



**Australian Government**  
**Bureau of Meteorology**

# Monthly Weather Review Australia November 2014



The *Monthly Weather Review - Australia* is produced by the Bureau of Meteorology to provide a concise but informative overview of the temperatures, rainfall and significant weather events in Australia for the month.

To keep the *Monthly Weather Review* as timely as possible, much of the information is based on electronic reports. Although every effort is made to ensure the accuracy of these reports, the results can be considered only preliminary until complete quality control procedures have been carried out. Any major discrepancies will be noted in later issues.

We are keen to ensure that the *Monthly Weather Review* is appropriate to its readers' needs. If you have any comments or suggestions, please contact us:

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## Units of measurement

Except where noted, **temperature** is given in degrees Celsius (°C), **rainfall** in millimetres (mm), and **wind speed** in kilometres per hour (km/h).

## Observation times and periods

Each station in Australia makes its main observation for the day at 9 am local time. At this time, the precipitation over the past 24 hours is determined, and maximum and minimum thermometers are also read and reset. In this publication, the following conventions are used for assigning dates to the observations made:

**Maximum temperatures** are for the 24 hours *from* 9 am on the date mentioned. They normally occur in the afternoon of that day.

**Minimum temperatures** are for the 24 hours *to* 9 am on the date mentioned. They normally occur in the early morning of that day.

**Mean temperatures** are the average of the daily maximum and daily minimum temperatures.

**Daily rainfall** is for the 24 hours *to* 9 am on the date mentioned. This means a significant fraction of the rain may have occurred on the previous calendar day.

**Monthly rainfall** is for the period from 9 am on the last day of the previous month to 9 am on the last day of this month.

**Maximum daily wind gusts** are in the 24 hours from midnight to midnight.

## Climatological values

The climatological averages shown in the text and tables are generally long-term means based on observations from the years 1961–1990. They are not shown for sites with less than 25 years of record in that time, as they cannot then be calculated reliably. Climatological extremes are generally taken from all available years of record; the number of years can vary markedly from site to site.

## Records

The tables of records are not exhaustive, as they only show sites with at least 30 years of record. This may exclude locations where a new site has been established; this means even some major cities and towns may not be listed.

## Maps

The temperature and rainfall maps are intended to give an overview of the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps](http://www.bom.gov.au/climate/maps).

## Accessing data

Tables of daily values for selected sites are included toward the back of the *Monthly Weather Review*. Data from many more sites and for other times are available from [www.bom.gov.au/climate/data/](http://www.bom.gov.au/climate/data/).

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## Cover photograph

Primary and secondary bows visible during a shower at Hallett Cove.

Photograph by Mark Anolak, 16 October 2009. Used with permission.

# Overview

- Two heatwaves
- Above average rainfall in the west
- Below average rainfall in the east
- Hot days in the east, warm nights inland

November 2014 had the warmest national mean temperature on record, and above average mean temperatures in all States and Territories. The area-averaged maximum temperature was also the highest on record for Australia. Two significant heatwaves affected the Northern Territory, South Australia, New South Wales and Queensland. Mean minimum temperatures were above average for Australia, and in

all States and Territories, with Queensland recording its warmest November nights on record.

Rainfall averaged across Australia was 22% below the historical mean. Very much below average falls were recorded across New South Wales, Queensland, Tasmania, as well as across the Top End of the Northern Territory and areas of coastal Victoria and South Australia. It was wetter than average in the west, with the southern coast, Gascoyne, Pilbara and western interior of Western Australia recording November rainfall in the highest ten per cent of records. Above average rainfall was recorded in parts of the Gulf Country and areas of western Queensland.

## Areal averages in November 2014

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	-15%	+2.18 °C highest	+1.58 °C 3rd-highest	+1.88 °C highest
Western Australia	+88%	+1.19 °C	+0.91 °C 9th-highest	+1.05 °C equal 8th-highest
Northern Territory	-13%	+1.67 °C 4th-highest	+1.78 °C 3rd-highest	+1.73 °C 3rd-highest
South Australia	-14%	+2.72 °C 5th-highest	+1.61 °C 7th-highest	+2.16 °C 6th-highest
Queensland	-55%	+2.83 °C highest	+2.33 °C highest	+2.58 °C highest
New South Wales	-51%	+4.05 °C 3rd-highest	+2.14 °C 8th-highest	+3.10 °C 4th-highest
Victoria	-21%	+2.50 °C equal 6th-highest	+0.46 °C	+1.48 °C
Tasmania	-38%	+0.40 °C	-0.11 °C	+0.14 °C

## Extremes in November 2014

	Hottest day	Coldest night	Wettest day	Warmest overall	Coollest overall	Wettest overall	Strongest wind gust
Australia	46.1 °C at Roxby Downs (Olympic Dam Aerodrome) (SA) on the 22nd	-6.1 °C at Thredbo AWS (NSW) on the 2nd	182.4 mm at Wooli Beach (NSW) on the 20th	33.7 °C at Fitzroy Crossing Aero (WA)	5.9 °C at Mount Read (TAS)	262.6 mm at Wooli Beach (NSW)	141 km/h at Archerfield Airport (QLD) on the 27th
Western Australia	44.7 °C at Marble Bar on the 25th	0.8 °C at Wandering on the 14th	89.0 mm at Barvesk on the 15th	33.7 °C at Fitzroy Crossing Aero	15.2 °C at Shannon	143.6 mm at Theda	115 km/h at Leonora Aero on the 27th
Northern Territory	44.9 °C at Alice Springs Airport on the 13th	10.5 °C at Kulgera on the 15th	135.0 mm at Shoal Bay on the 26th	33.4 °C at Victoria River Downs	27.1 °C at Kulgera	238.0 mm at The Chase	98 km/h at Lajamanu Airport on the 30th
South Australia	46.1 °C at Roxby Downs (Olympic Dam Aerodrome) on the 22nd	0.9 °C at Naracoorte Aerodrome on the 11th	30.0 mm at Gluepot Reserve (Gluepot) on the 16th	28.8 °C at Moomba Airport	15.5 °C at Mount Lofty	46.2 mm at Cromer Road	107 km/h at Marree Aero on the 22nd
Queensland	45.3 °C at Birdsville Airport on the 22nd	8.7 °C at Applethorpe on the 30th	131.8 mm at Springs on the 20th	33.0 °C at Lake Julius AWS	21.8 °C at Applethorpe	169.4 mm at Archerfield Airport	141 km/h at Archerfield Airport on the 27th
New South Wales	45.8 °C at Bourke Airport AWS on the 14th and 23rd	-6.1 °C at Thredbo AWS on the 2nd	182.4 mm at Wooli Beach on the 20th	28.6 °C at Mungindi Post Office	9.1 °C at Thredbo AWS	262.6 mm at Wooli Beach	115 km/h at Tibooburra Airport on the 14th
Victoria	40.6 °C at Walpeup Research on the 30th	-5.2 °C at Mount Hotham on the 2nd	51.0 mm at Lilydale on the 16th	22.1 °C at Mildura Airport	9.0 °C at Mount Baw Baw	137.8 mm at Mount Baw Baw	135 km/h at Wilsons Promontory Lighthouse on the 2nd
Tasmania	32.1 °C at Flinders Island Airport on the 8th	-5.0 °C at Mount Wellington on the 2nd	66.6 mm at Coles Bay (Freyinet) on the 6th	15.5 °C at St Helens Aerodrome	5.9 °C at Mount Read	243.4 mm at Mount Read	130 km/h at Hogan Island on the 1st

In this table *Hottest day* is the highest daily maximum temperature, *Coldest night* is the lowest daily minimum temperature, *Wettest day* is the highest daily rainfall total, *Warmest overall* is the highest mean monthly temperature, *Coollest overall* is the lowest mean monthly temperature and *Wettest overall* is the highest total monthly precipitation.

## Severe Thunderstorms

Thunderstorms across central eastern New South Wales on the 1st brought wind gusts of over 90 km/h in Penrith, Williamstown and Murrurrundi causing downed trees and power outages, particularly in western Sydney, with part of a roof lost from a medical centre in Kingswood. The SES reported more than 1000 requests for assistance related to downed trees and roof damage, mostly in western and southern Sydney. The storm also resulted in the death of a teenager who was struck by lightning while surfing at Port Stephens.

A large complex of thunderstorms affected the northwest of South Australia during the afternoon and evening on 3 November. As the complex was decaying during the evening, a wind gust to 91 km/h was recorded at Ernabella.

Thunderstorms across much of eastern New South Wales on 5th produced wind gusts of over 100 km/h at Moss Vale and Gunnedah, reaching 109 km/h at Tamworth. Small hail up to 2 cm was reported in Dubbo, Kangaroo Valley, Bathurst, Springwood, Windsor, Penrith, Newcastle and Grafton. Comboyne reported hail up to 5 cm, resulting in dented vehicles and damage to fruit and vegetable crops and some roofs. Widespread power outages occurred in Sydney, with more than 6000 lightning strikes causing train and flight delays as well as some injuries. A funnel cloud was reported near Blacktown.

During the 14th, strong winds in Broken Hill caused major damage to a veranda, with wind gusts of 96 km/h recorded at White Cliffs, 115 km/h at Tibooburra and 100 km/h at Kiama.

On the 19th, thunderstorms formed over the eastern Darling Downs and southern border ranges of Queensland, tracking over the greater southeast and developing into severe thunderstorms as they approached southern suburbs of Brisbane. Very heavy rainfall occurred, causing flash flooding in and around the city. Extremely high rainfall rates were observed, including 87 mm in 30 minutes at Inala in southwest Brisbane. A wind gust of 105 km/h was recorded at Redcliffe. In central Queensland, Blackwater recorded a maximum wind gust of 102 km/h around 6:30 pm as a severe storm developed over Capricornia.

A tornado at Gol Gol in the Murray Valley in New South Wales on the 22nd wiped out 2-3 km of grape and vegetable crops as well as downing trees and damaging houses. The following day, Goulburn recorded a maximum wind gust of 100 km/h and

there were widespread power outages in the Hunter, with lightning also sparking several fires.

Also on the 22nd, thunderstorms developed across the Pastoral districts of South Australia in a very hot airmass. One thunderstorm affected Marree in the evening and produced a wind gust to 107 km/h. A separate area of thunderstorms affected a west to east strip from Lower Eyre Peninsula across Yorke Peninsula, through Adelaide and the southern parts of the Mid North and the Riverland. The thunderstorms developed in the early morning and continued through to mid-afternoon and while not severe, they generated a lot of lightning activity and hailstones 1 to 2 cm in size occurred on Yorke Peninsula and near Loxton in the Riverland.

On the 24th, there were widespread thunderstorms, with wind gust of over 90 km/h at Hay, Tamworth and Williamstown in New South Wales. There were reports of downed trees and widespread power outages in western Sydney and the Hunter Valley, including a roof blown off at Castlereagh and damage to an aircraft hangar at Newcastle Airport. In western Queensland, a line of severe storms produced a wind gust of 102 km/h at Urandangi.

A trough and low pressure system off the west coast of Western Australia brought severe thunderstorms with heavy rainfall and large hail to the Central West district on the 26th, and to the Central Wheat Belt, Great Southern and southern Goldfields districts on the 27th. A severe wind gust of 115 km/h was recorded at Leonora Aero at around 7:20 pm on the 27th.

Very severe thunderstorms developed on the afternoon of the 27th in Brisbane, Queensland. Large hail up to 8 cm in size was reported in the Brisbane CBD and surrounding suburbs, along with destructive wind gusts, and flash flooding. The SES received over 1700 requests for assistance, the majority coming from Annerley, Fairfield, Highgate Hill, Moorooka, Forest Lake, New Farm, Spring Hill, West End and Yeerongpilly.

## Fires

A large bushfire near Pelham Road, Hookwood (north of Miles on Queensland's Western Downs) broke out on the last day of October. A number of water bombing aircraft were assisting with fire suppression activities on the afternoon of 31 October. It was contained by the 2 November after burning for a few days.

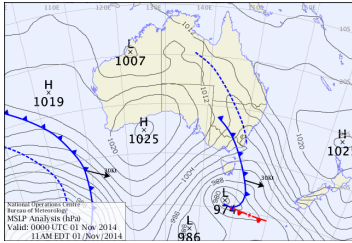
At the start of the month, 68 fires were burning across New South Wales associated with warm and dry weather, and a bushfire destroyed a house near Katoomba.

In Queensland, a fire started on the 4th near Ravenshoe (south of Atherton) in the vicinity of Tully Falls Road, Wooroora Road and Greys Lane. The large, fast moving fire travelled in a westerly direction. By 8 November it had burnt 11000 ha of bush land, with another 1000 hectares burnt by the next day. Multiple fire crews and aerial water bomber support were working to extinguish the blaze.

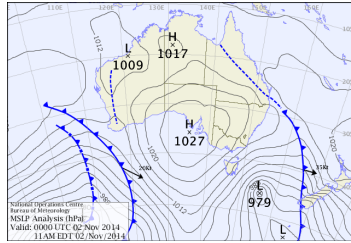
On the 15th, hot temperatures were also associated with more than 50 fires across New South Wales, with train lines and roads closed in the Blue Mountains and the evacuation of a school and several houses at Warrimoo in the Blue Mountains, although the fire was contained without property damage. Alongside the fires, the very hot temperatures in northeastern New South Wales led to widespread flying fox deaths, with more than 5000 reported dead in Casino and 2000 in the Richmond Valley on the 15th.

# Synoptic analyses and summary

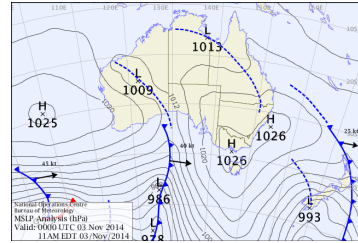
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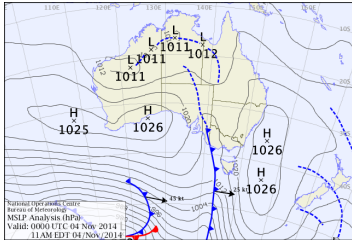
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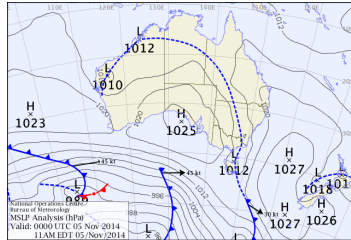
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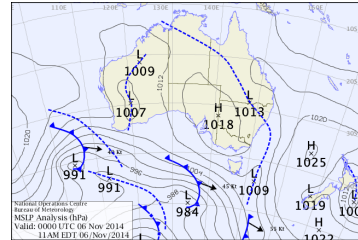
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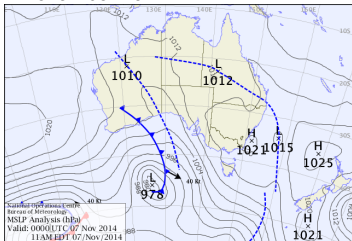
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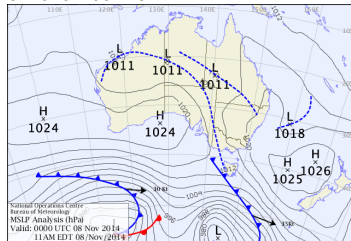
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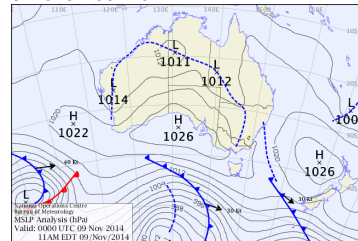
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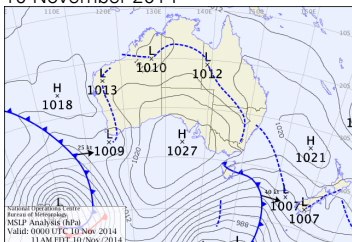
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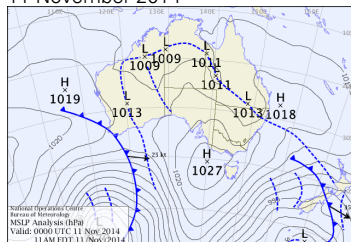
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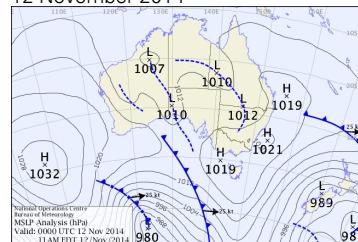
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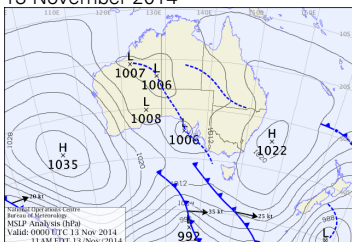
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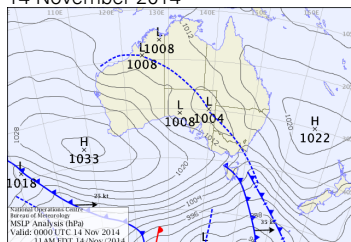
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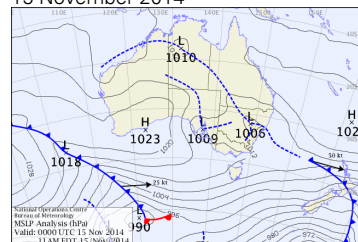
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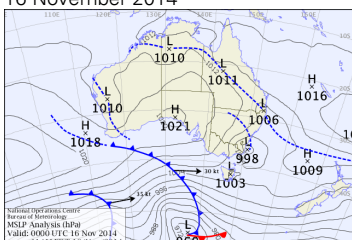
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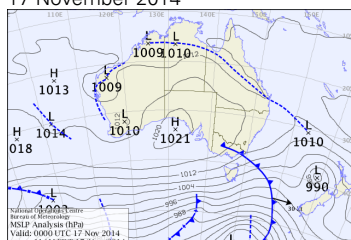
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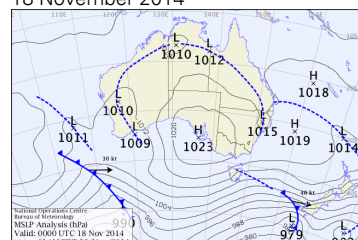
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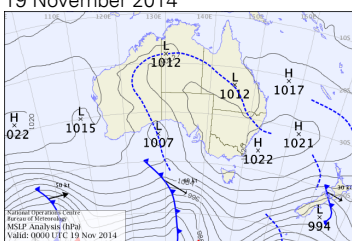
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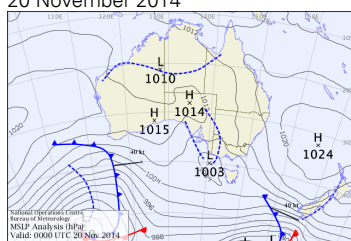
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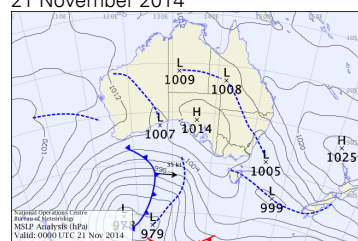
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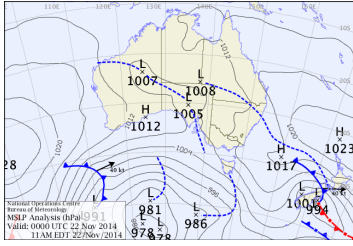
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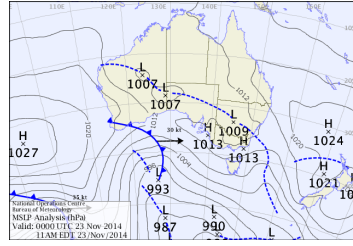
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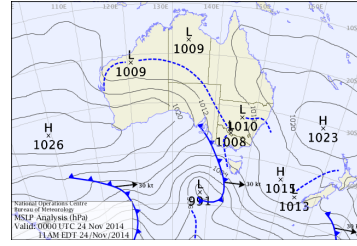
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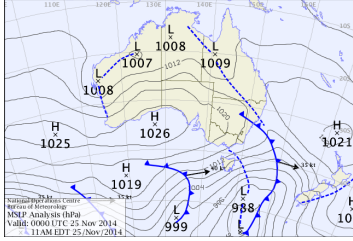
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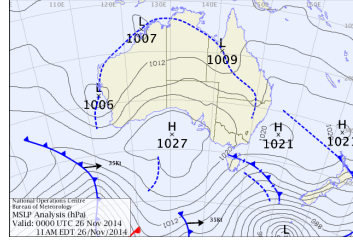
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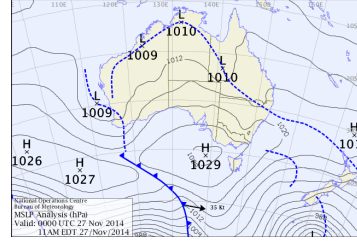
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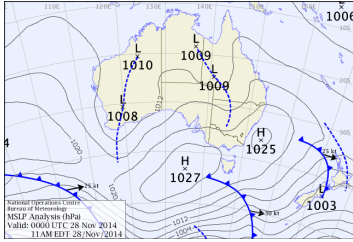
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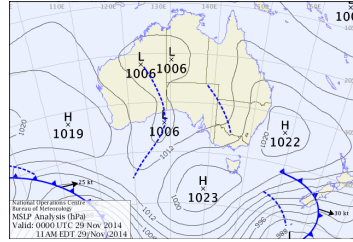
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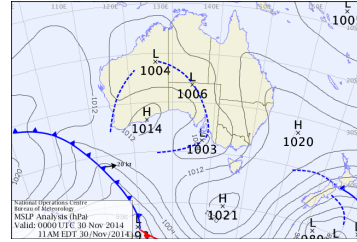
28 November 2014



29 November 2014



30 November 2014



## Synoptic summary

November 2014 began with a broad area of low pressure across northern Australia and a high pressure system over South Australia. A series of cold fronts tracked across the Southern Ocean during the first week.

In the second week, a similar pattern emerged with a surface trough extending across the north from a low pressure system in northwest Western Australia across the Northern Territory and through inland Queensland. Surface troughs developed along the west coast and through central Western Australia and tracked eastwards.

Low pressure systems formed along the trough over South Australia, in northern New South Wales and over Tasmania by the 15th, with a low pressure system intensifying off the New South Wales south

coast on the 16th. A frontal system moved quickly over the Southern Ocean, passing over Tasmania and southern Victoria.

Low pressure dominated the north of the continent. Multiple centres of low pressure formed in the central west, north and south along trough lines that tracked eastwards from the 19th to the 22nd, before a cold front moved into southwest Western Australia on the 23rd and crossed southern Australia by the 25th.

A strengthening high pressure system moved into the Great Australian Bight until the 28th, while surface troughs extended from a low in the Pilbara through central Western Australia, across the Top End and through the Queensland interior, and then through central Australia until the end of the month.

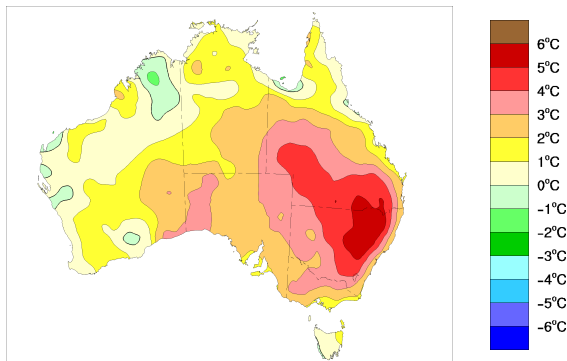
# Temperatures

The Australian area-averaged mean temperature during November 2014 was +1.88 °C above the historical average; the warmest November on record out of 105 years of observations, surpassing the previous warmest set in 2009 (+1.87 °C). Above-average mean temperatures were recorded across all States and Territories, with mean temperature anomalies highest on record for Queensland (+2.58 °C), third-highest for the Northern Territory (+1.73 °C) and fourth-highest for New South Wales (+3.10 °C).

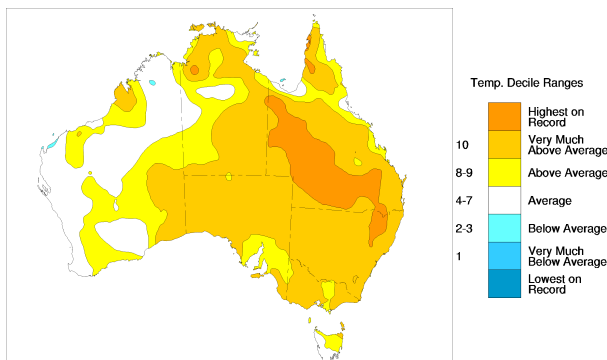
## Maximum temperatures

The Australian area-averaged mean maximum temperature was 2.18 °C above average during November, making it the warmest in 105 years of comparable observations. Maximum temperatures were well above average across all States and Territories, ranging between +0.40 °C in Tasmania and +4.05 °C in New South Wales. November mean maximum temperatures were highest on record for Queensland, third-highest for New South Wales and fourth-highest for the Northern Territory.

### Anomalies of mean daily maximum temperature in November 2014



### Decile rank of mean daily maximum temperature in November 2014



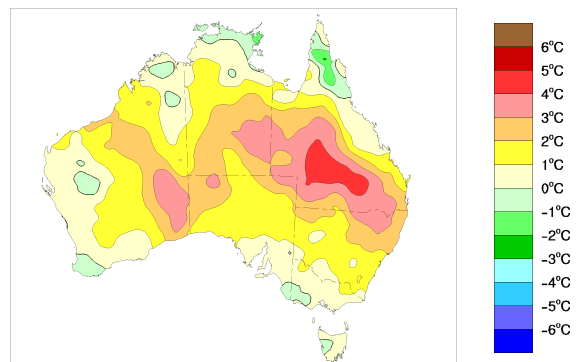
November was marked by two significant heatwaves that saw record high temperatures in the Northern

Territory, South Australia, New South Wales and Queensland. Temperatures were very high through interior Queensland and the central Northern Territory which resulted in record breaking prolonged heat for many locations across Queensland. Extreme temperatures of 45 °C and above were also observed at several locations throughout the central districts of New South Wales and western parts of Sydney during the latter part of the month, resulting in new highest on record temperatures across these areas.

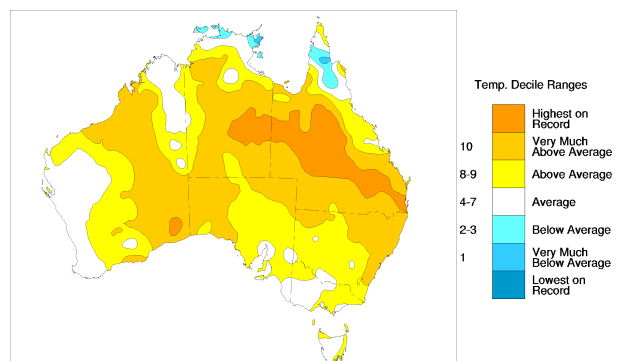
## Minimum temperatures

The November area-averaged minimum temperature in Australia was 1.58 °C above normal, resulting in the third-warmest nights on record, and the warmest since 2009. All States apart from Tasmania observed mean overnight temperatures that were warmer than average, with Queensland experiencing its warmest November nights on record. Despite the above-average national minimum temperatures, nights were generally cooler across parts of the tropical north with very much below average nights for coastal parts of Top End of the Northern Territory and central parts Queensland's Cape York Peninsula.

### Anomalies of mean daily minimum temperature in November 2014



### Decile rank of mean daily minimum temperature in November 2014



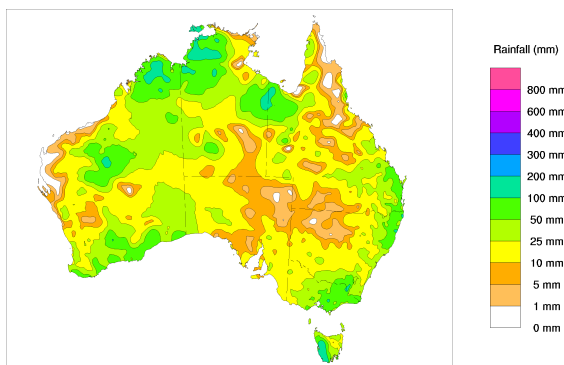
Very warm nights were observed from the 14th through to the 27th over large parts of the country, with several locations throughout Queensland and New South Wales experiencing their warmest November nights on record as heatwave conditions persisted across eastern parts of Australia. Despite

the overall warm nights across large parts of the country, the month started with very cool nights across southern parts of New South Wales, with lowest on record daily minimum temperatures for November across the New South Wales Southwest Slopes.

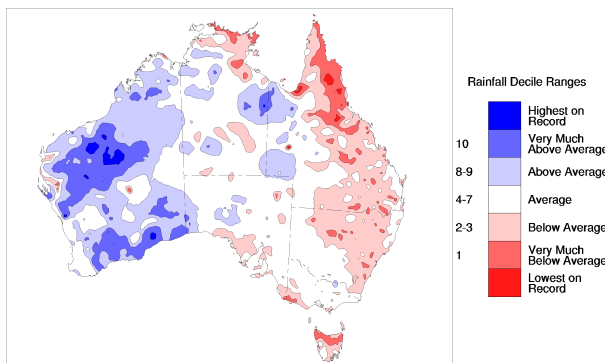
# Rainfall

Averaged nation-wide, rainfall during November was 15% below the long-term average. Very much below average falls were recorded through Queensland, New South Wales and Tasmania, as well as across the Top End of the Northern Territory and areas of coastal South Australia and Victoria. Most of Cape York Peninsula and northern Tasmania were in the lowest ten per cent of records (decile 1), along with isolated areas in the east and inland Queensland and New South Wales.

## Total rainfall in November 2014



## Decile rank of total rainfall in November 2014



Area-averaged rainfall in Queensland was 58% below average, and 51% below average in New South Wales. Tasmania recorded its fourteenth-driest and Queensland its sixteenth-driest November since records commenced in 1900. In contrast to the dry conditions, Western Australia recorded an area-averaged rainfall that was 88% above the long-term mean, and its fifteenth-wettest November on record. The southern coast, Gascoyne, Pilbara and western interior of Western Australia recorded November rainfall in the highest ten per cent of records. Above average rainfall was also recorded in parts of western Queensland and parts of the Gulf Country.

A surface trough located along the west coast of Western Australia, through the Northern Territory and down into southeastern Queensland brought moderate rainfall totals to northern Western Australia,

eastern Victoria and the west coast of Tasmania at the start of the month. Isolated thunderstorm activity also occurred over northeastern New South Wales.

The surface trough re-established with an associated rainband extending from the Kimberley region in Western Australia into northern Queensland and down to northeastern New South Wales with moderate falls recorded along the central Queensland coast on the 4th. The following day, the deepening surface trough across northern Australia generated thunderstorms with more moderate rainfall totals recorded in the Top End and parts of the Gulf Country.

A low pressure trough extended through New South Wales on the 6th and generated showers and thunderstorms in the central and northern ranges, and heavier falls along the northern coast. Thunderstorms and showers continued to form along areas of low pressure over northern Australia, and moderate falls were recorded in the Kimberley district in Western Australia and throughout isolated parts of Arnhem Land and Cape York Peninsula.

Thunderstorms and showers formed across the northwest of the Northern Territory due to a surface trough extending through the Northern Territory and inland Queensland. A deep surface trough extended through central Western Australia to a low pressure system in southwest South Australia on the 12th and tracked eastwards, generating moderate rainfall totals in parts of the west and south of Western Australia, with the heaviest falls recorded along the south coast.

Further moderate falls were recorded in the southeast and parts of the North West and North East Pastoral districts of South Australia and most of Victoria except the west, as a low pressure system and associated surface trough tracked into southeastern Australia on the 16th. Heavy falls were recorded along the Great Dividing Range and moderate totals were recorded in southeastern New South Wales throughout the Snowy Mountains and South West Slopes.

From the 22nd, a trough formed across southern Australia, extending from the Pilbara coast to the southeast, bring light falls to much of central Australia and the southeast. A cold front generated light falls to the southwest of Western Australia towards the end of the month, before intensifying and moving into southeastern Australia. A trough around the western and northern coasts extended through eastern Australia as a pre-frontal trough, bringing moderate to heavy falls to western Tasmania, a large area of Victoria and southern New South Wales. Thunderstorms along the trough also produced

moderate rainfall totals in parts of western Queensland, the Top End and northern Western Australia.

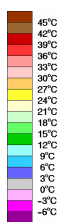
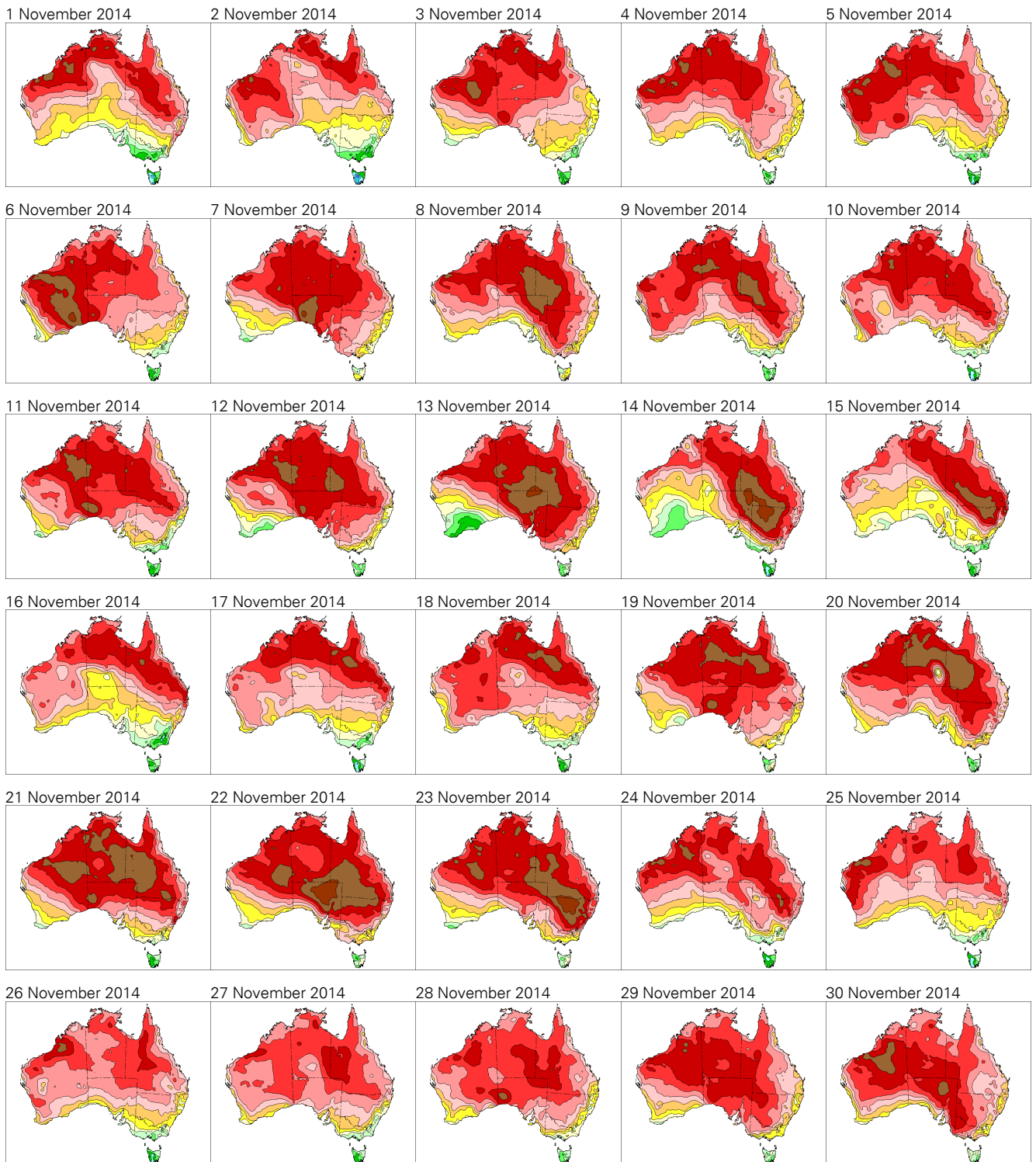
A cold front crossed southern Victoria and Tasmania on the 16th, and brought light falls to the west coast of Tasmania and parts of eastern Victoria and southeastern New South Wales. A surface trough along the west coast of Western Australia produced a rainband with embedded thunderstorms, bringing moderate falls to the Gascoyne, Pilbara and Kimberley districts in Western Australia.

By the 18th, a surface trough extended from northwest Australia through inland Queensland into northern New South Wales, triggering thunderstorms and showers along the trough line. Severe thunderstorms developed in southeast Queensland on the 19th. Moderate to heavy falls were recorded along the coast from the Capricorn coast in central Queensland down to Kingscliffe in northern New South Wales.

On the 24th, a surface trough stretched through central Australia and into central New South Wales, along with a cold front crossing southeastern Australia. Rainfall was recorded along the trough with moderate daily totals in northern and western parts of Western Australia, the northern half of the Northern Territory, western and southeastern Queensland and northeastern New South Wales. Western Tasmania, parts of eastern Victoria and southern New South Wales also recorded moderate rainfall totals with the passage of the front.

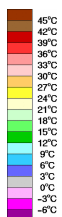
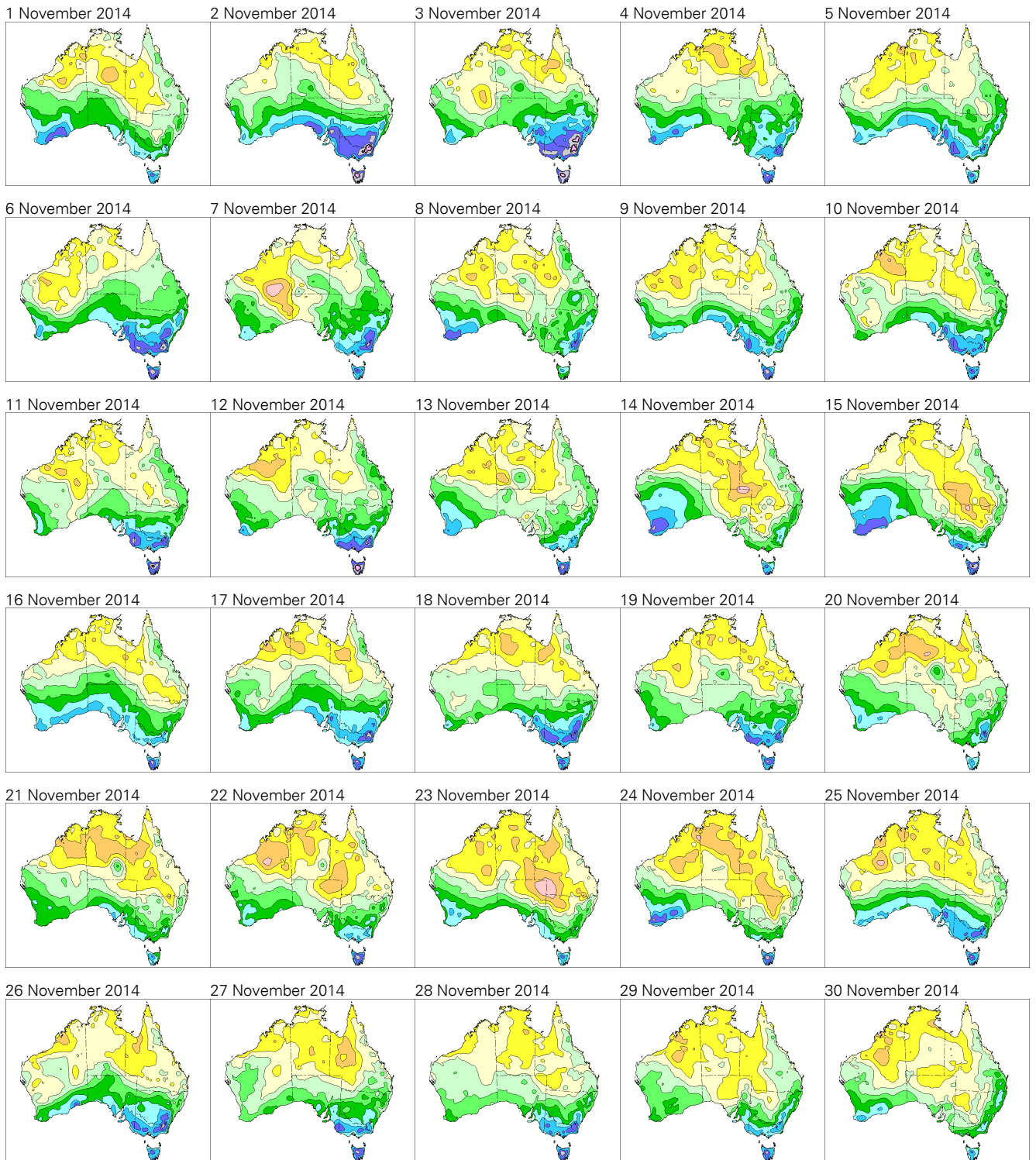
By the end of the month, a surface trough along the west Australian coast generated rainfall in southwest, central and northern Western Australia and northwestern parts of the Northern Territory, while in the last days of the month the northern half of the Territory and parts of the Gulf Country recorded isolated moderate totals.

## Daily maximum temperature maps



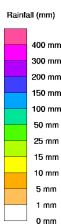
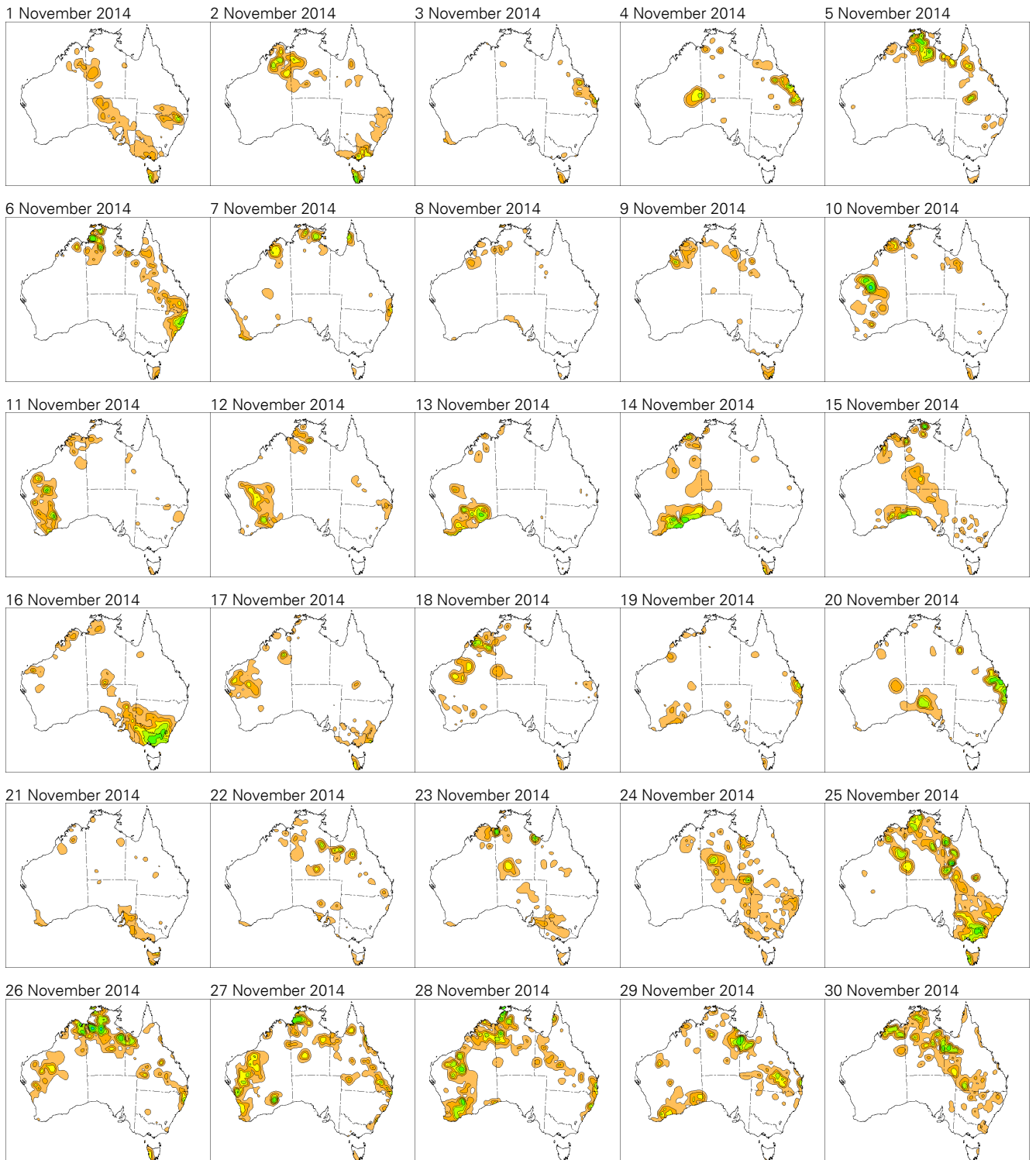
*These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps/](http://www.bom.gov.au/climate/maps/).*

# Daily minimum temperature maps



*These maps are intended to give an overview of daily minimum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps/](http://www.bom.gov.au/climate/maps/).*

# Daily rainfall maps



*These maps are intended to give an overview of daily rainfall across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, covering the whole country and smaller regions can be found at [www.bom.gov.au/climate/maps/](http://www.bom.gov.au/climate/maps/).*

# Records

Record highest November daily maximum temperature				
	New record	Old record	Years of record	
<b>Western Australia</b>				
001007	Troughton Island	35.6 on 18th	35.4 on 24th in 2007	36
<b>Northern Territory</b>				
014142	Pirlangimpi Airport	38.6 on 1st	36.6 on 27th in 2012	33
014938	Mango Farm	41.5 on 1st	41.3 on 1st in 1993	35
015590	Alice Springs Airport	44.9 on 13th	43.0 on 17th in 2009	74
<b>South Australia</b>				
016065	Andamooka	45.7 on 22nd	45.1 on 16th in 2009	46
016085	Marla Police Station	45.0 on 22nd	44.4 on 27th in 1996	30
026091	Coonawarra	37.8 on 30th	37.6 on 30th in 2006	30
<b>Queensland</b>				
039128	Bundaberg Aero	36.3 on 17th	35.7 on 7th in 1994	37
040004	Amberley AMO	43.0 on 15th	42.1 on 19th in 1968	74
040093	Gympie	42.2 on 16th	40.5 on 17th in 2009	49
040211	Archerfield Airport	42.1 on 16th	40.5 on 17th in 1990	39
041095	Stanthorpe Leslie Parade	37.0 on 15th	35.7 on 29th in 1996	52
041175	Applethorpe	35.4 on 15th	34.2 on 20th in 2009	45
041359	Oakey Aero	39.8 on 15th =	39.8 on 29th in 2006	42
043020	Mitchell Post Office	42.7 on 22nd	42.0 on 19th in 2009	47
044026	Cunnamulla Post Office	44.0 on 23rd	43.9 on 5th in 1965	56
<b>New South Wales</b>				
048031	Collarenebri (Albert St)	45.2 on 23rd =	45.2 on 18th in 1944	100
050052	Condobolin Ag Research Stn	44.4 on 23rd =	44.4 on 20th in 2009	56
051039	Nyngan Airport	45.0 on 23rd =	45.0 on 20th in 2009	89
051049	Trangie Research Station AWS	45.0 on 23rd	44.8 on 20th in 2009	45
052020	Mungindi Post Office	44.9 on 15th	44.0 on 19th in 2009	48
054003	Barraba Post Office	41.0 on 15th	40.9 on 19th in 1968	49
054104	Pindari Dam	39.6 on 23rd	38.9 on 18th in 2009	43
055049	Quirindi Post Office	43.2 on 23rd	42.2 on 20th in 2009	48
056013	Glen Innes Ag Research Stn	34.5 on 23rd	33.0 on 20th in 2009	39
056018	Inverell Research Centre	38.6 on 15th	38.3 on 19th in 1968	50
056229	Guyra Hospital	33.2 on 23rd	31.6 on 20th in 2009	31
057095	Tabulam (Muirne)	39.2 on 15th	37.2 on 10th in 1995	45
060085	Yarras (Mount Seaview)	42.5 on 23rd	40.8 on 10th in 2002	46
061051	Murrurundi Post Office	40.6 on 23rd =	40.6 on 19th in 1968	45
061089	Scone SCS	43.8 on 23rd	43.4 on 19th in 1968	50
061250	Paterson (Tocal AWS)	43.9 on 23rd	42.8 on 20th in 2009	40
061288	Lostock Dam	43.7 on 23rd	42.0 on 26th in 1997	43
062013	Gulgong Post Office	42.1 on 23rd	41.4 on 21st in 2009	41
063039	Katoomba (Murri St)	36.0 on 23rd =	36.0 on 26th in 1997	51
063063	Oberon (Springbank)	35.3 on 23rd	35.2 on 20th in 2009	32
064008	Coonabarabran (Namoi Street)	41.6 on 23rd	41.1 on 19th in 1968	58
064009	Dunedoo Post Office	43.7 on 23rd	43.0 on 20th in 2009	47
065034	Wellington (Agrowplow)	43.0 on 23rd =	43.0 on 20th in 2009	48
068102	Bowral (Parry Drive)	38.3 on 23rd	38.0 on 20th in 2009	47
073014	Grenfell (Manganese Rd)	42.1 on 23rd	41.8 on 26th in 1997	47
073032	Quandialla Post Office	43.4 on 23rd =	43.4 on 26th in 1997	45
073054	Wyalong Post Office	42.2 on 23rd =	42.2 on 26th in 1997	50
075032	Hillston Airport	43.5 on 14th =	43.5 on 20th in 2009	57

= indicates the new record equals the old one.

Record highest November mean maximum temperature				
		New record	Old record	Years of record
Northern Territory				
014142	Pirlangimpi Airport	35.8	35.1 in 2000	33
Queensland				
029127	Mount Isa Aero	39.6	39.0 in 1990	48
033013	Collinsville Post Office	35.6	35.2 in 2008	57
035069	Tambo Post Office	36.8	36.3 in 1968	84
035070	Taroom Post Office	36.4	35.3 in 1968	63
036007	Barcaldine Post Office	37.9	37.7 in 1915	97
036026	Isisford Post Office	39.6	38.5 in 1915	96
036031	Longreach Aero	39.7	38.4 in 1979	49
038003	Boulia Airport	40.3 =	40.3 in 1892	126
040004	Amberley AMO	33.1	32.8 in 1968	74
040211	Archerfield Airport	30.7	30.4 in 1994	39
041095	Stanthorpe Leslie Parade	29.3	28.6 in 2009	71
041100	Texas Post Office	34.7	34.4 in 1982	45
041175	Applethorpe	28.9	28.1 in 2009	45
041359	Oakey Aero	33.4	32.5 in 2009	42
043015	Injune Post Office	35.6	35.4 in 2009	48
043020	Mitchell Post Office	36.8	36.2 in 2009	97
044010	Bollon Mary St	37.1	36.6 in 2009	104
044021	Charleville Aero	36.8	36.5 in 2009	73
044026	Cunnamulla Post Office	37.5	37.3 in 1919	106
New South Wales				
052020	Mungindi Post Office	37.3	37.2 in 2009	89
054003	Barraba Post Office	33.4	33.1 in 2009	49
055024	Gunnedah Resource Centre	33.8	33.4 in 2009	64
055049	Quirindi Post Office	33.7 =	33.7 in 2009	94
056013	Glen Innes Ag Research Stn	27.3	26.8 in 2009	39
056229	Guyra Hospital	25.5	25.1 in 2009	31
057095	Tabulam (Muirne)	29.0	28.8 in 2009	45

= indicates the new record equals the old one.

Highest November mean maximum temperature for at least 30 years				
		Observed this month	Most recent higher	Years since higher
Queensland				
030045	Richmond Post Office	40.1	41.1 in 1915 *	97
039083	Rockhampton Aero	33.3	33.4 in 1968	46
040082	University of Queensland Gatton	34.3	35.3 in 1915 *	90
New South Wales				
056032	Tenterfield (Federation Park)	28.2	28.6 in 1919 *	86
058012	Yamba Pilot Station	26.7	27.7 in 1968	46

\* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.

Record lowest November daily maximum temperature			
	New record	Old record	Years of record
Western Australia			
011017 Balladonia	14.7 on 13th	15.2 on 6th in 1999	50

Record lowest November daily minimum temperature			
	New record	Old record	Years of record
South Australia			
017099 Arkaroola	6.5 on 3rd	6.6 on 1st in 2013	37
Queensland			
031037 Low Isles Lighthouse	20.1 on 1st	21.0 on 8th in 1975	48
New South Wales			
073014 Grenfell (Manganese Rd)	2.1 on 3rd	2.2 on 16th in 2006	47

Record lowest November mean minimum temperature			
	New record	Old record	Years of record
Northern Territory			
014508 Gove Airport	22.1 =	22.1 in 1997	36
<i>= indicates the new record equals the old one.</i>			

Record highest November daily minimum temperature			
	New record	Old record	Years of record
Western Australia			
003003 Broome Airport	29.6 on 21st	29.1 on 12th in 1982	76
010092 Merredin	25.3 on 10th =	25.3 on 23rd in 1977	49
010612 Narembeen	24.6 on 10th	23.8 on 25th in 1993	46
Queensland			
041100 Texas Post Office	26.9 on 23rd	26.0 on 29th in 1996	45
041175 Applethorpe	22.5 on 16th	20.0 on 2nd in 1977	45
041359 Oakey Aero	23.8 on 16th	23.4 on 29th in 2006	42
New South Wales			
050031 Peak Hill Post Office	28.2 on 15th	27.2 on 26th in 2002	47
050052 Condobolin Ag Research Stn	26.9 on 24th	26.8 on 22nd in 2006	50
055136 Woolbrook (Danglemah Road)	17.6 on 24th	17.5 on 22nd in 2009	43
056013 Glen Innes Ag Research Stn	22.5 on 16th	22.0 on 29th in 1980	39
056229 Guyra Hospital	19.2 on 16th	18.6 on 30th in 1997	31
058158 Murwillumbah (Bray Park)	24.5 on 23rd	24.4 on 22nd in 2009	39
063005 Bathurst Agricultural Station	20.5 on 15th	20.1 on 14th in 1967	49
Tasmania			
095003 Bushy Park (Bushy Park Estates)	16.8 on 8th	16.5 on 27th in 1978	53
<i>= indicates the new record equals the old one.</i>			

Record highest November mean minimum temperature				
		New record	Old record	Years of record
Western Australia				
003032	Derby Aero	26.7 =	26.7 in 1979	30
Northern Territory				
015085	Brunette Downs	25.6 =	25.6 in 2002	50
015602	Jervois	22.7	22.2 in 2008	46
Queensland				
030045	Richmond Post Office	24.6	23.7 in 1991	120
035069	Tambo Post Office	21.1	20.1 in 2002	84
035070	Taroom Post Office	20.8	20.0 in 1995	63
036007	Barcaldine Post Office	23.8	23.3 in 1991	96
036026	Isisford Post Office	24.0	22.9 in 1991	96
036031	Longreach Aero	23.6	22.8 in 1991	49
037010	Camooweal Township	25.4	25.3 in 1990	106
038003	Bouliia Airport	24.9 =	24.9 in 1914	119
040004	Amberley AMO	18.4	18.3 in 1979	74
040043	Cape Moreton Lighthouse	21.4	21.2 in 2011	102
040211	Archerfield Airport	19.8	18.7 in 2011	39
041095	Stanthorpe Leslie Parade	15.2	14.5 in 1997	70
041100	Texas Post Office	19.0	18.1 in 2009	45
041175	Applethorpe	14.6	13.8 in 2009	45
041359	Oakey Aero	17.7	16.5 in 1977	42
043015	Injune Post Office	19.9	18.7 in 2009	48
043035	Surat	20.5	20.1 in 2009	68
044021	Charleville Aero	21.9	21.1 in 2002	73
New South Wales				
055136	Woolbrook (Danglemah Road)	10.6 =	10.6 in 2009	43
056013	Glen Innes Ag Research Stn	12.6	12.1 in 2009	39
056018	Inverell Research Centre	16.1	15.6 in 2009	58
056229	Guyra Hospital	11.7	11.6 in 2011	31
057095	Tabulam (Muirne)	16.7	16.1 in 2011	45
058130	Grafton Olympic Pool	19.1	18.5 in 2011	49
058158	Murwillumbah (Bray Park)	19.0	18.4 in 2005	39
059030	South West Rocks (Smoky Cape Lighthouse)	18.5	18.2 in 2011	76

*= indicates the new record equals the old one.*

Highest November mean minimum temperature for at least 30 years				
		Observed this month	Most recent higher	Years since higher
Queensland				
040082	University of Queensland Gatton	18.5	18.9 in 1914 *	91
043020	Mitchell Post Office	20.0	20.7 in 1914 *	88
New South Wales				
056032	Tenterfield (Federation Park)	13.6	15.2 in 1914 *	91
058012	Yamba Pilot Station	19.5 =	19.5 in 1914	100

*\* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.  
= indicates the new record equals the old one.*

Record highest November mean temperature				
		New record	Old record	Years of record
Western Australia				
003003	Broome Airport	30.8 =	30.8 in 2009	76
003032	Derby Aero	32.9	32.7 in 1979	30
Northern Territory				
015602	Jervois	30.6	29.8 in 2012	46
Queensland				
030045	Richmond Post Office	32.3	31.4 in 1915	120
035069	Tambo Post Office	29.0	27.9 in 2002	84
035070	Taroom Post Office	28.6	27.3 in 2009	63
036007	Barcaldine Post Office	30.9	30.1 in 1991	96
036026	Isisford Post Office	31.7	30.7 in 1991	95
036031	Longreach Aero	31.7	30.5 in 1991	49
038003	Boulia Airport	32.6	32.5 in 1914	119
039083	Rockhampton Aero	27.1	26.9 in 1995	76
040004	Amberley AMO	25.7	25.2 in 1957	74
040043	Cape Moreton Lighthouse	24.0	23.9 in 2011	102
040211	Archerfield Airport	25.2	24.4 in 2009	39
041095	Stanthorpe Leslie Parade	22.3	21.3 in 2009	70
041100	Texas Post Office	26.9	26.0 in 2009	45
041175	Applethorpe	21.8	21.0 in 2009	45
041359	Oakey Aero	25.5	24.4 in 2009	42
043015	Injune Post Office	27.8	27.1 in 2009	48
043020	Mitchell Post Office	28.4	27.9 in 1914	96
043035	Surat	28.0 =	28.0 in 2009	67
044010	Bollon Mary St	28.9 =	28.9 in 2002	102
044021	Charleville Aero	29.4	28.8 in 2009	73
New South Wales				
054003	Barraba Post Office	24.2 =	24.2 in 2009	49
056013	Glen Innes Ag Research Stn	19.8	19.5 in 2009	39
056018	Inverell Research Centre	23.7	23.5 in 2009	58
056229	Guyra Hospital	18.6	18.3 in 2009	31
057095	Tabulam (Muirne)	22.8	22.5 in 2009	45
058130	Grafton Olympic Pool	25.0	24.5 in 2009	49
058158	Murwillumbah (Bray Park)	24.3	23.8 in 2009	39
060085	Yarras (Mount Seaview)	23.3 =	23.3 in 2002	46

*= indicates the new record equals the old one.*

Highest November mean temperature for at least 30 years				
		Observed this month	Most recent higher	Years since higher
Queensland				
040082	University of Queensland Gatton	26.4	26.5 in 1915 *	89
040093	Gympie	25.4	25.8 in 1915 *	88
New South Wales				
056032	Tenterfield (Federation Park)	20.9	21.0 in 1914 *	91
058012	Yamba Pilot Station	23.1	24.0 in 1897	117
059017	Kempsey (Wide Street)	22.7	22.9 in 1920 *	84

*\* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.*

Record highest November daily rainfall			
	New record	Old record	Years of record
Western Australia			
008240 Coolangatta	83.4 on 27th	24.6 on 19th in 1926	62
010581 King Rocks	37.4 on 28th	35.6 on 1st in 1939	75
010897 Nalyerlup	42.0 on 28th	28.0 on 22nd in 2008	32
011017 Balladonia	47.8 on 14th	47.2 on 28th in 2013	90
011032 Rawlinna Depot	51.2 on 15th =	51.2 on 16th in 1987	45
011034 Barvesk	89.0 on 15th	51.4 on 18th in 1974	42
Northern Territory			
014638 Gorrie	60.2 on 26th	50.4 on 11th in 2003	30
Queensland			
039255 Springs	131.8 on 20th	122.2 on 28th in 1973	53
New South Wales			
058080 Wooli Beach	182.4 on 20th	119.0 on 13th in 1975	49

*= indicates the new record equals the old one.*

Record highest November total rainfall			
	New record	Old record	Years of record
Western Australia			
005009 Marillana	104.9	77.2 in 1966	69
008240 Coolangatta	95.6	33.6 in 1926	62
010897 Nalyerlup	109.8	108.5 in 2008	32
011032 Rawlinna Depot	129.4	108.8 in 1998	45

Highest November total rainfall for at least 30 years			
	Observed this month	Most recent higher	Years since higher
Western Australia			
008294 Wandana	60.0	98.0 in 1965 *	47
010513 Bending	61.2	70.6 in 1929	85
010633 Ravensthorpe	84.2	189.4 in 1971 *	42
Queensland			
039255 Springs	162.0	212.4 in 1983 *	30
New South Wales			
058080 Wooli Beach	262.6	289.0 in 1975 *	35

*\* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.*

## Record lowest November total rainfall

		New record	Old record	Years of record
<b>Northern Territory</b>				
014090	Middle Point Rangers	0.8	29.0 in 1989	46
014824	Bullita	13.0	16.0 in 1992	48
<b>Queensland</b>				
028004	Palmerville	1.0	1.3 in 1944	125
031108	Walkamin Research Station	0.4	1.4 in 1990	50
031141	Bellenden Ker Top Stn	54.6	58.0 in 2005	39
040677	Maroon Dam	20.4	29.3 in 1982	43
<b>Tasmania</b>				
091002	Blackwood Creek (Kopanica)	18.2	19.4 in 1989	47
091019	Connorville (Lake River)	4.8	6.5 in 1982	85
091022	Cressy Research Station (Main Office)	7.0	8.5 in 2006	76
091167	Perth (Forestry Nursery)	6.8	14.8 in 2006	48

*= indicates the new record equals the old one.*

### Lowest November total rainfall for at least 30 years

		Observed this month	Most recent lower	Years since lower
<b>Queensland</b>				
032002	Bemerside	4.2	1.0 in 1979 *	32
032023	Halifax Macrossan St	5.2	0.2 in 1979	35
032091	Elphinstone Pocket No1	0.8	0.0 in 1979	35
035016	Capella Post Office	1.8	0.0 in 1951	63
035079	Wharton Creek Station	3.0	0.0 in 1982 *	30
040078	Eumundi - Crescent Rd	6.6	5.3 in 1926 *	78
040083	Gatton Allan Street	4.8	2.0 in 1982 *	30
040120	Lowood Don St	8.4	4.2 in 1982	32
040189	Somerset Dam	5.2	2.1 in 1955	59
041034	Glenelg	11.0	8.8 in 1936	78
042022	Meandarra Post Office	10.4	9.4 in 1984	30
<b>New South Wales</b>				
051026	Hermidale Tank	0.4	0.0 in 1956 *	57
051039	Nyngan Airport	3.0	2.0 in 1982	32
054017	Gravesend Post Office	10.4	4.8 in 1982	32
054114	Bundarra (Beverley)	17.4	5.1 in 1967 *	45
056013	Glen Innes Ag Research Stn	43.4	15.0 in 1982 *	31
056034	Uralla (Dumaresq St)	16.8	13.6 in 1982 *	31
056228	Kingstown Post Office	20.3	14.0 in 1982 *	31
061007	Bunnan (Milhaven)	13.6	12.8 in 1980 *	33
061191	Bulga (South Wambo)	10.5	1.8 in 1980 *	33
061364	Dungog (Leawood)	23.2	20.2 in 1982	32
063077	Springwood (Valley Heights)	21.0	8.6 in 1982 *	30
063254	Orange Agricultural Institute	16.2	7.0 in 1982	32
066037	Sydney Airport AMO	13.6	11.4 in 1962	52
068085	Nerriga (Tolwong)	11.4	7.6 in 1982 *	31
069003	Bemboka Post Office	15.6	4.4 in 1982 *	31
070057	Braidwood (Krawarree)	17.4	0.6 in 1982 *	31
070124	Richlands (Bouverie)	22.0	21.6 in 1982	32
<b>Victoria</b>				
090055	Macarthur (Post Office)	17.2	14.4 in 1982 *	31
<b>Tasmania</b>				
092019	Lake Leake (Elizabeth River)	19.8	16.0 in 1926 *	87
092045	Larapuna (Eddystone Point)	15.4	9.0 in 1982 *	30

\* note: there are gaps in the historical record at this site, so it is possible a lower value has gone unreported.  
= indicates the new record equals the old one.

# Selected observations

## Daily and mean maximum temperatures for November 2014

Western Australia	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
001013 Wyndham	39.2	41.0	37.8	41.4	42.1	34.9	35.7	39.7	39.0	40.7	41.0	40.2	41.1	40.7	40.0	39.0	39.5	40.4	37.9	40.5	41.3	41.4	41.1	39.6	41.2	37.7	35.2	33.6	36.6	38.4	37.8	
001019 Kalbaruru	36.5	36.8	38.0	39.8	39.2	36.8	34.4	36.3	36.1	36.7	36.2	37.4	38.0	36.0	33.8	34.3	34.8	36.2	33.8	37.9	38.4	37.0	37.7	37.3	38.1	39.3	33.5	34.7	35.7	34.7	35.0	
002012 Halls Creek Airport	37.7	-0.6	35.0	33.9	38.2	40.2	40.7		38.8	40.5	39.9	41.0	39.7	39.0	32.4	34.3	38.0	38.9	35.0	39.8	40.5	40.1	34.9	39.0	34.2	34.7	35.6	37.4	36.2	38.2	40.0	
002056 Kununurra Aero	40.0	41.0	37.2	42.0	42.1	38.9	37.6	40.4	40.3	40.7	41.1	41.0	40.9	40.9	39.2	39.4	40.0	41.5	39.2	41.3	42.0	43.0	42.2	40.3	40.3	37.9	36.1	36.6	37.8	40.0	39.0	
003003 Broome Airport	35.2	+1.6	35.6	37.6	32.8	35.3	35.7	33.4	33.6	33.6	36.0	34.1	33.7	34.2	33.4	33.4	34.5	36.5	36.5	37.5	34.6	34.9	35.7	35.1	34.5	35.4	36.4	41.1	35.1	36.2	39.4	34.4
003032 Derby Aero	39.1	38.9	38.0	37.9	40.9	42.7	35.7	36.9	37.1	40.5	40.9	41.2	38.4	34.3	37.1	37.5	38.6	40.0	39.4	39.8	41.7	40.6	41.7	40.0	41.4	38.2	41.4	35.0	39.2	39.8	38.4	
004032 Port Hedland Airport	38.5	+2.3	40.4	38.0	36.8	35.1	36.0	41.7	41.9	41.3	35.3	37.1	40.4	41.6	41.6	36.6	35.1	37.4	35.9	36.4	39.0	40.9	39.3	36.6	37.8	40.7	40.8	36.0	39.9	37.1	38.3	40.4
004083 Karratha Aero	35.6	37.9	33.4	35.2	36.5	35.6	37.5	34.6	39.3	31.7	33.2	35.8	38.1	36.4	35.9	34.7	35.2	34.2	35.1	34.7	38.0	35.5	33.9	35.4	36.1	38.4	34.7	34.8	35.1	36.2	34.8	
004106 Marble Bar	41.0	42.9	43.3	42.2	43.4	43.9	44.3	39.9	42.4	39.8	41.0	40.7	42.5	40.4	32.3	35.8	38.6	39.0	39.8	42.1	42.4	43.7	36.5	43.1	43.9	44.7	40.5	36.9	40.7	41.6	42.6	
005007 Learmonth Airport	34.7	36.6	33.1	34.6	39.4	38.6	37.3	34.3	34.6	39.3	32.7	35.4	35.2	32.4	34.4	34.2	32.7	32.7	31.2	32.2	34.2	34.3	35.2	33.8	34.9	36.6	34.5	31.5	35.2	35.2	33.4	
006011 Carnarvon Airport	27.9	+0.5	27.1	26.1	28.5	29.4	29.8	26.4	26.6	26.4	26.7	26.7	27.2	26.5	30.7	32.2	29.5	31.1	26.7	25.9	26.1	26.4	26.8	27.5	33.3	29.0	27.8	27.7	27.2	27.1		
006044 Denham	27.3	28.9	26.1	25.6	30.6	30.2	26.2	24.6	26.9	28.8	26.5	26.1	24.6	22.4	27.2	28.7	25.7	30.2	26.1	26.1	26.4	26.4	27.2	25.3	30.7	30.1	28.2	28.2	29.4	29.4	26.8	
007176 Newman Aero	37.4	38.0	40.0	40.1	41.6	40.4	42.2	35.7	38.4	37.8	38.7	34.7	35.6	36.3	35.4	30.2	31.3	35.3	34.1	37.4	37.5	38.3	40.1	40.6	39.4	39.6	40.0	35.4	34.0	35.1	38.7	39.7
007185 Paraburdoo Aero	38.8	39.0	42.1	39.3	42.4	43.3	41.1	37.7	39.9	39.8	38.1	37.1	38.4	34.1	32.7	35.5	35.8	37.6	38.3	37.1	39.7	39.0	39.5	39.2	41.0	42.1	39.0	38.2	38.3	39.6	40.3	
007045 Meekatharra Airport	34.4	+1.3	33.6	38.0	34.4	37.8	40.2	39.9	31.0	34.3	35.8	35.4	36.2	35.8	25.8	24.9	30.9	34.2	34.3	35.7	30.6	34.0	34.7	33.7	34.3	36.7	37.8	29.2	35.8	38.4	34.4	38.3
007600 Mount Magnet Aero	33.3	32.5	38.1	32.0	35.4	40.1	39.0	28.7	33.4	38.0	35.2	33.6	32.2	23.9	24.3	30.0	36.0	34.8	34.7	28.5	33.9	30.9	30.7	30.5	34.5	36.7	30.5	35.9	33.5	33.4	38.1	
008296 Morawa Airport	31.7	33.2	33.7	29.8	34.6	39.8	29.8	25.0	31.7	39.0	37.3	30.2	27.5	23.7	24.8	28.9	35.6	35.1	26.0	29.5	30.4	28.7	27.4	28.9	33.7	39.5	35.8	34.2	31.2	31.4	34.3	
008297 Dalwallinu	30.4	30.7	33.2	27.5	32.6	37.6	30.0	23.9	30.6	38.2	37.5	28.7	24.9	20.9	21.8	26.6	33.5	33.6	29.1	27.4	28.9	26.7	25.8	27.4	30.7	37.6	37.5	34.2	29.4	30.1	34.8	
008315 Geraldton Airport	27.1	28.1	24.1	24.5	28.0	27.6	23.7	23.5	26.2	28.8	25.2	25.3	23.9	22.2	26.5	28.8	26.4	28.3	23.5	26.0	25.4	25.9	25.4	25.0	34.2	41.4	37.9	27.6	27.7	26.2	25.4	
009021 Perth Airport	26.4	+0.8	30.3	23.4	23.3	28.7	28.4	22.4	22.4	26.4	38.2	24.6	24.8	23.5	21.6	23.7	26.5	31.0	29.1	26.0	23.9	24.5	22.7	23.5	23.4	27.5	34.3	34.5	27.0	24.0	25.7	27.2
009131 Jurien Bay	25.5	25.6	23.6	24.2	24.0	23.5	23.5	26.0	24.3	24.5	23.0	20.0	25.0	27.0	24.2	24.2	24.2	24.4	24.4	24.5	25.0		24.0	20.0	37.7	33.0	27.5	26.0	24.5	25.0		
009225 Perth Metro	26.2	30.7	23.1	22.9	27.8	28.6	22.3	22.2	26.0	37.8	24.2	24.7	22.5	21.6	23.2	26.0	30.7	27.9	25.9	24.1	24.1	23.4	23.6	23.0	27.0	34.7	33.9	27.0	24.9	25.4	26.2	
009240 Bickley	23.9	27.0	22.0	20.3	26.0	28.4	19.5	19.0	24.0	34.4	21.6	21.8	20.0	18.5	20.8	24.0	29.3	27.0	25.5	21.6	20.7	19.9	20.7	21.2	25.6	31.4	29.8	24.2	21.2	24.6	25.7	
009518 Cape Leeuwin	20.5	+0.4	22.9	21.0	20.2	20.0	20.9	20.2	19.5	19.4	21.9	19.4	16.2	16.9	18.4	19.9	21.3	22.7	22.1	20.3	20.0	19.3	18.4	19.9	20.4	21.4	22.0	23.6	21.4	20.8	21.5	
009617 Bridgetown	23.6	25.8	23.5	20.0	23.9	26.8	19.8	18.7	22.6	31.8	24.6	19.0	19.9	16.7	19.2	23.3	26.9	28.4	24.9	22.6	23.2	21.5	19.9	19.6	24.3	28.8	29.1	22.9	26.0	24.5	26.5	
009746 Witchcliffe	21.1	26.1	21.8	19.3	20.9	20.4	21.0	18.7	19.7	24.1	22.3	18.6	16.3	16.1	17.7	21.1	22.2	24.4	21.3	20.6	21.3	19.6	19.3	19.0	21.2	25.4	25.5	24.1	21.8	20.8	22.5	
009789 Esperance	24.3	22.7	31.0	19.9	26.5	34.2	21.2	21.1	23.3	28.9	33.6	25.5	18.5	16.1	17.6	19.7	24.9	31.8	34.2	21.9	28.0	23.4	21.5	20.3	19.9	21.7	26.4	24.6	22.6	22.0	25.0	
009965 Bunbury	24.1	27.4	22.3	21.4	22.9	22.8	22.2	21.3	22.3	33.9	24.0	22.4	20.9	20.2	22.1	21.5	28.0	24.6	23.5	21.8	22.6	23.4	21.8	21.6	23.6	31.4	31.6	25.8	25.7	26.0	24.5	
009977 Mandurah	24.3	26.8	22.6	21.6	24.8	24.7	20.5	21.6	23.3	35.8	22.9	23.7	21.9	19.7	22.1	23.0	28.5	24.7	24.2	22.8	22.6	23.2	23.4	21.8	24.9	31.5	30.3	23.5	23.1	23.6	24.1	
009999 Albany Airport	22.1	25.4	25.5	19.5	23.5	25.1	24.3	18.7	22.3	25.9	29.9	21.7	19.7	16.0	17.3	20.5	20.8	21.4	22.3	21.7	25.2	20.7	20.1	18.3	19.4	22.3	24.5	24.0	24.3	20.7	22.8	
010007 Bencubbin	30.0	+1.2	29.6	34.9	26.6	31.5	25.1	37.0	23.5	30.1	38.1	37.4	27.8	25.0	18.0	20.6	30.5	33.3	33.3	35.0	26.6	29.4	27.4	24.6	26.2	28.9	34.8	36.8	34.0	30.2	29.0	34.3
010092 Merredin	30.0	+1.9	28.0	35.0	27.4	31.4	37.0	32.1	24.4	29.5	37.7	29.0	25.8	16.5	20.7	24.8	33.8	34.0	35.6	27.4	29.4	27.0	25.3	26.9	29.5	33.5	34.2	33.0	30.8	30.4	33.4	
010286 Cunderdin Airfield	30.7	30.3	34.5	27.5	31.7	37.8	29.5	24.9	30.1	39.6	38.1	38.1	30.0	24.9	21.7	22.2	36.5	34.5	34.5	35.8	28.8	28.3	28.0	26.1	27.8	28.9	34.5	35.8	33.4	30.8	30.7	35.0
010633 Ravensthorpe	26.0	+1.1	25.8	32.8	22.8	27.9	34.2	32.6	22.5	26.8	32.2	36.5	24.3	17.3	13.0	16.2	23.6	24.1	33.5	32.3	21.4	27.8	27.6	24.5	21.9	21.3	26.5	32.1	26.4	25.2	21.4	26.8
010911 Lake Grace	27.7	27.0	32.8	23.4	27.2	35.4	30.0	22.9	26.7	35.4	35.9	27.5	22.1	15.7	19.0	23.7	29.2	34.2	35.0	25.2	27.9	26.8	25.4	22.7	25.0	28.4	22.0	24.5	21.2	24.6	25.7	29.5
010916 Katanning	26.7	26.4	30.6	22.4	26.0	32.2	23.9	22.4	25.9	33.3	30.1	26.9	22.8	17.4	18.4	25.1	28.3	32.9	32.7	26.7	25.8	25.6	24.8	22.2	24.5	28.4	33.4	30.3	27.6	25.7	28	

## Daily and mean maximum temperatures for November 2014

New South Wales		Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
046037 Tiboburra Post Office	34.8	+3.0	30.2	25.5	30.0	33.7	31.3	32.3	36.5	40.1	36.5	33.5	33.7	36.9	41.1	43.3	34.8	27.2	30.2	31.4	35.4	39.2	38.5	43.2	42.2	28.7	29.7	32.7	34.3	36.2	38.8	37.2	
046043 Wilcannia (Reid St)	33.8	+2.7	26.7	24.4	29.6	34.7	28.9	31.7	36.1	39.9	34.3	31.6	32.7	36.7	39.9	44.9	29.3	25.2	28.5	30.8	36.3	39.8	35.8	40.8	39.9	33.4	28.2	31.2	32.2	35.7	39.9	37.3	
047007 Broken Hill (Patton Street)	32.6		24.4					30.8	35.1	39.1	30.1	29.0	29.8	36.5	39.7	43.1	23.8	23.8	28.3	29.2	34.8	36.4	33.6	39.5	32.1	34.1	25.4	28.1	30.1	32.6	37.7	40.1	
048027 Cobar MO	33.7	+4.5	30.9	23.7	28.6	32.2	32.4	29.8	33.2	36.3	38.5	32.5	33.0	35.1	38.3	43.4	37.0	24.3	28.0	29.9	33.9	37.9	35.3	40.3	45.2	35.3	28.6	30.9	32.2	34.1	36.6	34.5	
048245 Bourke Airport AWS			35.1	26.9	31.0	34.2	36.2	33.7	35.4	38.1	40.9	38.4	36.6	37.3	39.8	45.8																	
049000 Ivanhoe Aerodrome AWS	32.7		25.4	23.3	29.1	34.6	28.3	30.2	34.4	39.0	32.6	31.3	32.0	35.1	39.1	44.3	26.1	25.2	27.6	30.1	34.5	39.2	33.6	37.4	38.7	34.2	25.4	29.6	30.5	35.3	37.8	37.2	
050052 Condobolin Ag Research Stn	32.5	+4.0	28.9	23.0	28.1	32.0	29.5	29.5	32.1	35.6	37.3	32.0	32.3	33.5	36.5	41.8	33.8	21.0	26.0	29.0	32.5	36.5	34.8	39.1	44.4	33.0	27.0	29.9	32.5	32.9	34.7	34.5	
051039 Nyngan Airport	34.4	+4.4	33.0	24.6	29.0	32.0	34.1	30.4	32.0	35.8	39.2	35.0	34.0	34.3	37.1	43.4	40.0	27.3	29.8	30.9	34.3	37.1	39.0	41.0	45.0	36.5	28.0	31.8	33.9		34.7		
052088 Walgett Airport AWS	36.4		36.2	25.7	30.9	32.1	35.2	33.1	34.3	35.7	38.9	40.4	37.4	36.7	38.3	42.7	44.6	33.9	31.2	31.9	35.9	39.2	41.5	42.4	45.7	42.7	29.7	34.8	35.7	34.9	35.4	34.2	
053115 Moree Aero	35.3		36.4	27.2	31.2	30.8	32.3	32.9	33.3	33.8	35.7	37.7	38.2	35.8	36.5	39.5	43.5	33.7	32.4	33.5	36.4	37.8	40.5	42.2	43.1	39.4	30.6	31.3	35.7	33.6	31.7	32.8	
054038 Narrabri Airport AWS	35.3		35.1	26.8	30.5	30.5	32.7	31.4	32.7	34.2	35.5	38.3	37.2	35.4	36.0	44.0	32.4	33.6	33.2	36.4	37.7	41.1	42.2	43.8	40.4	29.7	32.3	34.9	34.2	32.8	34.0		
055024 Gunnedah Resource Centre	33.8	+5.5	33.8	26.0	28.4	29.1	32.3	32.3	30.4	32.2	35.3	37.2	32.9	33.2	34.6	37.6	42.1	31.0	30.9	31.7	34.6	36.9	38.4	40.8	42.4	39.5	28.4	32.1	32.2	32.7	31.6	33.4	
055325 Tamworth Airport AWS	33.4		33.8	26.1	28.0	28.8	30.8	28.3	30.9	31.9	34.7	36.3	33.7	32.8	33.9	37.0	41.9	30.6	31.5	31.9	33.9	36.1	38.8	40.2	41.7	39.2	28.8	31.8	32.7	31.9	31.5	32.4	
056242 Inverell (Raglan St)	31.8		30.3	26.6	26.0	27.5	28.0	28.2	30.0	30.8	32.0	33.5	34.0	32.0	34.1	38.7	32.9	32.0	31.2	33.0	33.5	35.1	37.8	39.8	35.6	29.5	28.0	32.9	30.8	28.6	30.4		
057095 Tabulam (Muirne)	29.0		32.4	26.0	24.9	25.0	25.8	30.0	25.1	27.2	31.3	28.1	28.1	17.4	25.9	33.9	39.2	34.4	26.3	33.4	27.4	29.7	34.0	35.5	34.0	33.8	33.3	20.7	28.3	22.0	25.2	27.2	
058012 Yamba Pilot Station	26.7	+2.5	27.1	24.4	24.4	25.9	26.2	26.7	23.4	24.4	25.7	27.7	24.8	21.7	26.2	30.3	34.8	27.2	26.3	28.1	27.8	28.2	28.3	26.6	28.6	28.2	27.2	25.1	25.5	26.6	27.3	27.6	
058130 Grafton Olympic Pool	30.9	+3.0	34.2	26.8	26.0	26.2	29.0	29.0	26.1	28.8	29.8	31.0	27.6	22.0	24.0	36.8	42.5	34.8	29.3	30.9	29.7	32.9	38.3	37.3	39.5	37.3	36.3	25.6	30.7	26.9	28.8	30.1	
058221 Lismore (Richmond Hill)	29.8		32.1	24.2	24.5	26.4	27.5	29.1	26.7	28.7	29.0	29.5	27.0	22.0	25.0	33.0	40.6	28.5	29.7	28.5	31.4	37.7	41.1	42.2	43.8	34.1	34.5	36.1	29.0	30.6	27.2	26.6	27.6
059040 Coffs Harbour MO	26.3	+1.6	32.9	23.6	23.3	24.1	27.4	23.7	23.2	23.7	24.8	26.1	23.9	23.8	26.4	30.8	32.3	26.0	24.4	26.9	25.8	27.6	30.1	28.9	31.7	28.7	28.6	22.0	25.2	23.8	24.9	25.8	
060139 Port Macquarie Airport AWS	27.0		31.0	23.4	22.9	24.6	25.6	24.9	23.9	25.1	25.9	26.0	21.7	22.3	26.4	31.6	26.9	28.2	25.5	28.6	27.2	29.7	32.5	29.7	32.2	33.2	30.0	24.1	24.2	23.3	26.1	27.1	
061078 Williamtown RAAF	27.1	+1.8	37.7	23.9	21.8	24.7	28.8	22.7	22.4	25.0	26.4	24.4	23.1	22.8	27.0	40.1	24.6	30.9	24.1	25.5	23.8	32.4											
061363 Scone Airport AWS	33.0		35.6	26.3	27.4	29.0	32.7	29.0	28.9	31.4	37.1	34.9	27.1	29.2	32.6	38.9	42.2	30.7	32.0	31.8	31.3	37.7	39.5	36.8	43.5	41.5	29.4	30.6	28.0	28.2	33.4	34.4	
062101 Mudgee Airport AWS	31.2		31.7	21.9	26.0	27.9	28.5	27.8	29.9	30.9	35.6	34.0	26.3	31.2	32.2	38.1	37.6	25.8	27.6	29.0	29.5	34.6	36.7	37.5	42.5	37.7	26.7	30.5	26.5	28.3	31.2	32.0	
063005 Bathurst Agricultural Station	28.9	+6.2	28.2	18.2	23.5	25.7	27.6	24.2	27.5	30.5	34.4	31.5	27.0	29.3	31.5	35.7	35.2	22.0	23.7	24.8	28.0	32.0	32.5	34.2	39.6	34.5	25.2	28.0	25.6	28.5	28.6	30.7	
063254 Orange Agricultural Institute			23.0	21.0	22.4	24.8	21.5	24.5									30.0	25.6	26.5	28.3	32.0	29.2	16.6	20.0	22.0	25.5	28.5						
064008 Coonabarabran (Namo Street)	31.9	+4.5	30.0	22.9	27.3	27.0	29.9	27.5	29.4	32.7	34.6	35.4	32.8	32.1	34.0	35.5	39.5	28.5	28.5	29.0	32.3	34.0	37.2	38.5	41.6	37.7	25.0	31.5	31.9	30.1	29.4	30.0	
065070 Dubbo Airport AWS	33.3		31.7	23.0	28.3	30.4	32.2	29.7	31.0	34.0	37.6	35.4	32.5	33.0	35.5	39.6	39.9	27.4	28.1	29.6	32.9	36.1	37.5	39.9	44.3	38.5	27.4	31.4	32.8	32.0	33.8	34.6	
066062 Sydney (Observatory Hill)	25.7	+2.0	36.5	23.5	21.5	21.8	23.5	23.2	22.1	23.1	26.2	23.6	23.2	22.2	23.5	32.2	24.1	28.5	25.5	26.7	24.9	31.1	33.9	26.3	30.1	30.2	24.7	23.3	20.9	23.3	25.3	26.8	
067105 Richmond RAAF	30.3		35.2	25.2	24.8	27.7	30.3	24.5	27.6	30.4	29.6	26.5	22.4	26.5	28.9	40.9	27.1	29.2	30.9	29.8	28.3	37.8	40.7	33.8	45.3	36.4	28.6	27.2	20.7	26.6	33.2	33.9	
068072 Nowra RAN Air Station AWS	25.9		32.9	21.8	20.3	25.0	25.3	21.3	23.5	25.3	24.3	26.3	19.0	22.5	27.6	40.1	21.4	25.4	25.5	23.4	23.8												
068151 Jersey Bay (Point Perpendicular)	23.6		31.8	18.1	18.9	22.8	23.3	18.8	20.3	23.1	20.7	21.5	18.7	20.5	25.1	32.9	20.4	24.4	22.0	20.5	22.2	28.7	28.4	24.0	28.6	32.7	19.1	24.1	19.9	22.5	25.4	27.1	
068241 Albion Park (Wollongong Airport)	25.1		35.4	21.0	20.6	22.9	23.7	21.4	22.3	23.5	24.9	22.4	21.0	21.5	24.1	33.8	23.4	26.8	23.2	25.4	24.9	31.2	26.5	29.5	32.0	22.7	24.8	20.4	23.0	25.6	26.7		
069018 Moruya Heads Pilot Station	21.6	+0.7	31.0	19.5	18.7	20.7	21.0	18.8	20.2	20.3	23.2	20.6	19.5	19.7	20.8	25.6	18.8	22.3	20.8	20.5	20.6	23.4	24.9	21.6	24.3	22.6	21.8	23.7	18.3	20.8	22.2	23.0	
070351 Canberra Airport	27.9		26.5	20.0	22.6	25.2	27.2	24.4	27.4	30.0	33.3	29.5	26.9	27.9	31.2	37.2	29.4	18.0	23.6	25.7	27.8	31.4	30.2	31.8	39.0	26.4	25.4	26.7	25.9	27.5	29.7	27.9	
071041 Thredbo Village	19.4		15.1	10.5	16.2	17.3	18.0	16.8	22.5	23.0	23.0	20.3	20.5	18.9	21.4	24.5	26.8	19.5	9.4	13.5	17.0	19.4	22.6	20.2	23.5	26.9	19.2	15.0	17.0	19.0	20.2	21.5	22.1
072150 Wagga Wagga AWS	29.6	+3.9	24.4	20.1	25.3	29.5	27.4	27.1	30.9	34.5	32.6	30.3	30.7	31.6	33.5	40.6	27.0	20.9	24.0	27.5	30.2	35.4	31.6	34.2	39.6	23.2	23.3	27.3	29.6	30.3	33.2	32.2	
072160 Albury Airport AWS	28.5		21.7	19.1	24.																												

## Daily and mean minimum temperatures for November 2014

Western Australia	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
001013 Wyndham	27.3	27.1	28.0	26.9	28.5	29.8	27.6	24.4	27.0	25.9	27.2	27.2	28.7	26.7	28.4	24.6	28.8	29.8	27.0	26.0	28.8	28.2	29.5	26.1	30.8	29.3	22.2	25.0	25.3	28.1	27.2	
001019 Kalumburu	24.5	23.3	24.5	24.2	24.9	25.2	25.8	22.4	24.1	23.4	23.6	24.7	25.4	22.4	23.3	23.2	23.9	23.9	26.1	24.1	25.3	24.5	24.7	25.5	24.1	26.5	24.8	24.9	23.4	25.4	26.3	
002012 Halls Creek Airport	24.5	0.0	22.0	20.6	21.8	24.6	24.4	25.0		25.2	25.3	23.9	27.3	24.6	25.1	24.5	24.4	26.5	22.6	23.3	24.2	28.2	25.0	24.4	24.2	26.2	23.9	25.0	22.6	25.4	25.7	
002056 Kununurra Aero	25.5	24.0	25.1	26.5	27.0	27.7	25.6	23.5	24.9	24.4	24.1	23.7	23.1	24.9	27.0	24.0	25.4	26.4	24.3	25.3	27.6	25.7	26.5	26.4	26.4	27.9	23.8	24.5	26.1	26.3	25.9	
003003 Broome Airport	26.4	+1.2	23.6	25.4	26.2	22.9	26.1	26.6	24.1	23.8	23.8	27.8	24.5	27.8	26.2	26.1	23.3	24.3	28.3	25.2	28.1	26.8	29.6	29.4	25.4	28.2	29.3	28.7	27.5	25.1	28.3	28.9
003032 Derby Aero	26.7	25.9	27.5	24.7	23.3	26.3	25.4	25.9	24.9	27.2	28.2	26.1	27.5	27.5	27.6	24.8	25.2	28.2	25.1	26.2	26.9	27.8	28.3	28.3	28.0	28.0	28.1	27.0	25.3	27.4	27.1	
004032 Port Hedland Airport	23.4	+2.1	21.7	20.8	22.4	20.2	20.7	21.5	22.7	21.7	26.7	23.5	23.2	24.6	22.9	23.7	24.5	22.9	24.6	23.2	24.9	23.3	22.3	25.2	23.2	23.3	25.8	25.9	26.0	25.5	23.6	22.7
004083 Karratha Aero	23.8	21.8	22.8	24.2	21.9	24.9	24.8	24.4	23.8	24.1	24.1	23.6	25.4	24.9	21.6	24.1	22.3	23.3	23.2	23.2	23.5	23.8	23.4	24.0	25.1	24.8	25.1	24.6	24.1	24.1	23.4	
004106 Marble Bar	24.4	24.8	23.1	21.6	21.8	24.1	25.2	25.8	23.4	26.2	23.1	27.7	27.5	26.6	25.4	23.1	23.5	21.9	23.8	25.5	26.2	23.5	26.2	24.6	24.0	27.2	23.1	21.0	21.9	23.3	27.5	
005007 Learmonth Airport	18.2	17.1	18.7	15.4	17.4	20.5	19.0	17.5	17.9	19.1	19.9	18.7	18.0	15.9	14.8	18.0	19.9	19.1	17.2	16.4	17.8	16.7	17.4	17.3	18.9	18.1	22.7	18.7	18.1	19.2	19.1	
006011 Carnarvon Airport	18.8	+0.2	18.5	18.9	19.8	17.6	20.1	20.3	19.7	18.5	19.3	19.8	19.9	19.5	17.1	15.0	12.4	17.9	17.4	19.7	19.3	18.2	18.4	20.0	18.3	19.1	20.2	19.1	17.3	22.2	20.5	20.6
006044 Denham	18.8	18.4	19.9	20.8	18.0	19.9	20.0	20.2	17.1	19.4	20.5	19.0	19.0	17.5	16.5	16.4	16.0		20.0	19.3	17.4	16.0		17.1	17.8	21.4	19.4	18.6	22.1	19.4	19.2	
007176 Newman Aero	21.8	19.5	22.8	24.6	22.3	27.2	27.3	24.3	21.9	26.0	19.2	21.7	21.8	21.2	16.9	17.8	22.2	20.0	20.8	21.6	19.1	22.1	21.3	24.8	23.5	24.3	20.3	19.7	19.9	20.4	20.6	
007185 Paraburdoo Aero	21.4	18.1	23.6	20.8	24.8	22.0	23.1	22.8	20.2	28.2	22.1	20.0	20.9	22.8	19.1	20.3	22.5	19.7	21.2	22.4	17.6	18.0	18.7	22.1	21.2	23.3	24.9	20.0	20.6	19.0	21.4	
007045 Meekatharra Airport	19.0	+0.4	17.3	20.4	18.3	18.6	24.6	26.4	17.5	18.0	21.9	21.1	20.5	19.3	14.5	10.0	11.9	18.7	17.8	21.8	18.5	16.3	18.7	18.6	19.0	19.8	24.4	19.5	18.0	21.0	19.3	19.1
007600 Mount Magnet Aero	17.7	16.9	20.4	17.1	15.9	19.0	22.1	15.6	14.7	20.2	19.8	18.4	17.8	12.4	10.1	12.1	17.5	18.9	21.2	16.6	16.3	16.5	18.1	15.8	17.1	23.1	22.3	17.3	20.8	17.2	19.4	
008296 Morawa Airport	14.2	12.5	14.7	13.8	11.9	14.2	13.9	14.5	10.3	15.5	14.8	12.6	13.7	11.1	9.9	11.0	11.4	14.7	18.2	14.6	12.0	12.1	16.0	11.8	12.0	18.3	20.2	17.4	17.5	16.9	14.3	
008297 Dalwallinu	13.1	10.3	12.9	12.1	9.7	14.4	11.8	13.4	9.2	14.2	11.4	12.7	13.1	9.1	7.1	7.6	10.7	13.4	18.5	13.8	10.2	11.2	12.4	10.8	11.8	14.5	20.7	16.6	17.8	16.6	13.4	
008315 Geraldton Airport	13.7	8.9	12.1	15.7	9.6	12.0	12.6	16.1	8.3	10.4	15.7	13.8	13.4	14.0	8.3	9.0	8.6	13.0	16.0	13.4	11.5	12.4	16.4	15.7	11.1	13.3	27.2	21.2	18.0	19.5	14.5	
009021 Perth Airport	12.5	-0.3	10.5	9.7	10.1	8.8	9.0	10.7	15.3	8.3	12.5	14.9	12.0	14.1	9.9	8.3	11.4	10.2	12.0	13.6	11.1	10.1	15.0	12.9	13.1	12.3	12.3	19.1	19.0	17.1	17.8	13.2
009131 Jurien Bay	13.6	16.8	9.0	12.2	14.0					8.6	11.4	17.0	16.0	13.5	11.0	10.0	11.0	13.0	15.0	14.4	11.5	17.4	15.0		9.8	12.4	19.0	18.4	17.5	19.0	14.2	
009225 Perth Metro	14.0	12.0	13.4	13.4	10.3	12.2	12.8	15.3	11.8	12.6	16.5	14.2	14.8	11.0	9.1	10.8	11.1	13.6	15.2	14.6	12.3	16.4	13.8	16.6	11.8	14.5	19.3	19.3	18.4	18.0	14.8	
009240 Bickley	11.7	9.5	13.8	11.6	10.0	12.2	9.1	10.4	8.8	11.8	16.0	11.6	11.6	7.4	5.6	7.4	10.9	11.7	17.2	11.2	11.9	14.0	11.6	10.8	8.4	10.7	15.4	16.4	15.1	14.5	13.0	
009518 Cape Leeuwin	14.8	+0.7	11.4	15.9	15.4	13.6	14.1	16.7	14.7	14.2	14.1	16.9	14.9	12.5	10.5	10.4	14.3	15.2	17.2	15.2	16.1	16.3	14.2	14.5	13.4	14.8	16.0	17.7	18.3	15.8	14.5	
009617 Bridgetown	8.4	6.6	7.9	8.4	3.4	6.5	6.3	10.2	2.1	6.0	12.3	10.3	5.1	5.7	2.7	2.4	6.2	10.5	7.0	9.5	10.5	13.5	12.3	10.3	1.5	10.0	12.2	16.1	13.0	14.6	8.1	
009746 Witchcliffe	11.0	6.0	10.4	12.3	7.6	7.5	14.1	13.3	6.8	7.6	13.0	13.9	8.0	8.7	9.6	4.9	9.7	11.1	12.4	9.3	14.5	15.2	12.7	13.5	6.9	9.7	12.0	17.1	17.4	14.6	10.0	
009789 Esperance	13.8	10.8	12.5	16.2	8.6	11.5	16.5	15.0	9.4	10.9	18.7	19.6	16.7	12.3	10.7	8.0	10.5	14.1	19.7	16.9	11.4	15.6	14.7	14.5	13.1	10.1	11.6	15.3	17.1	16.7	14.4	
009865 Bunbury	11.5	12.0	9.6	9.8	6.5	10.3	8.0	15.4	5.6	12.5	18.3	15.3	7.4	7.7	3.8	9.5	11.3	11.8	9.7	9.4	15.5	16.0	13.5	14.5	5.0	11.7	16.6	16.5	14.4	15.5	11.9	
009977 Mandurah	15.1	13.7	14.4	15.0	13.2	14.5	13.4	15.5	11.8	14.9	18.9	17.3	13.3	11.9	8.8	11.4	14.8	14.8	16.5	15.1	15.9	16.9	16.0	16.7	11.3	15.0	20.2	19.3	16.8	17.5	16.3	
009999 Albany Airport	10.4	5.6	10.1	9.0	7.0	10.6	12.3	10.8	3.7	8.9	14.4	11.6	7.2	9.3	8.5	5.0	6.9	12.6	15.8	11.9	10.8	14.3	11.5	11.7	8.0	7.5	13.1	16.9	14.0	15.4	7.7	
010007 Bencubbin	14.3	+1.1	12.5	18.5	12.5	13.0	14.0		13.1	10.6	15.9	25.0	14.3	14.1	10.0	6.5	8.6	9.9	15.0	20.7	15.2	11.3	12.5	11.0	11.2	15.0	23.5	18.4	17.8	16.0	16.1	
010092 Merredin	14.3	+1.4	11.4	18.2	12.8	13.0	13.7	13.9	12.5	10.2	15.5	25.3	15.4	14.9	9.0	6.0	9.7	12.0	16.0	22.4	16.0	11.7	12.5	12.2	11.4	11.2	13.2	19.0	18.9	18.3	15.9	14.5
010286 Cunderdin Airfield	12.3	11.2	11.9	8.5	11.8	8.7	10.0	13.6	10.9	14.1	19.8	13.1	16.1	9.7	7.0	7.9	7.3	10.6	15.8	15.5	8.0	13.3	11.0	8.3	10.8	12.3	18.3	18.3	16.1	15.3	14.8	
010633 Ravensthorpe	11.2	+0.4	4.9	12.8	12.0	7.8	9.5		16.1	7.4	9.4	16.7	15.5	13.0	9.4	6.4	5.7	10.7	12.1	14.5	14.1	10.0	13.8		11.8	7.5	9.0	9.9	18.7	15.8	13.4	10.2
010911 Lake Grace	12.4	7.9	16.6	12.0	9.1	10.5	12.7	12.3	8.6	11.6	19.9	15.5	13.6	8.8	5.8	6.2	7.7	13.0	15.4	13.2	11.5	13.4	12.9	11.1	7.9	11.2	12.9	20.0	17.0	16.2	13.1	
010916 Katanning	10.0	6.3	11.8	8.2	8.3	8.3	13.7	9.5	4.5	9.0	12.2	12.3	11.2	7.8	4.4	5.2	8.4	11.8	10.7	12.0	9.6	13.3	10.7	8.9	4.3	8.6	12.8	17.4	15.0	14.7	8.5	
010917 Wandaring	8.5	6.6	6.7	6.8	5.0	5.5	5.3	9.7	4.1	7.4	11.0	11.0	8.4	0.8	2.6	5.9	7.0	10.2	9.4	6.4	13.8	10.										

## Daily and mean minimum temperatures for November 2014

New South Wales		Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
046037 Tibobourra Post Office	19.9	+2.3	23.0	15.0	14.2	12.8	18.3	15.9	16.3	21.4	21.4	21.2	19.3	18.0	18.9	23.9	26.4	17.7	15.2	17.4	16.9	20.0	21.1	24.2	30.8	24.3	17.4	17.8	19.7	22.6	23.4	23.0	
046043 Wilcannia (Reid St)	15.9	+0.7	20.9	9.9	8.0	8.7	16.3	9.5	12.7	14.4	18.4	16.2	16.9	10.6	14.1	22.1	25.2	14.7	10.3	15.6	14.9	18.8	17.1	16.9	26.3	20.9	13.1	10.7	14.3	14.7	18.3	25.9	
047007 Broken Hill (Patton Street)	16.8		16.1	7.1						15.6	22.1	13.6	11.5	12.7	17.9	23.3	26.1	21.9	10.8	10.6	12.9	16.7	23.9	17.7	19.2	18.9	20.3	10.3	11.7	13.3	16.8	20.5	24.9
048027 Cobar MO	18.4	+2.8	20.1	10.6	10.8	14.2	17.4	13.1	16.6	18.5	20.4	18.2	16.4	18.7	19.8	25.0	28.1	17.0	11.1	14.4	17.0	19.6	20.3	21.7	27.4	27.8	16.8	13.7	15.9	19.1	23.8	19.4	
048245 Bourke Airport AWS			20.0	14.8	10.0	10.4	13.9	15.4	14.5	15.2	15.2	23.0	19.3	17.7	16.6	22.1	25.7									26.4							
049000 Ivanhoe Aerodrome AWS	16.1		17.9	9.0	7.6	12.0	13.7	12.3	15.1	18.1	16.7	14.2	12.9	15.0	18.1	23.8	22.3	14.3	11.1	12.6	15.2	20.7	21.3	18.0	23.1	20.2	11.4	11.4	14.9	14.4	18.8	25.6	
050052 Condobolin Ag Research Stn	14.5	+1.8	21.7	6.5	4.0	9.3	18.0	9.5	8.5	12.8	17.5	13.0	10.5	15.5	12.0	17.0	25.8	15.3	9.3	10.5	11.0	13.5	19.0	14.8	21.6	26.9	14.5	8.5	12.2	15.5	20.2	21.5	
051039 Nyngan Airport	16.9	+2.0	19.8	10.5	9.8	13.0	17.3	12.6	14.1	13.8	16.3	19.5	15.7	15.7	17.4	21.4	25.8	18.1	12.5	15.0	14.4	16.2	19.7	18.7	23.2	27.4	18.1	13.2	16.5	18.0			
052088 Walgett Airport AWS	17.6		19.9	12.7	6.7	12.4	17.8	13.3	11.0	16.6	19.4	19.1	18.1	19.2	19.1	21.5	25.2	21.5	13.5	13.9	13.2	19.0	17.7	18.1	21.1	28.1	21.4	9.5	14.2	20.4	20.1	21.4	
053115 Moree Aero	19.5		19.3	14.4	9.1	17.7	18.1	15.6	13.6	18.1	20.3	22.4	19.5	19.3	20.8	22.2	25.0	23.8	16.6	15.4	16.6	21.9	25.8	23.0	25.7	23.1	21.6	21.1	19.7	18.9	17.9	18.3	
054038 Narrabri Airport AWS	17.9		19.3	13.4	11.4	15.6	16.7	12.6	11.9	14.3	16.9	19.1	18.0	16.7	18.8	21.2	26.0	22.3	13.3	12.8	14.1	19.7	26.2	19.1	21.8	22.2	21.9	19.2	13.5	17.4	18.8	20.0	
055024 Gunnedah Resource Centre	18.3	+3.4	19.7	13.1	12.3	14.4	16.3	13.8	12.2	16.7	19.0	20.8	17.5	15.2	18.7	20.8	26.4	18.6	15.2	15.4	17.3	19.1	26.3	20.8	23.9	23.3	21.4	19.5	18.8	15.6	18.1	18.4	
055325 Tamworth Airport AWS	15.8		19.6	9.2	11.4	13.0	12.0	10.3	14.2	13.7	14.0	15.2	16.9	14.4	14.2	17.2	17.8	18.9	12.1	11.5	16.5	15.5	25.0	14.7	20.5	22.4	19.9	20.2	16.0	17.3	15.0	15.0	
056242 Inverell (Raglan St)	14.2		16.8	12.0	9.0	8.5	13.8	9.6	10.4	12.4	11.3	12.0	14.0	15.0	15.8	15.8	10.2	11.5	9.0	11.5	15.8	21.7	16.0	15.9	21.0	17.6	19.8	15.9	15.5	12.7	12.0		
057095 Tabulam (Muirne)	16.7		16.5	18.0	13.2	12.7	12.8	12.2	15.4	14.8	14.4	14.7	17.2	15.0	15.8	16.6	20.5	19.8	18.3	17.7	19.1	17.3	19.4	21.9	20.4	19.8	19.9	17.5	17.6	15.0	13.8	13.6	
058012 Yamba Pilot Station	19.5	+2.3	20.7	20.9	18.2	18.5	17.4	14.9	18.0	15.9	16.7	17.1	19.3	18.0	18.7	20.3	20.9	20.0	21.5	21.7	22.5	21.7	21.4	21.5	21.3	20.7	20.3	20.4	20.4	20.5	19.6	17.4	
058130 Grafton Olympic Pool	19.1	+3.2	20.6	21.4	18.2	17.4	17.6	14.1	16.5	15.0	15.9	15.4	20.3	17.9	18.4	19.6	19.3	19.7	20.6	19.7	22.4	20.2	21.6	22.2	23.4	21.9	20.8	20.4	20.5	18.5	17.3	15.1	
058221 Lismore (Richmond Hill)	18.4		18.7	19.9	16.6	15.1	14.8	14.2	16.7	16.1	14.7	16.0	16.4	18.2	18.4	18.2	19.6	21.8	21.6	18.8	20.0	19.8	21.0	23.0	20.2	20.6	19.9	19.7	19.9	18.7	15.5	14.9	
059040 Coffs Harbour MO	18.3	+2.2	20.6	19.2	15.8	16.3	17.0	13.9	15.9	13.3	17.1	18.7	19.3	16.6	17.5	20.0	20.4	18.2	18.2	19.4	19.9	19.0	22.8	20.7	22.1	21.5	20.6	19.1	18.5	16.3	16.6	15.8	
060139 Port Macquarie Airport AWS	16.5		20.5	17.9	9.9	11.8	14.1	13.6	14.0	10.0	14.2	13.1	18.5	17.0	11.9	17.9	17.4	15.5	14.1	20.1	17.2	16.3	21.2	20.1	21.8	20.7	20.1	19.7	19.6	17.4	15.5	13.6	
061078 Williamtown RAAF	15.3	+1.1	19.1	10.5	8.5	11.1	13.6	12.1	12.3	8.7	13.1	17.1	17.1	12.3	12.9	14.9	19.1	15.0	11.6	15.6	16.1	14.9	19.8	18.6	19.7	20.1	19.2	18.2	19.5	17.9	15.8	14.0	
061363 Scone Airport AWS	14.5		20.6	10.7	4.7	7.9	10.9	9.9	13.6	12.7	9.4	17.8	17.4	10.6	11.8	14.7	20.2	14.5	13.1	9.8	13.9	15.5	19.9	19.3	16.5	22.3	21.3	17.0	18.5	15.0	11.6	14.9	
062101 Mudgee Airport AWS	12.7		13.5	7.7	5.0	10.2	11.1	6.2	8.5	10.4	8.6	13.5	15.9	14.7	13.0	12.6	20.5	14.2	9.6	5.6	13.2	11.7	17.8	14.7	15.0	18.5	18.3	13.5	16.1	13.5	13.4	14.8	
063005 Bathurst Agricultural Station	9.9	+1.6	15.0	3.3	0.0	7.5	9.8	3.7	5.4	7.2	7.5	7.5	11.0	10.0	11.7	10.6	20.5	12.1	6.6	5.8	8.5	9.5	17.0	12.0	14.0	18.0	14.1	7.5	11.1	8.1	9.5	12.0	
063254 Orange Agricultural Institute			1.0	7.0	11.2	4.0	7.2	9.5					9.4	10.8	11.0	13.5	21.0	10.2	7.0	6.5	7.6	10.5	16.0										
064008 Coonabarabran (Namoí Street)	11.8	+0.8	17.5	9.0	5.1	7.1	8.4	8.3	5.1	6.7	8.7	11.5	14.4	10.5	10.5	13.3	16.3	18.2	12.0			15.0	11.3	14.6	12.3	13.2	18.3	18.7	7.9	9.2	11.3	12.9	16.0
065070 Dubbo Airport AWS	14.6		17.7	6.6	5.2	13.4	13.1	6.7	10.1	14.7	13.7	16.3	13.5	14.9	16.6	17.7	24.2	14.9	8.9	9.4	12.2	16.7	17.9	17.2	20.6	23.6	18.1	13.0	12.9	15.9	16.2	17.3	
066062 Sydney (Observatory Hill)	17.9	+1.9	21.3	13.7	13.8	16.1	17.7	15.5	16.5	14.4	16.5	18.7	16.6	16.4	18.5	17.7	18.9	18.1	15.2	18.6	18.1	18.8	22.1	19.1	19.6	21.1	21.8	19.3	18.9	16.6	19.1		
067105 Richmond RAAF	15.6		19.2	9.4	7.8	15.3	13.7	12.5	12.9	10.7	11.6	18.4	17.4	15.2	16.0	14.7	18.5	17.8	11.6	14.4	18.3	16.3	19.1	18.9	16.6	21.1	21.6	18.3	17.5	15.8	13.0	14.3	
068072 Nowra RAN Air Station AWS	13.8		16.9	10.8	8.9	11.1	12.4	14.4	10.4	10.2	13.6	15.6	15.0	13.2	11.7	13.8	16.1	15.8	8.3	11.8	16.1	12.9	18.3	16.7	15.9	18.4	17.5	15.1	14.9	11.6	11.5	14.3	
068151 Jervis Bay (Point Perpendicular)	16.3		17.7	12.7	12.3	14.8	17.3	15.1	12.6	13.4	16.9	16.8	15.2	14.7	16.6	17.8	17.6	16.7	13.5	15.9	16.8	16.5	20.0	17.8	18.9	19.3	17.8	17.4	16.3	15.8	15.9	18.8	
068241 Albion Park (Wollongong Airport)	14.1		15.0	11.1	8.0	13.2	12.6	12.9	9.3	8.3	10.0	17.6	15.7	13.9	13.3	16.2	17.0	10.5	12.3	16.8	15.7	18.7	15.3	15.3	19.0	19.8	17.0	15.8	9.9	12.1	12.9		
069018 Moruya Heads Pilot Station	14.4	+1.6	16.2	8.9	10.7	13.5	13.8	14.6	12.9	11.4	12.5	15.2	13.9	14.2	14.5	15.4	16.5	15.7	10.8	15.5	14.9	13.9	17.1	17.7	16.2	17.9	16.2	14.7	14.6	12.5	14.5	16.4	
070351 Canberra Airport	10.2		14.6	4.6	3.3	10.4	9.3	11.8	5.0	5.7	13.9	8.4	9.6	9.8	9.6	14.5	13.9	9.3	5.1	13.0	7.4	12.6	12.5	11.2	18.8	14.4	5.5	14.2	5.7	9.2	13.5		
071041 Thredbo Village	4.7		9.7	-1.0	-1.6	1.7	3.0	2.8	1.0	3.3	3.5	3.3	0.5	1.1	4.5	9.8	13.2	7.0	5.0	2.7	0.9	6.0	11.0	4.5	10.2	11.4	5.5	-1.2	7.5	3.2	4.2	7.2	
072150 Wagga Wagga AWS	12.1	+1.7	17.2	4.9	2.9	11.5	12.6	6.2	7.1	12.0	11.4	6.3	7.4	12.0	10.2	16.8	20.1	14.1	7.5	9.1	10.7	12.1	15.0	12.7	19.1	19.2	10.8	8.1	11.7	14.7	17.4	20.8	
072160 Albury Airport AWS	12.2		15.2	5.5	5.8	9.6	12.0	7.8																									



