

WORLD SOLAR CHALLENGE, AUSTRALIA OCTOBER 2008

Climate Information Package

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*Produced by Climate Services Centre, Bureau of Meteorology,
N.T. Regional Office, P.O. Box 40050 (3rd Floor, Met Building, 13 Scaturchio St.)
Casuarina, NT 0811, Australia.*

*For further climate information, contact us on (08) 8920 3819, fax (08) 8920 3832;
e-mail: climate.nt@bom.gov.au*



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World Solar Challenge

Useful contacts and links

Climate and weather products on web

Climate Maps

<http://www.bom.gov.au/climate/averages/>

Climate Information for a Location

<http://www.bom.gov.au/climate/averages/>

Weather Forecasts

. Northern Territory

<http://www.bom.gov.au/weather/nt/forecasts.shtml>

. South Australia

<http://www.bom.gov.au/weather/sa/forecasts.shtml>

Weather Charts

<http://www.bom.gov.au/weather/national/charts/>

Observations

. NT – hourly <http://www.bom.gov.au/weather/nt/nt-observations-map.shtml>

. SA – hourly <http://www.bom.gov.au/weather/sa/sa-observations-map.shtml>

Satellite Imagery

Latest IR, Australia <http://www.bom.gov.au/gms/IDE00005.latest.shtml>

Latest Vis, Australia <http://www.bom.gov.au/gms/IDE00006.latest.shtml>

Menu of images <http://www.bom.gov.au/weather/satellite/>

Radar Images

<http://www.bom.gov.au/weather/radar/>

The following displays are available for locations along the race route.

. Darwin 128 km, 256 km, 512 km

. Katherine 128 km, 256 km, 512 km

. Alice Springs 128 km, 256 km, 512 km

. Woomera 128 km, 256 km, 512 km

. Adelaide 128 km, 256 km, 512 km

The Season Ahead

<http://www.bom.gov.au/climate/ahead/>

Weather By Fax - List of Weather by Fax products covering the race route

Weather By Fax products are charged at \$1.38 per minute (subject to change), including GST, higher if called from International, satellite or mobile systems. International or satellite access is via +61-3-9273-8xxx, where xxx is the last 3 digits of the 1902 service. Most products will take 1 - 4 minutes to download.

Products

. Australian Region MSLP Analysis	1902 935 210
. Australian Region 4 Day Forecast (charts) + satellite image	1902 935 002
. Latest Australian Infrared Satellite Picture	1902 935 201

Meteorological Offices

Participants may also wish to visit any of the Bureau's Meteorological Observing Offices along the route. These may be able to help with weather information for the local area and will have access to the most recent weather forecast. They are located at:

- . Tennant Creek Airport, N.T. (ph: 08 8962 2392)
- . Alice Springs Airport, N.T. (ph: 08 8952 1943)
- . Woomera, S.A. (ph: 08 8673 7271)

For updated forecasts see the "Weather on the Web" reference above or;
for the Northern Territory call:

Regional Forecast Centre Darwin, ph: 08 8920 3826

for South Australia call:

Regional Forecast Centre Adelaide, ph: 08 8366 2600

Normal Conditions for the Northern Territory During October

October is the first month of the wet season across the northern half of the Northern Territory. The heat trough over the north of Western Australia has become well established, bringing northwesterly flow over the northern NT. Although conditions are mainly fine over the north there is an increased incidence of shower and storm activity. Across the south, dry east to southeasterly winds prevail, although occasionally low pressure troughs can trigger thunderstorms.

The shower and storm activity brings an average of 70mm of rainfall over the northwestern Top End. Elsewhere about the Territory average rainfall ranges from 10 to 30 mm.

Maximum temperatures range from the low thirties in the south up to high thirties over inland areas of the Top End, and coastal regions experience maxima in the low thirties.

Minimum temperatures normally range from about 15°C in the south to the low twenties over central regions and most of the north. The northwest coast averages minima in the mid twenties. October is the first month since April that temperatures in the south do not drop below 2°C.

About the Top End and over the Gulf coast mid-morning relative humidity is normally in the high fifty to low seventy percent range. Over central and southern regions, humidity averages thirty to forty percent. Afternoon values typically drop by up to thirty per cent.

Although winds across the Territory are generally light, dry grasslands and high temperatures often produce a high to very high fire danger throughout. Areas that receive good falls of rain have a greatly reduced fire danger.

Normal Conditions for South Australia During October

October is normally regarded as the last of the wetter months in South Australia, the chances of getting useful rains after this month diminish rapidly. Most of the Agricultural areas, with the exception of the region west of Streaky Bay, receive more than 25 mm during October. In the higher parts of the ranges, around Melrose and Clare and south from Williamstown, the monthly mean is normally higher than 50mm. The pastoral areas average between 10 mm and 25 mm, but these rains are mostly variable and unreliable.

Mean maximum temperatures are still below 20°C over the southern parts of Eyre Peninsula, along the ranges as far north as Clare and in the Lower South-East district. Elsewhere in the Agricultural areas, average maximum temperatures are generally between 20°C and 25°C. Temperature during October can be very variable with occasional days below 15°C and a few with readings in the 30°C to 40°C range.

Mean minimum temperatures are within a degree or so of 10°C over most of the state. Frosts are not very frequent, but when they do occur, can cause considerable damage to crops, vineyards and orchards.

Climatological Summary for Darwin Airport using data from 1941 to 2008

Site Number 014015 • Locality: Darwin • Opened Jan 1941 • Still Open • Latitude 12°25'26"S • Longitude 130°53'33"E • Elevation 30.4m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	31.8	31.4	31.9	32.7	32.0	30.6	30.5	31.3	32.5	33.2	33.2	32.6	32.0	67
Highest Temperature (°C)	35.6	36.0	36.0	36.7	36.0	34.5	34.8	36.0	37.7	38.9	37.3	37.0	38.9	67
Lowest Maximum Temperature (°C)	25.7	25.6	25.7	24.6	22.7	22.7	21.1	25.1	27.6	24.7	26.2	24.0	21.1	67
Mean Number of days over 30°C	26.3	22.9	27.1	28.6	28.3	20.5	20.2	25.1	28.9	30.2	29.3	28.7	316.2	67
Mean Number of days over 35°C	0.2	0.1	0.3	1.1	0.3	nil	nil	0.1	1.9	2.6	2.2	1.1	10.1	67
Mean Daily Minimum Temp (°C)	24.8	24.7	24.5	24.0	22.1	19.9	19.2	20.4	23.0	25.0	25.3	25.3	23.2	67
Lowest Temperature (°C)	20.2	17.2	19.2	16.0	13.8	12.1	10.4	13.2	14.3	19.0	19.3	19.8	10.4	67
Highest Minimum Temperature (°C)	29.3	29.4	29.2	28.3	26.6	25.6	25.1	25.6	26.7	28.8	29.7	29.7	29.7	67
Mean Number of Days below 2.2°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	67
Mean Number of Days below 0°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	67
Mean Daily Terrestrial Minimum (°C)	24.7	24.6	24.0	23.1	20.8	18.6	17.5	18.6	21.9	24.4	25.0	25.1	22.4	17
Lowest Daily Terrestrial Minimum (°C)	17.9	21.2	19.7	16.5	13.2	10.9	10.5	10.6	12.4	18.5	18.0	20.0	10.5	17
Number of Days Terrestrial below -0.9°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	17
Mean 9am Temperature (°C)	28.0	27.7	27.6	27.4	25.6	23.3	22.8	24.4	26.9	28.7	29.2	28.8	26.7	54
Mean 3pm Temperature (°C)	30.2	29.9	30.5	31.8	31.2	29.9	29.5	30.2	31.2	32.0	31.9	31.2	30.8	54
Mean 9am Relative Humidity (%)	81	83	82	74	65	60	60	65	68	69	72	76	71.1	54
Mean 3pm Relative Humidity (%)	70	72	67	52	43	38	37	40	47	52	58	65	53.5	54
Mean 9am Cloud Cover (oktas)	6.5	6.5	5.7	4.4	3.3	2.6	2.4	2.3	2.9	3.9	5.0	6.0	4.3	54
Mean 3pm Cloud Cover (oktas)	6.4	6.5	6.0	4.7	3.6	2.8	2.3	2.2	2.6	3.3	4.6	5.9	4.2	54
Maximum Wind Gust (km/h)	102	96	117	117	76	93	76	67	70	96	126	217	217	48
Mean Daily Wind Run (km)	341	324	272	275	296	317	299	287	294	308	289	316	302	13
Mean Number of Days of Strong Wind	1.8	2.1	1.2	1.1	0.6	0.5	0.4	0.9	0.6	0.7	0.7	1.3	11.9	25
Mean Number of Days of Gales	0.2	0.1	0.4	0.2	nil	nil	nil	nil	nil	nil	0.2	0.2	1.3	12
Mean Daily Pan Evaporation (mm)	6.0	5.7	5.8	6.4	6.9	6.9	6.8	7.2	7.7	8.0	7.5	6.7	6.8	43
Mean Daily Sunshine (hours)	5.8	5.7	6.8	8.8	9.6	9.9	10.1	10.3	9.9	9.5	8.4	7.0	8.5	57
Mean Number of Days with Hail	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	11
Mean Number of Days with Snow	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	11
Mean Number of Days with Frost	nil	nil	nil	0.1	nil	nil	nil	nil	nil	nil	nil	nil	0.1	11
Mean Number of Days with Fog	0.1	0.4	0.5	0.5	0.5	0.9	1.6	1.8	0.9	0.2	nil	0.4	7.8	18
Mean Number of Days with Thunder	15.7	12.2	12.3	4.8	1.2	0.1	0.2	0.3	1.5	5.6	13.9	16.1	83.8	46
Mean Number of Clear Days	0.6	0.7	1.9	6.3	12.3	16.5	17.7	19.1	15.3	9.1	3.6	1.0	104.3	54
Mean Number of Cloudy Days	24.0	21.6	19.7	11.3	6.3	3.7	3.4	2.7	3.2	5.6	11.4	20.1	132.9	54
Mean Monthly Rainfall (mm)	420.4	362.7	323.8	100.3	20.7	2.0	1.3	5.3	15.3	68.5	140.4	246.2	1706.9	68
Highest Monthly Rainfall (mm)	940.4	814.5	1013.6	396.2	298.9	50.6	26.6	83.8	129.8	338.7	370.8	664.5		68
Lowest Monthly Rainfall (mm)	136.1	103.3	88.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	17.2	18.8		68
Mean number of Rain days	21.2	20.4	19.6	9.1	2.0	0.6	0.4	0.6	2.3	6.5	12.2	16.5	111.5	68
Highest number of Rain days	29	28	31	23	19	5	4	4	10	16	22	27		68
Lowest number of Rain days	12	9	8	1	0	0	0	0	0	0	6	6		68



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Prepared by Climate Services Section in the Northern Territory Office of the Bureau of Meteorology.

Contact us by phone on (08) 8920 3815, by fax on (08) 8920 3832, or by email on

climate.nt@bom.gov.au

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Climatological Summary for Tennant Creek Airport using data from 1969 to 2008

Site Number 015135 • Locality: Barkly South • Opened Jan 1969 • Still Open • Latitude 19°38'32"S • Longitude 134°11'00"E • Elevation 375.7m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	36.8	35.8	34.4	31.7	27.7	24.5	24.6	27.5	31.5	34.7	36.4	37.3	31.9	39
Highest Temperature (°C)	44.0	44.5	40.7	38.4	36.4	32.9	34.7	35.5	38.9	41.6	43.4	45.4	45.4	39
Lowest Maximum Temperature (°C)	24.2	24.0	20.0	15.1	16.1	8.0	11.9	14.1	15.7	14.8	15.5	20.4	8.0	39
Mean Number of days over 30°C	29.4	26.2	28.2	23.0	8.5	1.9	1.7	8.1	20.9	27.6	28.8	30.0	234.5	39
Mean Number of days over 35°C	22.6	17.3	14.7	3.6	0.2	nil	nil	0.2	5.7	17.2	21.6	24.8	127.8	39
Mean Daily Minimum Temp (°C)	25.0	24.6	23.3	20.4	16.4	12.9	12.2	14.4	18.4	21.7	23.8	24.9	19.8	39
Lowest Temperature (°C)	17.2	17.2	14.6	11.6	6.7	5.3	4.5	6.0	7.4	11.6	10.7	15.7	4.5	39
Highest Minimum Temperature (°C)	33.2	31.4	29.7	27.8	24.5	21.3	21.9	23.8	27.6	30.2	31.6	32.1	33.2	39
Mean Number of Days below 2.2°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	39
Mean Number of Days below 0°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	39
Mean Daily Terrestrial Minimum (°C)	24.0	23.7	22.0	18.9	14.8	11.2	10.3	12.5	16.5	20.1	22.5	23.7	18.4	39
Lowest Daily Terrestrial Minimum (°C)	16.3	14.9	12.5	10.0	4.0	2.3	2.1	2.7	4.5	9.6	11.1	12.8	2.1	39
Number of Days Terrestrial below -0.9°C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	39
Mean 9am Temperature (°C)	29.2	28.4	27.1	24.3	20.0	16.2	15.8	18.6	23.2	27.0	29.0	29.8	24.0	39
Mean 3pm Temperature (°C)	35.4	34.5	33.4	30.8	27.0	23.8	23.9	26.6	30.6	33.6	35.2	35.8	30.9	39
Mean 9am Relative Humidity (%)	49	54	46	37	40	42	38	31	27	29	34	41	39.1	39
Mean 3pm Relative Humidity (%)	31	35	30	25	26	26	22	18	17	19	21	26	24.6	39
Mean 9am Cloud Cover (oktas)	4.3	4.4	3.4	2.4	2.2	1.8	1.3	1.4	1.7	2.2	2.9	3.7	2.6	39
Mean 3pm Cloud Cover (oktas)	4.8	5.0	4.2	3.1	2.4	1.8	1.4	1.3	1.8	2.8	3.7	4.5	3.1	39
Maximum Wind Gust (km/h)	117	102	94	98	81	78	80	78	76	104	100	106	117	38
Mean Daily Wind Run (km)	388	371	395	426	427	442	415	429	417	419	403	382	409	16
Mean Number of Days of Strong Wind	2.9	2.2	1.7	2.0	2.0	2.7	2.2	3.0	3.1	3.3	2.3	2.5	29.8	30
Mean Number of Days of Gales	0.3	nil	0.1	0.1	nil	nil	nil	nil	nil	0.2	0.1	0.3	1.1	9
Mean Daily Pan Evaporation (mm)	12.7	11.5	11.4	11.0	8.7	7.3	7.5	9.3	11.7	13.2	13.7	13.3	10.9	37
Mean Daily Sunshine (hours)	9.3	9.0	9.2	9.9	9.7	9.9	10.2	10.6	10.2	10.0	9.7	9.6	9.8	39
Mean Number of Days with Hail	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.2	0.2	9
Mean Number of Days with Snow	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	9
Mean Number of Days with Frost	0.1	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	0.1	9
Mean Number of Days with Fog	0.3	0.3	0.1	0.2	nil	0.3	0.3	nil	0.3	0.2	0.1	0.1	2.2	10
Mean Number of Days with Thunder	6.6	5.6	2.6	0.9	0.6	0.3	0.3	0.5	1.5	3.6	6.2	7.3	36.0	27
Mean Number of Clear Days	6.5	5.4	10.4	15.6	18.9	20.5	23.3	22.9	20.6	16.9	11.3	8.1	180.5	39
Mean Number of Cloudy Days	12.2	12.0	9.1	5.3	4.2	2.7	1.9	1.7	2.3	4.6	6.1	10.0	72.0	39
Mean Monthly Rainfall (mm)	107.5	121.0	55.7	15.8	7.6	5.6	4.6	1.7	7.4	20.7	36.8	68.4	452.7	39
Highest Monthly Rainfall (mm)	357.4	377.0	237.6	135.4	50.8	85.3	74.2	18.2	55.6	107.2	159.8	249.8		39
Lowest Monthly Rainfall (mm)	2.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8		39
Mean number of Rain days	9.6	9.3	6.1	1.9	1.4	0.9	0.7	0.7	1.7	3.9	5.8	7.6	49.6	39
Highest number of Rain days	24	18	20	9	6	6	5	5	7	11	14	18		39
Lowest number of Rain days	2	1	0	0	0	0	0	0	0	0	1	2		39



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Climatological Summary for Alice Springs Airport using data from 1941 to 2008

Site Number 015590 • Locality: Alice Springs • Opened Jan 1940 • Still Open • Latitude 23°47'42"S • Longitude 133°53'20"E • Elevation 546m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	36.4	35.0	32.7	28.2	23.1	19.8	19.7	22.6	27.2	30.9	33.6	35.4	28.7	67
Highest Temperature (°C)	45.2	44.7	42.2	39.9	35.0	31.6	31.6	34.0	38.8	41.7	42.9	44.2	45.2	67
Lowest Maximum Temperature (°C)	16.2	16.7	14.9	11.8	10.5	7.7	7.6	7.0	11.7	11.7	12.8	17.1	7.0	67
Mean Number of days over 30°C	28.7	25.1	24.0	11.2	1.9	0.1	0.1	2.1	10.2	18.3	23.6	27.8	173.0	67
Mean Number of days over 35°C	21.5	16.2	9.7	1.4	nil	nil	nil	nil	1.3	7.5	13.0	18.4	89.1	67
Mean Daily Minimum Temp (°C)	21.4	20.8	17.5	12.6	8.3	5.1	4.0	6.0	10.3	14.8	17.8	20.2	13.2	67
Lowest Temperature (°C)	10.0	8.5	6.1	1.4	-2.7	-6.0	-7.5	-4.1	-1.0	1.3	3.5	9.3	-7.5	67
Highest Minimum Temperature (°C)	32.8	31.6	29.4	25.9	21.4	21.0	20.4	22.1	26.0	30.0	31.3	31.0	32.8	67
Mean Number of Days below 2.2°C	nil	nil	nil	0.1	2.1	8.9	11.7	6.7	0.7	nil	nil	nil	30.2	67
Mean Number of Days below 0°C	nil	nil	nil	nil	0.4	4.1	6.0	1.9	0.1	nil	nil	nil	12.6	67
Mean Daily Terrestrial Minimum (°C)	17.9	17.4	14.1	9.5	5.0	1.7	0.4	2.0	6.2	11.0	14.2	16.6	9.6	57
Lowest Daily Terrestrial Minimum (°C)	0.2	2.1	1.4	-2.9	-7.2	-10.8	-12.4	-10.1	-7.2	-5.7	-0.3	4.0	-12.4	57
Number of Days Terrestrial below -0.9°C	nil	nil	nil	0.2	3.4	10.6	14.2	10.4	2.8	0.2	nil	nil	41.9	57
Mean 9am Temperature (°C)	28.9	27.5	24.6	19.9	14.4	10.7	10.0	13.3	18.7	23.2	26.3	28.1	20.5	54
Mean 3pm Temperature (°C)	35.2	34.1	31.7	27.7	22.5	19.2	19.1	21.8	26.3	30.0	32.5	34.0	27.8	54
Mean 9am Relative Humidity (%)	34	39	39	43	56	64	59	46	34	30	30	30	42.1	53
Mean 3pm Relative Humidity (%)	22	25	24	25	33	35	31	26	20	20	19	21	25.1	53
Mean 9am Cloud Cover (oktas)	2.8	2.9	2.3	2.4	2.9	2.6	1.9	1.7	1.7	2.2	2.6	2.9	2.4	54
Mean 3pm Cloud Cover (oktas)	3.7	3.8	3.0	2.7	3.0	2.5	1.9	1.6	1.9	2.7	3.4	3.6	2.8	54
Maximum Wind Gust (km/h)	120	122	104	78	120	94	91	96	100	104	174	131	174	54
Mean Daily Wind Run (km)	281	306	270	228	205	196	200	212	244	269	271	281	247	19
Mean Number of Days of Strong Wind	2.2	2.0	1.3	0.8	0.5	0.7	0.8	1.1	1.9	2.4	3.1	2.6	19.3	38
Mean Number of Days of Gales	0.2	0.3	0.1	nil	0.1	nil	nil	0.2	0.3	0.4	0.7	0.7	2.8	19
Mean Daily Pan Evaporation (mm)	13.2	11.8	10.4	7.7	4.9	3.7	4.1	5.6	8.1	10.3	11.6	12.4	8.7	44
Mean Daily Sunshine (hours)	10.3	9.8	9.7	9.5	8.5	8.4	9.1	9.8	10.0	10.0	10.1	10.0	9.6	55
Mean Number of Days with Hail	0.1	nil	nil	0.1	nil	nil	nil	nil	nil	0.3	0.3	0.3	1.0	17
Mean Number of Days with Snow	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	16
Mean Number of Days with Frost	nil	nil	nil	0.6	4.6	11.7	14.8	10.8	3.7	0.6	nil	nil	46.8	34
Mean Number of Days with Fog	0.1	0.3	0.2	0.2	0.6	0.8	0.9	0.5	0.2	0.4	0.2	0.1	4.5	21
Mean Number of Days with Thunder	3.2	2.5	1.6	1.1	1.1	0.7	0.6	0.9	1.9	3.3	4.5	4.4	25.7	44
Mean Number of Clear Days	13.1	11.9	16.4	16.8	15.7	17.0	21.2	22.8	20.8	17.6	13.5	13.0	199.9	54
Mean Number of Cloudy Days	6.5	6.6	5.4	5.0	7.4	5.6	4.1	3.1	3.0	4.4	5.3	6.8	63.3	54
Mean Monthly Rainfall (mm)	37.5	41.8	31.4	16.5	19.1	14.4	14.3	9.3	8.2	21.7	26.7	37.2	278.2	67
Highest Monthly Rainfall (mm)	251.4	241.6	356.8	269.2	103.6	101.2	144.0	114.1	60.8	73.4	132.6	228.9		67
Lowest Monthly Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		67
Mean number of Rain days	4.6	4.6	3.1	2.1	3.1	2.7	2.5	1.9	2.2	4.6	5.6	5.8	42.8	67
Highest number of Rain days	19	13	14	13	11	10	10	8	11	14	13	16		67
Lowest number of Rain days	0	0	0	0	0	0	0	0	0	0	0	0		67



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Climatological Summary for Coober Pedy using data from 1921 to 2008

Site Number 016007 • Locality: Coober Pedy • Opened Jan 1921 • Still Open • Latitude 29°00'14"S • Longitude 134°45'23"E • Elevation 215m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	36.4	35.7	32.8	27.6	22.3	18.8	18.7	20.7	24.5	28.9	32.1	34.6	27.7	30
Highest Temperature (°C)	47.0	46.7	44.4	40.0	33.0	29.4	32.0	35.0	39.1	43.9	45.6	47.8	47.8	30
Lowest Maximum Temperature (°C)	19.5	18.5	16.5	17.2	10.7	9.8	10.5	11.0	13.3	13.7	16.7	17.0	9.8	30
Mean Number of days over 30°C	25.1	23.6	21.2	9.3	1.1	nil	0.1	0.8	4.4	12.5	18.5	21.9	138.5	30
Mean Number of days over 35°C	16.9	16.1	11.0	1.4	nil	nil	nil	nil	0.7	4.4	9.6	14.2	74.3	30
Mean Daily Minimum Temp (°C)	20.7	20.8	18.2	14.0	10.1	7.2	6.3	7.4	10.1	13.6	16.6	19.1	13.7	30
Lowest Temperature (°C)	9.4	10.6	9.6	5.0	1.4	0.1	-2.0	0.6	1.7	3.9	6.7	10.0	-2.0	30
Highest Minimum Temperature (°C)	31.8	30.2	30.0	23.6	19.2	15.6	15.1	16.6	21.5	25.8	27.8	34.5	34.5	30
Mean Number of Days below 2.2°C	nil	nil	nil	nil	nil	0.4	0.7	0.3	nil	nil	nil	nil	1.5	30
Mean Number of Days below 0°C	nil	nil	nil	nil	nil	nil	0.1	nil	nil	nil	nil	nil	0.1	30
Mean Daily Terrestrial Minimum (°C)														0
Lowest Daily Terrestrial Minimum (°C)														0
Number of Days Terrestrial below -0.9°C														0
Mean 9am Temperature (°C)	25.9	25.4	23.3	19.1	14.3	10.8	10.1	12.1	16.0	20.2	22.3	24.4	18.6	29
Mean 3pm Temperature (°C)	34.1	34.0	31.6	26.4	21.6	18.1	18.0	19.8	23.6	27.7	30.5	32.8	26.5	25
Mean 9am Relative Humidity (%)	41	42	47	53	67	74	67	60	47	41	40	46	52.1	7
Mean 3pm Relative Humidity (%)	21	23	26	31	41	43	37	32	24	22	20	25	28.5	7
Mean 9am Cloud Cover (oktas)	2.1	2.2	2.0	2.2	2.9	2.9	2.5	2.3	2.0	2.3	2.8	2.8	2.4	29
Mean 3pm Cloud Cover (oktas)	2.8	3.0	2.7	2.9	3.4	3.5	3.0	2.8	2.6	2.9	2.9	2.9	3.0	25
Maximum Wind Gust (km/h)														0
Mean Daily Wind Run (km)														0
Mean Number of Days of Strong Wind	1.4	1.3	1.6	1.7	1.0	1.3	1.7	2.1	1.9	2.3	1.6	1.8	19.6	12
Mean Number of Days of Gales						nil	nil	0.5	0.7	1.3	1.5	1.0	4.9	1
Mean Daily Pan Evaporation (mm)														0
Mean Daily Sunshine (hours)														0
Mean Number of Days with Hail					1.0	nil	nil	nil	nil	1.0			2.0	1
Mean Number of Days with Snow						nil	nil	nil	nil				nil	0
Mean Number of Days with Frost					1.0	1.4	2.1	2.3	nil				6.8	2
Mean Number of Days with Fog	1.0			1.0	1.0	1.9	1.1	0.8	1.0	1.0		1.0	9.9	3
Mean Number of Days with Thunder	1.2	1.6	1.4	1.8	1.7	1.0	0.8	1.0	1.2	1.5	2.8	1.6	17.6	10
Mean Number of Clear Days	13.6	13.7	17.8	14.2	13.1	12.8	14.5	16.1	15.5	15.0	14.0	13.5	173.9	25
Mean Number of Cloudy Days	4.3	4.8	4.4	4.9	7.3	7.2	5.6	5.1	4.3	4.7	5.1	6.0	63.6	25
Mean Monthly Rainfall (mm)	17.4	22.8	12.9	6.5	13.1	14.4	7.8	9.2	8.5	15.0	11.6	17.0	156.2	79
Highest Monthly Rainfall (mm)	166.0	165.1	268.0	42.0	86.8	90.7	51.1	59.7	44.2	104.1	84.2	78.9		79
Lowest Monthly Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		79
Mean number of Rain days	2.2	2.2	1.8	1.7	2.8	3.1	2.4	2.6	2.3	2.9	3.2	3.0	30.2	77
Highest number of Rain days	9	7	8	9	11	11	11	10	10	10	10	13		77
Lowest number of Rain days	0	0	0	0	0	0	0	0	0	0	0	0		77



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Climatological Summary for Woomera Aerodrome using data from 1949 to 2008

Site Number 016001 • Locality: Woomera • Opened Jan 1949 • Still Open • Latitude 31°09'21"S • Longitude 136°48'19"E • Elevation 166.6m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	34.4	33.6	30.4	25.5	20.6	17.3	16.9	18.8	22.5	26.1	29.7	32.3	25.7	59
Highest Temperature (°C)	47.6	45.6	43.0	39.9	31.1	28.9	28.6	32.6	37.9	41.9	44.4	45.4	47.6	59
Lowest Maximum Temperature (°C)	18.8	16.3	15.4	13.8	10.3	9.4	8.3	10.4	11.1	11.6	14.5	18.4	8.3	59
Mean Number of days over 30°C	24.2	21.0	16.8	5.2	0.2	nil	nil	0.2	2.3	7.4	13.9	19.8	111.0	59
Mean Number of days over 35°C	14.7	12.1	5.9	0.4	nil	nil	nil	nil	0.2	1.9	5.6	10.1	50.9	59
Mean Daily Minimum Temp (°C)	19.4	19.3	16.8	13.0	9.4	6.7	5.8	6.8	9.4	12.3	15.3	17.6	12.6	59
Lowest Temperature (°C)	8.3	10.3	8.4	4.8	-0.3	0.0	-0.9	-1.4	1.8	4.4	5.5	8.8	-1.4	59
Highest Minimum Temperature (°C)	34.7	32.2	27.8	24.0	18.9	16.1	15.4	17.0	22.8	29.5	30.2	30.5	34.7	59
Mean Number of Days below 2.2°C	nil	nil	nil	nil	nil	1.0	1.3	0.6	nil	nil	nil	nil	2.9	59
Mean Number of Days below 0°C	nil	nil	nil	nil	nil	nil	0.1	nil	nil	nil	nil	nil	0.1	59
Mean Daily Terrestrial Minimum (°C)	18.4	18.4	15.6	11.5	7.8	5.1	4.1	5.1	7.8	10.8	14.1	16.6	11.3	58
Lowest Daily Terrestrial Minimum (°C)	8.3	9.9	7.4	1.3	-4.7	-4.2	-3.8	-5.1	-2.5	-0.1	3.0	7.7	-5.1	58
Number of Days Terrestrial below -0.9°C	nil	nil	nil	nil	nil	0.6	0.9	0.3	0.1	nil	nil	nil	1.8	58
Mean 9am Temperature (°C)	24.4	23.8	21.4	18.0	13.4	10.0	9.3	11.3	15.2	18.7	21.1	23.0	17.5	54
Mean 3pm Temperature (°C)	32.8	32.3	29.2	24.7	20.0	16.8	16.3	18.1	21.5	25.1	28.4	30.5	24.6	54
Mean 9am Relative Humidity (%)	43	46	49	53	66	75	73	64	52	44	42	42	54.1	54
Mean 3pm Relative Humidity (%)	21	24	26	31	39	45	43	36	30	25	21	22	30.1	54
Mean 9am Cloud Cover (oktas)	2.6	2.6	2.4	2.9	3.5	3.6	3.3	2.7	2.8	3.0	3.1	2.9	2.9	54
Mean 3pm Cloud Cover (oktas)	2.8	2.9	2.8	3.5	4.0	4.2	4.0	3.7	3.4	3.3	3.4	3.2	3.4	54
Maximum Wind Gust (km/h)	119	115	91	85	111	126	93	106	100	122	167	141	167	49
Mean Daily Wind Run (km)	499	471	441	383	357	361	376	411	460	484	477	486	434	16
Mean Number of Days of Strong Wind	5.0	3.7	2.8	2.0	2.5	2.1	3.3	4.5	5.5	6.4	5.3	5.3	48.3	52
Mean Number of Days of Gales	0.8	0.5	0.3	0.3	0.4	0.2	0.3	0.7	1.1	1.3	1.3	0.8	8.1	17
Mean Daily Pan Evaporation (mm)	14.2	13.1	10.4	6.9	4.3	3.0	3.3	4.8	7.0	9.5	11.8	13.2	8.5	39
Mean Daily Sunshine (hours)	10.9	10.5	9.8	8.8	7.5	7.0	7.3	8.4	9.0	9.7	10.4	10.6	9.1	57
Mean Number of Days with Hail	0.1	0.2	0.1	nil	0.1	0.1	0.3	0.3	0.3	0.2	0.3	0.1	2.0	12
Mean Number of Days with Snow	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	10
Mean Number of Days with Frost	0.3	nil	nil	nil	0.2	2.1	2.0	1.0	0.1	nil	nil	nil	5.7	16
Mean Number of Days with Fog	0.4	0.2	0.2	0.4	1.3	1.8	1.5	0.8	0.3	0.2	nil	0.2	7.3	20
Mean Number of Days with Thunder	2.2	1.6	1.3	1.2	1.2	0.8	0.8	1.1	1.8	2.4	2.8	2.2	19.4	35
Mean Number of Clear Days	16.7	15.0	17.6	13.6	10.6	10.0	11.1	13.7	14.0	13.8	13.0	14.9	164.0	54
Mean Number of Cloudy Days	5.6	5.2	5.4	6.7	9.0	8.9	8.4	6.7	6.5	7.2	6.8	6.8	83.2	54
Mean Monthly Rainfall (mm)	15.5	19.4	13.4	11.1	18.6	16.2	15.1	13.7	15.2	16.0	16.4	13.6	184.3	59
Highest Monthly Rainfall (mm)	93.0	121.2	191.2	68.8	119.4	70.2	64.7	72.6	85.9	82.4	130.6	85.6		59
Lowest Monthly Rainfall (mm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		59
Mean number of Rain days	3.0	2.4	2.5	2.8	4.9	5.3	5.8	5.3	5.1	4.4	4.3	3.4	49.1	59
Highest number of Rain days	8	6	12	9	13	15	14	15	11	12	9	11		59
Lowest number of Rain days	0	0	0	0	0	0	0	0	0	0	0	0		59



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Climatological Summary for Adelaide Airport using data from 1955 to 2008

Site Number 023034 • Locality: Adelaide • Opened Feb 1955 • Still Open • Latitude 34°57'09"S • Longitude 138°31'13"E • Elevation 2m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Years of Record
Mean Daily Maximum Temp (°C)	27.9	28.0	25.5	22.1	18.5	15.9	14.9	15.9	18.1	20.9	23.8	25.7	21.4	54
Highest Temperature (°C)	44.0	43.6	40.8	36.9	29.2	26.1	25.9	29.9	33.9	38.0	41.9	42.4	44.0	54
Lowest Maximum Temperature (°C)	17.3	18.5	16.1	14.0	11.6	9.8	9.8	10.2	11.5	12.2	13.7	14.9	9.8	54
Mean Number of days over 30°C	10.6	9.5	5.9	1.6	nil	nil	nil	nil	0.2	1.8	5.2	7.3	42.1	54
Mean Number of days over 35°C	4.7	3.5	1.4	0.1	nil	nil	nil	nil	nil	0.1	1.1	2.7	13.5	54
Mean Daily Minimum Temp (°C)	15.9	16.0	14.3	11.7	9.5	7.6	7.0	7.5	8.9	10.6	12.6	14.4	11.3	54
Lowest Temperature (°C)	7.9	8.1	4.6	3.1	-0.3	-2.6	-1.1	-0.2	1.1	3.1	4.2	5.9	-2.6	54
Highest Minimum Temperature (°C)	33.5	30.3	29.4	24.6	20.6	16.1	15.6	18.3	21.7	25.0	26.9	28.7	33.5	54
Mean Number of Days below 2.2°C	nil	nil	nil	nil	0.2	1.7	1.4	0.8	0.1	nil	nil	nil	4.1	54
Mean Number of Days below 0°C	nil	nil	nil	nil	nil	0.3	0.2	nil	nil	nil	nil	nil	0.6	54
Mean Daily Terrestrial Minimum (°C)	12.0	11.9	10.1	7.5	5.9	4.3	3.7	4.0	5.3	6.9	8.9	10.8	7.6	48
Lowest Daily Terrestrial Minimum (°C)	0.8	1.0	-2.7	-4.3	-7.4	-9.3	-6.9	-6.5	-5.0	-3.2	-3.9	-1.7	-9.3	48
Number of Days Terrestrial below -0.9°C	nil	nil	nil	0.4	1.8	3.7	3.7	3.1	1.8	0.6	0.2	0.1	15.6	48
Mean 9am Temperature (°C)	21.7	21.7	19.9	17.4	13.9	11.1	10.4	11.6	14.1	16.5	18.5	20.2	16.4	53
Mean 3pm Temperature (°C)	25.8	26.3	23.9	20.8	17.5	15.0	14.0	14.8	16.7	19.2	21.8	23.6	20.0	53
Mean 9am Relative Humidity (%)	52	53	57	61	72	79	80	74	66	58	54	53	63.3	53
Mean 3pm Relative Humidity (%)	42	42	46	50	58	64	65	61	57	50	46	45	52.1	53
Mean 9am Cloud Cover (oktas)	3.9	3.5	4.0	4.6	5.1	5.1	5.3	4.9	4.8	4.8	4.8	4.6	4.6	53
Mean 3pm Cloud Cover (oktas)	3.1	3.2	3.5	4.4	5.1	5.1	5.1	4.8	4.6	4.3	4.2	3.8	4.3	53
Maximum Wind Gust (km/h)	94	91	117	96	102	107	106	115	133	130	135	133	135	52
Mean Daily Wind Run (km)	399	377	354	315	296	339	351	361	391	406	396	412	366	14
Mean Number of Days of Strong Wind	3.2	2.2	2.4	3.1	3.6	3.1	3.9	4.5	4.5	5.3	4.2	4.2	44.3	48
Mean Number of Days of Gales	0.3	nil	0.7	0.5	0.5	0.8	0.5	0.9	0.9	0.9	0.5	0.5	6.9	14
Mean Daily Pan Evaporation (mm)	9.0	8.4	6.6	4.3	2.6	1.9	2.0	2.8	3.9	5.6	7.3	8.2	5.2	27
Mean Daily Sunshine (hours)	10.4	10.0	8.7	7.3	5.6	4.7	5.0	6.2	7.1	8.3	9.3	9.4	7.7	25
Mean Number of Days with Hail	0.4	0.2	nil	0.4	0.8	0.9	1.0	1.2	0.9	0.6	0.2	0.2	6.8	16
Mean Number of Days with Snow	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	9
Mean Number of Days with Frost	nil	nil	0.2	1.2	2.5	4.6	4.1	3.9	2.9	1.5	0.7	0.1	21.8	25
Mean Number of Days with Fog	nil	nil	nil	0.5	1.0	1.6	2.0	1.5	0.8	0.5	0.2	0.2	8.3	20
Mean Number of Days with Thunder	1.6	1.1	1.4	1.3	1.3	1.3	1.1	1.5	1.6	1.7	2.2	2.0	18.2	31
Mean Number of Clear Days	12.0	12.1	11.0	7.9	4.9	4.3	4.1	5.4	5.9	6.9	6.9	8.3	89.8	53
Mean Number of Cloudy Days	7.6	6.4	8.9	11.9	15.3	14.3	15.4	13.3	12.1	11.9	10.8	10.6	138.6	53
Mean Monthly Rainfall (mm)	18.1	18.5	20.8	34.8	54.1	55.9	59.5	49.9	46.5	39.2	25.7	24.1	447.0	54
Highest Monthly Rainfall (mm)	62.3	103.2	112.2	158.8	125.4	137.8	116.4	103.8	113.6	90.4	94.9	90.4		54
Lowest Monthly Rainfall (mm)	0.3	0.0	0.0	0.8	4.4	7.2	18.2	8.6	13.1	0.6	1.0	2.4		54
Mean number of Rain days	4.7	3.8	5.4	8.6	12.9	13.6	15.9	15.7	13.2	10.8	7.8	6.8	119.3	54
Highest number of Rain days	11	8	13	18	22	22	22	23	19	21	14	15		54
Lowest number of Rain days	0	0	0	2	3	3	7	6	7	1	2	1		54



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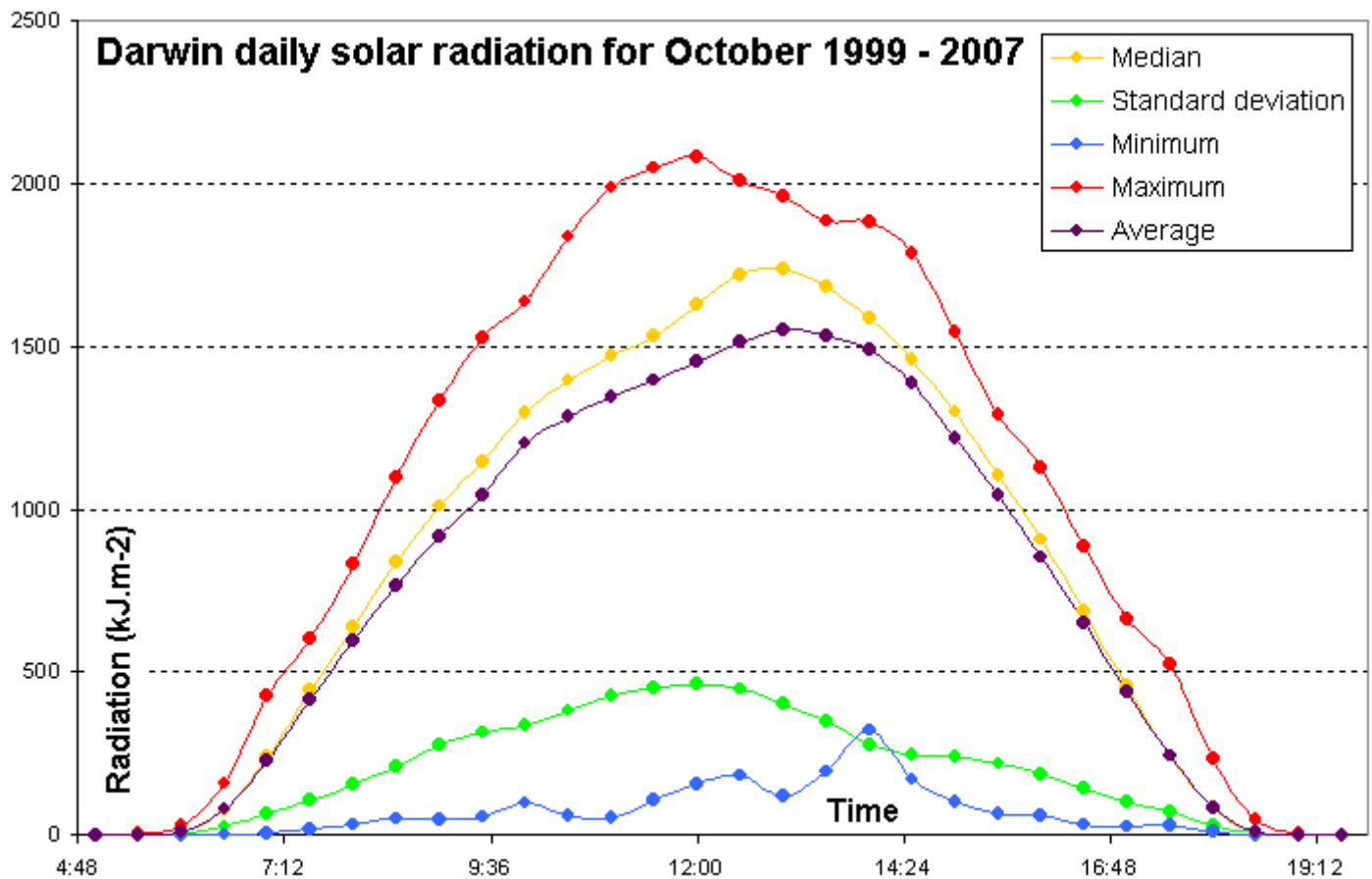
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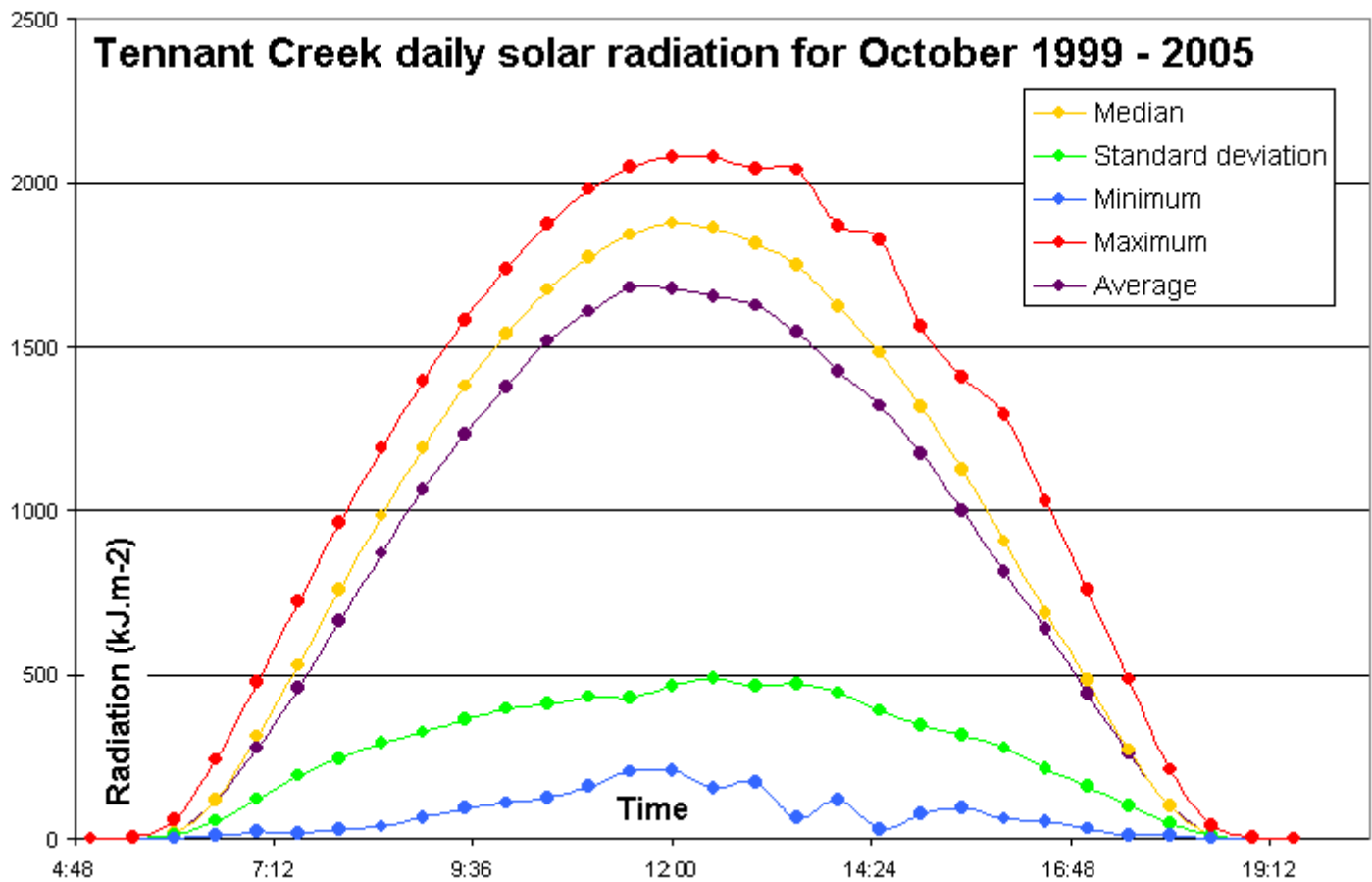
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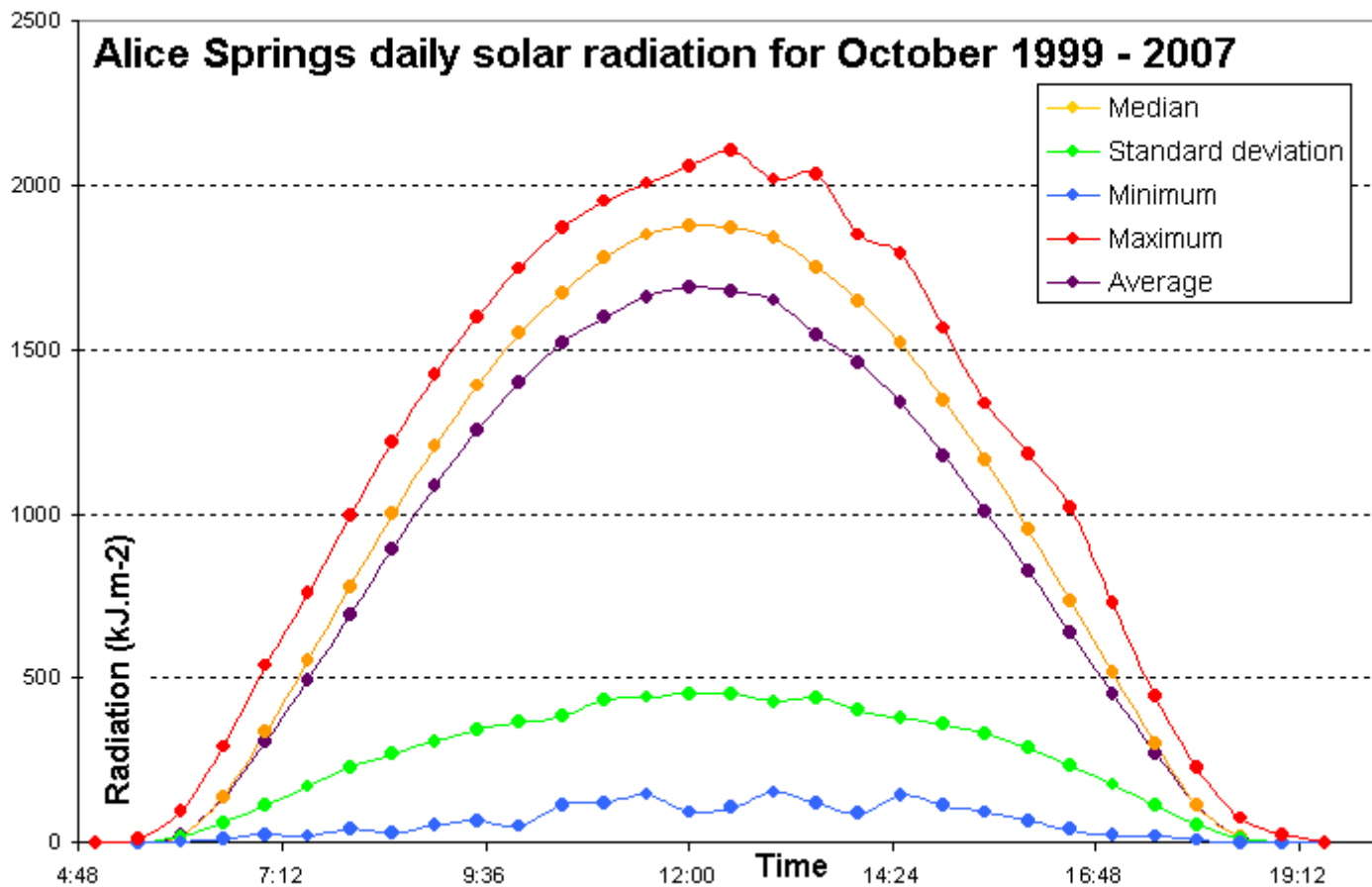
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Time	Average	Median	Standard deviation	Minimum	Maximum
5:00	0	0	0	0	0
5:30	0	0	0	0	4
6:00	9	8	5	0	29
6:30	80	78	26	1	158
7:00	229	239	65	6	428
7:30	416	444	106	17	602
8:00	598	639	155	31	830
8:30	763	836	208	50	1098
9:00	918	1009	275	46	1333
9:30	1044	1146	315	55	1527
10:00	1202	1296	335	99	1636
10:30	1283	1395	381	59	1837
11:00	1344	1469	426	53	1988
11:30	1396	1530	451	107	2047
12:00	1451	1628	462	157	2082
12:30	1512	1721	448	183	2007
13:00	1551	1736	402	119	1960
13:30	1532	1683	350	194	1884
14:00	1488	1585	277	321	1881
14:30	1387	1458	246	171	1786
15:00	1219	1299	242	102	1542
15:30	1043	1104	219	63	1289
16:00	852	907	186	59	1128
16:30	651	687	142	31	884
17:00	439	455	101	26	664
17:30	242	243	70	29	522
18:00	84	80	29	8	232
18:30	9	7	7	0	46
19:00	0	0	0	0	5
19:30	0	0	0	0	0

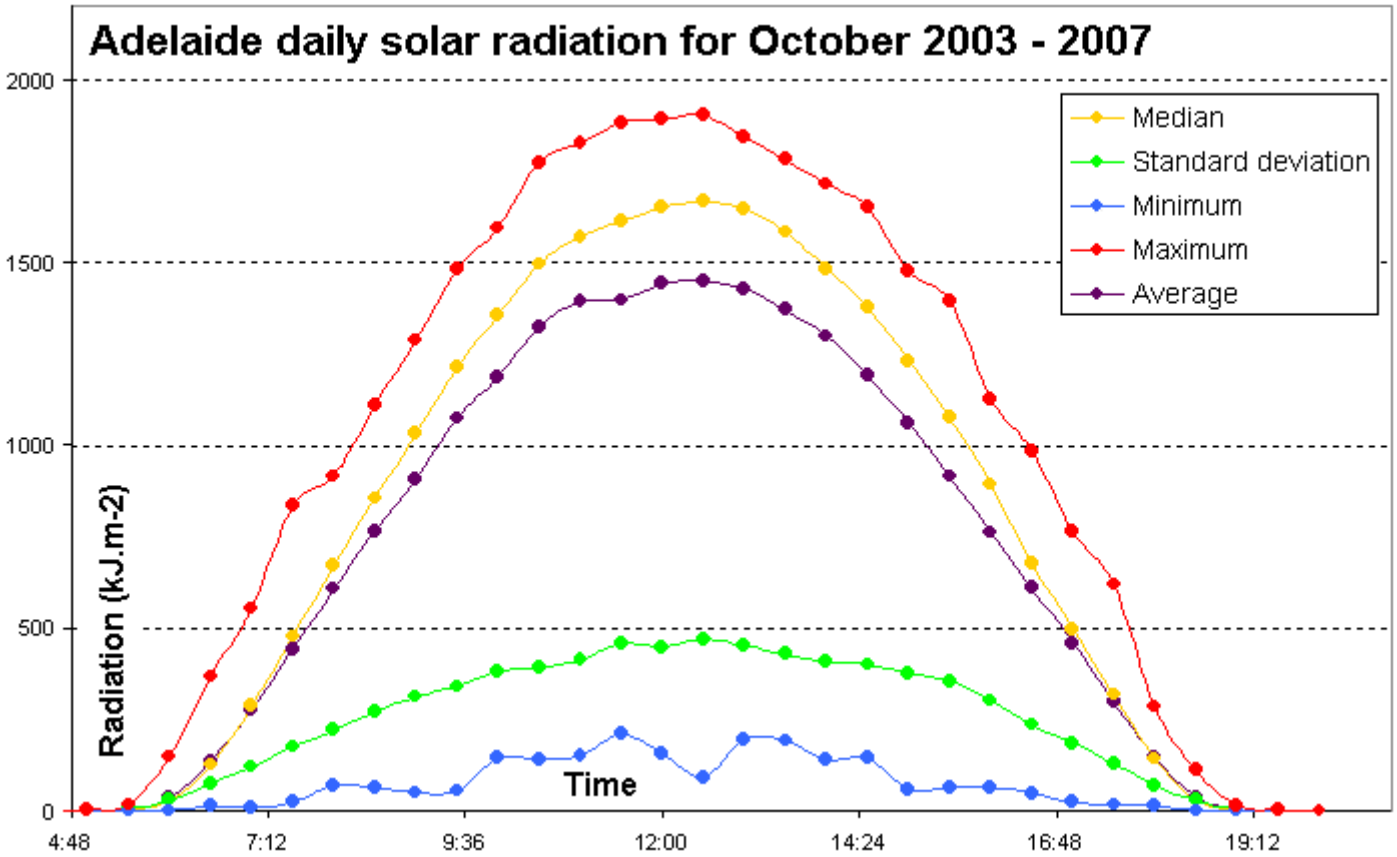


Time	Average	Median	Standard dev.	Minimum	Maximum
5:00	0	0	0	0	0
5:30	0	0	1	0	5
6:00	18	16	12	0	56
6:30	116	117	54	6	239
7:00	275	312	119	21	475
7:30	458	528	192	14	722
8:00	664	760	244	29	963
8:30	869	984	289	36	1189
9:00	1065	1191	323	64	1395
9:30	1235	1380	362	92	1582
10:00	1379	1538	396	109	1740
10:30	1519	1674	409	123	1874
11:00	1607	1773	432	158	1980
11:30	1680	1843	430	203	2048
12:00	1678	1878	466	206	2081
12:30	1653	1862	488	154	2080
13:00	1627	1816	464	171	2043
13:30	1545	1749	471	62	2040
14:00	1426	1623	444	118	1871
14:30	1320	1482	390	29	1828
15:00	1174	1316	347	74	1561
15:30	1001	1126	313	93	1408
16:00	814	907	276	60	1293
16:30	637	688	212	51	1031
17:00	442	481	158	30	759
17:30	259	270	99	11	486
18:00	99	98	44	10	211
18:30	12	9	8	0	40
19:00	0	0	0	0	3
19:30	0	0	0	0	0



Time	Average	Median	Standard dev.	Minimum	Maximum
5:00	0	0	0	0	0
5:30	0	0	1	0	10
6:00	24	19	18	1	97
6:30	135	138	59	10	291
7:00	306	335	113	24	539
7:30	495	553	171	20	758
8:00	693	779	229	41	996
8:30	894	1000	269	29	1219
9:00	1083	1204	307	52	1421
9:30	1256	1390	343	65	1599
10:00	1397	1547	365	49	1747
10:30	1520	1672	383	115	1869
11:00	1596	1777	434	119	1950
11:30	1660	1848	441	146	2006
12:00	1690	1877	453	92	2056
12:30	1678	1871	453	105	2103
13:00	1649	1837	429	152	2017
13:30	1546	1751	439	121	2032
14:00	1460	1647	401	87	1848
14:30	1338	1518	379	143	1789
15:00	1177	1346	358	112	1564
15:30	1005	1161	330	92	1335
16:00	826	951	286	65	1181
16:30	637	733	232	39	1017
17:00	452	517	175	22	727
17:30	271	301	111	20	445
18:00	112	112	53	8	226
18:30	17	14	13	0	73
19:00	0	0	2	0	24
19:30	0	0	0	0	0

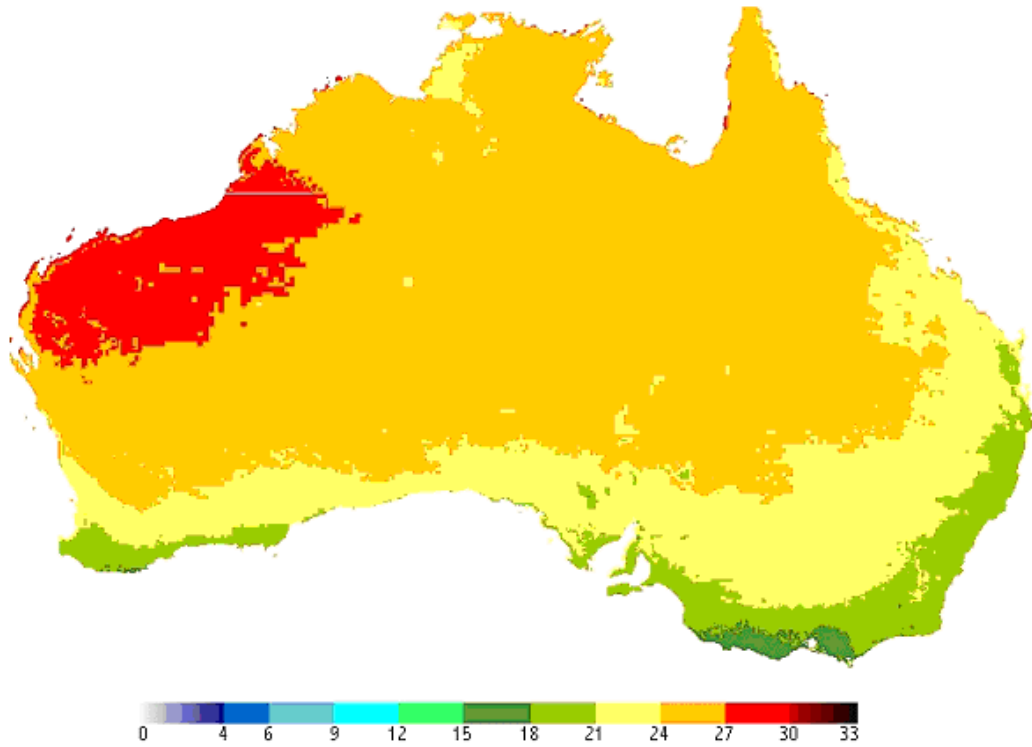
Adelaide daily solar radiation for October 2003 - 2007



Time	Average	Median	Standard dev.	Minimum	Maximum
4:30	0	0	0	0	0
5:00	0	0	0	0	3
5:30	2	1	3	0	16
6:00	35	28	28	0	148
6:30	136	125	73	12	368
7:00	278	287	121	9	554
7:30	441	477	175	23	834
8:00	608	672	221	67	915
8:30	766	855	270	63	1108
9:00	907	1033	312	50	1287
9:30	1073	1212	339	55	1480
10:00	1186	1355	382	144	1594
10:30	1325	1496	391	140	1774
11:00	1393	1571	413	150	1826
11:30	1396	1611	458	209	1883
12:00	1442	1651	448	158	1892
12:30	1450	1668	469	92	1903
13:00	1427	1646	452	195	1842
13:30	1371	1583	428	192	1781
14:00	1298	1483	408	140	1714
14:30	1193	1377	400	143	1651
15:00	1062	1230	376	59	1476
15:30	916	1076	355	63	1395
16:00	761	893	301	64	1127
16:30	609	678	235	48	985
17:00	459	497	184	24	763
17:30	298	317	128	15	619
18:00	144	142	68	13	285
18:30	39	28	28	0	110
19:00	3	2	3	0	13
19:30	0	0	0	0	2
20:00	0	0	0	0	0

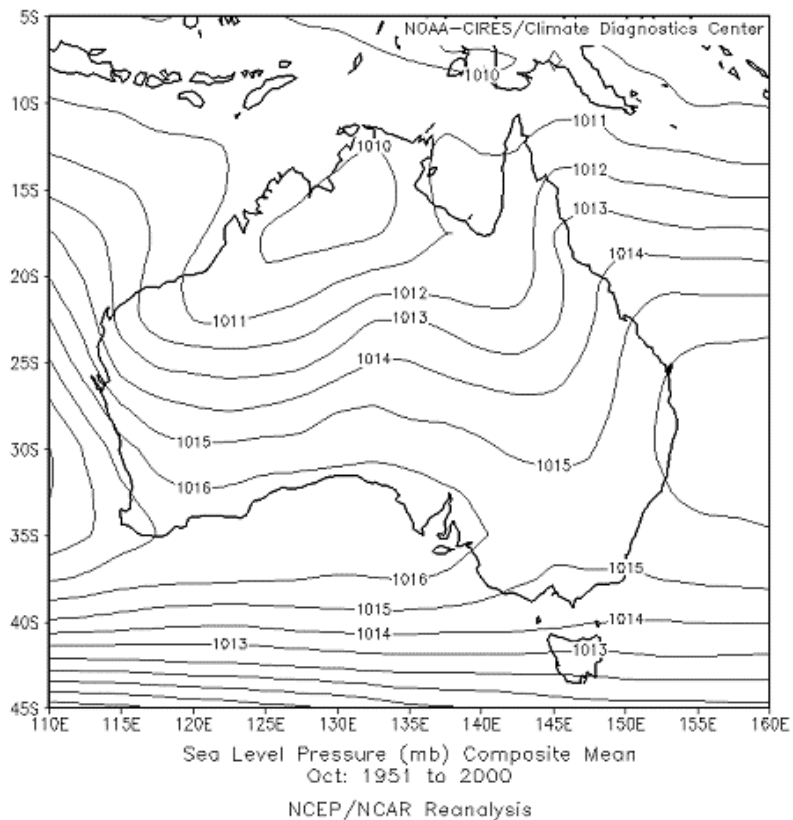
Satellite-derived Exposure Monthly Climate Map

October

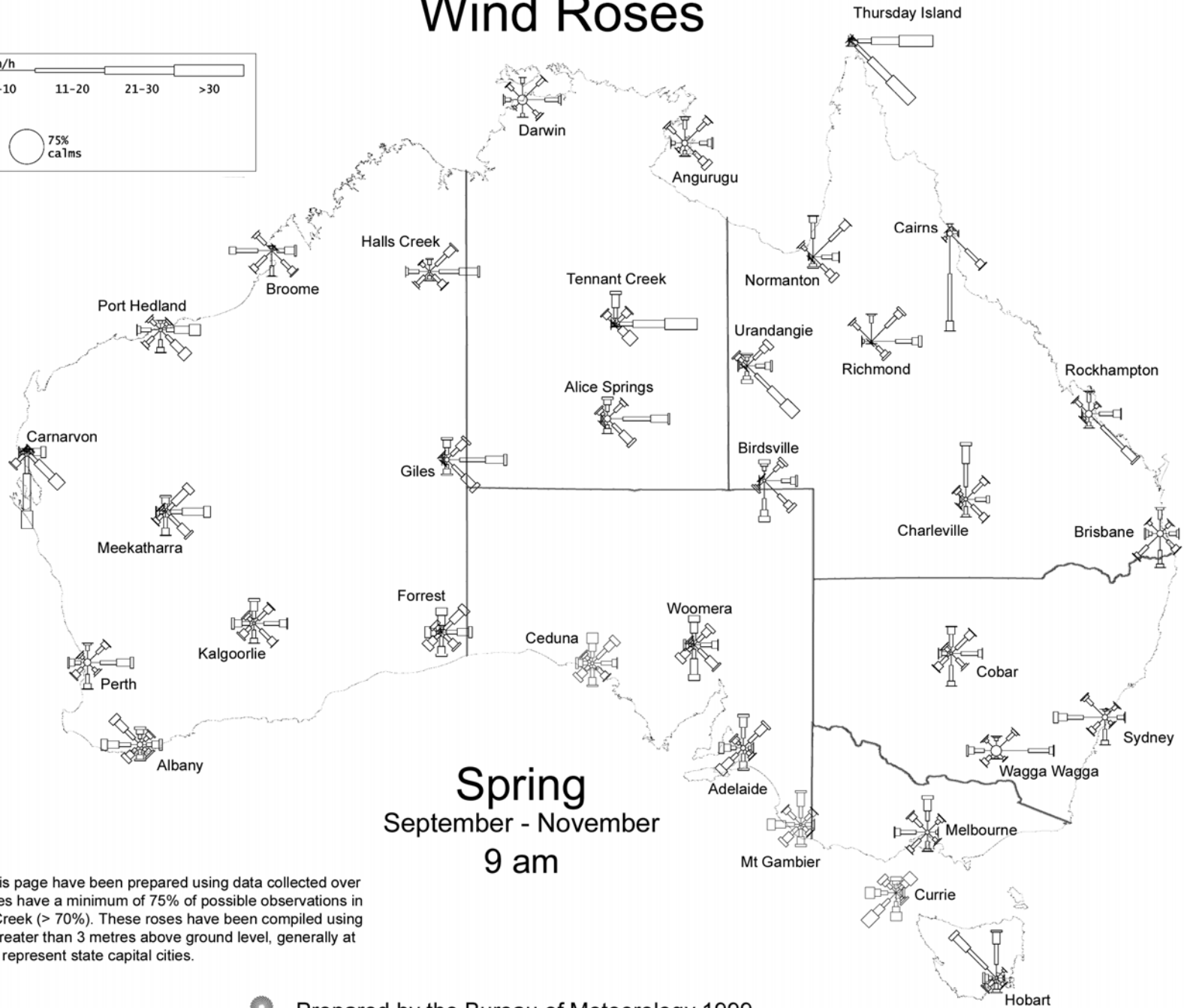
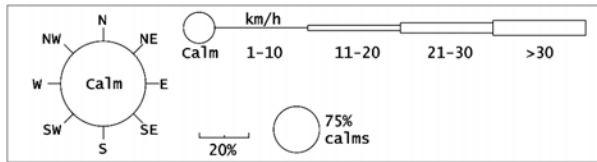


The map shows the average daily exposure (MJ/(m*m)) for a particular month. This is calculated by averaging satellite data for the month in question from 1990-1994 and 1997-6/2001.

Long Term Average Sea Level Pressure 1951 - 2000



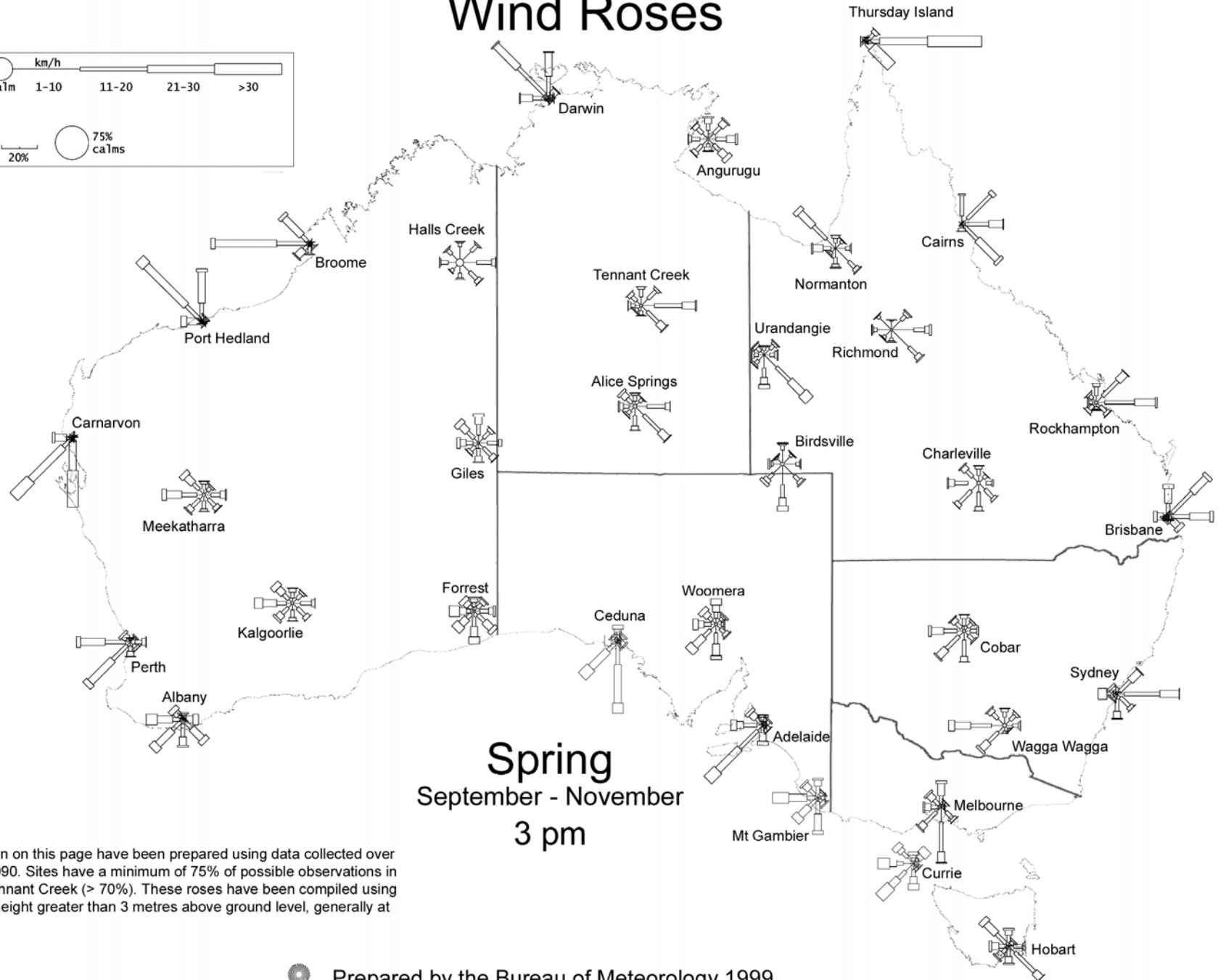
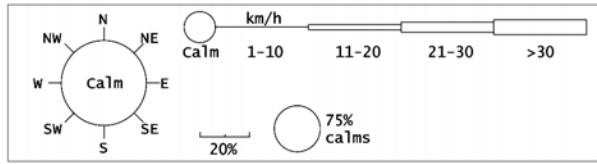
Wind Roses



Spring
September - November
9 am

The wind roses shown on this page have been prepared using data collected over the period 1961 to 1990. Sites have a minimum of 75% of possible observations in this period except Tennant Creek (> 70%). These roses have been compiled using data measured at a height greater than 3 metres above ground level, generally at a height of 10m. Red circles represent state capital cities.

Wind Roses



Spring
September - November
3 pm

The wind roses shown on this page have been prepared using data collected over the period 1961 to 1990. Sites have a minimum of 75% of possible observations in this period except Tennant Creek (> 70%). These roses have been compiled using data measured at a height greater than 3 metres above ground level, generally at a height of 10m.