



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

# Monthly Weather Review

## Australia

### October 2016



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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Publishing Unit, Bureau of Meteorology, GPO Box 1289, Melbourne VIC 3001

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## Cover photograph

Virga falling from altocumulus over canola fields at Bridgewater in north-western Victoria.

Photograph by Andrew Chapman, 20 September 2008. Copyright © 2008 Andrew Chapman. Used with permission.

# Overview

- Cool over much of the eastern mainland and Northern Territory
- Nights particularly cool in this area
- Both days and nights warm for the coastal far north
- Very wet month for western Tasmania, seventh-wettest October for State as a whole
- Rainfall also above average for Victoria, northern Western Australia, and around the Gulf of Carpentaria
- Strong and damaging winds across southern Australia

October was cooler than average for Australia, with the national mean temperature 0.50 °C below the historical average. Western Australia recorded above average mean temperatures, with an anomaly of +0.33 °C. Weather across southern Australia was dominated by frequent strong winds and vigorous cold fronts. Broad surface troughs influenced central and northern parts of the country throughout October.

Seven major storm or wind events affected Victoria during the month, while strong and gusty winds affected Tasmania several times during October, especially early in the month. New South Wales and South Australia were also affected several times.

## Areal averages in October 2016

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	-13%	-0.29 °C	-0.73 °C	-0.50 °C
Western Australia	-26%	+0.63 °C	+0.02 °C	+0.33 °C
Northern Territory	+1%	-0.76 °C	-1.56 °C equal 9th-lowest	-1.15 °C
South Australia	-36%	-0.31 °C	-0.80 °C	-0.55 °C
Queensland	-38%	-0.89 °C	-1.09 °C	-0.98 °C
New South Wales	-9%	-0.89 °C	-1.02 °C	-0.95 °C
Victoria	+35%	-0.63 °C	-0.29 °C	-0.45 °C
Tasmania	+74% 7th-highest	-0.72 °C	+0.14 °C	-0.28 °C

## Extremes in October 2016

	Hottest day	Coldest night	Wettest day	Warmest overall	Coollest overall	Wettest overall	Strongest wind gust
Australia	43.8 °C at Urandangi Aerodrome (Qld) on the 30th	−9.3 °C at Thredbo AWS (NSW) on the 13th	121.0 mm at Mossman South Alchera Drive (Qld) on the 5th	31.8 °C at Argyle Aerodrome (WA)and Wyndham Aero (WA)	1.2 °C at Mount Hotham (Vic.)and Thredbo AWS (NSW)	605.4 mm at Mount Read (Tas.)	159 km/h at Maatsuyker Island Lighthouse (Tas.) on the 5th
Western Australia	43.5 °C at Marble Bar on the 31st	−2.6 °C at Newdegate Research Station on the 21st	61.6 mm at Moola Bulla Airstrip on the 20th	31.8 °C at Argyle Aerodromeand Wyndham Aero	12.5 °C at Bridgetownand Rocky Gullyand Shannonand Wandering	132.2 mm at Vermeulen	119 km/h at Cape Naturaliste on the 1st
Northern Territory	43.7 °C at Rabbit Flat on the 29th	2.2 °C at Arltunga on the 24th	91.0 mm at Charles Point on the 25th	31.7 °C at Bradshaw	21.3 °C at Alice Springs Airport	201.4 mm at Point Stuart	76 km/h at Yulara Airport on the 1st
South Australia	41.4 °C at Ceduna AMO on the 29th	−1.3 °C at Yongala on the 19th	48.0 mm at Piccadilly (Woodhouse) on the 17th	22.0 °C at Oodnadatta Airport	10.5 °C at Mount Lofty	195.3 mm at Piccadilly (Mount Lofty Botanic Garden)	113 km/h at Neptune Island on the 4th
Queensland	43.8 °C at Urandangi Aerodrome on the 30th	0.6 °C at Stanthorpe Leslie Parade on the 18th	121.0 mm at Mossman South Alchera Drive on the 5th	30.6 °C at Kowanyama Airport	14.1 °C at Applethorpe	181.6 mm at Mossman South Alchera Drive	91 km/h at Double Island Point Lighthouse on the 13th
New South Wales	36.9 °C at Menindee Post Office on the 9th and Bourke Airport AWS on the 27th	−9.3 °C at Thredbo AWS on the 13th	80.6 mm at Thredbo Village on the 17th	20.2 °C at Evans Head RAAF Bombing Range AWSand Tibooburra Airport	1.2 °C at Thredbo AWS	418.6 mm at Thredbo Village	113 km/h at Coffs Harbour Airport on the 31st
Victoria	36.2 °C at Mildura Airport on the 9th	−6.3 °C at Mount Hotham on the 19th	51.2 mm at Grampians (Mount William) on the 4th	16.1 °C at Mildura Airport	1.2 °C at Mount Hotham	287.8 mm at Falls Creek (Rocky Valley)	137 km/h at Wilsons Promontory Lighthouse on the 4th and Mount Buller on the 9th
Tasmania	26.2 °C at Dover on the 30th	−5.2 °C at Liawenee on the 29th	113.2 mm at Mount Read on the 1st	13.2 °C at Bicheno (Council Depot)	2.7 °C at Kunanyi (Mount Wellington Pinnacle)	605.4 mm at Mount Read	159 km/h at Maatsuyker Island Lighthouse on the 5th
In this table <i>Hottest day</i> is the highest daily maximum temperature, <i>Coldest night</i> is the lowest daily minimum temperature, <i>Wettest day</i> is the highest daily rainfall total, <i>Warmest overall</i> is the highest mean monthly temperature, <i>Coollest overall</i> is the lowest mean monthly temperature and <i>Wettest overall</i> is the highest total monthly precipitation.							

## Flooding in Tasmania

Flooding continued across Tasmania for several days at the start of October after significant rainfall towards the end of September. Major flooding developed in the Jordan River on the 1st, reaching the highest river level at Mauriceton since 1975. Moderate flooding developed in the lower Meander, upper South Esk and throughout the Macquarie River. The river level at Cressy in the lower reaches of the Macquarie River peaked close to the major flood level on the 2nd, the fifth highest since records began in 1985, inundating large areas of agricultural land. There were also minor flood warnings issued for the upper Meander, North Esk, lower South Esk, Huon, lower Derwent, Forth and Mersey rivers.

A series of cold fronts that crossed the State brought more rain to already saturated catchments, leading to further river rises. There was renewed minor flooding in the Macquarie, Huon and River Derwent catchments.

## Flooding in New South Wales

Flooding also continued to progress downstream through rivers in inland New South Wales during October following heavy September rains. Major flooding was experienced in parts of the Lachlan, Macquarie, Murrumbidgee, Murray and Bogan rivers, with moderate flooding in the Barwon–Darling, Warrego, Belubela and Peel rivers and minor flooding in the Paroo and Macintyre. The flooding resulted in widespread road closures and significant isolation of rural properties, with some properties remaining isolated throughout the month. Evacuations were ordered in some low-lying parts of Forbes, Condobolin, Willow Bend, Wagga Wagga, Moulamein, and Tumut during the month. During September and October, over 5500 requests for assistance were received by the SES related to the flooding, with 143 flood rescues performed, while Natural Disasters were declared for 36 Local Government Areas.

## Flooding in Victoria

Flooding also affected much of northern Victoria during the month as a result of downstream flows following September rain and continued falls in October. Towards the end of the first week of the month at least 238 roads were closed across the State.

Major flooding occurred in the Ovens River: Bright was largely isolated as floodwaters cut the Great Alpine Road near Eurobin on the 5th, landslips and

fallen trees blocked the Bogon High Plains Road between Falls Creek and Mount Beauty, and flooding affected sewerage systems at 75 properties in Myrtleford, while the river peaked at 12.87 m at Wangaratta overnight on the 5th/6th. In the west the Avoca River at Charlton peaked overnight on the 6th/7th above the major flood height at 7.23 m, while the Loddon River peaked at 7.09 m on the evening of the 6th.

Flooding also continued along the Murray and other border rivers during the month, The Edward River, a secondary channel of the Murray, reached its highest flood levels since 1975 at Deniliquin and Moulamein. The SES issued evacuation orders for some townships in the border region.

## Flooding in South Australia

Heavy rainfall, reported in the September Monthly Weather Review, led to significant flooding in the Gawler River downstream from Gawler to the north of Adelaide. Flooding peaked during 1 October, affecting areas including Angle Vale, Lewiston and Virginia.

Further rainfall between the 2nd and 4th led to renewed river rises and further flooding in the Onkaparinga, Torrens and Gawler river catchments.

## Thunderstorms and strong winds in southeast Queensland and New South Wales

Severe thunderstorms developed along a surface trough on the 3rd, extending from Dalby down to Warwick in Queensland's Darling Downs, moving eastwards and passing over Toowoomba, then weakening off the ranges around Gatton. Heavy showers re-intensified between Amberley and Archerfield in the greater Brisbane area. There were reports of houses being unroofed in Acacia Ridge, and more than 10 000 homes lost power in the greater Brisbane area.

On the 18th, a squall line developed through the Darling Downs and southeast coast districts, with wind gusts of 93 km/h reported at Wellcamp Airport (near Toowoomba) and 90k/h at Dalby.

Severe thunderstorms affected central New South Wales overnight on the 21st/22nd, causing strong winds, hail, and flash flooding. The damage was most significant in Parkes and Young, where the SES received 128 requests for assistance, primarily due to fallen trees and powerlines as well as damage to several properties. Hail of up to 4 cm diameter also broke windows in Parkes, with reports of a tornado flattening trees. The storm caused major damage to crops in parts of the central west.



## Strong and damaging winds

Seven major storm and/or wind events affected Victoria during the month, while strong and gusty winds affected Tasmania several times during October, especially early in the month. New South Wales and South Australia were also affected several times.

### 1st — southwest Western Australia

A low pressure system intensified rapidly to the south of Western Australia during the 1st, producing a strong cold front. Severe wind gusts over southwest Western Australia, reaching 119 km/h at Cape Naturaliste, caused widespread power outages. The State Emergence Service (SES) received numerous calls for assistance related to roof damage or fallen trees.

### 2nd to 5th — South Australia, Victoria, New South Wales and Tasmania

A series of cold fronts associated with the low mentioned above tracked across South Australia and the southeast between the 2nd and 4th.

Squally showers and isolated thunderstorms associated with one of these fronts and an accompanying sharp upper trough affected central parts of South Australia during the morning of the 3rd. A westerly squall with a gust to 91 km/h occurred at Kadina on the Yorke Peninsula, while a succession of heavy showers and thunderstorms affected the eastern suburbs of Adelaide, through the Norton Summit/Cherryville area to Lobethal area during the morning. Totals of 15 to 25 mm fell in about an hour over a narrow west to east band, resulting in localised flash flooding. The highest recorded rainfalls between 8 am and 9 am were 20 mm at Cherryville and 19 mm at Stringybark.

Another front moved across the Adelaide region in the morning of the 4th, bringing a band of heavy showers. One of the showers spawned a small tornado, which caused damage along a 1 km path at McLaren Vale. Squally showers following the front affected the South East throughout the morning with a gust to 93 km/h recorded at Mount Gambier Airport.

In Victoria the SES received 500 requests for assistance between midnight on the 2nd and the 5th.

Strong winds and heavy rain uprooted trees and caused some building damage and network delays to metropolitan trains and one major arterial tram route. Some flash flooding was reported at Carisbrook near Maryborough and in Ballarat, while minor flooding occurred in north-central and northeastern parts of the State. Wind gusts in excess of 120 km/h were

recorded in the alpine region on the 3rd, and a gust of 137 km/h at Wilsons Promontory Lighthouse on the 4th, and 144 km/h at Hogan Island in the early hours of the 5th.

Thunderstorms and strong winds were reported in southeast New South Wales on the 4th, with wind gusts in excess of 90 km/h at several stations including Canberra and Cooma, reaching 107 km/h at Albion Park. The winds resulted in power cuts to more than 10 000 properties, with multiple reports of fallen trees and powerlines as well as roof damage at Cootamundra High School.

The winds also affected Tasmania, with gusts in excess of 100 km/h registered at sites across Tasmania and some damage reported. Winds were strongest in Tasmania on the 5th; Maatsuyker Island registered a gust to 159 km/h during the afternoon as the front passed. This is Australia's strongest October gust recorded in the climate database.

### 9th — Victoria, South Australia and Tasmania

Warm temperatures in Victoria's northwest met cold air driven by a cold front crossing the southeast during the 9th, causing very strong winds over much of Victoria, South Australia and Tasmania.

The Victorian SES, CFA and MFB collectively received more than 5220 calls for assistance during the 9th and 10th, with extensive damage over large areas. At least 20 people were taken to hospital on the 9th and a woman in her 50s was killed when a tree fell on her Millgrove home while two other people were seriously injured by trees falling onto houses in Badgers Creek and Tecoma. Disaster assistance was available in 48 councils across Victoria affected by floods and storms.

Blackouts occurred across a large number of suburbs, with more than 120 000 properties losing power across Victoria, and in parts of the Dandenong Ranges and Yarra Valley not reconnected until the 12th. The Melbourne botanic gardens, Healesville Sanctuary and Werribee Zoo were closed, and Melbourne Airport was reduced to a single runway with a number of flights diverted after being unable to land in high winds. Wind gusts in excess of 100 km/h were observed at Melbourne, Essendon, Avalon and Moorabbin airports on the 9th, while gusts to 91 km/h occurred at Coldstream to the northeast of Melbourne, 80 km/h at Olympic Park in the city, and 137 km/h at Mount Buller.

Central and eastern South Australia also experienced strong and gusty north to northwesterly winds ahead of the front. These winds were locally severe over the Mount Lofty Ranges during the morning of the 9th

with wind gusts of 109 km/h at Kuitpo and 96 km/h at Hindmarsh Island.

In Tasmania, kunanyi (Mount Wellington Pinnacle) recorded a gust to 156 km/h on the 9th, becoming the equal-second strongest October gust for Australia. Gusts in excess of 100 km/h were observed across Tasmania, with fallen trees and damaged roofs and power outages affecting at least 2000 premises lost power at some point, with a few experiencing lengthy outages.

### 15th and 16th — Victoria and Tasmania

On the 15th and 16th damaging winds again returned to most of southeastern Tasmania, Gippsland, the northeast and west of Victoria, with the southeastern suburbs of Melbourne and northeastern Victoria receiving the worst damage, although overall damage was much less than during the preceding week. The Victorian SES received 396 calls for assistance.

### 20th — South Australia and Victoria

During the afternoon of the 20th dry, gusty thunderstorms developed ahead of a cold front over the North West Pastoral district of South Australia. As the storms moved eastward during the evening short bursts of squally northerly winds just ahead of the front affected the Yorke Peninsula, Adelaide, the Mount Lofty Ranges, the Mid North and the Lower South East. There were numerous reports of sudden onset squally northerly winds of 2 to 10 minutes duration, which brought down trees and tree branches in various parts of Adelaide and across the Mount Lofty Ranges.

Winds of 60 to 65 km/h were observed at Cleve on the Eyre Peninsula. Gusts of 90 km/h to 95 km/h were recorded at Cleve, Whyalla, Edithburgh, Mount Crawford and Naracoorte, while Port Augusta topped out at a gust 104 km/h.

Wind gusts between 80 km/h and 100 km/h were recorded across the southwest of Victoria and Melbourne overnight on the 20th/21st ahead of the cold front. The SES reported 85 calls for assistance, mostly for fallen trees, and some areas experienced blackouts.

### 29th and 30th — Tasmania, South Australia and Victoria

A strong cold front and developing low pressure centre to the southwest of Tasmania brought a final

burst of strong winds near the end of the month. The SES responded to more than 350 calls for assistance in Victoria, mostly in the southwest, and to 100 requests in South Australia.

Thundery showers developed ahead of a low pressure trough late in the afternoon on the 29th over the West Coast district of South Australia, producing localised squally winds, but little rainfall as they moved eastwards across Eyre Peninsula and central districts during the evening. Gusts between 95 and 98 km/h occurred at Cleve and a gust to 102 km/h was recorded at Cape Willoughby on Kangaroo Island.

Short bursts of gale force westerly winds and squalls in the wake of a vigorous cold affected southern districts of South Australia through the afternoon and early evening of the 30th with gusts of 90 km/h to 100 km/h at Parndana on Kangaroo Island, at Mount Crawford in the Mount Lofty Ranges, and at Cape Jaffa and Naracoorte in the Lower South East. These winds caused scattered, mostly minor tree related damage.

Winds were generally strongest on the afternoon of the 30th in Victoria and Tasmania. 7500 Victorian properties lost power, mostly around Ballarat, but also in the State's east and Melbourne's southeastern suburbs, while 1200 properties lost power in South Australia.

### Bushfire in the Kimberley

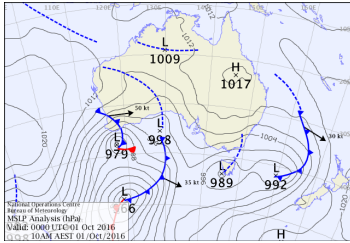
A lightning strike in late September ignited a bushfire in the Kimberley in Western Australia. By late October around a million hectares had been burnt, affecting several cattle stations.

### Snow

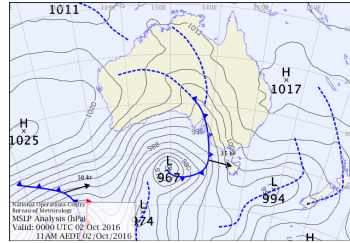
A cold front produced heavy snow in alpine regions at the start of October, with snow depths at Spencer's Creek (1830 m) increasing by 48.2 cm between 27 September and 6 October. This is one of the largest dumps on record so late in the season, and contributed to total snow depths remaining above 1 m throughout October. Depths did not drop below 1 m until 2 November, the latest end to the season since 1992.

# Synoptic analyses and summary

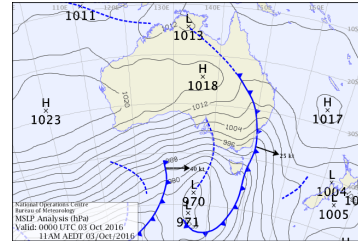
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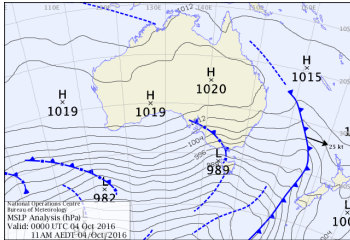
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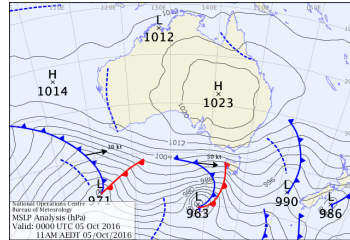
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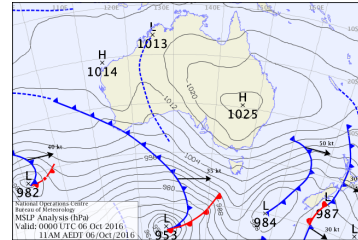
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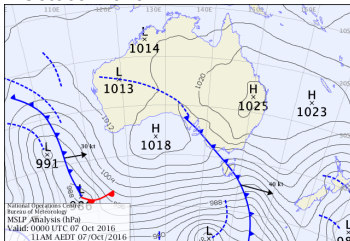
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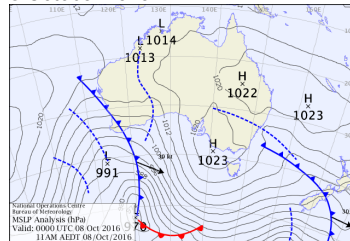
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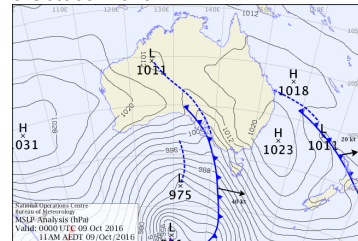
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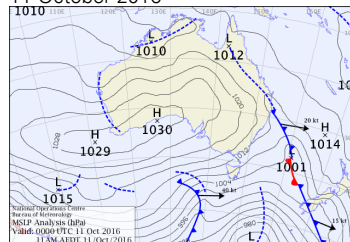


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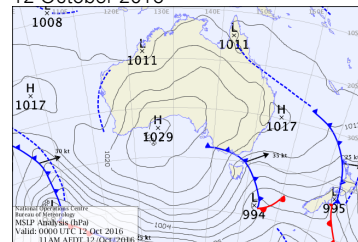


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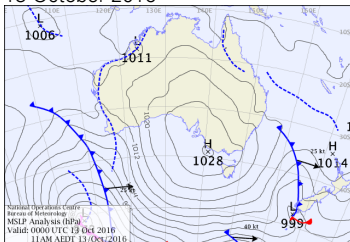
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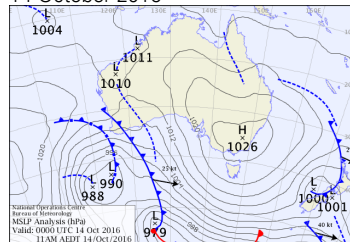
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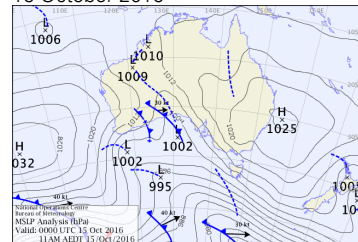
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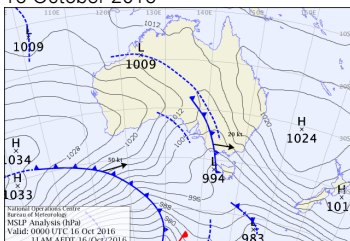
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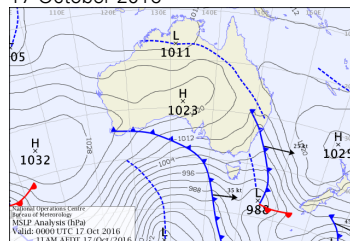
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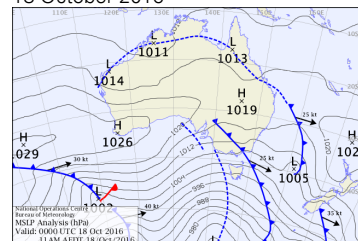
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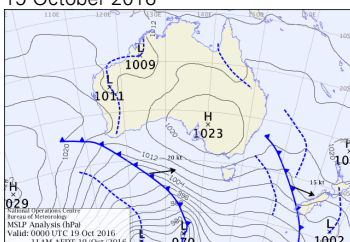
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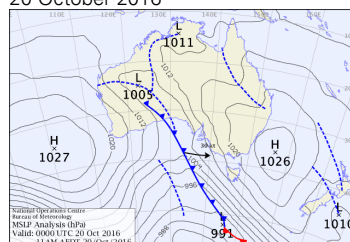
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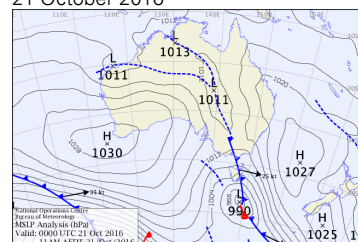
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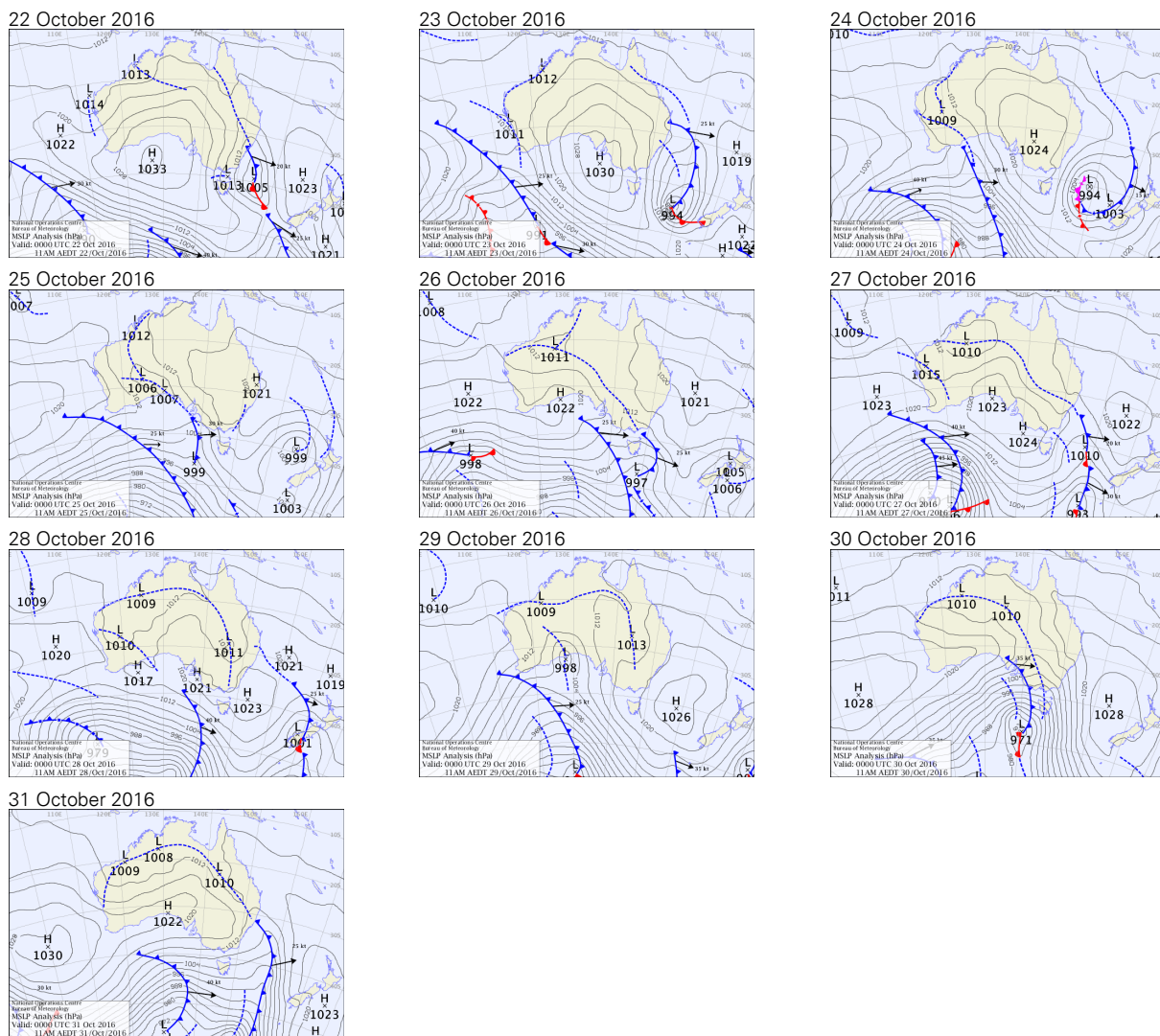
20 October 2016



21 October 2016







## Synoptic summary

Weather across southern Australia was dominated by frequent strong winds and vigorous cold fronts. Broad surface troughs influenced central and northern parts of the country throughout October.

The month began with a rapidly intensifying low pressure system to the south of Western Australia. This system tracked slowly to the east and southeast, to be located well south of Tasmania by the 4th, with a series of vigorous cold fronts associated with the low bringing strong winds to southern parts of Australia. A few days later, strong and gusty north to northwesterly winds were directed across central parts of South Australia and Victoria ahead of another vigorous cold front crossing the Great Australian Bight.

From the 12th a coastal trough extended across the tropical north and along the Queensland coast, while a large high pressure system tracked east over southern Australia to extend a firm ridge into southern and western Queensland in the wake of the trough. In the days following, a series of upper troughs extending over Queensland saw an increase in instability across much northern and eastern Australia.

Several cold frontal systems and a persistent south to southwesterly flow continued to bring strong and gusty winds to much of southeastern Australian and Tasmania through to the 24th. The last week of October saw a surface trough extend across Western Australia into Victoria, connected to a cold front over the southern Tasman Sea.

# Temperatures

October was cooler than average for Australia, with the national mean temperature 0.50 °C below the historical average. Western Australia recorded above average mean temperatures, with an anomaly of +0.33 °C.

Mean temperatures were the lowest on record in an area extending from central western Queensland to across the border into the Northern Territory. Mean temperatures were very much below average through central New South Wales, southern, western and central Queensland, and southern parts of the Northern Territory.

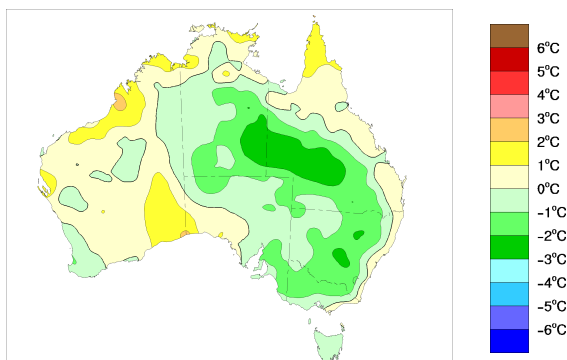
Much of Victoria, New South Wales, eastern and northern South Australia, the southern half of Queensland, the Northern Territory away from the Top End, and southwest Western Australia reported below average mean temperatures for October.

Above to well above average temperatures occurred along the coastlines of the Gascoyne, Pilbara and Kimberley, the Top End, Gulf Country and the Cape York Peninsula. Above average temperatures were also experienced in a small area around Ceduna in South Australia and an area along the eastern border of Western Australia.

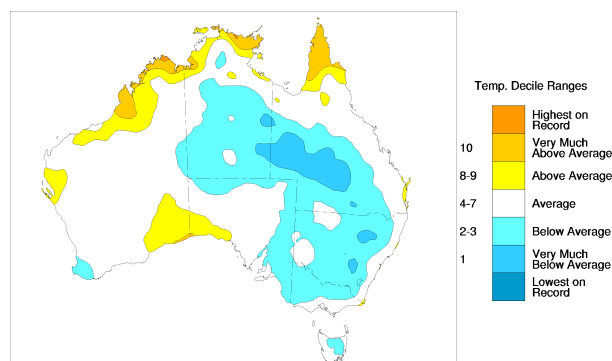
## Maximum temperatures

The mean daily maximum temperature for Australia was 0.29 °C below the historical average. All States and Territories recorded below average maximum temperatures, except Western Australia.

## Anomalies of mean daily maximum temperature in October 2016



## Decile rank of mean daily maximum temperature in October 2016



Daytime temperatures were below average in northeastern Tasmania, a small pocket of the southwest and central interior of Western Australia, and much of the Northern Territory away from the Top End. Similarly, below average maximum temperatures were also experienced in western and southern Queensland, most of New South Wales away from the east coast, eastern parts of South Australia, and a large part of Victoria excluding the south and east coasts. Well below average daily maximum temperatures were reported in central and western Queensland, and into adjacent eastern parts of the Northern Territory and small areas of New South Wales.

Above to well above average maximum temperatures were recorded along the border between South Australia and Western Australia, extending north into the Eucla district, and along the coastal region of northern Australia. Highest on record maxima were recorded in coastal pockets of the northern Kimberley and Arnhem Land.

Early in the first week, daytime temperatures in eastern States were well below average as an extensive cloudband formed a line from the Kimberley coast in Western Australia down to southeastern Australia, whilst a vigorous cold front tracked eastwards across the continent. Maximum temperatures were more than 6 °C below average across much of the eastern Australia.

A cold front tracked over the far southwest of Western Australia on the 9th, leading to cooler than average daytime temperatures west of the front, while east of the system, maxima were warmer than average in central and western regions of New South Wales and Victoria. Cooler air streamed into southeastern and eastern Australia as a low pressure system and associated cold front to the south of the continent tracked eastwards.

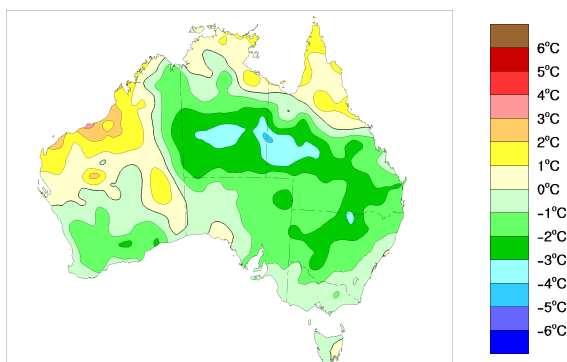
Cold conditions persisted across much of eastern and southern Australia until the 20th. Another vigorous cold front and trough system tracked across the continent the following day, generating an extensive cloudband from the northwest to southeast of Australia. Days were very much cooler than average in South Australia and western parts of the Northern Territory on the 21st. Daytime temperatures were well below average across much of the country, particularly on the 22nd and 23rd. Some locations in the Northern Territory had their coldest October day on record. Ahead of the cold front, temperatures in the eastern States were warmer than average.

Maxima were well above average in southern parts of Western Australia on the 23rd and 24th, but cooler elsewhere throughout Australia. Well above average maximum temperatures were experienced around southern Western Australia and in South Australia, particularly on the 28th and the 29th, as a result of warm northerly winds. A cold front and associated cloudband tracked across southern Australia at the end of the month, with cooler days experienced in the southern half of the continent at the end of the month.

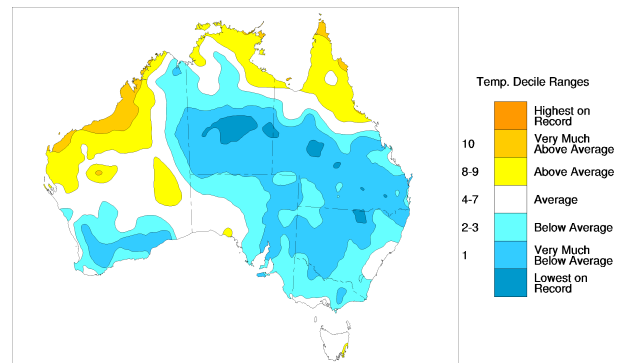
## Minimum temperatures

The mean daily minimum temperature for Australia was 0.73 °C below the historical average, with all States and Territories recording below average minima except for Western Australia and Tasmania. The Northern Territory had a minimum temperature anomaly of -1.56 °C, and its ninth-coolest October minimum temperature on record.

## Anomalies of mean daily minimum temperature in October 2016



## Decile rank of mean daily minimum temperature in October 2016



Below to very much below average minima were recorded across much of the Northern Territory except the Top End; the southern half of Queensland; most of New South Wales and Victoria; eastern and northern South Australia; the South West Land Division and south coast of Western Australia, and in the Kimberley and central interior of Western Australia bordering the Northern Territory. Small areas in the central interior of the Northern Territory, far western Queensland and northern New South Wales had their lowest mean minimum temperature on record.

Above to well above average minima were recorded along the Gascoyne, Pilbara and Kimberly coasts and adjacent inland districts, and parts of the southern interior in Western Australia; the Top End and parts of Arnhem Land in the Northern Territory; the Gulf Country; Cape York Peninsula and the north tropical coast of Queensland. Remaining parts of the country recorded near-average minima.

The month began with well below average minima across most of the continent, particularly in the southern interior of the Northern Territory and in western, central and southern Queensland. Cool nights were experienced over much of Australia during the first week, associated with thick cloud and rain areas. Some locations recorded their lowest October temperature on record.

By the end of the first week, large parts of Queensland and the Northern Territory remained cooler than usual. Strong and gusty northerly winds ahead of a cold front resulted in warm nights in Western Australia, South Australia and areas in the southeast up to the 10th.

A series of cold fronts swept across southern parts during the second week, generating strong westerly winds and allowing cold nights to dominate much of Australia. By the 14th, minimum temperatures in southern Western Australia were well above average, ahead of a surface trough. However, cool conditions returned and nights were much cooler than average

for large areas spanning from central and southern Western Australia, across southern parts of the Northern Territory and into western and southern Queensland, and northern New South Wales.

A complex low pressure trough and cold front tracked over the southern Australia between the 20th and 22nd. Warm nights were recorded ahead of the trough, while much cooler overnight temperatures occurred following the passage of the system. As the system progressed eastwards and passed over Tasmania, snow was recorded in elevated parts of Tasmania on the 22nd. For areas through central Australia, western Queensland and western New South Wales, minima were well below average through the area until the 25th.

Minimum temperatures from the 26th were well above the long-term mean in western regions of New South Wales, elsewhere overnight temperatures were close to average. Very warm nights occurred across the Gascoyne, northern and southern interior of Western Australia up to the 27th.

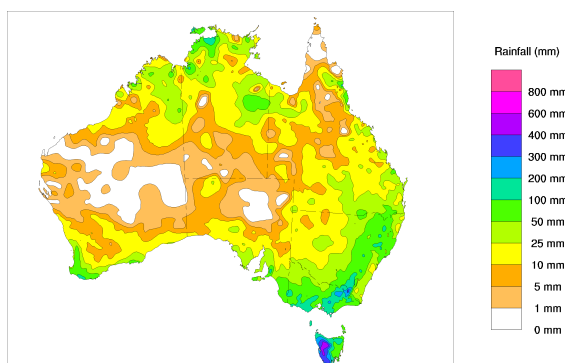
It was a very warm morning for much of the country on the 30th, except southwest Western Australia and parts of the east coast of Queensland, with inland areas especially warm. At the end of the month, warm nights persisted across the northern half of the continent, while cooler than average minimum temperatures were experienced in the south.



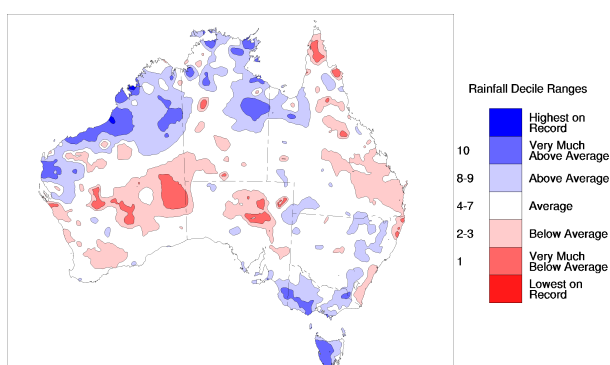
# Rainfall

For Australia as a whole, October rainfall was 13% below the 1961-1990 average. Tasmania had its seventh-wettest October on record.

## Total rainfall in October 2016



## Decile rank of total rainfall in October 2016



October rainfall was above to very much above average in the Pilbara and Kimberley districts in Western Australia, parts of the Top End in the Northern Territory, the Gulf Country, and a large part of Victoria and Tasmania. Below average rainfall was recorded in large areas of eastern and southeastern Queensland, about the northwestern Top End in the Northern Territory, across central, southwestern and along the west coast of Western Australia, and in pockets of the pastoral districts of South Australia. Remaining parts of the country recorded near-average rainfall for October.

At the beginning of the month, a strong cold front and associated low pressure system tracked over Tasmania, and produced moderate falls in the southeast, particularly in Tasmania and in elevated areas of the Victorian Alps and the Snowy Mountains.

A thick cloudband associated with another vigorous cold front and trough system tracked eastwards, producing moderate falls in northern and eastern parts of the Northern Territory, the Gulf Country, western and southern Queensland, and western New South Wales. Moderate to heavy falls were reported in Victoria and Tasmania. The highest daily rainfall total

was 121 mm at Mossman South Alchera Drive in the north tropical Queensland coast on the 5th.

A series of cold fronts tracked across southern Australia in the second week of October, with moderate falls recorded in southwest Western Australia and western Tasmania. A particularly strong frontal system produced damaging winds, and moderate falls recorded in parts of the southeast between the 9th and 11th.

Widespread, light falls were reported across most of Victoria and southeastern New South Wales, and moderate falls were reported in Tasmania on the 13th, as a westerly airstream tracked across the southeast. A moist, onshore flow produced moderate falls about the north tropical Queensland coast in the middle of the month.

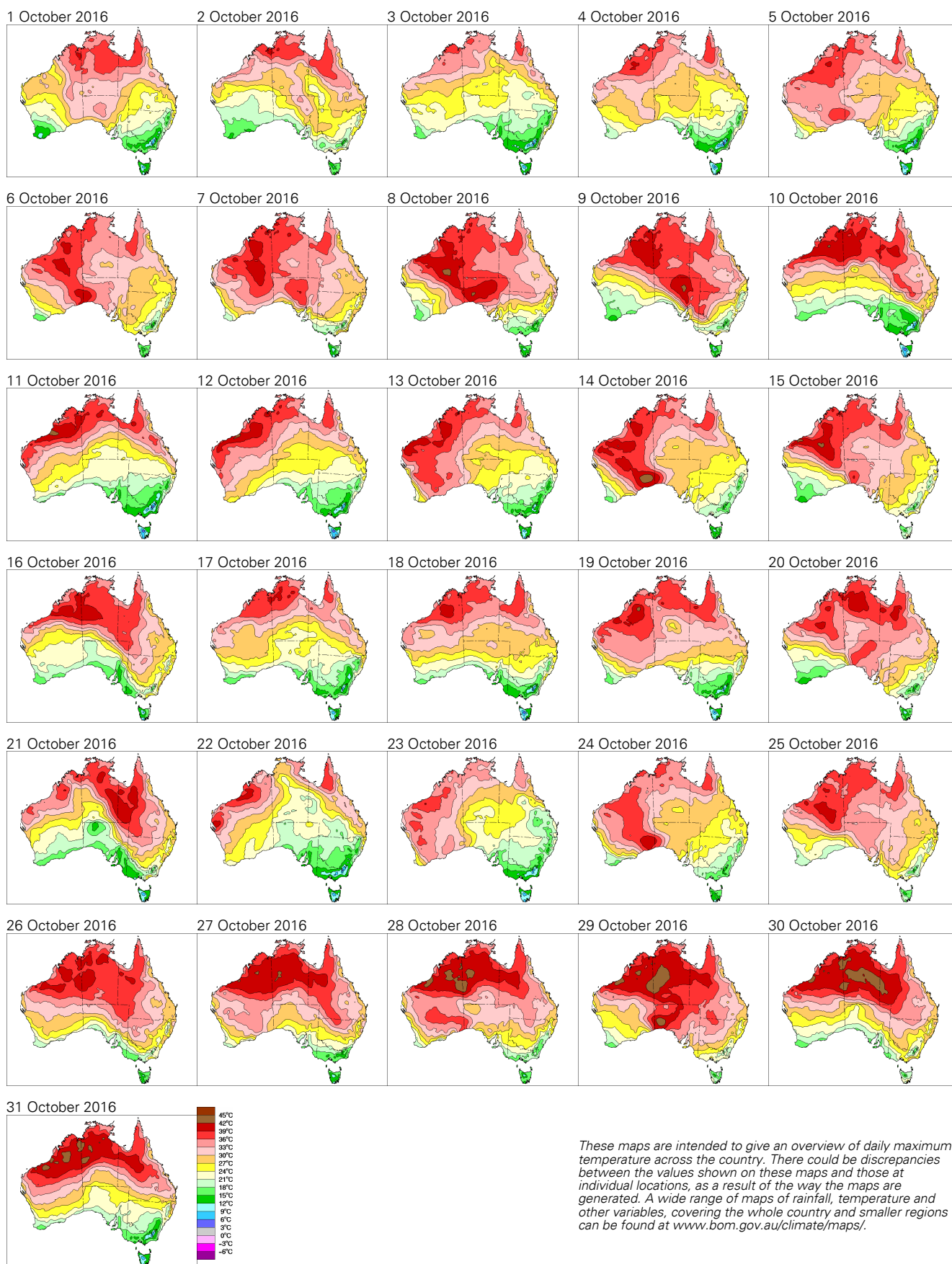
A significant cloudband with isolated thunderstorms moved across South Australia, Victoria and Tasmania on the 16th, with moderate to locally heavy falls reported in southeastern South Australia, central southern and northeastern Victoria, western Tasmania and elevated parts of the Snowy Mountains.

An upper-level and associated surface trough extended along the east coast of Queensland on the 17th, and produced thunderstorms and showers, with moderate falls along the east coast between St Lawrence in central Queensland to the central coast of New South Wales.

From the middle of the month, broad areas of low pressure extended across northern Australia. Isolated thunderstorms formed near and along the trough in the Kimberley and northern interior of Western Australia, the Northern Territory and parts of the Gulf Country between the 19th and 22nd. An extensive cloudband also stretched from the Northern Territory to southeast of Tasmania, generating moderate falls about the pastoral districts, southern and southeastern parts of South Australia, Victoria, Tasmania and eastern parts of New South Wales. As the system tracked eastwards, further falls were recorded in northeastern New South Wales, southeastern and the central coast of Queensland. At the end of the month, a surface trough and low pressure system over northern New South Wales brought moderate falls to northeastern New South Wales, and another trough system deepened over the east coast on the last day of the month, bringing moderate falls to the eastern parts of New South Wales, southern and eastern Victoria, and Tasmania. The wettest place overall was 605.4 mm at Mount Read in western Tasmania.

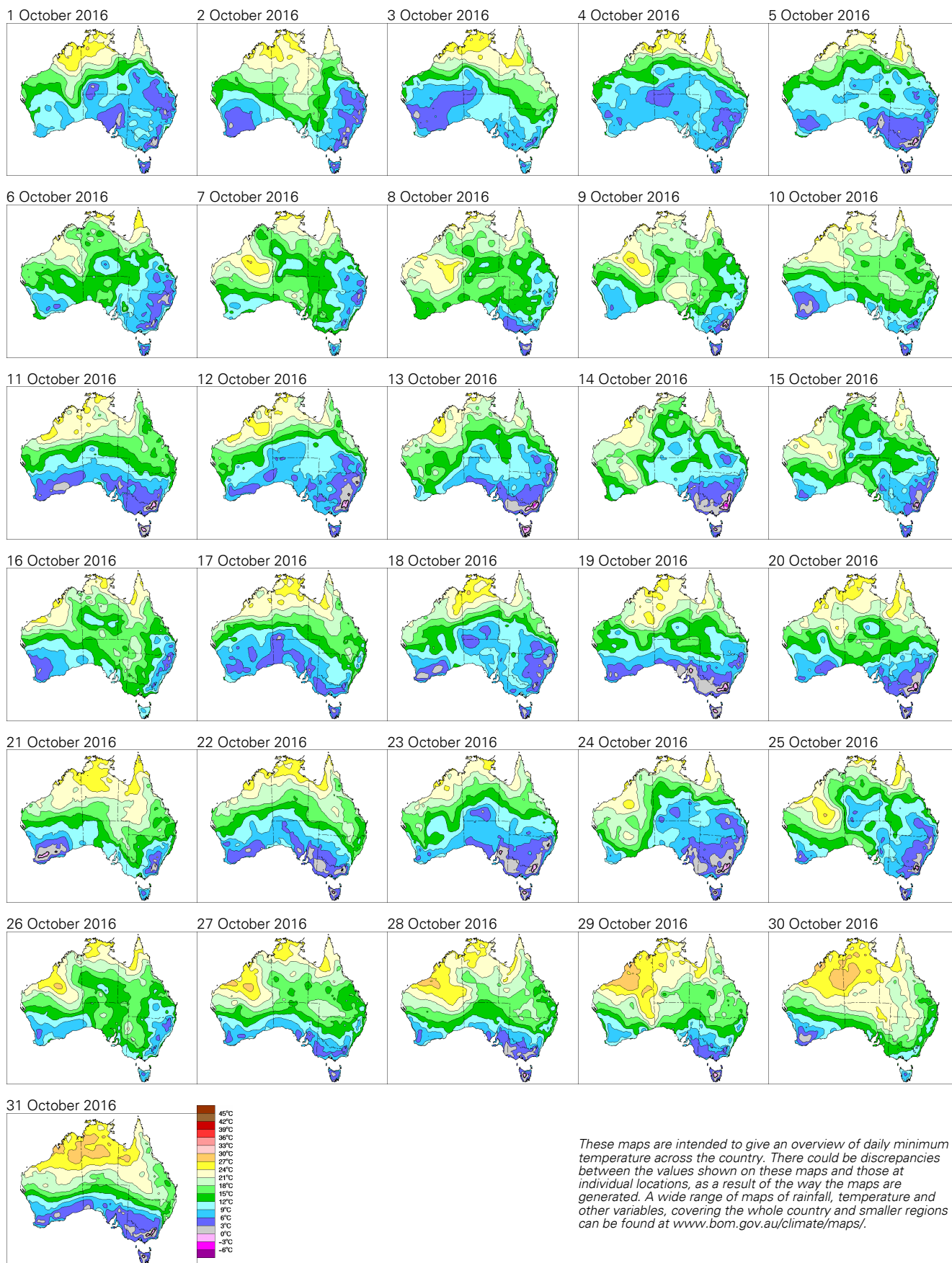
# Daily maps

## Daily maximum temperature maps

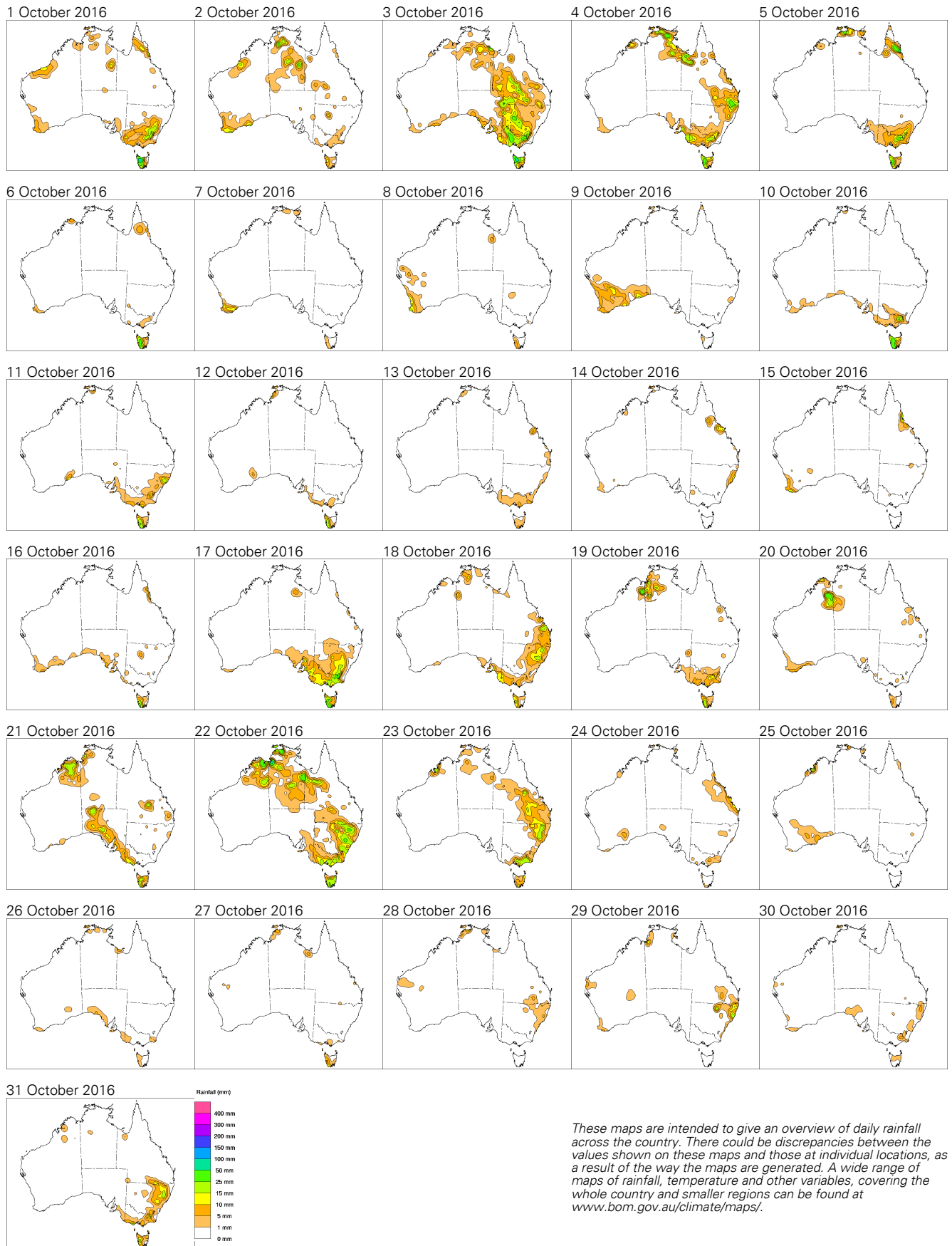


*These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables, 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



## Daily rainfall maps





# Records

## Record highest October mean maximum temperature

		New record	Old record	Years of record
Western Australia				
001007	Troughton Island	33.3 =	33.3 in 1998	39
= indicates the new record equals the old one.				

## Record lowest October daily maximum temperature

		New record	Old record	Years of record
Western Australia				
003030	Bidyadanga	24.3 on 1st	26.7 on 1st in 1958	57
Northern Territory				
014142	Pirlangimpi Airport	28.4 on 22nd =	28.4 on 9th in 1996	33
Queensland				
035065	Springsure Comet St	17.8 on 23rd	18.0 on 19th in 1984	51
039314	Seventeen Seventy	20.9 on 23rd =	20.9 on 9th in 1995	30
New South Wales				
075041	Griffith Airport AWS	13.3 on 10th	13.4 on 11th in 2012	42
= indicates the new record equals the old one.				

## Lowest October mean maximum temperature for at least 30 years

		Observed this month	Most recent lower
Queensland			
036031	Longreach Aero	30.8	30.6 in 1985
037010	Camooweal Township	34.0 =	34.0 in 1978 *
038003	Boulia Airport	31.6	30.5 in 1976
* 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.			

## Record lowest October daily minimum temperature

		New record	Old record	Years of record
Western Australia				
008225	Eneabba	3.4 on 5th	3.9 on 7th in 1992	43
New South Wales				
058158	Murwillumbah (Bray Park)	4.1 on 1st	5.2 on 17th in 1976	42

Record lowest October mean minimum temperature				
		New record	Old record	Years of record
Western Australia				
011019	Eyre	8.3 =	8.3 in 1996	58
Queensland				
036031	Longreach Aero	13.5 =	13.5 in 1976	51
New South Wales				
048027	Cobar MO	10.2	10.4 in 1986	55
054003	Barraba Post Office	5.4 =	5.4 in 2012	50
056013	Glen Innes Ag Research Stn	5.8 =	5.8 in 2003	43
056032	Tenterfield (Federation Park)	5.3	5.8 in 2012	102
= indicates the new record equals the old one.				

Lowest October mean minimum temperature for at least 30 years				
		Observed this month	Most recent lower	
Western Australia				
010111	Northam	7.4	6.8 in 1964 *	
010622	Ongerup	6.5	6.3 in 1980 *	
Northern Territory				
015085	Brunette Downs	18.9	17.2 in 1982 *	
015135	Tennant Creek Airport	19.7	19.1 in 1982	
015602	Jervois	12.9	11.3 in 1982	
Queensland				
035069	Tambo Post Office	11.5	10.9 in 1982	
036007	Barcaldine Post Office	16.4	15.5 in 1982	
036026	Isisford Post Office	13.8	10.7 in 1975 *	
037010	Camooweal Township	16.9	16.3 in 1982 *	
038003	Boulia Airport	15.8	14.8 in 1946	
040082	University of Queensland Gatton	10.6 =	10.6 in 1948 *	
040093	Gympie	11.5	11.3 in 1982 *	
040126	Maryborough	12.7	12.0 in 1982	
040211	Archerfield Airport	13.2	12.8 in 1948 *	
041095	Stanthorpe Leslie Parade	6.8	6.4 in 1956 *	
043015	Injune Post Office	9.9	8.3 in 1982	
043020	Mitchell Post Office	9.9	9.6 in 1982	
044010	Bollon Mary St	11.4	11.0 in 1976	
044021	Charleville Aero	12.5	12.2 in 1976	
044026	Cunnamulla Post Office	13.6	13.5 in 1986	
New South Wales				
055024	Gunnedah Resource Centre	9.8	8.9 in 1956 *	
058158	Murwillumbah (Bray Park)	12.3	11.4 in 1981 *	
075039	Lake Cargelligo Airport	9.1	9.0 in 1982 *	
Tasmania				
091009	Burnie (Round Hill)	6.7	6.3 in 1970	
* 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.				

Record highest October daily minimum temperature			
	New record	Old record	Years of record
Western Australia			
003030 Bidyadanga	28.0 on 29th =	28.0 on 27th in 1996	58
003032 Derby Aero	29.2 on 31st	28.6 on 6th in 1973	32
005007 Learmonth Airport	24.1 on 8th	23.7 on 23rd in 1983	42
005008 Mardie	26.5 on 28th	26.0 on 30th in 2004	60
<i>= indicates the new record equals the old one.</i>			

Record highest October mean minimum temperature			
	New record	Old record	Years of record
Western Australia			
001007 Troughton Island	27.6 =	27.6 in 1998	39
003057 Cygnet Bay	23.8	23.1 in 1988	30
<i>= indicates the new record equals the old one.</i>			

Record highest October mean temperature			
	New record	Old record	Years of record
Western Australia			
003030 Bidyadanga	29.9 =	29.9 in 1988	57
<i>= indicates the new record equals the old one.</i>			

Record lowest October mean temperature			
	New record	Old record	Years of record
Queensland			
036031 Longreach Aero	22.2	22.5 in 1978	51
<i>= indicates the new record equals the old one.</i>			

Lowest October mean temperature for at least 30 years			
		Observed this month	Most recent lower
Queensland			
035069	Tambo Post Office	20.0	19.7 in 1978
037010	Camooweal Township	25.5 =	25.5 in 1966 *
041095	Stanthorpe Leslie Parade	14.2	14.1 in 1978 *
043020	Mitchell Post Office	19.2	18.5 in 1978
043035	Surat	19.5	19.0 in 1978 *
044021	Charleville Aero	20.1	19.7 in 1978
New South Wales			
050052	Condobolin Ag Research Stn	15.2 =	15.2 in 1986
055024	Gunnedah Resource Centre	16.7	16.0 in 1976 *
056018	Inverell Research Centre	15.1	14.0 in 1976 *
073014	Grenfell (Manganese Rd)	13.5	12.7 in 1956 *
* 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.			

Record highest October daily rainfall			
	New record	Old record	Years of record
Western Australia			
003028 Anna Plains	11.8 on 2nd	8.6 on 20th in 1999	103
003059 Nita Downs	20.0 on 2nd =	20.0 on 6th in 1975	35
003066 Port Smith	10.0 on 2nd	6.4 on 7th in 1975	41
003073 Kimbolton	22.6 on 23rd	20.4 on 13th in 2006	32
004028 Pardoo Station	14.2 on 1st	12.2 on 28th in 1945	104
200790 Christmas Island Aero	195.8 on 13th	182.0 on 30th in 1978	44
Tasmania			
093035 Ross (Rose Villa)	34.4 on 22nd =	34.4 on 16th in 2009	47
097047 Savage River Mine	56.6 on 1st	44.6 on 9th in 1992	51
= indicates the new record equals the old one.			

Record highest October total rainfall			
	New record	Old record	Years of record
Western Australia			
003073 Kimbolton	49.8	43.2 in 2010	32
004032 Port Hedland Airport	8.6	8.2 in 1975	74
200790 Christmas Island Aero	754.4	474.4 in 1975	43
New South Wales			
071041 Thredbo Village	418.6	396.7 in 1974	45
Tasmania			
091149 Kimberley (Siding)	157.2	145.1 in 1973	50
091150 Western Creek (Somer Hill)	204.9	193.4 in 1988	52
091225 Burns Creek (Janefield)	131.0	125.2 in 1989	42
097072 Strahan Aerodrome	251.0	227.2 in 1988	31
= indicates the new record equals the old one.			



Highest October total rainfall for at least 30 years			
		Observed this month	Most recent higher
Western Australia			
003001	Country Downs	56.6	70.0 in 1975 *
003030	Bidyadanga	11.5	14.0 in 1979
004019	Mandora	11.6	31.2 in 1975
004028	Pardoo Station	14.6	16.5 in 1916 *
006084	Warroora	13.0	36.4 in 1984 *
South Australia			
023720	Hahndorf	150.1	153.8 in 1974 *
023722	Harrogate	94.4	103.1 in 1976 *
023799	Prospect Hill	146.2	182.6 in 1975 *
023834	Victor Harbor (Berrima)	106.8	117.4 in 1980 *
026016	Lucindale Post Office	85.0	94.0 in 1986
026017	Padthaway (Marcollat)	93.6	139.4 in 1975 *
026069	Lucindale (Greenvale)	78.4	109.0 in 1975
New South Wales			
061097	Moonan Flat (High St)	106.8	167.7 in 1972 *
Victoria			
078013	Gerang Gerung	80.4	137.4 in 1975
079011	Edenhope (Post Office)	112.0	163.0 in 1975
079071	Apsley (Post Office)	115.3	148.6 in 1975 *
083038	Tawonga	214.4	235.1 in 1955 *
087029	Lancefield	138.0	223.4 in 1975 *
089018	Lismore (Post Office)	135.4	149.3 in 1986
089022	Moutajup	101.8	119.1 in 1986
089074	Derrinallum (Post Office)	135.2	157.4 in 1975
090001	Apollo Bay	208.7	241.6 in 1949 *
090093	Hordern Vale	165.8	222.0 in 1976 *
Tasmania			
091019	Connorville (Lake River)	92.6	100.2 in 1986
091029	Dunorlan (Sharmans Road)	161.8	164.4 in 1986
091156	Weetah (Weetah Road)	156.8	176.8 in 1986
091161	Parkham (Avenue Road)	134.4	150.8 in 1986
092047	Stonehouse	111.6	112.3 in 1962 *
096002	Bronte Heights	192.2	193.7 in 1915 *
097014	Waratah (Mount Road)	355.4	564.5 in 1947 *
* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.			

Record lowest October total rainfall				
		New record	Old record	Years of record
New South Wales				
059139	Nana Glen (Cowling Close)	12.0	13.0 in 1988	58
= indicates the new record equals the old one.				

# Selected observations

## Daily and mean maximum temperatures for October 2016

	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	31	
<b>Western Australia</b>																																	
001019 Kalbarri	38.0	37.7	37.9	38.2	38.4	37.1	38.3	40.1	37.5	38.2	37.5	38.4	39.4	39.8	39.8	40.1	36.3	37.2	37.5	34.7	36.9	37.6	34.6	37.5	38.0	38.5	39.1	38.5	38.5	39.1	37.5	38.9	
002012 Halls Creek Airport	36.8	-0.2	36.1	32.8	34.0	36.2	36.5	37.9	37.5	37.9	39.5	39.7	38.5	37.2	36.5	37.1	36.8	38.4	36.6	37.6	36.1	34.7	29.5	33.5	32.6	32.6	35.5	38.2	39.6	40.6	39.6	40.2	
002056 Kununurra Aero	39.3	39.1	40.6	36.1	38.3	38.1	38.6	39.4	38.9	40.0	40.9	39.7	39.5	38.7	38.5	39.8	40.3	39.7	40.0	37.6	40.1	37.5	34.8	35.1	35.8	38.1	40.1	41.3	41.9	42.3	43.2	43.3	
003003 Broome Airport	34.1	+1.2	27.8	31.3	34.4	37.7	33.3	32.6	33.2	31.3	31.9	37.8	40.1	32.5	34.0	32.6	32.0	39.0	37.2	38.1	32.1	31.9	32.5	37.3	34.6	36.5	33.2	32.6	32.8	33.6	33.2	34.6	34.3
003032 Derby Aero	37.9	33.9	33.6	36.9	38.6	37.1	37.6	39.3	39.8	38.6	37.5	37.2	38.1	39.6	39.0	37.7	36.4	38.8	37.5	36.6	37.0	38.2	38.6	35.8	35.2	38.1	39.9	40.6	40.5	39.3	40.3	38.9	
004032 Port Hedland Airport	36.8	+2.1	26.0	33.7	33.2	33.2	35.6	35.6	35.7	39.6	36.5	39.2	40.4	41.7	40.0	35.3	41.7	37.5	35.5	37.3	37.7	31.5	32.4	37.8	36.4	34.4	36.2	36.9	40.2	39.3	39.3	40.7	39.0
004083 Karratha Aero	34.2	27.2	31.6	31.0	30.4	33.9	34.7	33.8	34.5	32.5	35.4	36.5	38.7	33.7	36.9	33.4	31.4	33.8	34.5	31.5	33.7	33.7	35.5	33.6	33.3	35.7	35.8	36.9	38.3	36.5	37.5		
004106 Marble Bar	38.6	24.6	32.7	32.9	35.0	38.4	39.6	40.4	41.3	38.4	37.5	38.9	40.5	41.8	42.5	34.9	33.5	36.7	39.9	39.1	38.0	37.8	39.6	39.3	39.7	41.1	41.1	42.9	41.2	41.9	43.5		
005007 Leamonth Airport	32.4	27.8	29.2	31.4	33.0	32.0	31.3	30.0	29.0	28.8	34.7	33.0	37.0	39.4	37.2	33.0	34.4	30.9	33.0	34.1	31.4	34.7	30.7	33.9	31.5	32.6	29.4	32.1	30.8	28.6	36.0	34.6	
006011 Carnarvon Airport	28.0	+2.0	23.7	24.7	22.9	27.6	29.1	28.2	29.4	23.4	25.0	29.5	38.6	33.5	32.8	26.7	24.1	27.4	31.8	32.2	25.5	26.2	31.4	38.7	30.0	25.1	26.9	26.7	24.7	25.5	25.1	26.2	25.6
006044 Denham	25.8	23.5	21.0	23.5	25.0	28.4	25.0	27.5	23.0	21.5	25.5	36.5	31.0	28.0	24.5	21.0	25.0	25.0	26.5	23.0	21.5	28.0	36.5	30.0	26.0	22.5	27.0	24.5	26.5	25.0	23.9	24.0	
007176 Newman Aero	34.2	30.8	26.3	28.7	31.0	34.7	37.2	38.1	38.7	31.5	32.1	32.7	34.7	37.4	39.0	36.9	27.9	30.6	29.3	36.2	34.9	30.9	32.3	35.9	36.4	36.0	35.9	35.6	36.0	35.6	35.9	39.5	
007185 Paraburdoo Aero	34.5	29.1	26.7	30.5	32.8	36.3	36.8	37.8	36.0	29.7	34.1	36.1	37.5	39.0	40.0	34.9	31.3	32.4	31.6	36.6	34.3	34.4	36.1	37.5	36.7	34.4	32.3	31.8	35.0	32.8	35.5	38.4	
007045 Meekatharra Airport	30.1	+0.7	23.9	22.7	24.6	28.2	33.6	31.8	30.9	26.8	23.5	28.2	30.8	33.5	37.6	37.8	25.1	25.1	30.1	32.5	34.8	25.9	26.3	30.4	35.8	35.7	28.2	31.5	33.1	35.3	27.9	29.0	33.8
007600 Mount Magnet Aero	28.8	23.8	21.3	23.6	27.0	33.4	29.5	33.5	24.1	20.0	26.0	30.0	33.4	37.7	32.5	23.5	24.2	28.4	29.7	32.5	22.4	24.3	30.0	36.5	34.7	26.3	30.0	34.2	35.6	26.5	27.3	31.9	
008296 Morawa Airport	27.3	21.1	19.7	24.4	26.7	30.9	28.2	28.9	23.7	21.1	25.0	31.0	36.2	35.9	26.6	20.9	24.4	27.1	28.9	27.0	22.9	25.1	32.0	35.4	28.6	24.9	28.8	30.7	30.1	25.0	26.4	30.1	
008297 Dalwallinu	25.6	19.5	18.9	22.8	24.9	29.0	27.6	29.3	21.3	19.5	21.9	28.3	33.8	34.6	25.5	18.0	21.7	24.0	25.5	24.3	20.4	22.9	29.6	35.9	28.5	23.4	27.3	28.7	28.9	25.2	23.8	27.3	
008315 Geraldton Airport	24.7	22.1	19.7	21.1	25.1	29.2	24.4	25.9	20.5	20.9	25.6	31.8	37.3	27.5	23.5	20.3	22.5	23.2	24.6	21.3	21.8	28.1	32.9	30.9	23.9	22.1	24.3	23.7	23.1	23.5	23.5	23.2	
009021 Perth Airport	22.0	-0.3	16.2	17.5	19.0	21.1	23.6	21.8	24.7	18.7	19.0	20.9	26.1	32.6	24.9	20.8	17.8	20.4	20.1	21.8	19.8	19.4	22.0	28.5	29.3	22.1	20.3	22.6	22.6	22.2	20.5	21.9	22.9
009131 Jurien Bay	23.0	20.0	19.7	21.7	23.9	21.5	22.7	19.8	20.0	23.3	30.6	31.5	24.1	22.4	19.6	21.2	21.3	24.1	21.4	20.0	26.0	30.5	26.0	22.9	22.0	22.7	22.7	22.4	22.9	21.9	20.7		
009225 Perth Metro	21.8	16.5	17.5	18.8	21.0	23.2	22.4	24.3	18.8	18.2	20.7	26.2	33.1	24.5	21.4	17.2	19.4	19.8	21.6	19.8	19.1	22.0	28.5	29.5	22.0	21.4	22.3	21.9	22.4	20.0	21.2	22.5	
009240 Bickley	19.2	12.7	14.3	15.3	17.7	21.1	18.6	22.8	14.3	15.0	18.7	22.6	29.8	23.4	18.3	14.3	17.1	17.8	19.9	16.2	16.8	19.6	26.0	27.3	19.1	17.3	20.9	20.8	20.5	16.3	20.4	21.8	
009518 Cape Leeuwin	17.9	-0.6	14.1	15.8	17.1	19.0	18.8	17.7	21.7	17.1	16.1	17.2	17.9	24.0	18.9	16.0	16.5	15.6	17.4	17.2	16.8	16.3	17.1	24.3	19.6	18.2	17.4	19.1	18.9	16.8	16.5	18.8	
009617 Bridgetown	18.6	11.9	16.1	18.6	18.1	19.3	16.3	19.1	17.4	15.5	17.3	20.3	27.0	22.6	17.0	14.2	16.5	16.7	18.0	17.8	14.9	17.6	23.4	25.8	19.8	18.8	19.1	21.7	21.0	18.5	15.9	19.0	
009746 Wiltchiffa	18.2	14.0	16.1	16.7	17.5	19.2	17.2	21.2	17.5	16.1	16.9	19.8	27.3	20.0	15.8	15.7	15.6	17.0	17.6	16.9	15.1	18.0	23.3	22.6	17.9	17.9	19.6	19.6	20.0	17.5	16.1	18.5	
009789 Esperance	20.8	19.6	14.7	21.2	22.8	22.4	24.4	28.9	26.4	17.2	16.0	16.1	24.0	35.6	25.0	17.2	16.4	16.8	17.3	20.1	14.8	15.6	21.9	32.2	20.0	20.1	19.8	21.1	19.1	22.0	17.0	17.9	
009965 Bunbury	19.3	15.3	17.1	17.9	20.4	17.2	19.3	18.7	17.1	17.7	19.9	29.7	20.1	19.2	17.1	18.0	19.3	17.3	18.1	17.6	19.8	24.0	23.6	18.6	18.7	19.9	20.3	20.0	19.0	17.8	18.9		
009977 Mandurah	20.6	16.0	18.0	18.2	19.2	19.6	20.7	20.8	18.6	18.8	19.7	24.7	29.0	22.1	20.1	17.5	18.9	19.4	19.1	20.1	18.1	21.4	25.1	27.0	20.3	18.2	21.3	22.4	22.3	20.5	19.6	20.7	
009998 Albany Airport	18.6	12.9	15.1	17.5	20.7	22.9	15.9	21.9	19.3	15.6	15.1	18.2	24.1	27.0	20.7	14.2	16.8	16.0	16.0	19.3	14.3	15.5	22.9	27.7	17.1	19.2	18.2	21.7	21.8	17.5	15.8	17.2	
010007 Bencubbin	24.9	-0.1	19.1	18.0	21.1	24.2	28.8	27.0	29.2	24.6	17.8	20.4	26.0	31.9	35.0	25.4	17.0	20.2	22.7	23.6	24.0	18.6	21.5	28.5	35.6	28.2	23.0	26.4	28.2	30.5	23.9	26.2	
010092 Merredin	24.7	+0.4	17.0	17.0	21.4	24.0	28.4	25.6	30.0	21.7	18.6	20.8	25.0	30.0	35.0	25.8	18.0	22.4	24.5	23.3	24.2	20.4	21.4	26.0	35.0	29.2	24.2	27.5	28.5	30.3	22.5	22.8	26.3
010286 Cunderdin Airfield	25.0	17.2	18.6	22.3	23.4	27.4	26.1	29.3	18.4	20.2	21.1	26.6	32.9	34.0	24.7	19.8	22.1	24.0	23.5	23.4	20.5	22.4	28.9	36.7	27.7	24.0	27.1	28.5	30.0	23.4	23.0	26.3	
010633 Ravensthorpe	22.3	+0.1	15.6	16.0	21.0	23.0	26.0	24.0	27.8	20.2	19.0	18.0	21.0	28.0	34.0	26.0	17.2	19.0	17.0	18.0	22.0	15.2	24.3	34.0	21.0	23.0	22.0	25.0	26.8	23.0	19.0	19.0	
010911 Lake Grace	22.6	15.1	16.4	21.3	22.4	25.7	24.1	27.9	19.0	17.8	19.2	32.1	28.9	33.8	24.1	17.2	19.3	19.5	20.1	21.0	17.0	19.3	25.7	34.9	22.5	22.2	25.0	25.9	28.5	22.5	20.2	21.3	
010916 Katanning	19.8	12.0	15.1	17.9	19.1	21.8	18.3	22.5	18.2	14.9	16.0	20.7	27.4	28.0	19.9	15.4	17.3	18.2	18.4	18.2	14.9	18.2	25.0	30.2	18.9	19.9	21.8	22.4	24.6	21.4	19.1	19.5	
010917 Wandering	20.4	13.6	15.5	17.0	19.5	22.3	20.2	23.8	17.6	16.3	17.3	22.1	27.6	26.8	19.7	15.8	18.9	19.0	19.7	18.7	16.4	19.5	25.2	30.1	18.4	19.9	23.1	23.5	24.3	20.2	19.6	21.4	
011003 Eucla	25.9	+2.1	28.3	19.7	24.0	28.9	35.3	39.5	29.1	36.3	20.7	17.6	17.9	21.1	31.0	39.2	23.5	18.3	21.4	18.9	26.5	19.8	17.5	20.5	30.2	37.5	20.4	22.4	27.4	36.8	38.8	18.3	18.7
011052 Forrest	27.9	29.1	19.3	23.3	28.6	34.2	38.8	33.6	36.8	23.6	20.7	21.7	32.1	32.6	38.7	29.5	21.0	24.6	22.6	31.1	25.6	19.7	21.8	29.9	37.8	24.9	25.1	28.6	35.6	36.1	22.2	24.3	
012038 Kalgoorlie-Boulder Airport	26.3	+0.5	23.0	18.4	23.4	26.7	32.1	29.9	33.6	24.2	19.6</																						

# Daily and mean maximum temperatures for October 2016

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	31		
048027 Cobar MO	24.8	-0.9	20.7	25.2	19.0	21.2	21.2	26.5	29.3	28.5	30.0	24.0	18.0	18.7	20.6	23.2	26.7	31.2	18.9	24.6	21.5	25.7	31.4	17.4	20.1	22.7	28.4	29.3	30.7	30.8	33.3	29.1	20.6	
048245 Bourke Airport AWS	28.1		23.1	27.7	22.1	23.9	24.5	28.8	31.9	34.2	34.7	33.7	21.6	22.6	24.3	25.6	29.2	33.1	21.5	26.6	25.6	29.2	33.9	19.7	22.2	24.6	29.5	33.7	36.9	33.7	35.9	33.0	24.9	
049000 Ivanhoe Aerodrome AWS	24.6		21.1	27.5	19.0	22.5	22.2	27.5	30.1	24.1	31.1	14.8	18.1	17.7	19.6	24.5	27.7	31.5	21.0	24.3	20.5	28.3	30.9	18.0	20.4	22.8	29.5	32.8	25.5	26.8	32.6	30.4	20.8	
050052 Condobolin Ag Research Stn	22.3	-2.5	18.9	23.5	17.3	21.1	18.9	25.0	27.7	24.8	24.8	20.6	16.8	17.3	19.0	21.2	24.4	27.4	17.7	22.3	18.0	23.0	28.0	16.7	19.5	20.9	25.5		26.1	27.6	30.4	25.2	18.8	
051039 Nyngan Airport	25.5	-1.1				25.0	21.6	26.0	28.5	30.0	28.0	25.7	18.7	19.7	21.2	23.0	26.0	29.5	19.5	24.5	22.5	26.0	31.2	18.6	20.8	23.0	27.0	31.0	32.0	32.0	32.6	29.5	21.5	
052088 Walgett Airport AWS	26.9		22.8	25.8	21.5	22.9	22.9	26.4	28.9	32.5	30.9	34.0	20.3	21.4	23.3	24.5	26.7	29.3	21.2	25.5	26.1	28.9	32.5	18.6	22.1	24.5	28.6	32.7	36.5	31.4	31.9	32.8	25.0	
053115 Moree Aero	25.7		21.4	24.7	18.2	21.2	21.4	24.5	27.7	30.4	31.2	30.7	20.3	20.6	23.0	23.6	25.3	27.3	20.1	23.9	27.2	28.8	30.8	21.4	20.4	22.2	26.4	30.1	32.8	31.1	31.1	32.1	26.3	
054038 Narrabri Airport AWS	24.7		21.0	24.5	17.2	20.6	22.1	24.4	27.3	29.9	29.4	29.0	20.8	21.2	22.0	22.8	24.5	26.2	19.6	22.7	25.7	26.7	29.3	19.5	19.7	22.2	25.0	28.2	31.2	27.1	29.8	29.2	25.8	
055024 Gunnedah Resource Centre	23.5	-1.4	20.2	23.2	16.3	20.2	20.4	24.0	25.2	26.7	27.1	26.6	28.0		19.5	19.8	21.5	23.4	25.6	19.8	21.3	23.2	25.1	27.7	19.3	18.7	20.9	24.3	26.8	30.4	27.2	28.3	28.1	23.9
055325 Tamworth Airport AWS	22.9		19.9	22.9	16.1	19.0	19.4	22.3	24.5	25.0	26.9	28.0		18.8	19.7	21.4	22.4	24.2	19.0	20.6	23.6	24.5	27.3	19.9	18.7	19.9	23.4	25.5	29.3	25.9	28.0	27.5	23.6	
056242 Inverell (Raglan St)	22.5		18.5	22.9	16.3	18.0	21.0	23.0	25.7	26.5	26.5	27.0	21.0	19.5	21.0	21.0	22.1	23.2	17.4	20.0	23.0	24.0	24.8	17.9	18.8	19.6	23.0	25.2	28.0	26.3	25.9	26.0	23.4	
057095 Tabulam (Muirie)	23.7		21.0	25.1	20.6	20.9	23.1	25.6	27.8	28.6	17.2	27.7	23.1	22.0	21.9	19.3	21.0	23.7	24.0	23.7	26.0	25.0	25.3	19.3	18.0	22.7	25.2	27.8	26.4	25.6	23.8	26.2	26.7	
058012 Yamba Pilot Station	25.1	+2.1	27.9	24.6	23.7	27.1	23.4	25.5	25.8	33.0	21.1	26.4	21.4	23.4	21.2	21.2	22.7	26.3	28.2	21.9	25.8	23.5	27.6	23.8	19.5	22.2	24.4	28.2	28.7	25.5	25.6	27.2	31.0	
060139 Port Macquarie Airport AWS	24.2		26.0	24.3	22.8	25.8	24.0	25.2	26.7	27.7	22.5	28.3	22.4	21.1	18.5	20.1	22.1	26.0	23.4	22.6	26.0	21.6	26.5	22.0	20.1	21.2	22.9	27.1	30.2	24.2	25.1	27.5	27.2	
061078 Williamtown RAAF	24.2	+0.8	22.2	26.9	26.3	23.4	24.1	28.2	30.2	25.9	23.4	33.4	21.7	22.0	16.0	18.9	24.7	28.8	22.3	25.0	24.0	22.4	28.1	19.4	18.7	19.4	26.5	29.2	23.5	20.1	26.0	30.4	21.3	
061363 Scone Airport AWS	23.4		20.8	23.9	19.8	21.3	20.7	24.3	26.9	26.3	24.6	29.3	18.9	20.7	18.8	21.4	24.4	26.4	20.8	21.6	23.2	25.3	27.5	16.0	18.5	21.3	24.0	27.1	30.2	21.6	27.8	28.4	23.5	
062101 Mudgee Airport AWS	20.9		16.4	21.7	16.0	17.4	16.9	23.1	24.3	25.3	21.8	25.9	15.3	17.5	18.9	19.9	21.5	24.6	13.3	19.5	18.5	21.9	25.8	15.9	18.3	19.2	21.6	25.3	27.9	23.6	26.9	25.9	17.8	
063005 Bathurst Agricultural Station	18.4	-1.1	12.2	19.8	14.1	15.6	14.7	19.6	22.0	22.5	20.6	22.2	11.4	13.3	17.0	17.7	20.0	22.5	12.7	17.0	14.4	19.4	23.0	12.6	14.1	17.9	20.0	23.5	25.5	21.6	25.2	23.0	13.9	
063254 Orange Agricultural Institute			11.0		16.7	12.9	11.9	17.9		20.5							19.1	10.0	14.2	11.3	16.5				20.3	14.9		20.1	22.0		21.5	12.0		
064008 Coonabarabran (Showgrounds)	21.6	-2.6	17.5	23.0	16.0	18.0	19.0		25.0	26.9	25.5	28.0	15.6	17.5	19.0	21.0	22.0	24.0	13.5		20.5	23.0	27.0	14.4	17.8	19.5	23.5		29.5	25.0	28.0	25.5	20.0	
065070 Dubbo Airport AWS	22.4		18.9	23.2	18.6	19.5	18.2	23.9	25.4	24.3	24.9	26.1	16.4	18.2	19.8	20.9	23.0	26.2	15.2	21.5	19.1	22.6	27.7	17.3	19.3	20.3	23.7	27.5	29.3	27.6	29.3	27.1	19.1	
066062 Sydney (Observatory Hill)	23.9	+1.6	22.1	24.7	25.6	23.4	23.7	27.8	31.0	22.2	25.5	33.6	21.3	23.6	18.3	21.3	23.9	29.0	22.4	25.8	24.5	21.6	25.2	18.0	19.8	21.5	23.3	27.0	21.7	19.6	24.3	25.5	23.3	
067105 Richmond RAAF	25.2		20.9	27.5	24.8	23.6	22.9	28.2	30.6	25.7	24.3	34.0	21.1	22.5	19.8	22.2	28.0	30.4	19.8	25.7	24.2	24.0	29.8	22.6	21.6	23.3	28.5	30.8	26.3	19.0	24.7	28.9	24.3	
068072 Nowra RAN Air Station AWS	22.3		20.3	25.9	21.7	20.7	19.2	26.0	28.1	16.8	21.7	27.4	19.9	20.9	17.3	20.3	27.3	30.1	21.2	22.9	19.9	21.4	27.2	14.7	17.7	19.4	26.9	27.8	17.3	18.3	23.6	27.3	21.9	
068151 Jervis Bay (Point Perpendicular)	20.3		19.3	23.5	21.6	19.9	18.7	25.2	26.6	15.9	20.7	25.5	17.0	18.4	14.8	17.6	24.2	26.2	19.1	22.0	17.4	21.0	23.7	13.2	14.0	17.0	22.7	24.4	16.6	18.0	21.7	24.2	18.8	
068241 Albion Park (Wollongong Airport)	23.9		25.3	24.4	22.4	21.6	27.4	29.1	17.8	20.9	29.8	22.8	22.8	19.9	21.6	26.3	31.3	23.8	27.0	24.3	23.6	25.9	20.9	19.1	22.6	23.9	26.4	20.7	20.2	23.9	28.3	22.4		
069018 Moruya Heads Pilot Station	21.5	+1.7	22.5	21.6	24.8	22.5	21.8	23.4	29.0	17.9	23.8	26.1	19.2	19.0	17.2	17.2	27.7	29.3	19.5	23.5	18.2	18.4	25.7	18.4	16.9	19.0	20.9	22.7	16.8	17.6	19.9	26.4	20.7	
070351 Canberra Airport	18.5		14.1	19.4	14.3	14.0	14.6	21.2	22.9	18.9	17.4	18.6	14.2	16.0	16.2	18.9	20.0	23.6	16.1	17.5	16.0	19.4	21.6	13.8	16.4	18.2	20.7	24.1	23.2	18.6	24.0	21.5		
071041 Thredbo Village	11.2		7.1	15.0	6.0	5.0	8.5	12.0	14.5	14.0	17.0	6.5	6.0	7.5	10.0	13.0	14.0	15.5	7.5	5.5	8.3	12.5	16.5	6.0	7.0	14.0	13.5	17.0	12.0	16.3	18.2	15.5	6.5	
072150 Wagga Wagga AMO	19.8	-1.5	14.8	21.6	15.6	17.5	16.0	21.5	25.4	21.4	20.8	11.8	14.2	16.8	18.0	20.3	22.2	25.6	17.5	18.7	15.9	20.3	23.8	15.8	17.6	19.7	23.1	25.2	22.1	23.4	26.8	23.2	16.8	
072160 Albury Airport AWS	19.7		14.9	21.7	15.1	15.0	15.7	21.6	23.8	22.1	20.9	14.8	14.8	16.7	18.5	20.7	22.4	24.9	17.6	16.4	16.2	19.4	23.7	16.2	17.6	19.0	22.9	24.6	22.2	23.3	25.7	24.3	17.0	
072161 Cabramurra SMHEA AWS	9.3		4.6	11.8	3.6	3.3	3.4	9.4	14.4	14.0	13.9	3.8	0.8	3.4	9.5	11.0	12.6	14.6	5.7	4.4	7.2	11.4	14.4	2.7	6.0	10.1	12.0	16.8	14.3	14.3	16.6	13.8	5.2	
074258 Deniliquin Airport AWS	21.0		16.4	23.7	15.8	16.4	18.5	24.7	24.7	19.3	25.1	15.4	16.1	17.1	17.5	21.5	24.9	25.4	18.4	18.4	17.6	23.6	24.6	16.3	18.2	20.5	27.0	26.5	20.5	23.3	27.6	28.0	19.3	
Victoria	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	31		
076031 Mildura Airport	23.5	-0.4	20.3	26.0	18.0	18.5	22.9	29.1	31.1	22.2	36.2	17.5	17.4	18.8	20.2	23.7	28.7	22.7	19.4	20.3	19.6	29.1	21.0	17.9	19.2	23.2	30.3	27.8	23.3	25.8	30.8	26.3	20.8	
078015 Nhil Aerodrome	19.4		16.1	20.2	14.2	15.1	17.3	27.5	21.9	19.1	26.6	14.9	14.7	16.9	17.5	23.3	27.3	16.3	16.4	14.1	16.7	26.5	14.1	14.4	15.9	20.5	27.9	19.1	18.9	21.4	27.8	20.7	17.5	
080023 Kerang	21.4	-1.0	17.1	22.6	15.9	17.0	20.3	27.2	23.9	19.6	26.5	16.4	17.0	18.3	18.0	21.5	25.0	24.0	17.2	19.5	17.7	25.0	21.7	16.7	17.9	21.7	28.4	26.0	20.8	24.0	27.0	27.7	20.3	
081123 Bendigo Airport	18.9		13.9	20.1	13.2	15.5	16.2	24.1	21.4	18.1	21.9	15.2	14.5	17.0	16.4	20.1	23.8	22.2	16.2	16.2	16.1	22.0	18.1	14.0	14.7	19.3	26.1	24.1	17.4	22.8	24.7	24.4	17.0	
082038 Rutherglen Research	19.2	-1.6	14.9	21.2	14.9	14.3	14.9	21.4	22.5	20.5	19.8	14.5	14.2	16.5	17.3	20.1	22.8	23.6	17.0	15.8	15.7	19.6	24.4	14.8	17.2	18.8	23.5	24.3	20.9	22.4	25.2	25.7	16.2	
083085 Mount Hotham	4.6																																	

## Daily and mean minimum temperatures for October 2016

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	31		
001019 Kalumburu	22.7		24.4	23.8	24.8	24.0	24.0	21.5	17.0	24.2	23.6	23.9	23.2	23.2	22.1	21.0	17.6	19.7	21.8	22.2	23.8	23.8	24.7	25.7	23.5	20.3	19.9	20.3	22.2	23.2	24.4	25.1	24.5	
002012 Halls Creek Airport	21.7	-1.0	25.2	22.5	20.6	17.5	19.5	21.9	18.9	20.4	22.0	22.7	24.5	25.5	22.2	20.7	19.8	17.4	21.6	25.2	23.5	19.5	21.6	20.2	20.6	18.0	17.4	18.1	21.1	22.4	25.8	28.5	28.1	
002056 Kununurra Aero	22.6		25.1	26.9	26.2	27.2	19.9	17.2	16.8	21.6	21.9	22.4	22.7	23.3	22.1	23.2	16.1	17.4	21.6	24.3	26.2	24.8	26.2	24.3	23.6	20.7	16.8	18.6	21.4	23.4	25.4	26.4	26.2	
003003 Broome Airport	24.4	+2.1	22.3	22.5	19.0	20.3	20.2	23.8	22.9	23.2	25.6	25.4	23.1	23.9	27.0	26.3	26.1	26.1	23.2	20.3	20.4	26.6	23.2	23.8	24.4	25.0	24.7	27.0	27.8	28.2	28.2	28.1	27.4	
003032 Derby Aero	24.6		25.2	24.9	23.2	19.0	23.6	24.9	23.5	22.6	24.2	24.2	25.9	26.5	28.0	24.4	24.3	25.6	22.4	21.0	22.1	26.0	24.6	25.5	24.5	23.2	23.0	24.7	25.3	27.8	28.5	28.5	29.2	
004032 Port Hedland Airport	20.9	+2.7	16.0	16.3	15.0	13.6	16.2	19.1	20.4	23.2	21.1	20.3	22.3	24.3	20.4	21.0	22.2	25.3	20.3	18.4	16.7	18.2	20.3	19.7	20.5	22.1	23.8	23.7	26.5	27.2	25.9	25.3	24.0	
004083 Karratha Aero	21.7		19.9	17.0	14.7	15.6	16.1	20.6	22.6	23.3	21.6	21.2	21.0	21.4	20.2	21.6	24.8	25.6	20.7	21.6	17.8	22.6	19.3	19.4	20.4	24.0	24.5	24.0	27.6	27.2	26.3	23.7	25.3	
004106 Marble Bar	22.5		15.2	15.7	15.0	12.6	15.6	18.9	23.3	25.5	24.8	25.1	25.1	24.9	27.4	23.2	22.8	25.9	19.4	19.5	18.7	21.8	20.4	22.3	20.9	23.2	23.4	26.1	28.5	28.0	30.5	27.2	26.3	
005007 Learmonth Airport	17.1		13.9	10.8	10.6	12.1	13.6	17.5	22.2	24.1	14.4	13.1	15.7	16.6	17.5	19.6	18.3	18.4	20.1	19.1	16.2	15.9	14.2	13.9	17.3	19.8	16.7	19.2	17.1	19.9	19.5	18.2	19.7	
006011 Carnarvon Airport	16.3	0.0	16.0	16.3	12.9	14.1	11.8	16.3	19.6	22.2	15.0	12.8	13.7	13.7	16.2	19.6	18.8	13.4	14.9	17.3	17.2	16.0	14.1	13.8	14.7	20.2	17.2	16.6	19.0	18.8	17.7	17.3	17.7	
006044 Denham										18.5	20.0	17.0	13.0	15.0	19.5	18.0	19.5	18.0	16.5			19.0	17.0	16.0	17.0	18.5	17.0	19.9	17.0	18.0	18.0	15.8	18.0	
007176 Newman Aero	16.9		13.6	14.7	7.4	8.8	10.3	15.7	20.8	22.5	17.9	17.0	17.8	18.7	15.3	17.8	23.1	17.0	8.4	13.3	8.4	15.0	17.3	15.9	14.6	21.9	20.6	19.2	22.9	23.6	24.6	19.7	18.9	
007185 Paraburdoo Aero	18.7		14.8	14.0	9.0	13.2	12.4	16.0	22.5	22.5	18.7	18.5	22.4	19.6	19.8	20.2	23.7	20.0	15.6	17.5	12.9	20.2	20.4	20.4	18.1	19.7	20.3	18.3	22.0	23.2	23.6	18.6	20.9	
007045 Meekatharra Airport	14.8	-0.2	11.2	9.5	8.0	12.1	12.3	13.2	18.7	20.7	10.6	11.0	14.4	15.5	17.4	19.9	14.7	10.3	9.9	15.0	12.5	14.9	12.8	14.2	18.5	20.7	17.2	15.2	18.5	18.0	17.9	15.4	18.4	
007600 Mount Magnet Aero	13.3		12.5	7.7	7.2	10.1	11.4	14.8	15.8	20.7	9.8	8.6	13.2	15.9	19.9	20.1	13.7	8.4	9.8	12.5	13.3	10.7	10.8	14.3	18.2	19.3	11.8	14.3	15.9	13.6	12.1	12.6		
008296 Morawa Airport	9.6		12.4	6.5	3.0	5.2	6.7	8.4	14.1	17.0	7.9	5.3	7.6	12.4	15.6	14.8	10.8	5.1	7.3	8.3	8.7	7.8	8.6	10.9	12.0	14.5	10.4	8.9	9.6	10.2	10.2	7.8	8.4	
008297 Dalwallinu	7.3		10.0	4.6	1.9	3.6	6.8	3.7	9.1	14.5	6.9	3.4	4.8	6.8	11.2	12.8	8.7	3.4	6.6	6.3	7.2	8.1	6.2	4.1	10.3	12.1	8.0	8.1	8.3	7.1	8.2	6.4	7.3	
008315 Geraldton Airport	10.0		13.1	11.8	4.9	6.9	7.2	8.9	13.1	18.0	13.7	6.5	7.8	12.2	13.8	12.9	14.4	4.4	6.4	8.5	6.2	13.3	7.0	8.6	11.3	10.6	13.4	6.7	9.4	7.5	14.1	7.5	8.6	
009021 Perth Airport	9.4	-1.0	10.5	9.1	7.1	11.4	8.1	12.0	14.7	15.2	12.7	6.3	9.1	13.2	9.3	13.5	11.2	4.9	6.6	10.6	5.9	10.0	7.7	8.3	8.8	8.6	7.1	6.6	6.3	5.9	11.7	6.9	10.7	
009131 Jurien Bay	10.8		14.8	12.2	6.4	9.9		10.8	13.9	16.9	14.4	9.8	6.6	12.9	10.5	17.2	14.2	6.5	7.0	8.6	6.7	13.4	7.5	6.4	8.0	10.0	14.3	8.7	9.5	9.8	16.3	12.5	7.1	
009225 Perth Metro	10.6		12.3	10.0	9.1	11.2	9.0	12.3	14.7	15.3	13.0	6.5	8.9	13.9	11.1	16.0	10.4	7.8	9.3	10.8	8.1	11.1	7.9	9.5	10.2	10.7	8.9	8.4	9.9	9.8	15.0	8.9	9.7	
009240 Bickley	8.9		9.9	5.7	8.4	10.3	9.6	12.7	13.9	12.5	8.5	5.8	5.9	9.5	16.2	13.8	7.3	5.9	6.9	7.1	6.6	7.4	4.1	6.8	13.5	9.2	7.0	8.3	9.2	8.7	11.5	5.6	7.0	
009518 Cape Leeuwin	12.3	-0.2	9.9	7.2	13.4	13.6	14.2	14.3	11.2	13.9	11.4	11.7	9.9	11.4	15.5	14.3	9.8	12.3	12.8	11.1	12.6	10.5	10.1	9.5	13.4	12.3	12.9	13.4	15.4	15.3	14.0	11.5	12.4	
009617 Bridgetown	6.5		8.0	4.8	8.7	8.8	10.3	14.6	10.5	13.9	8.0	4.0	2.5	8.2	6.1	13.3	6.1	5.4	10.3	0.4	2.1	5.6	-0.8	6.5	2.9	6.9	2.9	7.6	4.6	4.7	8.4	4.3	2.6	
009746 Witchcliffe	8.9		8.8	7.8	11.4	12.4	13.2	13.3	7.5	13.2	10.0	7.3	4.9	6.8	10.2	13.8	8.3	9.5	11.4	4.6	6.1	7.6	3.8	5.3	5.7	10.9	6.2	10.7	8.2	7.1	12.1	7.4	9.8	
009789 Esperance	10.3		10.7	5.9	6.2	10.8	9.4	11.3	13.6	17.9	9.8	9.8	5.9	6.9	12.5	14.3	11.4	9.3	11.1	10.7	5.9	9.2	9.8	6.4	10.5	14.7	11.3	11.3	11.3	10.0	12.1	10.6	9.7	
009965 Bunbury	8.9		10.6	8.3	13.2	13.4	10.6	15.8	12.3	15.5	11.1	5.0	6.2	11.3	8.8	14.7	9.4	7.2	12.8	3.4	5.3	7.8	2.9	9.5	5.8	8.8	4.4	7.2	7.2	6.0	14.5	4.5	3.9	
009977 Mandurah	12.3		12.3	10.3	13.4	12.5	13.2	16.6	14.6	15.8	13.1	10.2	10.1	14.1	14.4	16.8	11.5	10.1	13.8	10.4	10.0	10.7	8.2	10.8	14.6	12.9	10.4	10.6	12.7	11.6	15.4	10.6	10.8	
009999 Albany Airport	8.4		8.4	5.5	9.7	10.3	12.4	13.9	9.8	14.1	8.1	7.3	4.1	8.2	11.3	9.2	7.1	6.9	10.3	7.6	7.4	8.6	6.0	3.7	7.4	9.0	6.2	9.5	8.2	8.7	10.5	4.7	7.0	
010007 Bencubbin	9.0	-0.8	10.0	4.7	5.8	7.2	7.0	8.5	11.0	16.2	7.1	5.5	6.0	9.3	18.0	13.0	9.3	4.1	7.0	8.3	7.4	8.1	4.5	7.7	15.0	14.0	9.1	8.4	10.5	10.2	9.9	8.2		
010092 Merredin	8.3	-1.1	10.5	3.7	3.2	6.4	5.0	7.0	9.0	14.7	7.4	4.7	7.3	12.5	15.3	12.4	9.3	4.0	5.5	7.2	4.8	8.5	4.0	9.0	15.7	13.4	9.5	7.4	8.0	6.7	8.9	8.5	7.4	
010286 Cunderdin Airfield	5.6		9.9	3.0	2.8	6.5	2.9	6.0	7.3	10.2	6.5	3.6	3.0	3.8	7.8	11.1	6.7	0.6	4.3	6.3	3.3	6.9	0.9	6.1	6.6	9.3	9.5	3.1	5.4	4.0	7.0	2.3	8.4	
010633 Ravensthorpe	7.9	-0.9	9.0	4.1	5.0	8.0	7.0	10.0	11.0	15.8	7.5	4.0	3.0	6.0	14.0	12.0	8.2	7.8	7.0	7.0	4.0	2.0	8.0	4.9	6.1	11.1	11.0	6.0	12.0	6.0	7.0	10.4	4.2	8.5
010911 Lake Grace	7.0		8.2	3.7	6.5	9.3	5.3	7.5	8.8	12.7	7.1	1.2	4.2	5.3	12.2	11.2	7.3	5.4	8.7	3.3	2.9	8.5	0.4	6.4	10.6	10.1	8.5	10.8	8.6	7.0	9.4	2.6	4.3	
010916 Katanning	6.1		8.4	3.5	6.7	6.1	6.8	10.0	12.4	13.2	6.5	3.8	3.1	5.1	11.3	10.2	5.4	4.2	6.7	1.2	2.7	5.5	-0.7	3.1	7.5	6.8	4.9	8.9	5.8	7.9	7.8	2.1	1.5	
010917 Wandering	4.5		7.4	3.6	5.4	7.8	5.3	9.3	10.8	12.7	6.2	1.0	2.8	5.3	5.5	9.5	5.1	0.8	3.3	1.9	2.0	7.5	-0.8	3.8	3.7	4.4	1.8	3.9	1.7	1.5	4.7	0.0	1.6	
011003 Eucla	10.7	-0.7	10.0	11.1	8.0	8.1	10.3	14.2	13.1	14.8	14.5	10.9	8.6	8.9	7.1	14.5	13.4	8.9	6.2	11.4	6.5	15.3	9.5	10.3	7.3	12.5	13.7	9.0	7.9	11.1	18.2	13.4	3.4	
011052 Forrest	9.8		9.0	11.3	8.1	7.6	9.9	13.0	14.2	19.9	15.9	9.7	3.2	3.9	6.4	10.4	13.3	7.9	4.7	9.8	5.9	11.1	5.0	7.0	5.9	10.6	14.1	7.3	7.8	11.9	22.1	13.2	4.2	
012038 Kalgoorlie-Boulder Airport	10.6	-0.5	10.5	10.4	5.4	5.9	8.1	8.6	10.3	12.7	18.2	10.1	6.7	6.1	10.4	15.3	21.4	11.7	8.1	6.6	7.1	8.6	9.2	3.1	8.7	12.4	18.9	12.5	9.5	12.8	13.5	15.5	9.9	9.4
012071 Salmon Gums Res.Stn.	6.0	-1.9	8.8	4.2	4.6	8.9	5.1	4.7	11.5	17.1	7.9	5.3	-1.6	2.5	10.9	12.7	9.2	6.6	3.9	-0.3	1.1	2.8	0.0	-0.5	8.0	13.1	10.7	2.1	5.9	6.3	6.4	6.3	0.8	
013011 Warburton Airfield	16.3		18.0	14.2	4.2	6.3	8.7	12.7	22.5	23.6	23.4	16.6	12.7	12.4	15.5	12.																		

# Daily and mean minimum temperatures for October 2016

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	31		
048027 Cobar MO	10.2	-2.2	8.5	8.8	11.3	5.3	5.2	7.6	11.6	16.2	12.3	15.8	7.2	4.5	6.3	7.0	10.0	15.7	10.1	7.5	7.7	7.8	12.7	9.1	4.1	6.1	8.8	14.1	14.5	13.1	15.0	21.2	9.9	
048245 Bourke Airport AWS	11.2		9.6	6.6	12.9	6.5	10.2	6.4	8.9	11.4	12.5	15.8	10.1	5.4	10.0	9.1	10.6	14.0	11.3	5.2	13.1	10.0	14.6	10.2	8.3	8.9	7.7	11.7	14.6	17.7	17.3	20.1	15.7	
049000 Ivanhoe Aerodrome AWS	8.9		8.6	8.5	9.1	7.5	4.8	8.4	13.1	12.5	9.9	12.1	5.3	10.4	6.7	5.1	8.6	12.6	10.2	7.8	5.5	6.5	12.8	5.8	3.7	4.3	7.5	16.9	11.8	7.7	8.5	19.4	4.9	
050052 Condobolin Ag Research Stn	8.4	-1.0	7.9	5.5	10.8	7.1	4.9	5.4	13.9	15.9	6.6	14.2	7.4	2.7	5.6	3.9	3.4	12.0	10.6	4.8	6.3	5.3	6.0	9.4	5.9	4.3	3.5	13.3	13.9	9.0	13.0	20.2	6.5	
051033 Nyngan Airport	9.7	-2.1					7.0	6.6	9.0	11.8	11.6	14.8	8.4	5.0	7.2	7.0	5.8	12.0	11.4	5.9	9.3	7.3	9.8	9.5	5.4	6.3	6.0	9.6	14.0	14.5	14.8	20.3	11.2	
052088 Walgett Airport AWS	8.7		7.3	4.5	15.1	3.7	6.7	1.8	5.7	14.6	9.2	15.2	8.0	2.4	6.5	5.1	5.6	9.4	12.9	4.9	8.2	4.7	10.0	15.1	3.2	2.3	4.5	7.5	11.6	15.3	16.1	18.2	15.2	
053115 Moree Aero	10.6		5.0	6.6	14.5	5.8	8.4	5.9	8.3	9.8	12.3	14.7	12.1	4.3	6.8	8.4	8.7	11.3	17.5	5.3	8.6	9.2	14.9	17.6	4.9	6.2	7.5	9.9	14.6	16.0	17.4	17.8	19.1	
054038 Narrabri Airport AWS	9.9		7.7	5.6	14.3	6.8	8.7	4.1	6.2	13.8	12.6	15.6	11.6	3.8	6.2	8.0	6.0	8.7	18.3	4.6	8.1	8.6	10.5	18.7	3.4	4.3	5.3	8.0	13.4	13.2	14.6	19.0	18.5	
055024 Gunnedah Resource Centre	9.8	-2.3	7.7	7.9	13.0	6.6	8.9	5.8	9.3	12.1	12.1	14.5	8.9	4.1	7.3	9.2	9.3	8.7	16.2	5.3	5.9	7.4	12.0	15.6	4.8	5.4	7.4	9.1	13.7	10.1	14.2	14.6	15.8	
055325 Tamworth Airport AWS	7.1		6.3	3.3	11.9	5.3	6.6	2.5	5.0	7.6	12.1	11.5	10.0	1.2	4.8	3.9	6.1	4.2	10.2	1.6	4.9	5.6	7.9	16.5	1.8	2.4	4.0	5.6	11.2	10.0	9.5	11.1	17.0	
056242 Inverell (Raglan St)	7.5		1.0	3.5	10.0	3.9	3.4	1.0	3.0	4.8	7.2	9.2	12.4	2.0	8.5	6.5	6.1	6.6	9.0	3.6	6.5	9.5	11.0	15.0	3.2		5.4	7.6	11.5	13.0	12.7	12.2	17.0	
057095 Tabulam (Muirie)	11.5		8.7	8.4	14.3	9.4	8.5	10.8		13.2	14.1	12.1	14.9	11.2	9.3	9.2	8.6	8.8	12.6	7.7	11.2	12.6	12.1	14.6	8.2	9.1	11.3	12.1	14.7	12.7	13.8	13.6	17.6	
058012 Yamba Pilot Station	14.8	-0.5	11.4	13.0	17.3	12.6	13.3	11.0	11.5	14.9	17.2	14.8	17.8	14.3	13.0	13.8	11.9	14.4	17.0	11.1	12.5	15.6	17.0	17.4	13.7	10.6	13.0	15.1	17.8	19.5	17.5	18.3	20.0	
060139 Port Macquarie Airport AWS	10.6		6.3	4.8	11.6	9.0	6.0	3.3	7.7	9.3	14.9	14.2	14.5	6.6	9.3	9.5	7.3	8.2	16.3	6.1	8.3	13.3	14.9	17.6	9.3	8.4	6.0	10.3	12.6	17.2	12.9	14.3	18.3	
061078 Williamtown RAAF	12.0	0.0	13.1	8.6	13.4	11.8	12.5	12.4	12.2	12.4	14.5	13.8	10.7	7.0	11.8	9.9	5.5	8.0	16.1	9.5	10.2	14.1	14.2	18.0	8.1	8.0	8.6	8.9	12.8	15.8	14.8	16.4	17.7	
061363 Scone Airport AWS	8.1		10.1	4.8	10.8	6.1	7.2	5.4	6.4	9.4	12.7	9.0	7.7	2.1	8.3	3.3	2.1	3.9	17.0	4.6	7.9	4.2	5.8	15.9	6.1	3.6	3.9	5.8	10.6	14.4	14.7	11.7	16.8	
062101 Mudgee Airport AWS	6.6		5.8	3.0	9.0	5.0	4.4	3.4	4.8	9.2	10.7	9.6	7.3	1.2	3.4	4.5	2.5	4.6	12.3	2.7	5.2	3.6	4.0	13.1	3.7	1.6	2.9	5.6	9.3	14.3	12.7	13.4	10.5	
063005 Bathurst Agricultural Station	5.0	-1.0	6.0	1.0	8.5	4.5	4.0	2.8	4.4	10.8	6.8	10.8	5.3	-0.3	5.5	0.8	1.2	3.7	9.0	2.0	4.8	1.1	3.0	11.0	3.2	0.5	1.1	4.0	5.9	9.2	9.0	10.5	4.6	
063254 Orange Agricultural Institute			3.4		3.9	2.7	5.4	8.4				7.1						1.2	4.8	5.0	2.6	4.5				2.0	2.3		6.4	10.0		4.0		
064008 Coonabarabran (Showgrounds)	6.9	-1.3	7.0	2.9	12.5	5.0	7.5	2.5		9.5	9.5	11.0	7.0	1.9	7.5	4.0	3.0	5.6	12.0	2.5		2.5	5.5	13.0	4.0	2.6	2.5	5.0		9.5	11.0	13.8	11.5	
065070 Dubbo Airport AWS	7.9		7.7	5.2	11.6	4.1	4.3	4.1	8.0	11.7	11.7	13.9	7.2	2.1	3.7	6.0	4.5	9.9	12.0	3.4	9.0	4.7	6.2	10.5	4.9	2.3	3.3	7.8	10.7	14.9	14.4	15.8	8.2	
066062 Sydney (Observatory Hill)	14.3	+0.2	12.4	12.5	18.4	12.7	11.7	13.0	16.0	20.1	13.8	16.8	12.3	10.7	11.8	9.0	11.1	15.9	21.7	11.5	16.2	16.4	15.3	16.1	10.2	10.2	11.4	14.3	18.4	14.7	15.3	18.2	16.1	
067105 Richmond RAAF	10.4		11.7	9.0	16.6	10.9	7.2	10.2	9.3	18.2	13.4	11.8	8.1	4.4	10.3	4.0	5.3	8.1	18.7	5.3	9.6	12.9	7.9	15.8	7.2	5.5	6.0	8.3	9.9	13.2	13.4	15.5	15.9	
068072 Nowra RAN Air Station AWS	10.4		11.1	7.1	11.4	11.9	8.9	12.7	15.4	12.6	7.1	11.2	10.1	7.5	7.8	5.9	8.8	9.4	15.4	7.7	7.0	10.3	8.6	8.9	12.5	6.4	5.5	8.1	15.5	13.4	11.3	12.5	13.9	12.2
068151 Jervis Bay (Point Perpendicular)	12.9		11.0	12.3	16.4	13.0	10.4	12.7	18.0	15.6	11.1	14.2	11.7	9.0	10.0	10.4	11.4	16.5	16.1	11.5	12.2	11.8	14.7	12.9	9.3	9.5	10.1	15.5	16.2	11.7	13.0	17.7	13.2	
068241 Albion Park (Wollongong Airport)	10.6		11.1	9.9	12.7	12.4	10.3	14.1	19.7	13.6	5.9	14.4	8.8	8.7	10.2	3.9	3.5	6.4	16.5	8.4	8.4	6.6	8.7	14.4	8.9	3.6	4.4	13.9	10.5	13.4	13.3	17.3	13.4	
069018 Moruya Heads Pilot Station	10.7	-0.1	8.2	8.0	13.4	11.2	7.9	13.3	17.0	12.3	8.7		8.5	7.1	6.7	6.9	7.9	14.7	18.0	8.7	9.8	9.9	12.0	10.5	7.2	4.9	8.2	13.1	13.6	11.7	13.3	15.6	11.3	
070351 Canberra Airport	5.2		6.5	5.3	7.3	6.5	3.6	7.8	7.6	8.5	1.4	6.2	5.2	-0.9	1.7	-0.3	1.0	9.0	9.7	5.2	4.6	1.5	1.4	10.4	0.7	-1.0	1.2	8.4	7.0	8.9	11.0	10.2	5.6	
071041 Thredbo Village	0.7		0.8	2.5	3.5	0.5	-1.5	0.0	0.0	4.7	-3.5	3.0	-3.0	-1.0	-3.0	-4.5	-3.0	8.5	4.0	1.9	0.0	-3.2	-1.5	0.0	-2.0	-3.8	-2.0	7.0	4.6	2.0	3.5	9.5	-1.0	
072150 Wagga Wagga AMO	7.4	-0.2	8.8	6.9	10.7	6.0	3.9	5.5	10.3	12.0	9.9	11.4	4.4	2.2	5.1	3.5	4.6	11.3	9.6	6.0	3.3	4.3	7.7	7.0	3.1	3.1	3.6	12.0	10.0	9.9	10.6	17.8	4.1	
072160 Albury Airport AWS	7.6		9.2	5.9	10.8	8.3	3.5	7.0	9.0	11.8	8.3	9.6	5.7	5.3	6.9	4.2	5.7	11.8	9.7	10.1	4.7	3.6	7.4	6.4	3.3	3.6	5.3	12.7	8.2	7.5	9.3	14.7	3.2	
072161 Cabramurra SMHEA AWS	1.5		-0.6	1.3	1.9	-0.5	-2.3	-1.7	3.4	8.4	3.5	3.8	-2.9	-2.8	-2.5	0.1	2.6	4.8	1.8	1.5	-1.6	-1.1	3.3	2.6	-2.2	-1.0	2.2	5.0	6.8	2.0	5.0	9.8	-2.9	
074258 Deniliquin Airport AWS	7.3		9.7	6.8	8.1	7.2	5.0	6.5	13.3	8.7	7.3	11.0	4.3	5.4	2.3	2.5	7.4	13.5	9.6	9.6	2.4	5.4	12.9	4.2	1.9	1.8	6.7	16.3	6.2	2.9	5.2	15.6	5.1	
Victoria	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	31		
076031 Mildura Airport	8.7	-1.2	8.0	11.0	8.1	9.2	5.0	8.8	15.1	11.5	12.9	11.4	5.4	5.2	6.7	4.0	7.4	14.7	7.6	10.6	2.9	7.9	15.7	3.7	2.8	3.1	8.0	18.5	7.9	5.7	6.9	18.4	4.5	
078015 Nhili Aerodrome	6.9		8.6	9.4	6.2	8.0	5.1	8.7	12.6	4.3	9.2	9.2	4.4	6.2	2.0	4.5	9.0	14.1	4.8	8.1	2.7	6.8	10.7	2.6	1.5	2.1	9.0	12.5	5.0	3.4	6.4	13.8	3.4	
080023 Kerang	8.2	-0.9	10.2	8.5	7.8	8.0	5.4	7.5	13.7	8.8	9.9	10.4	5.0	7.6	4.4	4.2	9.0	11.5				7.4	12.8	4.3	3.2	5.0	8.3	16.5	8.5	6.0	6.8	13.4	4.4	
081123 Bendigo Airport	6.3		7.7	5.8	7.8	7.8	2.6	6.0	9.4	6.8	7.2	9.3	4.2	5.1	2.3	1.7	4.5	13.3	6.8	9.8	1.2	3.3	10.9	4.5	2.9	2.6	3.8	12.9	5.9	3.9	7.3	13.7	3.2	
082039 Rutherglen Research	6.2	+0.1	7.0	5.5	10.2	7.4	1.6	4.1	11.7	9.3	5.7	9.7	3.9	7.7	1.3	2.5	4.7	12.4	8.7	8.4	2.0	1.9	11.1	5.2	1.4	1.0	3.5	13.0	5.5	4.5	4.6	14.0	3.4	
083085 Mount Hotham	-2.1		-2.1	-1.2	-1.8	-3.0	-4.6	-4.2	0.2	-0.4	1.2	-0.9	-5.7	-5.7	-6.2	-4.2	0.2	2.2	-1.2	-1.6	-6.3	-4.4	-2.6	-4.8	-4.5	-5.8	-0.6	1.8	-0.6	-1.3	2.5	5.4	-6.1	
084016 Gabo Island Lighthouse	10.5	-1.0	8.5	9.7	13.3	10.2	8.3	12.5	13.6	12.0	8.1	12.5	9.0	9.1	8.8	8.4	9.4	12.0	11.3	8.5	8.7	8.4	13.2	9.2	8.4	8.9	9.9	12.3	12.0	9.3	13.5	16.5	9.9	
084145 Orbst	8.2		6.6	6.5	12.5	11.2		9.6	13.5			4.1		6.3	7.4	5.9	3.7	6.4	13.7	9.3	9.3													



	Total	Avg	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	31
Western Australia																																	
001013 Wyndham	42.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.0	-	-	-	-	-	-	-	-	-
001019 Kalumburu	39.2	-	-	-	0.6	-	12.6	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	25.6	-	-	-	-	-	-	-	-	-	-	
002012 Halls Creek Airport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	53.0	5.4	»	»	1.2	-	-	-	-	-	-	
002056 Kununurra Aero	11.6	-	1.4	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	0.2	-	-	-	-	-	-	-	
003003 Broome Airport	0.6	1.8	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
003032 Derby Aero	10.4	3.3	-	-	-	-	-	-	-	-	-	-	-	1.0	-	1.2	-	-	-	-	-	-	-	-	-	7.4	0.8	-	-	-	-	-	
004032 Port Hedland Airport	8.6	0.9	»	»	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
004083 Karratha Aero	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
004106 Marble Bar	8.8	-	6.2	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
005007 Learmonth Airport	0.2	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	
006011 Carnarvon Airport	1.7	6.9	0.6	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	
006044 Denham	0.4	9.3	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007176 Newman Aero	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007185 Paraburdoo Aero	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007045 Meekatharra Airport	-	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007600 Mount Magnet Aero	4.2	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	
008296 Morawa Airport	7.8	-	2.8	-	-	-	-	-	-	-	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
008297 Dalwallinu	8.0	-	0.8	0.8	-	-	-	-	-	-	0.2	6.0	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
008315 Geraldton Airport	11.6	-	»	»	1.8	-	-	-	-	-	»	»	8.6	-	-	-	-	-	-	-	-	»	»	1.2	-	-	-	-	-	-	-	-	-
009021 Perth Airport	37.8	46	4.2	2.6	-	4.0	-	-	-	0.2	7.4	7.4	-	-	-	-	0.8																

## Daily and total rainfall for October 2016

New South Wales	Total	Avg	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	31
046043 Wilcannia (Reid St)	10.5	23	0.2	-	-	-	-	-	-	8.0	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	1.9	
048027 Cobar MO	21.2	36	0.2	-	6.4	0.4	0.2	-	-	-	-	-	0.2	-	-	-	-	-	8.2	0.8	-	-	2.8	-	-	-	-	-	-	-	-	2.0	
048245 Bourke Airport AWS	29.6	-	-	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	4.0	0.2	-	-	18.6	0.2	-	-	-	-	-	-	1.6	-	-	
049000 Ivanhoe Aerodrome AWS	29.6	-	0.8	24.0	-	-	-	-	-	-	-	0.8	-	-	-	-	-	0.8	-	-	0.2	2.8	-	-	-	-	-	-	-	-	-	0.2	
050052 Condobolin Ag Research Stn	31.6	54	2.4	5.0	-	0.6	-	-	-	-	-	1.0	-	-	-	-	-	16.0	1.6	-	-	2.8	-	-	-	-	-	-	-	-	-	2.2	
051039 Nyngan Airport	25.2	47	-	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	9.0	2.6	-	-	8.2	-	-	-	-	-	-	-	-	-	2.0	
052088 Walgett Airport AWS	52.0	-	-	-	6.2	-	-	-	-	-	-	-	-	-	-	-	-	1.4	7.4	-	-	0.4	0.2	0.4	-	-	-	-	0.8	35.0	-	0.2	
053115 Moree Aero	56.8	-	-	1.2	6.4	0.2	-	-	-	-	-	-	-	-	-	-	-	3.8	-	-	-	28.4	6.8	-	-	-	-	-	-	0.6	-	9.4	
054038 Narrabri Airport AWS	59.6	-	-	3.2	3.2	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	20.8	13.0	-	-	-	-	-	-	1.4	0.2	-	9.2
055024 Gunnedah Resource Centre	21.6	57	-	-	1.2	3.2	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.2	-	-	7.8
055325 Tamworth Airport AWS	76.0	-	-	2.6	11.2	-	-	-	-	-	-	0.6	-	-	-	-	-	-	10.8	-	-	11.4	23.0	-	-	-	-	-	-	0.4	-	-	16.0
056242 Inverell (Raglan St)	83.2	-	-	0.4	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	15.2	-	-	17.4	14.4	-	-	-	-	-	3.6	7.0	-	17.2	
057095 Tabulam (Muirne)	65.6	-	-	-	9.0	-	-	-	-	0.2	0.2	-	-	-	-	4.0	-	-	3.0	-	-	0.2	2.0	-	-	-	-	-	14.6	29.8	2.6	-	
058012 Yamba Pilot Station	31.8	91	-	-	2.4	-	-	-	-	0.2	-	-	-	-	-	2.6	-	-	3.4	-	-	1.8	3.4	-	-	-	-	-	-	-	18.0	-	-
060139 Port Macquarie Airport AWS	83.0	-	-	-	0.6	-	-	-	-	-	-	7.0	-	-	-	29.0	-	-	11.6	-	-	4.0	3.8	11.2	-	-	-	-	3.6	8.8	-	3.4	
061078 Williamtown RAAF	75.6	83	-	-	-	-	-	-	-	1.4	-	8.6	-	13.4	26.0	0.2	-	-	4.8	0.2	-	-	9.6	3.0	-	-	-	-	-	0.6	2.0	-	5.8
061363 Scone Airport AWS	68.6	-	0.6	-	-	0.2	-	0.2	-	-	-	9.6	-	-	-	-	-	-	18.4	-	-	12.0	14.8	-	-	-	-	-	9.8	-	-	3.0	
062101 Mudgee Airport AWS	75.8	-	9.2	-	3.6	0.8	1.8	-	-	-	-	0.6	-	-	-	-	-	9.6	9.2	-	-	32.6	1.0	-	-	-	-	-	-	-	-	-	7.4
063005 Bathurst Agricultural Station	56.2	62	»	»	6.6	0.2	4.4	-	-	-	-	»	3.8	-	-	-	-	11.8	4.6	-	-	13.4	-	-	-	-	-	-	-	-	-	-	3.8
063254 Orange Agricultural Institute	86.0	89	»	»	30.0	»	7.8	10.8	-	-	-	-	»	»	»	»	»	14.2	6.2	-	-	-	»	»	8.0	-	-	-	-	-	»	»	9.0
064008 Coonabarabran (Showgrounds)	89.6	73	1.2	-	12.8	3.0	1.0	-	-	-	-	11.0	-	-	-	-	-	5.0	15.2	-	-	23.8	4.0	-	-	-	-	-	-	4.0	-	-	8.6
065070 Dubbo Airport AWS	56.2	-	10.0	-	3.0	-	0.2	0.2	-	-	-	1.8	-	-	-	-	-	10.4	7.4	-	-	19.0	0.2	-	-	-	-	-	-	-	-	-	4.0
066062 Sydney (Observatory Hill)	31.4	88	-	-	-	-	-	-	-	0.2	-	-	3.8	-	4.4	0.2	-	-	3.0	0.2	-	-	11.8	0.6	0.8	-	-	-	1.4	3.2	0.2	1.6	
067105 Richmond RAAF	13.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	7.4	-	-	-	-	-	-	3.4	0.2	-	-	
068072 Nowra RAN Air Station AWS	33.2	-	0.2	-	-	-	2.0	-	-	-	-	-	-	1.6	-	-	-	1.0	0.6	-	-	15.4	6.4	-	-	-	-	-	1.6	0.4	2.4	1.6	
068151 Jervis Bay (Point Perpendicular)	39.6	-	-	-	-	-	-	-	-	0.6	-	-	-	4.8	0.2	-	-	0.4	1.2	-	0.6	20.6	2.6	-	-	-	-	-	1.8	4.4	1.4	1.0	
068241 Albion Park (Wollongong Airport)	18.8	-	-	-	-	0.6	-	-	-	-	-	-	1.8	0.2	-	-	-	-	-	-	14.4	0.2	0.2	-	-	-	-	0.2	1.0	0.2	-	-	
069018 Moruya Heads Pilot Station	28.4	95	-	-	-	-	2.0	-	-	0.4	-	-	-	1.2	-	-	-	3.2	-	-	-	10.0	4.8	2.0	-	-	-	-	-	2.2	0.6	2.0	
070351 Canberra Airport	43.6	-	2.0	0.2	8.8	1.4	8.4	-	-	-	-	1.0	-	0.4	-	-	-	5.4	0.6	-	-	7.4	5.4	-	-	-	-	-	-	-	-	2.6	
071041 Thredbo Village	418.6	-	22.6	-	55.8	26.7	36.2	20.0	-	1.5	-	26.0	11.1	0.4	4.4	-	-	80.6	11.0	41.0	-	19.0	3.7	1.5	-	-	-	-	0.2	-	8.6	48.3	
072150 Wagga Wagga AMO	64.0	58	»	»	»	40.0	6.0	-	-	-	-	2.0	-	-	-	»	»	11.0	0.2	-	-	-	-	-	-	-	-	-	-	»	»	4.8	
072160 Albury Airport AWS	61.4	-	9.0	0.8	12.4	8.6	7.8	-	-	-	-	6.6	0.6	0.2	0.2	-	-	9.6	0.8	2.6	0.2	-	1.0	-	-	-	-	-	-	-	-	1.0	
072161 Cabramurra SMHEA AWS	168.6	-	30.4	-	16.2	21.2	15.4	-	-	-	-	1.4	16.0	0.2	6.6	0.2	-	29.4	3.2	17.6	-	-	1.8	6.0	-	-	-	-	-	-	-	3.0	
073054 Wyalong Post Office	34.6	51	1.0	-	13.2	0.4	4.0	-	-	-	-	1.0	-	-	-	-	-	12.8	0.4	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-
074258 Deniliquin Airport AWS	28.4	-	4.6	-	6.4	2.4	4.8	-	-	-	-	3.4	0.2	0.2	-	-	-	5.0	-	0.4	0.2	-	0.4	0.2	-	-	-	0.2	-	-	-	-	-
Victoria	Total	Avg	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	31
076031 Mildura Airport	24.8	28	0.4	-	13.4	0.2	3.4	-	-	-	-	0.2	-	-	-	-	-	5.2	-	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-
077008 Birchip (Woodlands)	68.8	39	15.0	-	25.2	5.6	6.4	-	-	-	-	-	-	-	-	-	-	10.4	0.8	2.4	-	-	3.0	-	-	-	-	-	-	-	-	-	-
078015 Nhili Aerodrome	59.0	-	8.4	-	2.4	6.4	3.2	-	0.2	-	-	-	1.4	0.4	0.2	-	-	12.6	4.0	2.8	-	1.0	15.6	-	-	-	-	-	-	-	-	-	0.4
080023 Kerang	33.0	41	5.2	-	14.6	3.4	3.2	-	-	-	-	1.4	-	-	0.4	-	-	-	-	-	-	4.0	-	-	-	-	-	-	0.8	-	-	-	-
081123 Bendigo Airport	58.4	-	3.4	-	20.4	6.2	8.6	-	-	-	-	0.2	1.6	0.6	-	-	-	8.0	1.2	2.4	-	-	4.8	0.8	-	-	-	-	-	-	-	-	0.2
082039 Rutherglen Research	59.8	61	8.0	-	12.8	2.2	9.2	-	-	-	-	8.2	0.2	-	1.0	-	-	10.0	0.8	5.8	0.2	-	1.0	-	-	-	-	-	-	-	-	-	0.4
083085 Mount Hotham	219.2	-	-	13.6	38.6	-	1.8	5.4	4.2	0.2	-	36.6	1.4	1.4	7.2	1.6	0.2	34.4	7.0	16.8	0.2	-	18.0	1.0	2.2	-	-	0.4	0.6	0.2	10.6	15.6	
084016 Gabo Island Lighthouse	39.0	71	11.4	2.4	-	-	1.6	-	-	-	-	2.4	1.8	-	1.0	-	-	2.8	-	3.6	-	3.0	4.8	1.0	-	1.8	-	-	0.4	-	-	1.0	
084145 Orbost	79.6	-	0.4	2.0	0.2	-	3.2	-	-	-	2.4	-	-	2.6	-	-	-	19.0	-	11.8	-	9.6	18.4	1.4	-	-	0.4	0.2	-	0.2	7.8	-	-
085072 East Sale Airport	63.4	55	2.4	-	1.0	-	8.0	-	-	-	-	-	2.0	-	-	-	-	16.6	-	4.4	-	10.2	17.2	1.6	-	-	-	-	-	-	-	-	-
085096 Wilsons Promontory Lighthouse	158.8	92	8.2	-	9.4	12.8	12.4	3.4	-	-	-	4.6	10.2	8.4	0.4	-	-	26.2	14.6	5.6	0.2	-	18.4	0.8	-	-	-	0.8	-	-	-	22.4	
087031 Laverton RAAF	46.4	62	0.2	0.2	7.4	0.8	2.8	0.4	-	-	-	1.2	1.2	-	0.6	0.2	-	7.4	0.4	2.8	-	-	11.8	9.0	-	-	-	-	-	-	-	-	-
087184 Breakwater (Geelong Racecourse)	62.0	-	3.4	-	13.8	1.4	3.2	0.2	-	-	-	4.2	1.8	-	2.6	-	-	6.6	2.6	1.4	-	-	16.2	4.0	-	-	-	0.2	-	-	-	0.4	
089002 Ballarat Aerodrome	102.4	71	4.0	-	38.0	4.2	5.6	0.2	-	-	-	2.2	3.6	1.2	2.2	-	-	9.4	3.8	5.0	1.2	0.2	17.4	2.2	-	0.2	-	0.2	-	0.2	-	1.4	
090015 Cape Otway Lighthouse	131.0	89	-	2.4	20.2	4.0	6.6	0.8	0.2	0.2	-	7.4	5.8	3.0	2.2	-	-	20.4	7.2	10.6	0.4	15.8	12.0	0.8	-	-	0.2	1.6	-	-	-	9.2	
Tasmania	Total	Avg	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	31
091009 Burnie (Round Hill)	151.5	81	29.2	0.4	30.6	8.8	7.2	21.9	-	-	-	16.2	4.2	0.6	-	-	-	2.0	9.4	4.2	1.2	0.6	3.6	2.4	2.4	-	-	1.8	0.2	-	1.4	3.2	
091126 Devonport Airport	93.8	69	15.1	-	24.0	4.2	4.2	4.3	-	-	-	11.1	1.6	0.2	-	-	-	1.0	11.0														