
9	12.7	12.8	7.6	3.8
10	12.7	12.8	8.0	10.5
11	4.2	5.6	2.1	6.9
12	12.3	12.2	2.9	5.4
13	13.1	12.9	1.3	3.7
14	13.2	12.7	10.1	11.3
15	13.1	12.6	10.0	11.8
16	9.0	9.9	0.7	0.3
17	11.7	10.7	7.4	8.7
18	11.9	12.8	9.3	9.1
19	12.9	12.7	7.9	10.5
20	13.4	13.0	8.0	7.9
21	13.5	12.8	9.1	11.7
22	13.3	12.7	10.0	13.1
23	13.2	12.7	10.0	12.1
24	13.3	12.5	10.1	10.0
25	13.3	9.4	10.5	13.0
26	12.9	12.1	9.7	12.8
27	13.2	12.5	9.0	12.6
28	13.2	12.7	5.1	6.5
29	13.0	12.4	7.6	10.1
30	13.2	12.4	7.2	10.1
31	13.2	12.6	10.2	12.4
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	373.6	351.0	231.7	281.6
 Daily Means	12.1	11.3	7.5	9.1
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: JANUARY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	2.2	3.2	2.8	
2	5.6	6.0	14.2	
3	7.5	3.8	5.1	
4	1.8	5.0	12.0	
5	12.0	5.6	11.6	
6	3.6	8.8	6.2	
7	2.8	5.7	1.2	
8	5.6	1.9	0.4	
9	3.4	6.0	5.8	
10	9.7	5.4	2.8	
11	8.5	5.6	0.2	
12	4.9	2.0	.	
13	3.8	0.6	1.4	
14	13.7	9.4	6.5	
15	12.0	0.2	11.0	
16	0.0	8.8	8.4	
17	7.0	2.0	12.7	
18	2.5	3.9	9.6	
19	4.4	3.4	7.4	
20	2.2	5.7	7.8	
21	10.8	11.6	8.3	
22	11.3	5.2	13.4	
23	11.7	5.6	0.2	
24	11.5	13.2	10.1	
25	13.5	7.2	6.3	
26	9.3	12.1	13.5	
27	9.3	3.4	9.1	
28	11.5	6.8	6.9	
29	11.4	6.2	9.3	
30	11.0	9.6	5.5	
31	3.9	5.9	8.6	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	228.4	179.8	.	
 Daily Means	7.4	5.8	7.3	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: FEBRUARY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	8.4	.	9.7	8.8
2	8.9	.	11.2	9.1
3	6.2	.	11.7	7.2
4	5.9	.	11.7	9.7
5	5.4	.	9.9	1.8
6	7.7	.	9.8	10.7
7	11.3	.	11.3	11.2
8	10.6	.	11.6	11.6
9	6.9	.	11.4	10.2
10	0.1	.	11.6	7.6
11	9.6	.	10.9	11.7
12	11.4	.	11.0	11.0
13	11.5	.	11.0	11.0
14	8.2	.	11.0	11.4
15	10.2	.	11.5	10.2
16	5.5	.	11.4	8.2
17	11.4	.	10.8	10.5
18	9.8	.	11.4	11.2
19	9.4	.	9.5	8.1
20	9.2	.	8.6	9.0
21	4.0	.	11.0	3.1
22	7.0	.	10.8	8.9
23	9.5	.	10.9	10.8
24	0.0	.	10.7	10.8
25	7.8	.	7.2	9.2
26	9.9	.	10.3	10.8
27	11.2	.	10.8	11.0
28	10.6	.	11.4	11.4
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	227.6	.	300.1	266.2
Daily Means	8.1	.	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: FEBRUARY Year: 2010 Country: CHILE

Daily Totals				
Latitude	27°15'S	27°10' S	29°57' S	33°23' S
Longitude	70°46'W	109°26' W	71°22' W	70°47' W
Elevation	204 m	47 m	25 m	474 m
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL
Date				
1	2.9	10.9	5.9	12.5
2	0.0	10.8	1.7	12.0
3	3.4	6.8	6.2	12.4
4	1.8	7.3	6.0	12.0
5	8.9	8.3	8.3	12.4
6	10.5	6.7	8.1	12.1
7	12.2	9.0	12.6	11.2
8	10.7	9.9	11.3	11.8
9	0.0	10.6	7.3	12.2
10	5.3	11.6	6.6	12.3
11	12.0	11.7	5.8	12.3
12	10.2	9.2	10.4	11.5
13	6.4	9.3	10.2	10.6
14	5.4	11.7	5.4	11.2
15	2.6	10.4	0.0	11.6
16	6.3	11.9	4.1	11.9
17	11.0	8.6	7.7	11.4
18	10.8	9.4	6.1	11.9
19	9.8	10.0	12.0	11.4
20	8.0	9.9	11.3	11.8
21	0.2	11.6	3.4	11.7
22	8.2	9.4	6.8	6.9
23	4.8	7.4	11.7	11.3
24	8.9	12.1	1.1	11.5
25	4.3	11.6	5.5	6.1
26	8.3	3.0	11.9	10.8
27	10.8	11.7	12.0	9.6
28	10.7	8.1	7.8	10.8
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	194.4	268.9	207.2	315.2
 Daily Means	6.9	9.6	7.4	11.3
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: FEBRUARY

Year: 2010

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	11.0	3.9	11.9	13.3
2	11.1	4.2	6.0	13.0
3	11.1	5.4	12.4	11.0
4	10.2	6.8	11.9	11.3
5	10.9	9.7	11.1	13.1
6	11.0	4.4	9.4	11.4
7	10.5	6.4	9.9	8.8
8	10.7	6.9	9.9	9.7
9	11.0	3.5	11.3	13.0
10	11.0	8.9	11.8	10.8
11	10.9	7.1	7.3	12.6
12	10.8	10.1	9.4	11.6
13	10.1	2.2	12.0	12.8
14	10.1	9.8	7.8	12.6
15	11.1	11.0	11.4	9.1
16	11.1	10.9	3.1	5.5
17	9.5	8.4	9.4	5.5
18	11.1	7.9	11.6	12.5
19	10.4	9.5	11.8	12.3
20	11.0	3.1	11.2	10.5
21	10.8	2.0	4.9	12.3
22	6.8	1.5	3.8	4.7
23	10.5	4.4	11.7	7.5
24	10.4	2.6	7.6	12.6
25	5.2	4.9	1.0	0.1
26	10.2	0.0	7.6	.
27	10.3	0.6	7.6	10.8
28	10.3	0.2	0.4	11.7
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	289.1	156.3	245.2	.
 Daily Means	10.3	5.6	8.8	10.4
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: FEBRUARY

Year: 2010

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	12.5	12.6	8.1	8.2
2	12.4	9.6	9.0	7.6
3	4.8	9.8	9.5	11.9
4	12.3	12.0	8.6	0.1
5	12.3	11.9	6.0	2.4
6	2.6	0.0	0.0	0.0
7	3.8	5.5	6.0	5.0
8	11.2	11.5	4.2	0.0
9	11.9	11.6	3.3	7.1
10	12.4	12.5	9.3	11.8
11	12.3	11.6	9.9	12.2
12	12.0	11.2	7.8	8.1
13	12.7	11.9	7.7	11.8
14	12.0	11.9	10.6	12.1
15	10.4	11.4	4.8	4.3
16	10.7	8.3	5.4	5.9
17	2.7	4.2	1.7	1.4
18	8.8	10.9	0.9	1.7
19	11.5	10.9	3.3	8.5
20	9.1	12.0	9.5	10.3
21	8.8	9.7	1.2	4.6
22	5.1	10.8	7.1	10.0
23	11.5	12.0	9.4	12.0
24	11.5	8.2	10.0	11.9
25	0.0	4.9	10.2	11.6
26	7.9	.	2.9	8.5
27	8.3	.	10.5	6.9
28	11.0	.	10.6	11.4
29				
30				
31				
TT Monthly Totals				
Daily Means				
SS Monthly Totals	262.5	.	187.5	207.3
Daily Means	9.4	9.9	6.7	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: FEBRUARY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	1.3	5.8	4.8	
2	2.0	0.0	8.1	
3	9.7	7.6	5.0	
4	0.0	4.1	11.7	
5	1.4	3.4	0.3	
6	0.1	4.1	2.4	
7	2.6	6.7	10.5	
8	0.0	3.5	3.4	
9	7.9	5.2	8.3	
10	9.3	8.7	6.6	
11	12.7	9.1	10.0	
12	6.4	0.2	6.3	
13	8.5	7.4	8.0	
14	12.1	10.7	7.8	
15	11.8	11.4	9.1	
16	0.7	7.6	13.5	
17	3.3	3.7	10.8	
18	4.3	2.7	0.5	
19	6.0	6.3	8.5	
20	10.2	10.1	3.6	
21	4.6	9.5	0.0	
22	2.7	10.4	8.7	
23	9.4	11.7	8.9	
24	11.8	11.1	1.7	
25	11.6	11.0	4.9	
26	6.5	11.6	12.0	
27	7.3	11.0	3.3	
28	11.8	11.8	12.4	
29				
30				
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	176.0	206.4	191.1	
 Daily Means	6.3	7.4	6.8	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MARCH

Year: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	10.8	.	11.4	10.9
2	10.4	.	11.0	11.2
3	10.3	.	11.1	11.0
4	11.2	.	11.3	10.8
5	11.6	.	11.1	9.3
6	11.3	.	11.1	7.8
7	11.2	.	11.1	8.2
8	11.2	.	11.0	9.8
9	11.0	.	11.0	10.9
10	11.0	.	11.0	8.4
11	10.8	.	10.8	9.0
12	10.9	.	10.8	0.5
13	11.0	.	10.7	10.2
14	11.0	.	10.9	10.1
15	10.9	.	10.8	10.3
16	10.6	.	10.5	10.7
17	6.0	.	10.6	10.6
18	10.7	.	10.6	10.8
19	10.8	.	10.7	9.8
20	10.6	.	10.6	10.6
21	9.0	.	10.6	5.0
22	0.0	.	10.6	0.8
23	10.6	.	10.6	10.2
24	10.9	.	10.6	10.1
25	6.9	.	10.7	9.7
26	10.6	.	10.6	9.8
27	8.4	.	10.4	6.6
28	6.1	.	10.6	8.6
29	5.9	.	10.5	10.4
30	8.1	.	10.5	10.4
31	10.6	.	10.5	9.3
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	300.4	.	334.3	281.8
 Daily Means	9.7	.	10.8	9.1
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MARCH Year: 2010 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	5.0	1.7	9.3
2	9.9	10.3	7.3	6.9
3	10.8	7.5	12.0	11.2
4	10.1	11.5	11.9	11.2
5	7.5	9.4	9.3	11.4
6	3.4	8.4	1.4	11.4
7	0.4	5.6	0.0	10.1
8	6.2	10.6	11.5	10.9
9	0.2	8.3	8.7	11.4
10	2.0	11.3	0.0	10.8
11	7.4	10.5	0.9	10.1
12	11.0	7.8	9.8	7.7
13	6.2	9.6	11.0	10.0
14	11.0	10.5	11.2	10.2
15	5.8	6.2	3.3	10.6
16	5.6	11.2	0.0	10.3
17	8.3	9.5	5.3	6.7
18	5.7	9.9	10.3	9.3
19	7.6	9.1	10.8	9.8
20	7.0	2.9	2.4	10.6
21	5.1	3.0	6.0	10.5
22	1.4	9.3	6.2	9.1
23	10.7	8.9	10.8	10.8
24	10.2	6.2	8.8	10.8
25	6.6	4.9	3.1	10.4
26	2.8	7.4	0.0	10.7
27	3.0	6.3	0.0	10.7
28	2.6	0.3	0.2	10.5
29	1.5	1.7	0.0	10.5
30	7.0	1.8	2.6	10.5
31	10.4	7.1	2.4	10.5
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	197.7	232.0	168.9	314.9
 Daily Means	6.4	7.5	5.4	10.2
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: MARCH Year: 2010 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	9.9	0.0	4.8	10.3
2	5.3	0.6	10.6	3.7
3	10.3	1.2	10.6	11.8
4	10.2	7.1	11.2	11.3
5	10.2	9.2	9.2	11.5
6	10.2	8.3	2.7	11.6
7	10.0	5.0	5.9	9.7
8	10.0	6.0	11.2	7.5
9	10.0	3.5	10.7	11.2
10	10.1	8.0	8.4	11.5
11	9.6	6.3	1.2	10.8
12	7.9	5.2	2.2	4.0
13	9.3	1.3	6.2	7.3
14	9.4	3.7	4.7	9.7
15	9.1	8.4	10.1	11.2
16	9.1	1.7	1.2	10.8
17	6.3	5.7	6.0	5.1
18	8.7	8.4	5.9	7.3
19	8.7	9.2	8.4	10.8
20	8.7	8.3	4.8	10.1
21	8.6	4.3	10.1	10.0
22	8.2	5.0	9.8	7.4
23	9.6	3.2	10.4	9.9
24	8.8	2.3	10.3	8.1
25	8.7	3.2	5.8	10.7
26	8.7	1.8	8.2	10.7
27	9.2	2.2	5.9	7.8
28	9.0	7.0	2.9	6.3
29	8.8	9.2	8.1	3.5
30	9.0	6.2	9.1	7.5
31	8.8	6.6	1.5	9.2
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	280.4	158.1	218.1	278.3
 Daily Means	9.0	5.1	7.0	9.0
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: 2010 Country: CHILE

Daily Totals				
Latitude	36°36' S	36°46' S	38°45' S	39°41' S
Longitude	72°26' W	73°03' W	72°38' W	73°04' W
Elevation	124 m	12 m	114 m	19 m
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA
Date				
1	6.6	0.0	1.7	9.3
2	3.6	5.4	0.0	0.2
3	7.8	7.8	7.9	9.6
4	8.6	8.6	1.4	1.5
5	6.9	11.0	4.5	6.9
6	11.6	11.0	5.5	5.6
7	10.1	2.6	2.8	0.3
8	11.3	11.3	8.3	5.8
9	10.7	11.5	9.3	9.6
10	10.4	11.6	9.2	10.8
11	8.3	5.5	6.4	9.6
12	5.5	0.3	9.5	10.9
13	6.6	9.7	2.6	2.6
14	10.6	10.9	9.1	9.2
15	11.3	11.3	10.0	10.8
16	10.0	0.1	7.6	3.7
17	3.6	3.5	1.4	1.0
18	7.9	7.8	2.1	0.3
19	10.6	11.0	8.1	8.7
20	10.1	3.0	3.6	2.2
21	6.1	8.8	3.9	3.4
22	8.8	8.6	1.4	1.2
23	9.0	4.3	2.8	3.7
24	9.4	10.2	7.5	7.2
25	9.5	10.4	5.0	6.8
26	7.0	9.2	3.9	0.4
27	9.3	9.3	6.9	5.4
28	6.0	6.6	3.4	4.3
29	9.7	10.0	8.4	8.7
30	10.1	10.8	6.2	5.3
31	5.2	5.4	6.4	5.1
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	262.2	237.5	166.8	170.1
 Daily Means	8.5	7.7	5.4	5.5
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: 2010

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	11.3	10.8	0.9	
2	0.0	10.5	9.6	
3	4.9	11.0	5.8	
4	0.0	8.6	9.5	
5	7.0	3.5	4.3	
6	7.8	10.3	7.0	
7	1.1	6.9	5.0	
8	8.8	7.8	6.2	
9	6.5	10.7	1.0	
10	11.0	9.3	3.9	
11	10.5	10.7	0.7	
12	10.7	6.5	0.0	
13	3.3	10.2	2.1	
14	1.1	2.0	6.2	
15	9.5	7.4	2.6	
16	2.1	6.9	9.7	
17	1.9	3.0	9.4	
18	6.0	3.4	8.3	
19	10.1	4.6	11.1	
20	4.6	4.3	4.3	
21	0.1	6.1	5.3	
22	1.4	3.7	4.2	
23	4.6	9.8	9.6	
24	6.1	3.2	1.4	
25	6.8	7.8	0.1	
26	0.1	3.8	0.1	
27	6.4	8.1	3.7	
28	1.9	3.6	9.6	
29	1.2	5.4	9.5	
30	2.3	1.4	1.0	
31	4.0	1.7	5.9	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	153.1	203.0	158.0	
 Daily Means	4.9	6.5	5.1	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: APRIL

Year: 2010

Country: CHILE

Daily Totals				
Latitude	18°21' S	20°32' S	22°28' S	23°26' S
Longitude	70°19'W	72°10' W	68°55' W	70°26' W
Elevation	58 m	52 m	270 m	135 m
Station	ARICA	IQUIQUE	CALAMA	ANTOFAGASTA
Date				
1	10.8	.	10.5	10.1
2	10.7	.	10.3	8.5
3	6.1	.	10.4	7.8
4	8.3	.	10.4	7.4
5	5.1	.	10.4	8.1
6	10.6	.	9.6	8.5
7	5.3	.	10.4	8.8
8	2.7	.	10.2	8.6
9	0.0	.	10.0	7.6
10	7.0	.	10.2	7.8
11	5.6	.	10.1	5.7
12	9.1	.	10.3	5.8
13	9.1	.	10.1	9.0
14	10.6	.	10.1	9.6
15	10.3	.	10.2	7.9
16	9.0	.	8.7	6.2
17	6.1	.	2.2	7.0
18	3.9	.	10.4	8.2
19	0.0	.	9.8	6.9
20	3.9	.	10.2	7.4
21	1.9	.	10.2	9.1
22	3.0	.	10.1	9.3
23	0.0	.	10.1	7.1
24	0.4	.	10.0	7.8
25	10.3	.	10.0	9.3
26	7.1	.	10.0	8.9
27	8.6	.	10.0	8.2
28	2.9	.	8.3	4.4
29	2.6	.	9.5	0.0
30	4.0	.	6.1	9.1
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	175.0	.	288.8	230.1
 Daily Means	5.8	.	9.6	7.7
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: APRIL Year: 2010 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	10.4	3.9	10.2	4.1
2	4.4	6.7	6.0	10.5
3	4.5	9.9	8.0	10.7
4	3.9	10.3	0.6	10.5
5	0.0	1.3	1.0	10.5
6	2.9	5.7	4.0	3.7
7	3.2	8.4	10.1	7.3
8	0.6	7.2	5.4	9.5
9	0.0	7.8	1.6	7.5
10	0.6	8.9	0.7	8.8
11	0.7	7.5	2.5	10.1
12	5.0	3.9	0.0	9.3
13	0.0	6.4	3.9	10.2
14	11.4	8.4	10.2	11.1
15	9.5	8.7	2.5	10.0
16	6.5	7.0	4.5	2.7
17	8.4	10.4	10.2	8.2
18	10.1	1.6	10.5	2.0
19	8.4	7.1	10.3	8.3
20	4.7	8.5	7.6	0.9
21	0.5	9.3	4.9	8.8
22	6.0	5.4	4.8	9.7
23	6.8	7.3	9.8	8.7
24	2.0	10.2	7.8	9.0
25	9.6	10.2	9.5	8.9
26	9.6	8.9	9.5	2.4
27	4.7	9.4	6.9	9.4
28	6.3	9.2	10.1	9.4
29	3.3	8.1	8.4	9.3
30	8.5	8.4	8.4	9.2
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	152.5	226.0	189.9	240.7
 Daily Means	5.1	7.5	6.3	8.0
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: APRIL

Year: 2010

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	1.4	5.9	8.9	7.5
2	8.7	2.0	9.6	9.2
3	8.8	1.5	10.0	10.0
4	8.9	6.2	10.4	10.1
5	8.8	0.0	1.6	10.3
6	3.7	0.2	0.0	3.5
7	7.9	2.8	5.5	3.5
8	8.5	0.2	7.2	6.4
9	8.0	1.4	0.0	4.8
10	8.5	7.6	8.3	3.5
11	8.5	1.9	10.3	7.3
12	7.9	1.6	8.8	5.9
13	8.4	6.6	9.4	6.6
14	8.7	8.4	9.4	9.4
15	8.9	2.3	2.5	9.7
16	0.6	0.4	3.2	1.3
17	7.5	3.9	6.8	4.9
18	2.5	5.6	3.2	1.3
19	7.8	2.3	9.8	7.2
20	0.5	3.8	5.2	5.1
21	8.2	2.3	9.2	9.5
22	8.2	4.3	9.1	5.8
23	8.3	2.9	8.6	9.4
24	8.1	1.2	8.3	7.5
25	8.4	1.9	9.5	5.4
26	1.9	0.1	2.3	3.9
27	8.2	6.1	8.2	7.7
28	7.4	6.1	8.2	8.9
29	8.1	3.7	9.4	7.2
30	8.3	5.0	8.8	5.5
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	209.6	98.2	211.7	198.3
 Daily Means	7.0	3.3	7.1	6.6
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: APRIL

Year: 2010

Country: CHILE

Daily Totals				
Latitude	36°36' S	36°46' S	38°45' S	39°41' S
Longitude	72°26' W	73°03' W	72°38' W	73°04' W
Elevation	124 m	12 m	114 m	19 m
Station	CHILLAN	CONCEPCION	TEMUCO	VALDIVIA
Date				
1	10.2	9.1	6.0	6.4
2	9.8	11.4	8.9	10.0
3	9.5	9.5	9.4	10.0
4	9.6	10.2	9.2	10.1
5	8.2	6.5	8.0	9.1
6	0.0	0.0	0.0	3.2
7	2.6	0.0	6.6	5.3
8	4.5	5.3	1.4	2.7
9	1.1	4.7	2.0	3.3
10	4.8	3.5	5.4	4.4
11	9.4	9.5	6.0	5.8
12	9.3	9.4	7.9	7.6
13	9.3	9.8	9.1	9.9
14	9.9	10.5	9.0	8.1
15	9.3	9.7	2.3	.
16	0.2	1.0	1.4	0.0
17	1.1	2.8	1.1	2.9
18	2.4	5.6	3.0	5.4
19	7.8	3.2	2.1	0.1
20	8.3	9.6	3.1	2.1
21	9.5	10.5	3.1	5.4
22	8.8	9.5	7.9	7.9
23	2.4	9.2	7.9	1.4
24	6.0	9.2	0.0	1.0
25	6.3	8.2	4.0	5.5
26	3.8	3.7	3.1	0.0
27	1.8	4.4	1.6	0.3
28	8.6	7.6	7.0	3.5
29	9.3	8.6	8.5	6.0
30	8.2	8.4	2.3	3.6
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	192.0	210.6	147.3	.
 Daily Means	6.4	7.0	4.9	4.9
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: 2010

Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	2.8	4.9	0.0	
2	4.8	6.5	7.3	
3	8.5	7.5	0.4	
4	9.3	6.1	3.4	
5	7.4	6.0	0.0	
6	3.2	5.5	6.2	
7	6.9	8.3	1.9	
8	5.4	6.7	7.7	
9	5.0	4.9	7.9	
10	1.7	1.3	5.4	
11	4.1	4.5	1.7	
12	3.6	3.6	8.5	
13	7.2	5.8	1.4	
14	2.2	5.6	5.5	
15	3.1	1.3	4.5	
16	0.8	4.8	9.2	
17	1.4	5.7	7.5	
18	0.0	0.0	1.6	
19	1.6	5.5	1.4	
20	1.6	5.5	7.3	
21	3.4	6.2	7.2	
22	7.7	7.4	1.0	
23	0.0	7.6	3.8	
24	0.3	7.7	7.9	
25	0.0	5.3	0.0	
26	0.0	3.2	1.4	
27	0.4	1.3	4.4	
28	2.3	6.5	3.0	
29	2.8	1.9	4.3	
30	0.0	3.9	0.5	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	97.5	151.0	122.3	
 Daily Means	3.3	5.0	4.1	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: MAY

Year: 2010

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	6.0	.	4.5	8.8
2	9.3	.	9.7	9.4
3	10.4	.	9.9	7.7
4	1.5	.	9.9	4.1
5	2.8	.	9.8	4.5
6	5.7	.	9.8	9.7
7	2.5	.	9.9	10.0
8	5.9	.	9.9	8.8
9	5.1	.	9.9	6.9
10	8.0	.	8.9	8.2
11	5.0	.	9.8	8.0
12	5.5	.	8.2	8.8
13	9.7	.	7.9	5.3
14	8.7	.	7.2	1.1
15	0.0	.	5.2	1.6
16	0.0	.	5.2	4.8
17	6.3	.	9.4	10.4
18	10.0	.	9.8	9.1
19	5.6	.	7.7	5.1
20	5.2	.	9.4	6.9
21	3.9	.	9.5	6.5
22	0.0	.	8.4	6.0
23	1.7	.	9.3	6.8
24	5.4	.	9.9	8.0
25	5.1	.	9.8	6.7
26	4.4	.	8.8	6.4
27	5.3	.	9.3	8.5
28	0.2	.	7.6	3.2
29	9.8	.	9.5	9.7
30	8.3	.	9.9	6.6
31	0.0	.	9.7	0.4
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	157.3	.	273.7	208.0
 Daily Means	5.1	.	8.8	6.7
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY

Year: 2010

Country: CHILE

Daily Totals				
Latitude	27°15'S	27°10' S	29°57' S	33°23' S
Longitude	70°46'W	109°26' W	71°22' W	70°47' W
Elevation	204 m	47 m	25 m	474 m
Station	CALDERA	ISLA DE PASCUA	LA SERENA	PUDAHUEL
Date				
1	7.4	0.0	4.3	7.6
2	8.5	0.9	6.8	1.9
3	10.1	9.5	9.6	8.9
4	1.8	6.5	1.1	7.3
5	6.2	8.2	2.9	0.0
6	9.8	1.6	8.6	6.8
7	5.0	0.0	7.5	8.0
8	6.4	8.3	2.6	8.9
9	5.7	5.5	2.8	8.8
10	6.2	8.0	6.6	8.8
11	4.2	2.3	2.9	8.8
12	2.2	6.6	1.1	5.4
13	8.1	7.1	6.2	0.6
14	2.8	6.9	0.3	0.0
15	5.3	8.4	0.0	6.7
16	0.5	3.9	0.1	3.2
17	9.8	4.4	9.7	7.8
18	9.7	5.9	9.3	6.2
19	1.3	9.2	0.0	7.1
20	4.2	6.7	0.0	8.0
21	0.3	8.1	2.7	3.3
22	3.2	8.8	4.5	0.7
23	9.1	9.9	4.5	7.2
24	8.8	9.4	9.1	7.4
25	0.2	8.2	8.8	0.0
26	5.1	8.9	8.5	3.5
27	7.7	6.0	5.2	7.1
28	0.0	9.5	0.3	4.4
29	9.0	7.2	6.0	1.6
30	9.0	9.0	8.5	5.5
31	0.0	1.3	0.1	7.5
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	167.6	196.2	140.6	169.0
 Daily Means	5.4	6.3	4.5	5.5
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: MAY

Year: 2010

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	7.0	7.0	8.8	9.1
2	1.0	4.0	2.8	3.1
3	7.8	1.0	5.4	5.7
4	5.9	0.3	0.0	0.0
5	0.0	4.8	0.0	0.0
6	5.7	2.9	8.9	6.3
7	8.0	4.8	9.5	6.3
8	8.2	7.0	10.0	4.0
9	8.2	7.5	9.0	8.6
10	8.1	7.4	0.6	8.9
11	8.1	0.4	0.0	7.6
12	5.5	0.0	2.6	0.0
13	0.4	5.2	0.8	0.4
14	0.0	4.4	0.0	0.0
15	6.4	4.2	6.6	2.4
16	3.4	1.5	7.1	6.3
17	7.7	0.0	7.0	7.8
18	6.9	2.0	7.4	4.9
19	7.1	5.7	8.7	1.8
20	7.6	1.5	7.1	1.3
21	0.2	0.8	3.6	1.7
22	0.7	4.4	0.2	0.0
23	7.0	1.2	7.2	4.2
24	7.2	3.9	7.7	3.5
25	0.0	0.3	6.8	1.5
26	2.9	5.3	6.7	0.5
27	7.0	3.3	7.8	3.0
28	3.8	3.0	2.2	1.4
29	1.3	1.5	0.6	0.0
30	7.2	2.6	7.5	0.0
31	7.1	1.2	7.9	0.9
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	157.4	99.1	160.5	101.2
 Daily Means	5.1	3.2	5.2	3.3
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES

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

Month: MAY

Year: 2010

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	9.2	0.0	0.9	0.6
2	1.8	0.0	0.7	0.0
3	6.9	6.0	1.7	0.0
4	0.0	0.1	0.0	0.0
5	2.5	5.6	3.8	3.2
6	8.1	9.0	7.3	2.8
7	9.0	9.1	8.6	4.8
8	9.1	9.6	8.8	8.5
9	6.7	9.3	7.4	5.8
10	8.5	8.4	7.2	3.0
11	2.4	0.0	0.0	1.5
12	3.0	6.0	5.6	7.5
13	0.9	3.3	2.0	4.4
14	0.0	1.2	7.3	8.3
15	9.0	8.3	8.1	8.2
16	8.9	9.2	7.9	1.4
17	7.4	0.0	4.1	0.0
18	2.3	2.1	0.0	0.0
19	2.1	2.1	0.5	0.0
20	0.3	1.5	0.7	0.0
21	0.1	3.1	2.1	0.0
22	2.2	8.2	4.0	5.2
23	4.5	7.9	5.5	0.3
24	6.8	1.7	1.3	0.0
25	0.0	1.3	4.4	4.4
26	5.3	6.4	5.2	2.9
27	6.7	7.4	7.6	7.9
28	5.6	8.0	1.6	0.4
29	2.7	1.1	3.4	0.0
30	5.2	7.7	5.7	0.0
31	5.6	7.5	3.2	0.0
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	142.8	151.1	126.6	81.1
 Daily Means	4.6	4.9	4.1	2.6
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: MAY

Year: 2010

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	0.7	4.5	
2	0.3	1.8	3.4	
3	0.0	3.1	6.9	
4	0.0	6.3	3.5	
5	3.0	3.8	5.4	
6	3.0	1.8	3.6	
7	4.3	1.6	0.1	
8	7.3	2.1	6.8	
9	8.1	2.2	0.0	
10	7.4	0.0	0.0	
11	2.0	0.1	0.0	
12	5.8	3.5	3.8	
13	1.2	0.7	6.8	
14	8.1	5.8	6.3	
15	7.8	4.8	0.0	
16	3.0	5.1	7.9	
17	0.0	0.7	5.4	
18	1.0	0.4	0.6	
19	2.5	5.1	4.9	
20	0.0	6.1	4.1	
21	0.8	3.6	3.5	
22	2.1	0.3	6.5	
23	2.1	1.1	3.8	
24	0.0	5.2	5.7	
25	6.9	5.6	5.4	
26	0.3	1.5	4.6	
27	7.2	2.3	0.0	
28	1.6	3.4	3.7	
29	2.6	5.5	2.2	
30	3.1	0.0	4.1	
31	3.4	1.5	2.5	
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	95.1	85.7	116.0	
 Daily Means	3.1	2.8	3.7	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	

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

Month: JUNE

Year: 2010

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	0.0	.	9.7	6.6
2	3.3	.	9.6	8.5
3	3.0	.	9.5	9.7
4	5.7	.	8.7	7.0
5	6.3	.	7.5	6.9
6	2.1	.	9.3	6.2
7	4.8	.	9.5	8.9
8	4.4	.	9.6	5.4
9	1.2	.	8.5	7.6
10	9.5	.	9.5	0.0
11	5.5	.	9.4	8.8
12	8.2	.	9.2	4.2
13	4.2	.	9.2	6.0
14	2.7	.	8.4	7.6
15	0.0	.	8.3	2.8
16	3.6	.	8.5	9.3
17	4.1	.	9.3	6.5
18	2.6	.	9.3	7.8
19	0.0	.	9.5	6.1
20	0.7	.	8.0	4.9
21	6.6	.	5.1	4.5
22	7.0	.	8.3	3.3
23	5.0	.	9.2	5.0
24	4.8	.	9.3	4.7
25	2.1	.	9.4	4.9
26	3.0	.	9.2	3.3
27	0.0	.	9.2	5.0
28	0.2	.	9.3	8.6
29	3.8	.	9.4	9.5
30	4.9	.	9.5	8.5
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	109.3	.	268.4	188.1
 Daily Means	3.6	.	8.9	6.3
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: JUNE

Year: 2010

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	6.1	0.0	7.6
2	0.0	0.8	0.0	0.0
3	7.0	5.1	8.1	6.0
4	9.4	7.2	9.3	6.8
5	7.4	1.6	6.5	8.1
6	4.8	7.1	4.3	8.6
7	6.6	7.9	5.8	7.7
8	0.0	7.0	1.6	7.1
9	9.0	7.5	8.5	2.3
10	3.2	5.4	0.8	0.1
11	5.0	5.1	9.0	6.8
12	7.9	4.3	7.6	4.3
13	0.0	7.8	0.4	6.4
14	9.0	3.5	5.5	4.2
15	8.7	3.9	0.0	2.7
16	8.7	2.9	6.8	2.7
17	9.0	7.9	8.7	0.3
18	5.1	3.7	0.0	1.2
19	7.3	7.4	6.6	6.9
20	6.4	7.5	6.6	5.6
21	5.8	0.5	6.3	1.6
22	7.7	6.6	6.4	8.4
23	1.5	2.6	0.0	0.0
24	8.3	4.3	9.1	7.1
25	0.0	6.5	0.9	4.5
26	0.0	3.9	1.8	5.4
27	9.0	8.2	9.3	6.7
28	2.4	8.1	2.5	6.9
29	6.9	8.9	7.9	7.2
30	9.0	6.2	9.2	6.5
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	165.1	165.5	149.5	149.7
 Daily Means	5.5	5.5	5.0	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: JUNE

Year: 2010

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	6.7	4.4	0.0	7.7
2	0.0	4.3	0.0	0.5
3	5.7	2.5	6.3	6.3
4	6.5	0.5	8.2	8.2
5	7.1	0.9	9.0	2.5
6	7.3	2.9	8.5	2.7
7	7.1	4.5	9.2	2.8
8	6.6	5.4	6.1	2.3
9	2.0	0.0	4.1	3.3
10	0.0	4.8	2.4	5.7
11	7.4	6.1	0.0	0.2
12	5.6	0.1	4.0	6.3
13	5.4	4.7	5.3	3.7
14	1.7	4.7	0.3	0.0
15	2.0	0.0	3.1	0.3
16	2.1	3.7	0.0	0.6
17	0.0	4.7	0.0	0.4
18	1.5	2.8	0.4	3.3
19	7.1	2.4	8.4	7.5
20	6.0	0.2	9.1	4.1
21	0.7	0.0	2.8	1.4
22	6.9	.	8.8	0.6
23	0.0	.	0.0	0.0
24	6.8	4.7	8.3	8.9
25	4.3	4.8	5.5	7.7
26	2.5	5.8	7.4	5.5
27	7.0	4.4	9.3	4.5
28	7.5	1.1	9.3	8.8
29	6.6	1.0	5.1	2.1
30	6.4	1.6	6.1	6.3
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	136.5	.	147.0	114.2
 Daily Means	4.6	3.0	4.9	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: JUNE

Year: 2010

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	5.3	1.3	3.7	0.0
2	2.0	5.1	1.5	4.8
3	2.6	3.8	0.0	0.0
4	8.3	0.0	0.0	0.5
5	5.9	6.9	2.9	0.1
6	5.9	6.9	0.0	0.8
7	6.7	7.4	6.8	7.6
8	2.7	5.8	5.3	5.2
9	0.0	4.6	5.6	.
10	1.2	0.0	1.6	2.3
11	2.1	1.6	0.8	0.0
12	5.4	0.8	1.9	1.0
13	0.0	0.0	1.7	.
14	0.5	0.9	1.4	0.0
15	2.1	2.2	0.9	0.3
16	0.2	3.0	0.1	0.4
17	0.0	1.6	1.7	0.0
18	1.8	0.8	0.0	0.0
19	0.1	4.9	1.1	0.4
20	4.5	0.7	0.0	0.0
21	0.0	0.7	0.0	.
22	0.0	0.0	0.0	.
23	0.0	3.4	2.7	2.5
24	7.5	3.4	1.8	3.2
25	6.8	8.6	1.0	5.4
26	5.4	8.6	4.5	0.2
27	5.9	8.6	2.1	0.5
28	9.2	8.5	1.6	1.1
29	0.0	1.2	0.0	0.0
30	0.0	0.0	0.0	0.0
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	92.1	101.3	50.7	.
 Daily Means	3.1	3.4	1.7	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: 2010

Country: CHILE

Daily Totals				
Latitude	41°26' S	45°35' S	53°08' S	
Longitude	73°07' W	72°07' W	70°58' W	
Elevation	81 m	310 m	37 m	
Station	PUERTO MONTT	COYHAIQUE	PUNTA ARENAS	
Date				
1	0.0	0.5	0.3	
2	2.6	0.6	5.8	
3	0.0	0.0	0.0	
4	0.0	0.4	0.0	
5	0.2	0.0	4.0	
6	2.0	5.3	4.0	
7	6.7	5.5	1.7	
8	4.2	3.1	5.7	
9	1.8	2.9	0.0	
10	1.9	3.5	0.0	
11	0.2	0.0	0.0	
12	0.0	4.2	3.2	
13	0.4	0.0	1.8	
14	0.2	0.0	5.5	
15	1.1	0.0	6.0	
16	0.0	4.8	0.0	
17	0.0	1.5	4.0	
18	0.8	2.0	3.7	
19	0.0	2.0	7.0	
20	0.0	0.8	5.5	
21	0.0	0.0	0.0	
22	0.0	0.6	0.0	
23	3.5	2.2	2.6	
24	1.4	0.0	1.8	
25	2.6	0.6	3.4	
26	2.5	2.8	2.3	
27	0.0	0.2	0.0	
28	0.4	0.0	1.1	
29	0.0	3.7	0.0	
30	0.0	0.0	1.9	
31				
TT Monthly Totals				
 Daily Means				
SS Monthly Totals	32.5	47.2	71.3	
 Daily Means	1.1	1.6	2.4	
Types of Instruments	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	HELIOGRAPH CAMPBELL STOKES	