



Australian Government
Bureau of Meteorology

Monthly Weather Review Australia November 2017



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.

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/.

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Cover photograph

Halo in cirrus over the Table Cape lighthouse, Tasmania.

Photograph by Ian Barnes-Keoghan, 5 November 2017. Used with permission.

Overview

- Mean temperature above average for Australia as a whole
- Mean, maximum, and minimum temperature exceptionally warm for Tasmania and Victoria
- Maxima above average for southeastern Australia and for Western Australia; below average for eastern Queensland and the inland north of the Northern Territory
- Minima above average for southern Australia, most of Western Australia, and Cape York; below average for parts of eastern Queensland, northeast New South Wales, central Northern Territory and adjacent eastern Western Australia
- November rainfall above to very much above average across the Northern Territory and South Australia, adjacent parts of Western Australia and western Queensland; western Victoria and far southeastern New South Wales, and central western Western Australia
- Rainfall below average for Tasmania, Gippsland in Victoria, and scattered small areas near the west and east coast of the country

The mean maximum temperature was 0.60 °C above average for Australia. The mean Tasmania maximum temperature was the warmest on record for November (3.79 °C above average), surpassing the previous record (+2.09 °C set in 1914) by more than a degree. Victoria's mean maximum was the third-warmest on record for November, with an anomaly of +3.38 °C.

Minimum temperatures were above average nationally, with an anomaly of +0.78 °C. Minimum temperatures were particularly warm across western and southern Australia, with minima the third-

warmest on record for both Tasmania and Victoria and eighth-warmest for both Western Australia and South Australia.

After a cool start to November, during which damaging frosts were observed in parts of Victoria and Tasmania, a long-lived blocking high brought an extended period of very warm weather to Victoria and Tasmania. Records for consecutive warm days and for total number of warm days in the month were broken in the southeast. A Special Climate Statement, *A prolonged warm spell in Tasmania and Victoria*, was released discussing the event.

Clear skies and light winds associated with the blocking high, in combination with the background warming trend, contributed to highest on record sea surface temperatures between Bass Strait and the western coast of New Zealand which persisted into 2018.

Meanwhile, easterly winds north of the high contributed to cooler than average temperatures on the east coast in New South Wales and Queensland.

Rainfall for November was above average for the middle third of Australia, and in the highest 10% of historical observations (decile 1) for November in large areas of the Northern Territory and South Australia. Rainfall was also above average for parts of Western Australia in the Pilbara, Gascoyne, and adjacent inland areas, and for parts of the mainland southeast.

Monthly rainfall was below average for the eastern half of southern Victoria, and for almost all of Tasmania. For Tasmania as a whole, November was the tenth-driest on record.

Areal averages in November 2017

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	+27%	+0.60 °C	+0.78 °C	+0.69 °C
Western Australia	+25%	+1.12 °C	+0.97 °C 8th-highest	+1.05 °C equal 5th-
Northern Territory	+80% 7th-highest	-0.30 °C	-0.19 °C	-0.24 °C
South Australia	+134% 7th-highest	+0.91 °C	+1.65 °C 8th-highest	+1.28 °C
Queensland	-4%	-0.44 °C	+0.20 °C	-0.11 °C
New South Wales	0%	+1.25 °C	+1.37 °C	+1.31 °C
Victoria	0%	+3.38 °C 3rd-highest	+2.78 °C 3rd-highest	+3.08 °C 2nd-highest
Tasmania	-52% 10th-lowest	+3.79 °C highest	+1.37 °C 3rd-highest	+2.58 °C highest

Extremes in November 2017

	Hottest day	Coldest night	Wettest day	Warmest overall	Coolest overall	Wettest overall	Strongest wind gust
Australia	45.1 °C at Marble Bar (WA) on the 22nd	-6.5 °C at Thredbo AWS (NSW) on the 4th	157.8 mm at Wamuran (Qld) on the 30th	33.4 °C at Fitzroy Crossing Aero (WA)	7.8 °C at Thredbo AWS (NSW)	566.4 mm at Bellenden Ker Top Stn (Qld)	120 km/h at Maatsuyker Island Lighthouse (Tas.) on the 4th
Western Australia	45.1 °C at Marble Bar on the 22nd	1.6 °C at Salmon Gums Res.Stn. on the 15th	82.2 mm at Old Mornington Homestead on the 21st	33.4 °C at Fitzroy Crossing Aero	16.6 °C at North Walpole	236.9 mm at Mornington	115 km/h at Forrest on the 18th
Northern Territory	43.0 °C at Walungurru Airport on the 30th	8.7 °C at Alice Springs Airport on the 2nd	120.2 mm at Snowdrop Creek on the 27th	32.1 °C at Ngukurr Airport	25.6 °C at Arltunga	408.0 mm at Pirlangimpi Airport	106 km/h at Yulara Airport on the 15th
South Australia	41.3 °C at Moomba Airport on the 30th	-2.3 °C at Keith (Munkora) on the 4th	59.2 mm at Parrakie on the 16th	27.5 °C at Moomba Airport	17.2 °C at Mount Lofty	126.2 mm at Ernabella (Pukatja)	119 km/h at Oodnadatta Airport on the 30th
Queensland	42.7 °C at Birdsville Airport on the 5th	4.0 °C at Stanthorpe Leslie Parade on the 2nd	157.8 mm at Wamuran on the 30th	30.8 °C at Normanton Airport	16.8 °C at Applethorpe	566.4 mm at Bellenden Ker Top Stn	109 km/h at Julia Creek Airport on the 21st
New South Wales	40.4 °C at Wanaaring (Delta AWS) on the 26th	-6.5 °C at Thredbo AWS on the 4th	100.8 mm at Robertson (The Pie Shop) on the 18th	26.5 °C at Tibooburra Airport	7.8 °C at Thredbo AWS	258.8 mm at Mullumbimby (Fairview Farm)	100 km/h at Murrurundi Gap AWS on the 6th
Victoria	39.6 °C at Kellalac (Warracknabeal Airport) on the 29th	-5.5 °C at Mount Hotham on the 4th	97.6 mm at Baynton on the 17th	23.2 °C at Mildura Airport	10.2 °C at Falls Creek	135.8 mm at Halls (Buckland River at Twelve Mile)	104 km/h at Pyrenees (Ben Nevis) on the 13th and Fawkner Beacon on the 23rd
Tasmania	34.8 °C at Scotts Peak Dam on the 30th	-4.4 °C at Liawenee on the 5th	51.6 mm at Scotts Peak Dam on the 27th	17.4 °C at Campania (Kincora)	9.6 °C at kunanyi (Mount Wellington Pinnacle)	127.0 mm at Kellevie	120 km/h at Maatsuyker Island Lighthouse on the 4th

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, *Coolest overall* is the lowest mean monthly temperature and *Wettest overall* is the highest total monthly precipitation.

A cool start to November for Victoria and Tasmania

Frost was observed in parts of Victoria and Tasmania during the first week of November, causing significant crop damage in western Victoria, particularly in legume crops which were at a vulnerable growth stage. Some crop damage was also reported in the Midlands of Tasmania. Cool nights between the 4th and 6th saw some low overnight temperature records for November set in the southeastern States.

Severe storms in New South Wales

Severe storms developed in New South Wales' Hunter and Central Coast districts on the afternoon of the 6th, associated with a low pressure centre located on a surface trough extending northward in an arc through inland Queensland, the central Northern Territory and inland northwestern Western Australia. The storms caused building damage and resulted in two people being taken to hospital following the collapse of a community centre roof at Kurri Kurri in the Hunter Valley. The SES received around 15 requests for assistance from the Illawarra region while large hail was reported in Narrabri and the northern suburbs of Wollongong. Hail and heavy rain also caused damage to fruit trees in parts of northeastern New South Wales.

Heavy rain was also observed across much of southeastern New South Wales, with a cold day across the alpine region and some snowfall.

Warm weather in Tasmania and Victoria

After a cool start to November an extended period of very warm weather affected Victoria and Tasmania. From the 9th a strong blocking high pressure system settled over the southern Tasman Sea, maintaining a persistent northerly airflow over much of Victoria until late in the month. A number of records for consecutive warm days were broken in the southeast, including 12 consecutive days over 25 °C at Sale in Victoria, 9 consecutive days over 28 °C at Melbourne (Olympic Park), 6 consecutive days over 26 °C at Hobart, and 9 consecutive days over 25 °C at Launceston. Numerous records were also set for total number of warm days in the month at multiple sites in Tasmania and Victoria. A Special Climate Statement, *A prolonged warm spell in Tasmania and Victoria*, was released discussing the event.

Thunderstorms in Western Australia

A broad trough extending around the northwest of Western Australia was a dominant feature during November, with a trough also lying along the west

coast during the first half of the month. Thunderstorms occurred throughout the month associated with convection along the trough.

Thunderstorms with severe wind gusts affected the Kimberley, Pilbara, Gascoyne and southern Interior districts between the 6th and 10th. Paraburdoo Aerodrome recorded a wind gust of 94 km/h on the 6th. A dust storm and 98 km/h gust was reported at Meekatharra Airport on the 7th. Warburton Airport and Halls Creek Airport recorded gusts of 100 km/h, on the 9th and 10th respectively.

A notable storm on the evening of the 12th produced hail in the Perth region and on the Mandurah coast. The SES responded to 29 callouts, mostly for windows and skylights broken by large hail. Golf ball sized hail was reported at Meadow Spring.

Between the 15th and 19th an approaching cold front combined with surface and middle level troughs, producing thunderstorms through the Gascoyne, Goldfields and Eucla districts. Widespread damage was reported in the Kalgoorlie–Boulder area, with wind gust of 107 km/h and large hail reported. At Forrest in the Eucla District a wind gust of 115 km/h was observed. Blackouts affected 17 000 customers, with some not reconnected until two days after the event. Fallen trees and associated damage was also reported.

Severe wind gusts in the Northern Territory

Wind gusts of 106 km/h were observed at Yulara Airport on the 15th, and of 94 km/h at Centre Island and 102 km/h at Lajamanu on the 21st. In Alice Springs severe thunderstorms on the 23rd produced wind gusts of 94 km/h and reports of hail, while a thunderstorm microburst on the 27th caused broken branched and fallen trees in the CBD.

Storms in Victoria

A low pressure trough followed by a cold front extending from a low pressure system well to the south of Tasmania crossed Victoria during the afternoon to evening of the 15th. Widespread showers and thunderstorms occurred across Victoria, with most of western Victoria receiving between 25 and 50 mm of rain.

The SES had responded to around 50 calls for assistance following heavy rain and water damage by 8 pm on the 15th, with Swan Hill, Bendigo and Mildura among the areas worst hit. Some local roads were closed by short-lived flooding in western and northern Victoria, while train services in Melbourne's

north experienced minor delays following a lightning strike.

The surface trough persisted over inland eastern Australia over following days with further storms forming on the afternoon of the 18th. Slow moving storms brought heavy rain and hail to the metropolitan region and parts of northeastern Victoria. Flash flooding affected parts of the CBD, including the underpass at Flinders Street Station, the international terminal at Tullamarine Airport, and the Ballarat CBD. Blackouts also affected about 5000 premises in the Melbourne metropolitan region and 2000 around Geelong.

A surface trough through eastern Australia again brought thunderstorms over a period of 5 consecutive thunder days between the 23th and 27th.

A couple was stuck by lightning in Chirnside Park on the evening of the 24th, with one killed and the other seriously injured. The SES received 32 calls for assistance over the course of the same evening. On the 25th, storms caused flash flooding, wind damage, and hail in Berwick. In the evening of the 26th heavy rain brought totals of 20 to more than 30 mm in half an hour in eastern suburbs of Melbourne including around Croydon, Coldstream and Healesville. Marble sized hail was also reported over a period up to 30 minutes at Badgers Creek near Healesville.

Severe thunderstorms in South Australia

November was an active month for thunderstorms over South Australia.

A hot and unstable air mass ahead of a trough near the Western Australian border led to widespread thunderstorm activity over the western half of South Australia during the afternoon of the 13th. A thunderstorm at Ernabella produced wind gusts to 95 km/h and around 12 mm of rain in 8 minutes.

A trough and low developed over the west of South Australia during the 19th and moved slowly east over subsequent days, becoming stationary near the eastern border on the 23rd, before moving away from South Australia on the 26th. Scattered thunderstorm activity occurred throughout this period, in association with the trough, with severe thunderstorms observed on the 22nd and 23rd.

On the 22nd a thunderstorm at Port Augusta produced wind gusts to 102 km/h; average winds of 82 km/h with gusts to 100 km/h occurred at Oodnadatta; and gusts to 89 km/h were observed at Coober Pedy.

On the 23rd strong thunderstorms developed over central and eastern districts with flash flooding reported at Angaston early in the afternoon. Wind damage also occurred at Murray Bridge with wind gusts of 82 km/h recorded at Pallamana to the northwest.

A trough and front moved across South Australia during the 29th and 30th, with widespread thunderstorm activity occurring across the State on both days. High instability on the 30th led to rapid thunderstorm development in the afternoon, with several severe thunderstorms affecting the far north, the southeast, and middle parts of the State. In the Mid North afternoon thunderstorms produced severe wind gusts of 98 km/h at Port Pirie and 91 km/h at Snowtown. In the Lower South East a supercell thunderstorm developed near Naracoorte around 2:30 pm, tracked southwards, moving offshore to the south of Mount Gambier around 5 pm. Along the thunderstorm path, localised significant wind damage occurred at Maaoupe, Kalangadoo, Wepar and Glenburnie. Near Kalangadoo, a tornado caused damage to sheds and trees, and there were hailstones up to 2-3 cm in diameter and 22 mm of rain fell in 10 minutes. In the far north, a long-lived supercell thunderstorm developed during the afternoon near the Western Australian border, tracked east, and reached Oodnadatta late in the evening, producing a 15-minute period of gale force winds and gusts in excess of 90 km/h, peaking at 119 km/h.

Heavy rainfall at Christmas Island associated with tropical cyclones

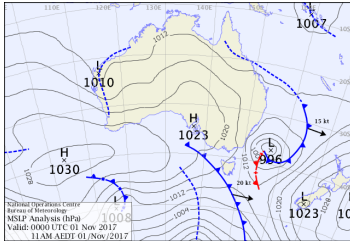
Tropical cyclones *Cempaka* and *Dahlia* produced extensive shower and thunderstorm activity over Christmas Island at the end of November while passing to the north of the island. *Dahlia* had the greatest effect on the island while it was still a developing tropical low. Although gales did not occur on the island, the airport recorded 368.2 mm of rainfall in the 72 hours to 9 am on 1 December, including 212.6 mm in the 24 hours to 9 am on 29 November, the highest daily rainfall total in the site's 45 years of record (see page 17).

While *Cempaka* remained offshore from Indonesia, heavy rainfall caused flooding and landslides across the southern half of Java and Bali, killing at least 41 people and causing extensive structure damage.

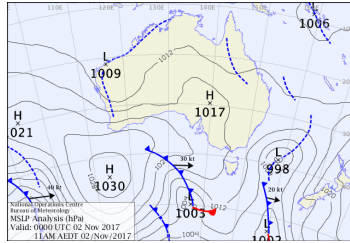
Neither cyclone caused any direct impacts on mainland Australia.

Synoptic analyses and summary

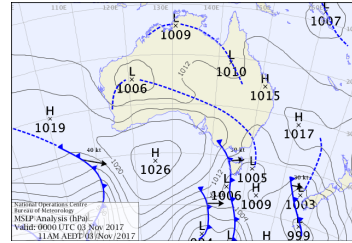
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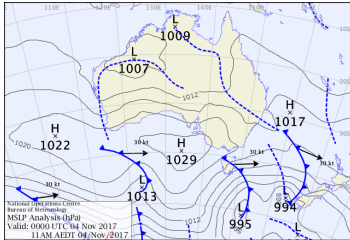
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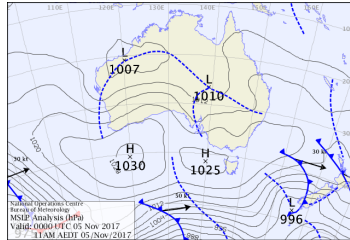
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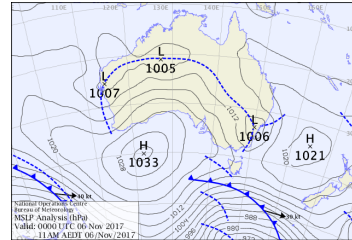
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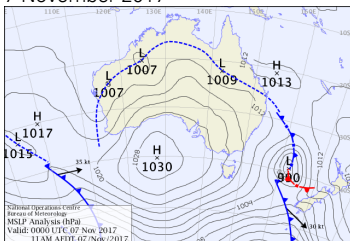
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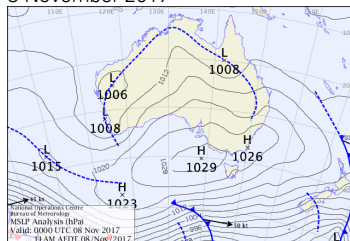
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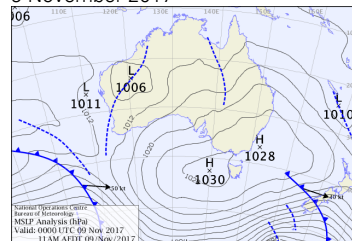
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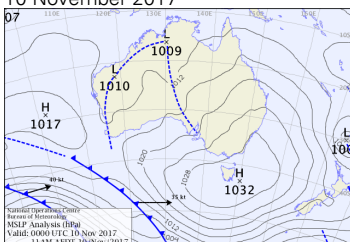
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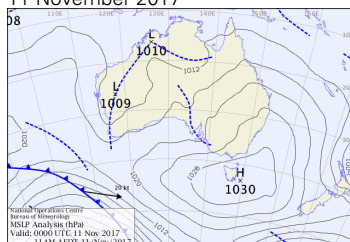
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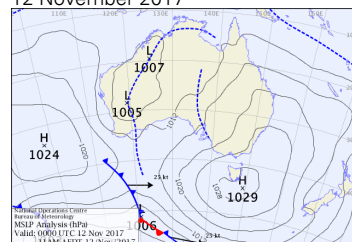
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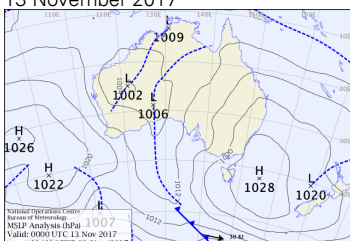
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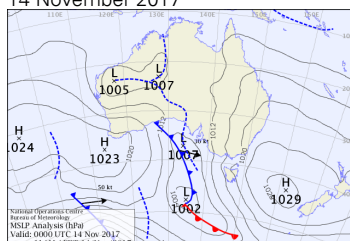
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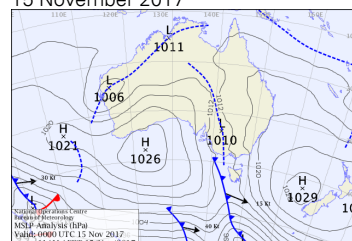
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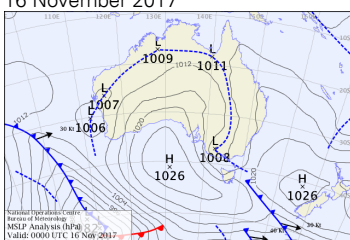
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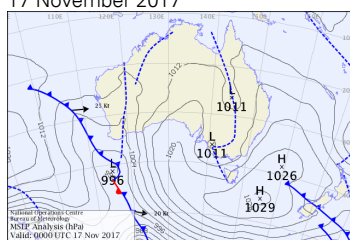
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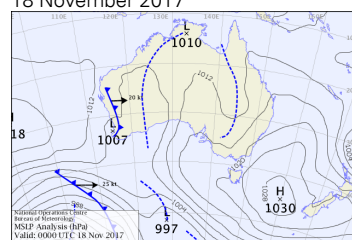
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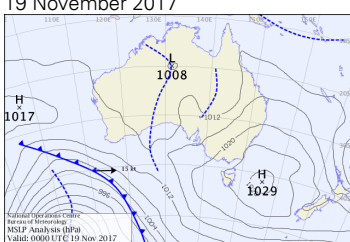
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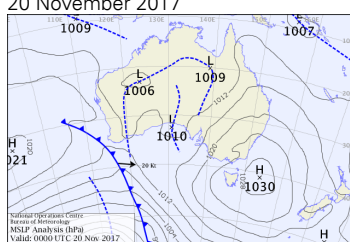
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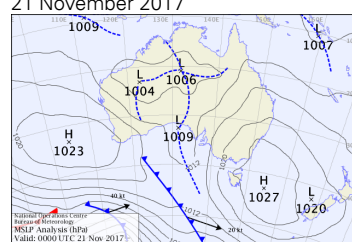
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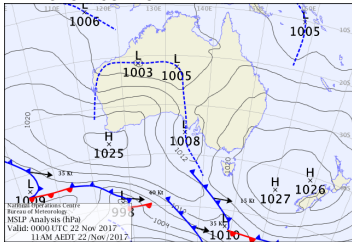
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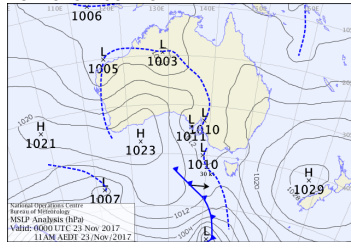
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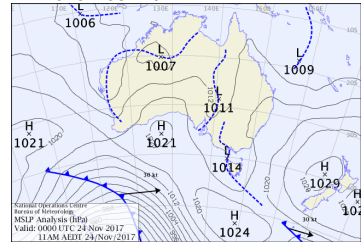
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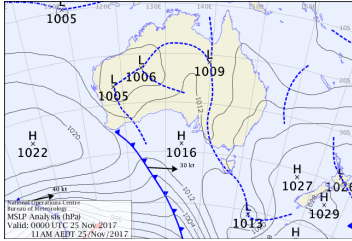
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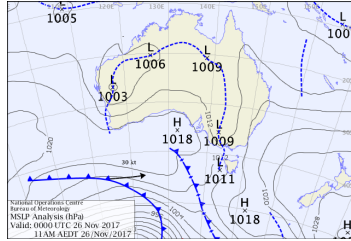
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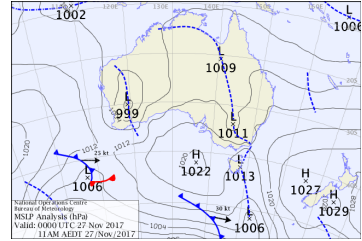
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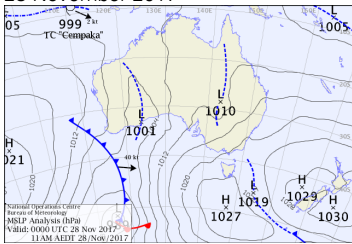
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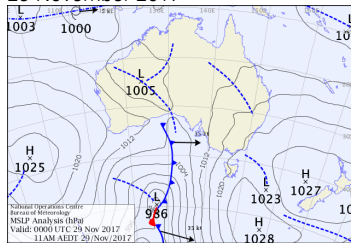
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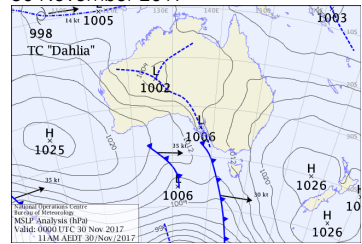
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29 November 2017



30 November 2017



Synoptic summary

Atmospheric circulation in the Australian region during November was dominated by a very strong ridge of high pressure to the south of the continent and over the south Tasman Sea. The mean monthly sea level pressure south and east of Tasmania was more than 7 hPa above the long-term average for November.

The main contributor to the monthly mean was a blocking high pressure system, which originally moved into the Australian region on the 8th. By the 10th it was centred east of Tasmania and gradually moved into the central south Tasman Sea by the 13th. There was a brief interruption to the conditions over southeastern Australia when a marked trough moved over western Victoria on the 15th before becoming near-stationary over the next two days. By the 18th, with the Tasman high still in place,

northeasterly flow became re-established over southeast Australia where it continued until the end of the month.

A broad trough extending around the northwest of Western Australia and into the Northern Territory was a dominant feature for much of the month, with a trough also lying along the west coast during the first half of the month. These troughs enhanced the generally east to northeasterly flow across the continent while also triggering thunderstorms in the west, some locally severe.

Tropical cyclones *Cempaka* and then *Dahlia* formed in the monsoon trough to the northwest of Australia late in the month.

Temperatures

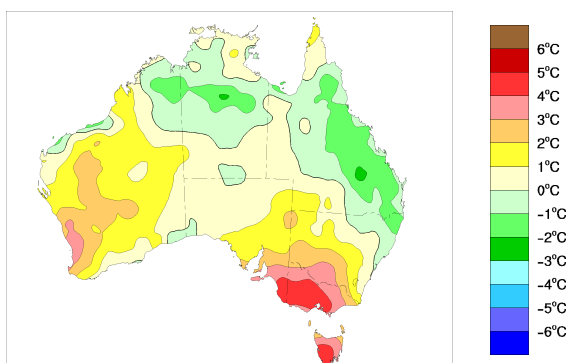
Maximum, minimum and mean temperatures for November were above average for Australia as a whole, and particularly warm across the south. Exceptionally high temperature anomalies were experienced in Tasmania and Victoria. Tasmania's mean temperature was 2.58 °C above average, exceeding the previous record from 2000 by half a degree; its mean maximum temperature was 3.79 °C above average, exceeding the previous record from 1914 by almost two degrees; and its mean minimum temperature was third-warmest on record at 2.09 °C above average. Victoria's mean maximum and mean minimum were third-warmest (but well short of the extraordinary values from 2009), and its mean temperature was second-warmest on record. Mean minimum temperatures were eighth-warmest for South Australia and Western Australia.

Australia's mean temperature was 0.69 °C above average, with the mean maximum 0.60 °C above average and the mean minimum 0.78 °C above average.

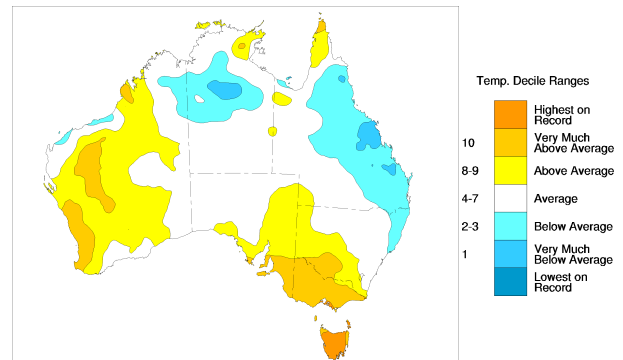
Maximum temperatures

Maximum temperatures were above average across most of Western Australia, coastal and eastern South Australia, the southwestern half of New South Wales, all of Victoria, and all of Tasmania. Maxima were in the warmest 10% of historical observations (decile 10) for November across nearly all of Victoria, and warmest on record for nearly all of Tasmania.

Anomalies of mean daily maximum temperature in November 2017



Decile rank of mean daily maximum temperature in November 2017



Maxima were below average for eastern Queensland except the northern Cape York Peninsula, coastal northeastern New South Wales, and a large area in the inland north of the Northern Territory, extending into the adjacent eastern Kimberley. Cooler days in eastern Australia were assisted by easterly airflow across much of New South Wales, extending into Queensland, associated with the long-lived high pressure system over the Tasman Sea.

November started relatively cool across much of the country, especially in the south, but from the 9th a strong blocking high pressure system settled over the southern Tasman Sea, maintaining a persistent northerly airflow over much of the southeast until late in the month. A prolonged warm spell affected Victoria and Tasmania, breaking many temperature records (see page 14) but characterised more by extended warmth than especially hot days.

A number of records for consecutive warm days were broken in the southeast, including twelve consecutive days over 25 °C at Sale in Victoria, nine consecutive days over 28 °C at Melbourne (Olympic Park), nine consecutive days over 26 °C at Hobart, and nine consecutive days over 25 °C at Launceston.

Numerous records were also set for total number of warm days in the month at multiple sites in Tasmania and Victoria. A Special Climate Statement *A prolonged warm spell in Tasmania and Victoria* details this event.

Persistently warm to hot days were also experienced in northwest and central Western Australia, with Telfer in the Pilbara recording twenty consecutive days over 40 °C, starting on the 16th and extending into December

While Victoria and Tasmania were experiencing a warm spell, areas in eastern New South Wales and southeastern Queensland experienced runs of cooler days and nights due to consistent easterly flow;

Armidale for example had a November record number of 12 days below 22 °C.

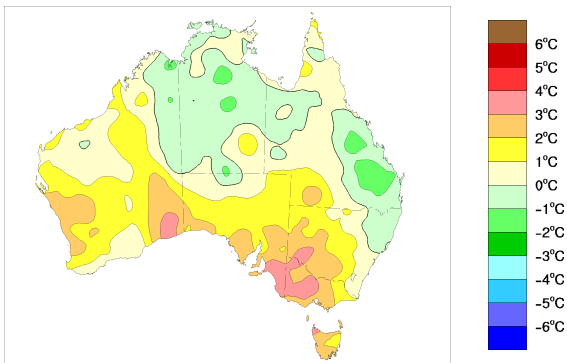
The highest temperature reported during November was on the 22nd with 45.1 °C at Marble Bar in Western Australia, which also had the warmest days on average for the month with a mean daily maximum of 41.3 °C.

The coolest day was at Mount Baw Baw with 0.0 °C on the 3rd, whilst the the coolest days on average were at Thredbo AWS with 13.0 °C.

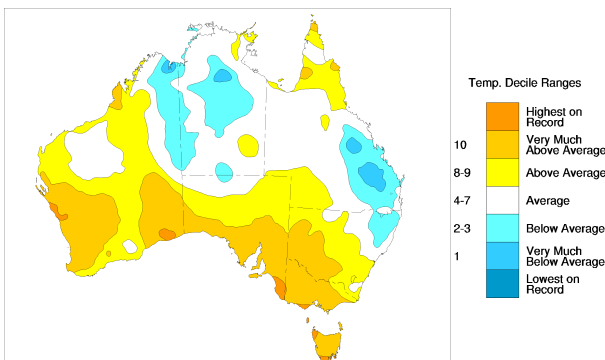
Minimum temperatures

Minimum temperatures for the month were above to very much above average across most of Western Australia, nearly all of South Australia except part of the northern border, Queensland's Channel Country, much of New South Wales except the northeast, all of Victoria, and all of Tasmania.

Anomalies of mean daily minimum temperature in November 2017



Decile rank of mean daily minimum temperature in November 2017



Minima were below average for the month in Western Australia along the Northern Territory border, in an area of the central Northern Territory, and in an area of eastern Queensland extending south from about the Central Highlands and Coalfields District, into northeastern New South Wales.

A cool start to the month saw frost in parts of Victoria and Tasmania during the first week of November, with significant crop damage reported in western Victoria, particularly in legume crops which were at a vulnerable growth stage. Cool nights between the 4th and 6th saw some low overnight temperature records for November set in the southeastern States (see page 14).

The extended warm spell over Victoria and Tasmania was also apparent in minimum temperatures. November records for consecutive nights above 15 °C were set widely in Tasmania and southern Victoria. Melbourne had fourteen consecutive nights above 15 °C from 14 to 27 November, well in excess of the previous November record of nine. Hobart's five consecutive nights above 15 °C was also a November record, whilst Burnie's twelve consecutive nights above 15 °C more than doubled its previous November record.

Meanwhile, some sites in the southeastern interior of Queensland had their lowest November mean daily minimum temperature since 1996.

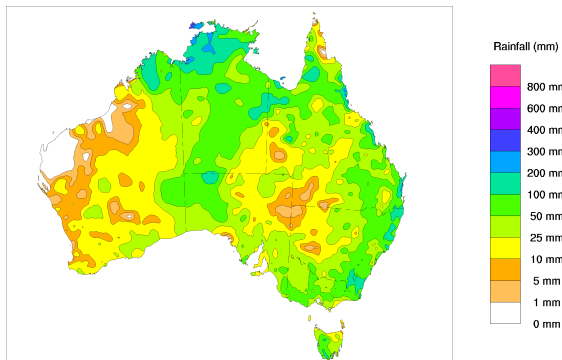
The coldest night was at Thredbo AWS in New South Wales with -6.5 °C on the 4th, whilst the coolest nights on average were at Perisher Valley AWS (also in New South Wales) with a mean daily minimum temperature of 2.1 °C.

Some very warm nights were experienced in Western Australia, with a minimum temperature of 29.8 °C at Roeburne and Wittenuom on the 6th and again at Wittenuom on the 22nd.

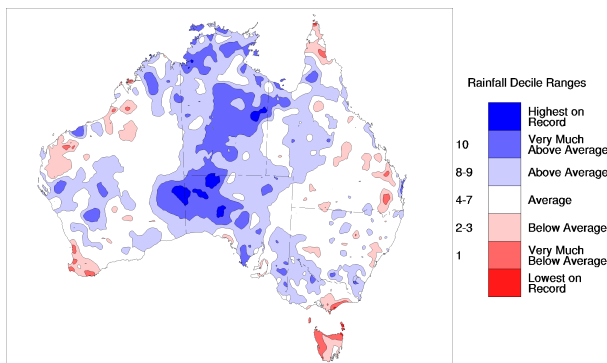
Rainfall

November rainfall for Australia as a whole was about 27% above average.

Total rainfall in November 2017



Decile rank of total rainfall in November 2017



Above to well above average rainfall was received across the Northern Territory and South Australia; in northern, central western and southern parts of Western Australia; and in parts of northwestern Queensland and western Victoria. Rainfall was below average for nearly all of Tasmania, Gippsland in Victoria, and scattered small areas near the west and east coast of the country. Elsewhere recorded near-average rainfall.

The highest daily rainfall was 157.8 mm at Wamuran in Queensland in the 24 hours to 9 am on the 30th, and the highest monthly total was recorded at Bellenden Ker Top Station in Queensland with 566.4 mm.

At the start of the month, a broad surface trough stretched across the tropical north and along the east coast of Australia, generating showers and thunderstorms in the Kimberley, Top End in the Northern Territory, and in northern and east coast Queensland. As the trough deepened, widespread showers and thunderstorms with moderate to locally heavy falls were recorded in Queensland's southern interior, and in eastern New South Wales; the following day in far eastern Victoria.

Around the 6th, a broad surface trough extended across northern Australia and down the east coast, connecting to a low pressure system located of the New South Wales east coast. Associated thunderstorms and showers with moderate rainfall totals developed in southeastern Queensland and eastern New South Wales, the northwest Top End of the Northern Territory. Isolated showers formed in central and eastern parts of Western Australia. The trough along inland Queensland generated showers and thunderstorms in the State's east, before drifting westwards and producing thunderstorms in the State's west and about the Gulf Country, while a moist onshore flow produced moderate to locally heavier falls about the north tropical coast.

Around the 14th, an extensive cloudband associated with a cold front and surface trough tracked across southeastern Australia. Thunderstorms and showers produced moderate to locally heavy falls in the eastern half of South Australia, western Victoria, southwestern New South Wales and parts of southern Tasmania. A low deepened over western Victoria, with the associated easterly trough becoming nearly stationary and extending north through western New South Wales and Queensland to a weak heat low in the Gulf Country. Moderate falls and thunderstorms were recorded in much of Victoria, while light to moderate falls were reported in the eastern half of New South Wales, and in Queensland's southern and central interior. Thunderstorms and showers produced moderate falls across much of the southeastern quarter of Queensland and in northeastern New South Wales on the following days.

A series of low pressure troughs over northern and central Australia generated thunderstorms and showers, with moderate to locally heavy falls reported in the Kimberley, the west of the Northern Territory and the Top End, the Gulf Country, and Central Australia between the middle and end of the week. At the end of the week a broad area of low pressure developed over the northern interior of Queensland, while a very moist northeasterly airstream directed showers onto the north tropical coast of Queensland. Moderate to locally heavy falls were recorded across much of northern Queensland.

In the west, a cold front with an associated middle level cloudband and embedded thunderstorms tracked over southwest Western Australia during the middle of the week. Light to moderate falls were recorded in the South West Land Division and southern coast of Western Australia.

In the last week of the month, a series of low pressure troughs over northern and western Australia generated thunderstorms in a moist tropical airmass, with moderate falls in the Kimberley, Top End and northern Queensland. A complex low, together with a surface trough over South Australia, produced thunderstorms with moderate falls reported in southern and central parts of the State. Broad areas of low pressure stretched across central Western Australia to western Queensland, then south along South Australia's eastern border.

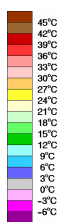
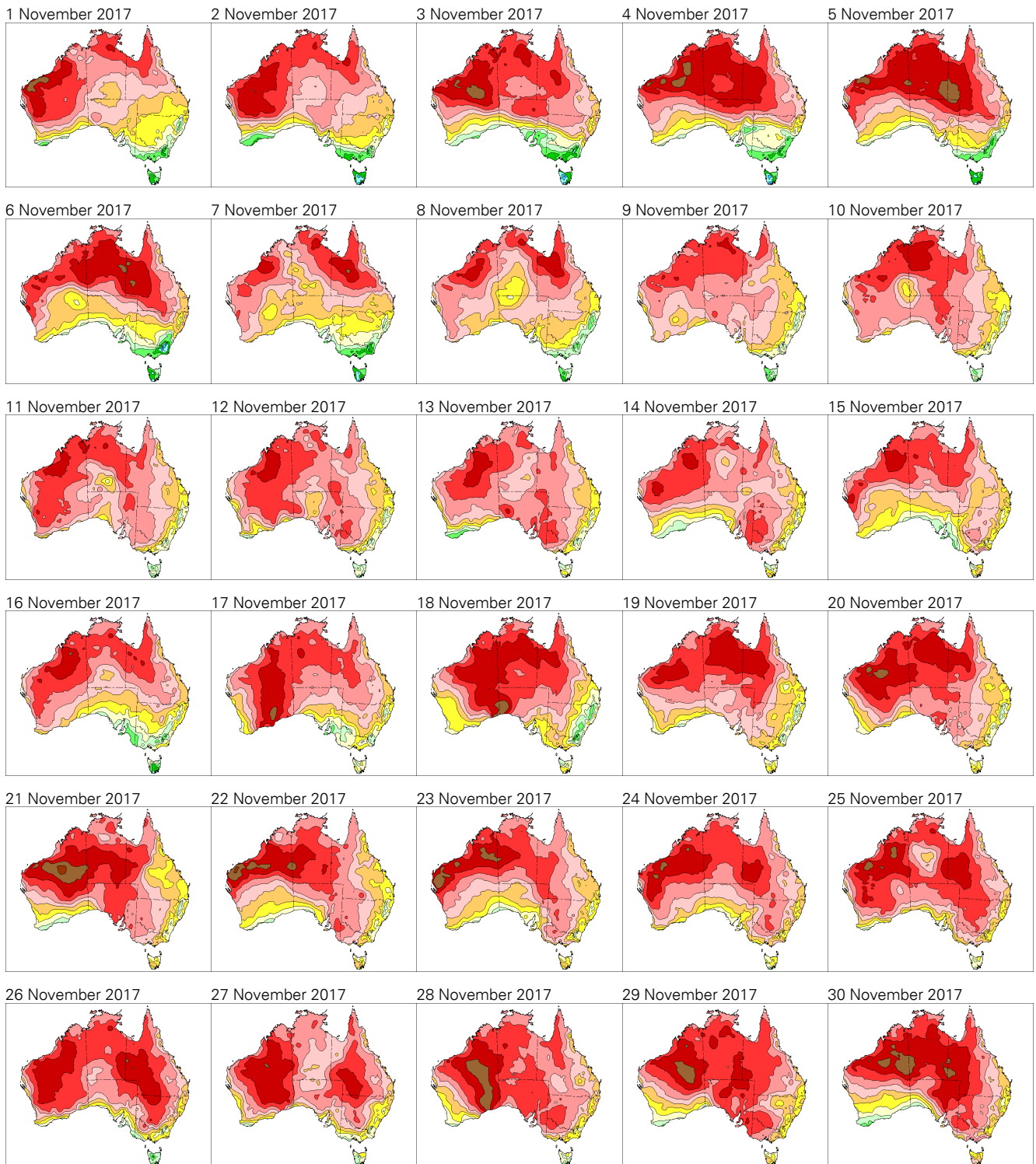
The surface trough combined with an upper level trough, generating thunderstorms and showers with moderate falls. Light to moderate showers also fell over parts of southern Victoria, the Alpine region, and Tasmania as the surface trough moved over South Australia to Victoria. In the last days of the month, a

weak low pressure system developed over the Goldfields in Western Australia and produced light rainfall in the southern Western Australia.

At the same time, a surface trough covering southern parts of the Northern Territory and further south through western Queensland and New South Wales to Tasmania moved slowly eastward. Extensive thunderstorm activity was recorded along much of the trough. Moderate falls were recorded from the northern Kimberley, across the Top End of the Northern Territory, through central Australia, down to southeastern Australia, including Tasmania. As the trough tracked eastwards, further thunderstorms and showers developed with moderate falls recorded in the Gulf Country and in central and eastern New South Wales.

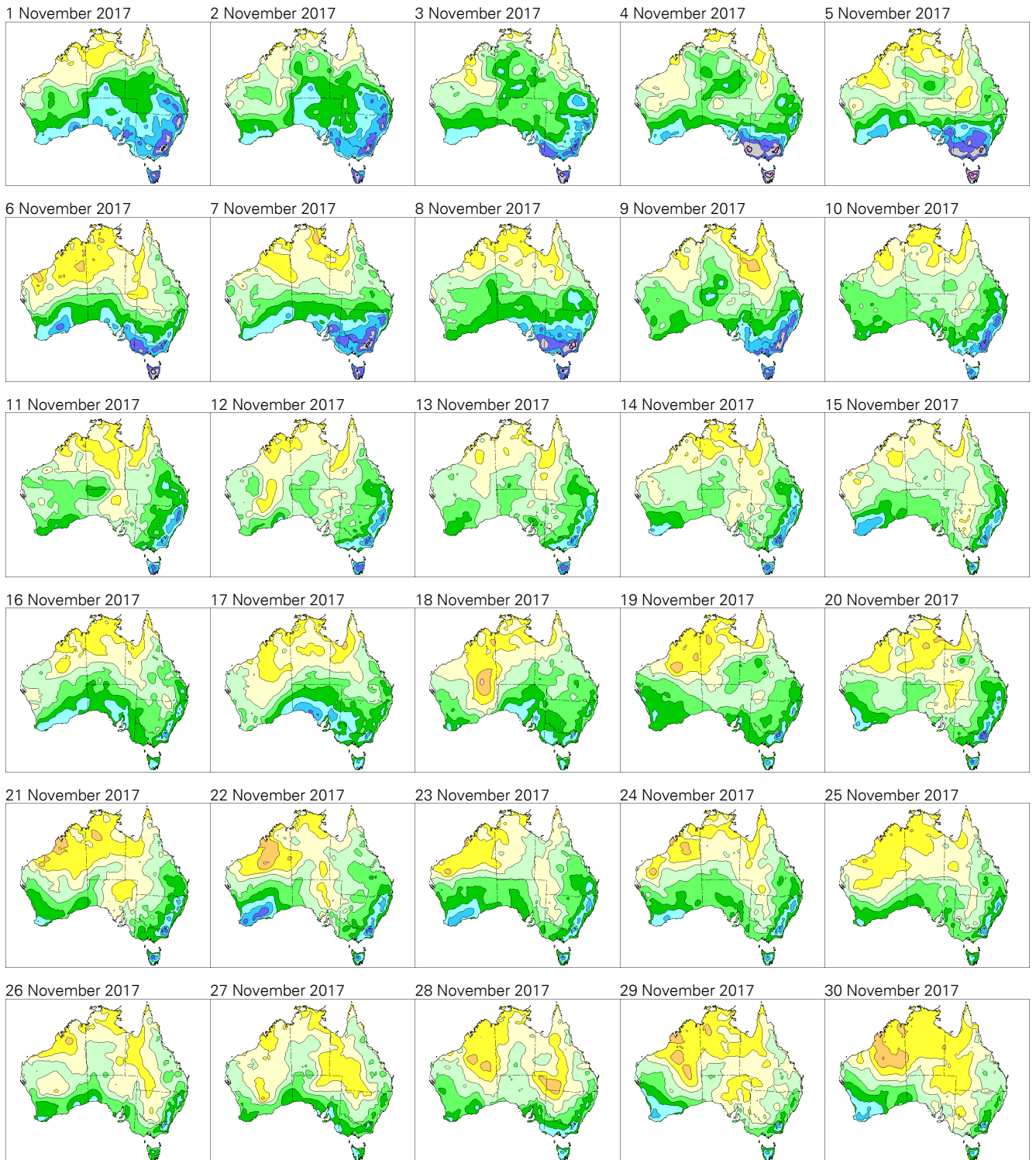
Daily maps

Daily maximum temperature maps



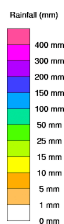
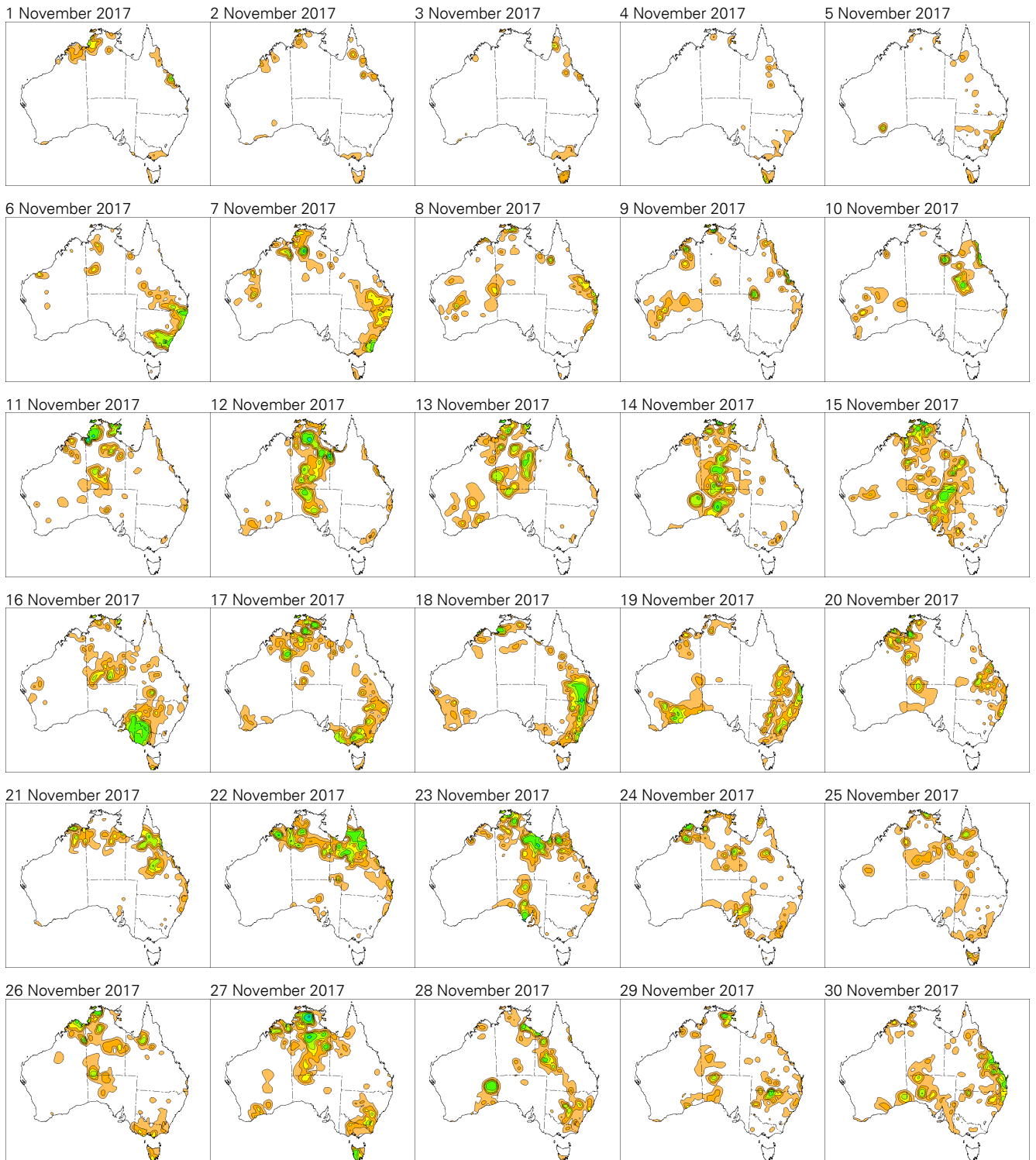
These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables,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

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/.

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/.

Records

Record highest November daily maximum temperature				
		New record	Old record	Years of record
Western Australia				
200284	Cocos Island Airport	31.1 on 7th	= 31.1 on 30th in 2016	66
<i>= indicates the new record equals the old one.</i>				

Record highest November mean maximum temperature				
		New record	Old record	Years of record
Western Australia				
009053	Pearce RAAF	30.9	30.7 in 2015	57
South Australia				
026021	Mount Gambier Aero	26.2 =	26.2 in 2009	76
Victoria				
086038	Essendon Airport	27.0	26.8 in 2009	48
086077	Moorabbin Airport	26.4	25.7 in 2009	47
086104	Scoresby Research Institute	26.5	26.2 in 2009	58
086127	Wonthaggi	24.4	23.8 in 2009	48
086351	Bundoora (Latrobe University)	27.3 =	27.3 in 2009	34
087031	Laverton RAAF	25.8 =	25.8 in 2009	75
Tasmania				
091009	Burnie (Round Hill)	20.4	20.1 in 2009	69
091219	Scottsdale (West Minstone Road)	22.3	20.9 in 2009	46
091237	Launceston (Ti Tree Bend)	24.4	22.5 in 2007	35
092012	Fingal (Legge Street)	22.8	21.6 in 2009	32
092045	Irapuna (Eddystone Point)	20.3	20.2 in 2009	106
094008	Hobart Airport	22.9	22.3 in 1982	60
094010	Cape Bruny Lighthouse	18.3	17.6 in 1959	95
094029	Hobart (Ellerslie Road)	22.4	21.5 in 1921	136
094041	Maatsuyker Island Lighthouse	17.2	16.7 in 2000	81
094087	Kunanyi (Mount Wellington Pinnacle)	13.9	12.8 in 2009	34
095003	Bushy Park (Bushy Park Estates)	24.6	23.4 in 1937	82
096003	Butlers Gorge	20.3	18.2 in 2009	56
097000	Cape Sorell	20.1	18.1 in 2012	78
099005	Flinders Island Airport	21.9	21.5 in 2009	55
<i>= indicates the new record equals the old one.</i>				

Highest November mean maximum temperature for at least 30 years			
		Observed this month	Most recent higher
Tasmania			
092027	Orford (Aubin Court)	20.8	22.3 in 1982
<i>* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.</i>			

Record lowest November daily minimum temperature			
	New record	Old record	Years of record
Northern Territory			
014626 Daly Waters Airstrip	13.6 on 3rd	14.0 on 26th in 2003	48
South Australia			
025507 Keith	0.5 on 4th	0.6 on 3rd in 1974	55
026091 Coonawarra	-0.2 on 4th	0.0 on 28th in 1986	33
Queensland			
036007 Barcaldine Post Office	10.0 on 2nd =	10.0 on 1st in 1964	56
Victoria			
078077 Warracknabeal Museum	0.5 on 4th	1.0 on 22nd in 1984	46
Tasmania			
092012 Fingal (Legge Street)	-2.1 on 5th	-1.7 on 15th in 2006	32
<i>= indicates the new record equals the old one.</i>			

Lowest November mean minimum temperature for at least 30 years		
	Observed this month	Most recent lower month
Queensland		
039314 Seventeen Seventy	19.3	19.1 in 1987

Record highest November daily minimum temperature			
	New record	Old record	Years of record
Western Australia			
012038 Kalgoorlie-Boulder Airport	26.6 on 27th	25.6 on 23rd in 1980	77
Victoria			
087031 Laverton RAAF	23.4 on 30th	23.1 on 30th in 2012	75
090171 Portland (Cashmore Airport)	20.3 on 30th	18.7 on 20th in 2009	36
Tasmania			
091107 Wynyard Airport	17.5 on 17th	16.4 on 3rd in 2005	31
092045 Irapuna (Eddystone Point)	17.2 on 26th	16.2 on 29th in 1983	106
094041 Maatsuyker Island Lighthouse	18.2 on 30th	16.9 on 8th in 2005	61
095003 Bushy Park (Bushy Park Estates)	17.0 on 26th	16.8 on 8th in 2014	56

Record highest November mean minimum temperature				
		New record	Old record	Years of record
Western Australia				
009021	Perth Airport	15.4	15.1 in 2013	74
010524	Brookton	13.7	13.4 in 2013	51
South Australia				
018044	Kyancutta	14.0 =	14.0 in 2009	88
026091	Coonawarra	12.6	12.1 in 2009	33
New South Wales				
067019	Prospect Reservoir	16.1 =	16.1 in 2009	51
Victoria				
090171	Portland (Cashmore Airport)	12.7	12.3 in 2009	36
Tasmania				
094008	Hobart Airport	11.3	11.2 in 2009	60
094010	Cape Bruny Lighthouse	12.2	11.3 in 2000	94
094029	Hobart (Ellerslie Road)	12.1	11.7 in 2000	136
094041	Maatsuyker Island Lighthouse	11.0	10.7 in 2000	81
094087	kunanyi (Mount Wellington Pinnacle)	5.5	4.4 in 2009	34
097000	Cape Sorell	12.3	11.3 in 1919	78
<i>= indicates the new record equals the old one.</i>				

Highest November mean minimum temperature for at least 30 years				
		Observed this month	Most recent higher	
Western Australia				
009037	Badgingarra Research Stn	15.2	17.2 in 1966 *	
009538	Dwellingup	12.8	13.0 in 1982 *	
011019	Eyre	14.3	15.1 in 1914 *	
South Australia				
023733	Mount Barker	12.4	12.6 in 1869 *	
Victoria				
090015	Cape Otway Lighthouse	13.8	14.0 in 1897 *	
<i>* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.</i>				

Record highest November mean temperature				
		New record	Old record	Years of record
Western Australia				
009021	Perth Airport	22.7	22.3 in 2013	74
009037	Badgingarra Research Stn	23.2	22.6 in 1966	50
009538	Dwellingup	20.2	19.9 in 2013	80
South Australia				
023000	Adelaide (West Terrace / ngayirdapira)	22.2	22.1 in 1902	93
Victoria				
086077	Moorabbin Airport	20.0	19.8 in 2009	47
086104	Scoresby Research Institute	19.9	19.8 in 2009	58
086127	Wonthaggi	18.3 =	18.3 in 2009	48
090171	Portland (Cashmore Airport)	17.4	17.3 in 2009	36
Tasmania				
091219	Scottsdale (West Minstone Road)	16.1 =	16.1 in 2000	46
091237	Launceston (Ti Tree Bend)	17.3	16.8 in 2009	35
092012	Fingal (Legge Street)	15.4	15.2 in 2009	32
092045	Irapuna (Eddystone Point)	16.5	16.3 in 2009	106
094008	Hobart Airport	17.1	16.1 in 1982	60
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094041	Maatsuyker Island Lighthouse	14.1	13.7 in 2000	81
094087	Kunanyi (Mount Wellington Pinnacle)	9.6	8.6 in 2009	34
095003	Bushy Park (Bushy Park Estates)	16.6	16.2 in 1937	82
096003	Butlers Gorge	12.8	11.8 in 2009	56
097000	Cape Sorell	16.2	14.3 in 2012	78
099005	Flinders Island Airport	16.9	16.8 in 2009	55

= indicates the new record equals the old one.

Highest November mean temperature for at least 30 years			
		Observed this month	Most recent higher
Tasmania			
092027	Orford (Aubin Court)	15.6	16.0 in 1982

Record highest November daily rainfall				
		New record	Old record	Years of record
Western Australia				
008067	Koobabbie	33.4 on 10th	29.2 on 17th in 1983	107
008238	Hakea	48.2 on 10th	41.2 on 17th in 1983	107
200790	Christmas Island Aero	212.6 on 29th	189.4 on 27th in 2016	45
Northern Territory				
014112	Nightcliff Pool	87.6 on 20th	82.6 on 5th in 2013	36
014847	Kidman Springs	89.4 on 20th	88.0 on 1st in 2016	49
015086	Newcastle Waters	68.0 on 27th	67.3 on 11th in 1950	115

= indicates the new record equals the old one.

Record highest November daily rainfall				
		New record	Old record	Years of record
South Australia				
018005	Yeelana (Brimpton Lake)	40.4 on 23rd	35.3 on 1st in 1939	105
018113	Wharminda	46.2 on 23rd	36.6 on 4th in 2015	70
024024	Loxton Research Centre	49.2 on 16th	35.0 on 5th in 2015	34
024547	Nildottie	39.4 on 16th	31.2 on 11th in 1970	52
024554	Tailem Bend (River Downs (Naturi))	31.8 on 16th	30.0 on 29th in 1977	49
025036	Kulkami	57.0 on 16th	39.0 on 12th in 1998	48
025506	Geranium	57.4 on 16th	40.2 on 5th in 2015	108
025512	Parrakie	59.2 on 16th	38.8 on 5th in 2015	110
Queensland				
032104	Christmas Creek Station	68.5 on 22nd	62.6 on 18th in 1977	39
036147	Dotswood	101.0 on 21st	68.6 on 6th in 1987	89
037104	Weona	85.4 on 10th	75.0 on 18th in 2007	54
040189	Somerset Dam	126.6 on 30th	114.0 on 1st in 1976	81
040343	Wamuran	157.8 on 30th	126.0 on 1st in 1976	65
New South Wales				
048006	Enngonia (Belalie)	67.6 on 29th	62.7 on 5th in 1886	109
049002	Balranald (RSL)	84.7 on 16th	71.6 on 28th in 1882	138
050014	Condobolin Retirement Village	84.6 on 28th	63.2 on 1st in 1992	132
055006	Blackville Post Office	90.6 on 18th	71.4 on 26th in 2011	128
061295	Nulkaba (O'Connors Road)	66.0 on 17th	65.0 on 8th in 1978	48
062036	Ulan Water	83.6 on 18th	77.5 on 19th in 1925	88
Victoria				
076015	Irymple (Arlington)	67.0 on 16th	54.4 on 17th in 1961	110
076064	Walpeup Research	46.0 on 16th =	46.0 on 12th in 1998	79
080004	Canary Island	80.4 on 16th	79.8 on 12th in 1998	130
081090	Moliagul	63.0 on 17th	51.0 on 28th in 2010	50
081100	Woodstock-on-Loddon (Alexandra Park)	44.0 on 16th	43.8 on 12th in 1998	47
088029	Heathcote	66.4 on 17th	53.8 on 12th in 1970	135
088073	Baynton	97.6 on 17th	57.7 on 19th in 1978	63
088121	High Camp (Lannermoor)	77.4 on 17th	69.3 on 12th in 1970	49
090095	Coleraine (Melville Forest)	62.8 on 17th	56.6 on 16th in 1970	63

= indicates the new record equals the old one.

Record highest November total rainfall				
		New record	Old record	Years of record
Western Australia				
001018	Mount Elizabeth	181.0	175.9 in 2012	44
Northern Territory				
015040	Soudan	148.5	106.2 in 2000	47
015086	Newcastle Waters	177.9	177.5 in 2011	127
South Australia				
024024	Loxton Research Centre	55.5	48.2 in 1988	32
Queensland				
029065	Nardoo Station	201.0	170.5 in 1966	52

Highest November total rainfall for at least 30 years			Observed this month	Most recent higher
Western Australia				
008104	Ogilvie		34.8	36.2 in 1965
008238	Hakea		49.0	50.2 in 1983
Northern Territory				
014142	Pirlangimpi Airport		408.0	474.8 in 1975 *
014401	Warruwi Airport		174.0	180.4 in 1975
South Australia				
016059	Tarcoola (Mobella)		47.8	63.0 in 1966 *
018005	Yeelana (Brimpton Lake)		59.2	64.2 in 1964 *
018007	Yeelana (Brooker)		50.8	67.4 in 1964
018017	Port Lincoln (Big Swamp)		61.2	72.4 in 1964 *
018019	Coulta		65.4	73.2 in 1979
018046	Lock		52.4	64.8 in 1977 *
018049	Butler Tanks (North Parnda)		52.6	66.6 in 1964
018086	Tumby Bay		54.0	56.4 in 1979 *
018088	Ungarra		44.4	46.8 in 1977 *
018091	Tumby Bay (Warratta Vale)		59.4	65.2 in 1964 *
018107	Port Lincoln (Woolga)		58.4	64.6 in 1979 *
018137	Port Lincoln (Westmere)		61.4	90.0 in 1964 *
018171	Mount Hope (Fairview)		46.8	88.2 in 1979
018203	Tumby Bay (Yadnarie)		64.2	73.0 in 1964 *
026007	Frances		81.4	87.2 in 1984
026058	Bordertown (Beeamma Section 95)		100.0	109.8 in 1970
Queensland				
037010	Camooweal Township		105.0	128.0 in 1941 *
040068	Double Island Point Lighthouse		179.0	257.4 in 1983 *
New South Wales				
070057	Braidwood (Krawarree)		225.6	315.4 in 1966
Victoria				
080017	Gladfield Hopefield Estate		119.0	121.1 in 1889 *

* *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
Western Australia				
009168	Karragullen	0.0	1.0 in 1999	46
009172	Jandakot Aero	1.6	1.8 in 1972	44
009182	Maida Vale	1.0	2.6 in 1982	33
009207	Pickering Brook North	2.6 =	2.6 in 1999	30
009216	Victoria Dam	1.8	2.6 in 1999	48
009518	Cape Leeuwin	2.0	3.8 in 1957	121
009599	Barrett Meadows	8.8	10.2 in 1972	100
009609	Youngs Siding	5.0	5.9 in 1957	94
009766	Little Grove	8.4	15.8 in 1993	44
009891	Pinjarra Refinery	1.2	3.6 in 1999	32
Queensland				
041314	Brookstead Post Office	10.6	12.0 in 1980	59
Tasmania				
091082	Redpa (Greenes Road)	9.0	19.8 in 2003	65
091173	Tomahawk (Carisbrooke)	8.2	14.0 in 1982	53
091223	Marrawah	11.6	16.0 in 2007	47
091245	Cape Grim BAPS (Comparison)	8.8	10.4 in 2007	30
092011	Gladstone (Old Post Office)	12.6	13.2 in 1919	93
092045	Irapuna (Eddystone Point)	7.8	9.0 in 1982	108
092067	Rushy Lagoon (Cape Portland Road)	5.4	13.6 in 1982	48
099000	Cape Barren Island (Long Beach)	4.2	9.7 in 1911	102
099005	Flinders Island Airport	1.0	15.0 in 1982	75
099015	Whitemark Post Office	1.0	14.4 in 1982	56

= indicates the new record equals the old one.

Lowest November total rainfall for at least 30 years

		Observed this month	Most recent lower
Western Australia			
009009	Lower Chittering	2.6	2.1 in 1972 *
009021	Perth Airport	1.8	1.3 in 1957
009500	Albany	12.7	6.1 in 1972
009506	Bangalup	9.0	3.9 in 1972 *
009527	Dardanup East	0.8	0.0 in 1943
009531	Denmark	15.0	8.9 in 1972
009678	Redmond	10.2	4.4 in 1972 *
009985	Little Chorkerup	14.0	7.9 in 1972 *
Queensland			
041053	Jondaryan Post Office	7.4	3.0 in 1982 *
041072	Mount Irving	5.0	0.0 in 1982 *
041240	Hereward	10.8	2.6 in 1982 *
New South Wales			
051122	Curban (Ercildoune)	4.5	0.6 in 1980 *
061017	Dungog Post Office	27.8	17.8 in 1982
061095	Rouchel Brook (Albano)	13.2	11.8 in 1980
Victoria			
081013	Dookie Agricultural College	9.3	6.2 in 1982 *
084008	Cabbage Tree Creek	38.0	21.7 in 1984 *
085023	Drouin Bowling Club	34.4	28.5 in 1937 *
085033	Giffard	5.6	3.6 in 1977
085073	Seaspray (Burong)	8.4	5.6 in 1909 *
085091	Walhalla	49.0	17.6 in 1964 *
085160	Darriman (Tarralangi)	10.2	7.8 in 1982 *
085167	Meerlieu (Springvale West)	14.4	5.2 in 1982 *
085238	Erica (Parkers Corner)	40.8	37.2 in 1982 *
085277	Noojee (Slivar)	44.4	34.6 in 1982 *
086036	Epping	17.0	14.8 in 1982
Tasmania			
091001	Beaconsfield (Mine & Heritage Centre)	8.2	2.5 in 1911
091041	Hillwood (Hillwoodville)	15.8	15.0 in 1967
091053	Lilydale Post Office	14.0	2.3 in 1911 *
092030	Pioneer (Main Road)	18.2	17.3 in 1942 *
099001	Deal Island	2.4	1.0 in 1895 *
099014	Memana (Babel Farm)	14.2	13.2 in 1982 *

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

Selected observations

Daily and mean maximum temperatures for November 2017

	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	
Western Australia																																
001019 Kalumburu	37.0	37.9	38.0	39.9	37.4	36.6	36.6	33.2	38.1	38.6	38.3	38.0	36.9	37.3	36.7	38.1	37.1	36.6	38.6	35.1	37.2	37.2	36.1	37.3	36.8	36.8	36.3	35.6	35.4	36.2	35.7	
002056 Kununurra Aero	38.2	35.2	39.1	39.6	40.8	40.4	38.5	34.7	37.3	38.8	41.6	39.7	38.9	36.8	38.4	37.3	37.3	38.0	39.5	38.4	38.8	37.9	33.6	38.8	34.1	39.2	37.5	36.9	38.8	39.8	39.8	
003003 Broome Airport	33.7	+0.1	33.8	36.0	32.6	33.3	32.5	32.7	34.9	32.5	33.0	34.9	33.7	31.7	31.7	32.2	32.5	33.1	32.6	36.8	33.5	34.9	34.4	34.2	34.3	33.2	35.2	33.5	33.5	34.5	34.1	
003032 Derby Aero	38.8	39.2	38.6	39.2	40.9	36.6	36.2	36.2	37.3	37.5	38.3	41.1	41.9	39.8	37.0	39.8	39.6	38.8	39.9	38.2	37.6	37.6	39.5	39.2	36.8	38.7	39.0	39.1	39.7	40.3	40.2	
004032 Port Hedland Airport	35.9	-0.3	42.5	32.9	35.1	36.9	42.9	35.4	33.6	35.9	34.1	39.7	37.4	32.8	31.6	31.7	32.0	33.5	33.3	35.4	35.1	36.6	37.4	35.8	39.8	38.9	36.9	33.4	35.1	36.8	36.6	37.2
004083 Karratha Aero	34.6	41.2	33.8	34.3	37.8	39.1	39.1	32.6	33.4	35.9	34.5	30.7	31.3	30.3	29.8	30.6	31.4	31.7	32.2	32.7	34.9	39.0	40.5	37.3	35.7	35.6	34.8	32.0	33.2	36.0	37.6	
004106 Marble Bar	41.3	43.3	41.6	42.8	43.5	43.1	39.5	38.3	39.4	39.7	39.6	40.1	39.9	37.5	38.1	38.2	40.1	39.1	40.3	41.8	43.3	44.4	45.1	43.2	43.1	44.6	40.7	41.8	41.9	41.3	42.5	
005007 Learmonth Airport	35.3	40.3	38.3	40.6	38.5	36.5	36.5	33.2	36.4	33.8	30.2	31.1	30.5	32.1	34.0	32.7	31.1	31.6	32.0	34.1	34.3	38.5	43.3	39.8	40.3	38.2	35.1	32.3	33.0	34.9	36.0	
006011 Carnarvon Airport	28.3	+0.9	29.9	27.9	26.6	25.9	26.5	28.7	29.3	26.9	26.0	26.0	26.6	27.6	27.5	27.6	29.9	28.7	28.3	26.0	27.2	26.4	30.0	35.9	40.9	28.2	27.5	27.2	26.9	26.8	27.1	28.3
006044 Denham	28.2	28.0	27.0	26.5	28.0	35.5	30.0	30.0	27.0	25.5	26.5	26.5	26.0	23.5	32.0	36.5	27.0	27.0	25.0	27.0	24.5	29.0	32.0	38.0	28.5	26.0	25.5	25.5	25.0	26.0		
007176 Newman Aero	38.7	38.6	39.5	41.5	39.5	39.3	36.6	36.1	34.6	36.6	35.9	37.2	37.6	38.7	38.5	36.5	37.9	39.0	39.5	40.1	41.3	41.3	39.1	38.0	42.0	42.0	39.6	39.8	40.2	39.4	39.3	38.6
007185 Paraburdoo Aero	39.6	41.3	41.5	41.3	40.1	39.9	39.6	38.7	36.9	37.5	37.9	36.4	37.7	40.9	39.4	39.2	37.2	35.5	41.1	41.4	40.6	41.3	42.4	42.8	40.7	41.8	40.4	38.4	39.0	38.5		
007045 Meekatharra Airport	35.9	+2.8	39.4	40.3	38.2	35.7	35.1	35.0	34.8	35.0	35.3	35.7	36.9	36.8	36.1	37.9	32.3	37.5	33.8	30.4	33.7	38.3	36.3	33.9	35.7	39.2	40.1	36.6	33.7	33.4	33.7	
007600 Mount Magnet Aero	34.7	39.9	40.9	34.8	33.6	34.0	32.3	34.4	34.2	33.8	36.1	38.0	36.3	35.9	35.9	30.7	36.9	33.9	26.3	31.6	34.5	33.0	32.0	34.5	37.8	39.7	40.5	35.9	30.3	31.2	31.7	
008296 Morawa Airport	34.1	38.2	35.1	33.5	35.6	36.5	36.8	35.8	35.4	36.1	39.1	34.9	34.3	34.0	35.4	37.4	29.2	30.9	30.2	31.1	32.5	35.6					39.5	38.0	27.9	29.6		
008297 Dalwallinu	32.2	34.8	30.6	30.7	32.6	33.1	33.6	35.0	34.3	32.2	34.4	38.6	35.3	33.4	30.0	32.7	36.6	30.3	27.0	29.9	28.8	28.3	29.7	33.3	36.1	35.3	38.5	31.4	26.9	26.2	26.5	
008315 Geraldton Airport	29.8	28.0	28.3	27.9	34.7	38.1	38.6	35.6	31.5	26.2	29.2	26.6	23.1	25.0	31.7	37.9	33.1	27.0	24.1	25.4	24.6	27.7	33.8	27.7	34.0	26.8	28.6	24.5	25.1	28.4		
009021 Perth Airport	30.0	+4.4	30.5	27.6	26.9	30.7	31.1	32.7	36.4	35.6	31.6	32.0	38.0	32.1	30.1	29.7	31.9	36.7	25.0	24.3	24.1	24.1	27.5	29.9	31.9	33.8	32.7	35.3	28.3	23.5	23.3	24.8
009131 Jurien Bay	28.3	27.5	29.0	33.2	34.3	36.6	35.2	35.2	26.6	26.7	26.6	24.6	35.7	31.5	23.6	23.9	24.0	24.6	23.7	23.9	30.1	29.0	25.0	24.9	24.5	24.5	24.5	24.2	25.5			
009225 Perth Metro	29.3	29.4	27.5	26.1	29.8	31.4	33.0	36.2	34.7	30.7	31.8	36.9	29.9	27.2	29.5	32.1	35.7	24.9	24.1	23.4	24.5	25.6	29.7	31.3	32.6	29.9	33.0	27.7	23.4	23.0	23.7	
009240 Bickley	27.4	27.5	24.3	25.4	27.5	27.8	29.5	32.6	32.7	29.5	30.8	35.5	32.2	27.9	26.4	28.6	33.2	22.1	21.6	21.7	21.9	24.7	26.7	29.0	31.1	29.9	30.5	26.9	21.2	20.4	21.4	
009518 Cape Leeuwin	25.4	18.2	17.5	20.2	20.4	20.3	21.5	23.5		25.1	23.2	35.0																				
009617 Bridgetown	24.4	23.1	16.9	23.3	24.8	24.2	27.5	31.3	32.9	31.2					19.7	24.0	25.6	29.5	23.5	25.6	24.4	22.3	23.1	26.5	28.8	31.2	27.0	28.7	26.9	23.1	21.4	19.6
009746 Witchcliffe	25.4	19.8	18.7	22.8	23.7	25.4	29.4	31.2	30.9	29.6	28.9	30.3	22.8	19.6	21.6	26.5	30.0	22.7	23.1	20.5	22.1	21.6	24.6	28.1	25.2	23.3	23.7	23.9	20.6	21.0	19.6	
009789 Esperance	22.8	19.5	17.6	17.5	19.7	19.4	19.8	27.0	27.3	29.3	24.5	26.0	27.3	19.2	17.9	20.9	29.9	35.9	23.4	19.7	23.6	19.1	19.1	21.2	24.0	25.4	21.7	25.0	22.4	20.5	19.4	
009965 Bunbury	26.5	26.9	22.9	22.5	26.6	27.3	30.0	31.3	30.7	27.7	30.1	32.5	28.7	23.2	26.6	28.6	32.0	23.5	22.5	21.4	22.5	24.6	25.9	27.4	27.6	28.4	30.9	27.0	22.0	22.0	22.4	
009977 Mandurah	27.3	27.1	26.5	28.2	31.4	33.1	33.0	29.4	27.6	28.2	31.8	27.0	25.9	29.9	32.4	30.3	22.5	22.6	22.3	23.1	23.9	28.3	28.6	27.9	26.6	29.9	25.4	23.1	22.2	21.4		
009999 Albany Airport	22.2	16.2	15.1	18.7	20.6	19.9	21.6	25.7	27.6	30.4	27.0	24.3	19.4	18.3	18.8	21.7	30.0	27.3	23.8	25.8	24.3	20.2	22.5	25.1	19.2	21.9	20.5	21.7	20.4	18.4		
010007 Bencubbin	30.6	+1.8	33.0	29.3	28.5	30.0	29.9	30.8	32.6	32.8	30.6	32.0	34.0	35.5	29.2	31.9	27.2	31.4	35.2	31.2	25.9	28.7	28.9	26.7	28.1	34.0	34.0	38.0	32.8	27.5	25.8	25.5
010092 Merredin	31.1	+3.0	33.5	30.0	29.3	30.7	29.7	29.6	32.1	32.5	31.8	35.2	37.6	30.0	32.2	26.5	29.4	34.2	32.5	25.8	29.5	30.0	28.2	28.8	31.4	34.3	35.0	37.5	32.5	28.7	27.6	
010208 Cunderdin Airfield	31.8	31.8	28.3	29.3	31.1	30.7	31.8	35.3	35.8	32.8	36.3	37.8	32.4	32.9	29.7	31.3	36.8	30.8	28.2	30.2	29.5	27.9	29.2	31.7	35.7	34.2	36.8	34.1	29.1	26.6	26.8	
010633 Ravensthorpe	24.8	-0.1	22.5	15.0	19.2	23.0	22.5	24.0	30.0	32.5	30.0	31.2	30.6	23.5	18.0	19.0	34.0	32.0	38.2	23.5	26.5	30.0	18.5	21.0	24.5	30.5	22.0	25.0	27.5	21.0	22.0	18.0
010911 Lake Grace	27.7	27.3	17.3	21.0	25.6	26.1	27.2	31.4	33.1	29.9	33.5	35.3	26.7	25.7	22.8	26.4	32.0	36.3	26.6	29.3	28.3	23.3	25.5	28.1	32.3	28.5	29.1	31.4	26.5	23.1	20.5	
010916 Katanning	27.0	24.7	17.3	22.3	25.0	25.3	27.0	31.1	33.3	31.7	33.4	34.4	31.0	20.5	23.1	25.6	33.0	29.6	26.1	28.8	28.4	23.0	25.6	27.3	31.5	28.1	28.0	30.4	25.3	22.7	19.5	
010917 Wandering	28.7	27.5	23.2	26.0	27.4	27.4	29.1	32.6	34.0	31.3	34.0	35.9	31.7	25.7	26.5	38.3	34.3	26.0	26.3	27.0	25.4	25.2	27.4	29.5	32.9	30.9	34.2	31.4	24.0	23.6	22.6	
011003 Eucla	24.3	-0.5	23.2	20.9	19.3	20.1	19.7	20.2	20.9	22.4	23.9	28.7	30.8	30.7	27.2	22.3	19.8	23.3	32.5	42.9	22.1	23.8	22.9	21.0	18.2	23.0	26.0	24.7	23.8	36.2	19.1	19.4
011052 Forrest	29.6	33.5	29.6	26.6	25.8	24.0	25.5	28.8	27.9	30.2	33.4	32.9	35.3	32.9	22.0	22.7																

Daily and mean maximum temperatures for November 2017

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		
048027 Cobar MO	30.7	+1.5	23.9	27.5	32.3	22.2	31.5	27.0	25.1	28.1	29.0	31.1	32.1	32.2	32.2	34.2	32.0	28.3	30.2	28.6	26.3	29.8	30.9	31.8	32.6	34.9	36.1	37.8	34.6	34.9	29.5	34.1	
048245 Bourke Airport AWS	32.7	0	25.2	29.3	33.7	30.2	33.1	30.7	27.9	30.5	30.2	31.5	32.3	33.7	34.0	34.7	33.8	32.6	33.5	32.4	30.0	31.8	31.8	32.8	34.1	36.0	38.1	40.3	37.6	35.5	28.3	34.2	
049000 Ivanhoe Aerodrome AWS	32.1	0	25.3	28.8	25.0	23.8	28.6	26.2	24.7	29.2	31.7	32.7	34.1	36.1	35.2	36.6	32.1	26.6	28.4	32.0	30.6	33.5	34.1	34.8	35.3	36.8	37.1	36.9	36.2	38.2	36.4	36.9	
050052 Condobolin Ag Research Stn	29.8	+1.3	24.3	27.2	30.7	23.9	29.2	23.7	24.2	26.4	28.1	30.0	31.3	31.2	31.8	31.0	31.9	30.0	31.3	23.1	28.2	30.2	30.6	30.5	32.5	33.9	35.5	35.9	31.6	32.4	31.8	32.5	
051039 Nyngan Airport	30.3	+0.3	25.0	28.8	32.6	23.5	31.5	28.6	26.0	28.0	28.7	30.0	31.0	30.5	31.5	32.5	32.2	30.0	29.7	27.0	27.0	30.0	30.5	30.5	32.0	34.4	36.0	32.0	32.0	30.0	33.5		
052088 Walgett Airport AWS	31.7	0	25.1	29.2	34.1	33.4	35.1	36.2	28.6	31.0	29.6	31.3	31.6	30.6	31.9	32.3	31.8	29.2	31.7	27.3	28.3	30.8	31.4	31.0	32.8	35.0	36.3	37.3	32.4	33.7	26.4	34.4	
053115 Moree Aero	29.7	0	24.9	29.3	32.1	34.3	35.2	31.5	27.0	27.8	27.3	28.4	29.8	28.6	29.0	30.1	30.8	27.8	30.3	22.0	27.0	28.5	28.4	28.3	29.6	31.6	33.2	34.3	32.3	33.9	26.3	31.2	
054038 Narrabri Airport AWS	29.5	0	25.5	29.6	32.6	32.5	34.1	31.7	26.6	28.5	28.0	28.9	29.8	29.4	29.9	30.3	31.6	25.8	30.0	20.9	26.8	28.7	29.0	28.8	29.1	31.1	33.7	34.1	26.4	33.2	29.3	30.3	
055024 Gunnedah Resource Centre	28.0	-0.3	24.1	27.8	29.2	30.4	30.6	25.4	25.1	27.0	27.9	28.1	28.1	28.2	28.5	30.1	25.5	30.5	20.7	25.9	27.1	27.7	27.6	27.6	30.1	31.9	33.0	25.0	31.1	29.6	29.6		
055325 Tamworth Airport AWS	28.2	0	23.1	27.6	30.8	28.7	30.5	30.0	25.1	24.1	26.0	27.9	27.9	27.3	28.2	29.0	29.5	25.2	29.5	21.6	26.1	27.3	27.3	27.5	28.2	30.9	32.7	33.1	27.5	33.4	30.9	30.1	
056242 Inverell (Raglan St)	26.2	0	22.0	26.0	27.9	29.2	29.0	26.8	25.0	23.0	24.0	23.4	24.6	25.0	26.0	27.5	25.0	25.2	19.9	23.5	25.7	25.0	27.0	28.0	29.3	30.5	30.2	29.4	30.0	28.5	26.5		
057095 Tabulam (Muirne)	22.8	0	23.2	25.1	27.8	26.8	25.9	26.3	23.8	18.7	20.3	17.8	20.1	20.7	22.9	23.0	23.3	23.1	20.0	16.4	20.1	18.7	19.1	20.3	24.2	26.2	25.9	27.3	26.8	27.7	21.3	21.8	
058012 Yamba Pilot Station	24.2	0.0	22.9	24.4	27.0	25.0	25.1	27.3	22.5	20.3	21.8	22.0	22.0	23.1	23.8	23.3	23.7	24.9	24.2	24.1	24.0	23.5	23.5	23.3	24.1	25.1	24.9	25.9	26.2	26.5	26.0	25.8	
060139 Port Macquarie Airport AWS	24.7	0	21.5	23.4	27.2	24.8	22.7	30.2	22.5	21.1	22.4	23.3	23.7	23.6	23.8	24.4	24.6	24.8	25.6	24.5	23.8	24.7	24.5	23.7	24.4	25.6	26.7	25.7	26.7	26.9	27.2	26.9	
061078 Williamtown RAAF	24.9	-0.4	21.0	22.6	32.2	21.1	21.8	28.9	21.5	19.7	21.6	22.7	22.9	22.3	22.1	22.8	25.6	27.3	25.9	24.4	24.0	23.8	24.1	24.0	27.0	29.1	28.0	28.7	27.2	27.2	27.2	29.8	
061363 Scone Airport AWS	28.4	0	25.7	28.4	33.6	26.1	22.9	30.6	24.8	22.8	26.1	27.3	27.5	27.6	26.9	27.7	31.1	25.3	30.1	22.4	25.5	28.9	28.5	27.6	30.3	33.5	33.2	33.9	24.9	32.5	32.4	33.5	
062101 Mudgee Airport AWS	26.2	0	22.6	26.2	29.3	18.8	23.9	24.4	25.1	21.4	25.9	26.0	27.0	27.0	26.8	27.0	29.3	20.4	28.2	19.3	24.0	25.9	26.4	26.3	27.9	30.0	31.4	31.8	26.0	30.2	27.2	30.1	
063005 Bathurst Agricultural Station	24.5	+1.8	19.4	24.3	25.8	22.0	22.8	19.3	21.1	20.6	25.0	26.0	25.5	25.3	25.0	26.2	27.2	20.2	26.5	17.5	22.5	23.5	24.6	23.4	25.5	27.0	29.0	30.0	25.0	27.6	26.8	28.7	
063254 Orange Agricultural Institute	17.1	0.0	17.1	20.0	22.4	15.9	18.0	19.0	22.5	24.0	23.0	23.2	24.7	17.0	24.9	21.9	22.5	22.8	21.9	27.6	22.9	25.7	24.6	26.7	27.0	29.5	31.6	32.5	25.1	30.0	27.0	29.5	
064008 Coonabarabran (Showgrounds)	27.0	-0.4	22.0	26.5	30.2	26.2	31.0	28.0	24.8	24.0	26.0	26.4	28.0	27.2	27.0	28.0	28.5	22.0	27.0	20.6	25.5	25.4	26.8	27.0	27.0	29.5	31.6	32.5	25.1	30.0	27.0	29.5	
065070 Dubbo Airport AWS	28.3	0	22.9	26.2	31.1	18.1	28.9	26.9	25.1	25.2	27.0	28.0	28.7	28.1	29.2	28.6	30.9	24.3	30.3	20.0	27.4	28.0	28.5	28.0	30.2	31.7	34.6	34.9	29.2	32.5	30.7	32.6	
066062 Sydney (Observatory Hill)	23.8	+0.1	22.2	22.6	26.9	17.1	19.5	26.3	21.8	21.7	22.1	23.4	23.7	22.5	22.3	22.9	24.4	24.4	24.0	22.6	23.6	22.9	23.6	24.4	24.7	25.9	26.4	26.8	25.1	27.7	26.4	26.7	
067105 Richmond RAAF	26.8	0	24.7	25.8	31.5	15.7	17.0	26.1	23.8	22.0	24.8	26.4	25.1	25.8	25.2	26.6	29.2	26.0	27.4	24.8	27.3	25.9	27.7	27.0	30.3	32.5	32.8	28.8	29.7	28.4	31.7		
068072 Nowra RAN Air Station AWS	24.2	0	20.5	22.4	27.8	17.3	15.6	21.0	19.0	17.9	19.8	23.9	24.4	23.3	23.1	22.2	23.6	26.7	26.9	25.6	23.8	24.0	24.1	23.6	24.0	26.9	29.9	28.2	27.6	27.3	25.9	26.8	28.3
068151 Jervis Bay (Point Perpendicular)	22.0	0	18.0	20.4	25.4	16.6	17.0	18.9	20.7	19.8	21.0	21.6	21.3	21.4	22.2	21.6	24.2	24.2	21.3	22.6	22.2	22.1	22.0	22.8	24.4	27.1	25.7	24.8	25.4	21.0	25.1	26.1	
068241 Albion Park (Wollongong Airport)	23.4	0	23.0	22.1	30.1	17.5	17.1	24.5	21.4	19.8	21.9	22.6	23.4	22.1	22.0	22.4	24.4	25.3	24.5	22.5	23.2	23.3	22.9	23.1	24.6	25.7	25.8	25.8	26.3	26.1	26.3		
069018 Moruya Heads Pilot Station	20.7	-0.2	22.2	20.6	20.7	17.6	18.5	15.2	20.1	18.9	19.9	21.3	20.7	20.5	21.6	21.1	21.2	20.9	19.7	20.7	21.5	22.0	21.0	21.0	20.5	21.9	21.3	21.5	21.6	22.5	22.5	23.2	
070351 Canberra Airport	24.3	0	21.4	23.1	19.7	21.3	19.4	14.6	19.3	20.7	25.5	25.6	24.1	23.5	22.8	25.7	28.2	20.1	24.3	19.0	24.4	25.5	26.1	27.2	27.0	29.8	31.0	25.9	26.6	28.4	29.1	30.6	
071041 Thredbo Village	18.2	0	10.1	15.0	10.5	12.0	13.0	6.0	11.0	16.0	16.0	19.0	19.0	19.5	22.0	21.5	18.5	14.8	20.0	22.5	22.0	21.5	19.5	19.5	22.5	23.5	19.5	20.5	22.0	24.5	25.5		
072150 Wagga Wagga AMO	28.0	+2.3	22.8	25.2	21.8	22.7	25.1	19.6	21.6	20.2	26.7	29.0	30.0	30.9	31.3	32.4	21.8	28.5	20.0	27.6	30.0	29.7	32.1	34.1	34.1	31.0	30.4	32.7	33.5	34.1			
072160 Albury Airport AWS	27.7	0	22.7	23.7	20.5	21.6	22.8	18.5	21.6	23.7	26.6	28.3	29.4	29.0	30.5	31.4	32.1	21.7	27.4	23.7	28.1	29.4	30.9	30.7	30.0	33.1	33.1	29.9	29.2	32.9	34.4	33.9	
072161 Cabramurra SMHEA AWS	16.7	0	11.5	13.5	9.0	11.1	13.4	6.2	11.6	14.3	17.4	17.8	18.2	16.7	18.0	19.6	19.0	12.4	17.7	12.7	18.3	20.8	20.6	19.3	17.5	21.2	21.2	17.5	18.4	21.0	22.3	22.7	
074258 Deniliquin Airport AWS	30.3	0	24.6	24.4	21.6	21.6	25.0	23.7	22.0	26.2	29.4	32.0	33.5	34.5	35.7	35.3	34.8	24.9	24.2	29.6	30.4	31.4	33.1	33.6	34.8	36.3	33.7	30.5	34.2	36.0	36.8	36.3	
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		
076031 Mildura Airport	30.5	+3.0	25.8	25.6	19.8	22.4	25.0	24.2	24.0	27.8	31.6	34.0	34.5	36.4	37.1	37.6	29.3	22.3	19.9	27.1	31.5	33.3	35.0	34.9	32.9	33.0	34.3	33.3	32.0	36.9	37.2	36.8	
078015 Nhil Aerodrome	28.2	0	21.0	19.0	17.5	19.3	22.3	20.1	20.7	25.6	29.2	31.8	33.1	34.3	36.3	35.6	24.8	15.1	19.0	27.2	29.5	32.4											

Daily and mean minimum temperatures for November 2017

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		
001015 Kalbaruru	24.5	25.4	24.9	20.5	22.4	24.7	25.0	26.3	25.5	23.7	22.1	24.3	26.2	23.4	25.3	24.3	25.3	24.9	24.5	25.3	24.0	26.0	26.4	24.7	25.5	22.6	25.6	25.4	24.4	23.6			
002056 Kununurra Aero	24.2	24.1	22.1	17.9	17.3	23.3	24.8	25.2	26.3	22.3	22.6	25.9	24.3	24.3	24.7	21.1	21.3	21.6	18.6	14.2	17.2	16.2	17.8	17.8	18.1	26.2	23.4	20.0	18.8	18.6			
003003 Broome Airport	26.7	+1.5	24.5	22.1	25.7	24.9	27.7	27.6	27.6	27.5	24.7	27.3	24.8	23.6	27.2	26.6	26.3	26.9	24.9	24.5	25.6	28.1	28.7	28.9	28.5	28.8	28.3	28.1	25.9	28.2	28.5	28.9	
003032 Derby Aero	25.9	25.1	22.8	24.7	25.0	24.7	27.3	26.2	25.5	25.3	26.6	25.0	25.5	24.4	23.8	23.9	24.5	26.2	26.3	26.5	26.7	28.1	28.4	23.4	26.4	27.0	27.5	26.9	27.5	28.0	28.8		
004032 Port Hedland Airport	22.6	+1.3	23.1	24.0	22.5	22.3	23.9	24.9	22.1	20.8	21.7	20.5	17.9	19.8	20.4	22.7	21.7	20.5	22.5	21.5	22.0	23.0	23.8	24.2	25.0	24.4	24.0	25.4	23.0	23.7	23.0	23.3	
004083 Karratha Aero	23.5	24.5	22.1	22.6	25.4	25.3	27.5	26.4	21.3	24.1	19.8	21.0	20.6	21.2	23.2	24.0	21.0	22.7	23.0	22.4	23.9	25.0	25.1	24.0	24.0	26.0	25.7	22.7	22.4	23.9	24.6		
004106 Marble Bar	23.5	21.6	22.8	22.9	23.9	27.1	24.1	21.8	22.3	23.0	20.8	24.7	19.4	19.8	22.1	22.4	19.6	23.9	22.3	23.9	25.0	27.8	25.8	25.8	25.8	28.0	24.7	22.7	22.2	25.3	23.1		
005007 Learmonth Airport	18.9	20.0	23.0	17.9	17.8	19.7	20.7	18.7	20.0	17.5	14.2	16.7	17.3	19.7	20.6	21.7	18.3	20.3	19.2	16.8	18.4	16.9	20.0	23.2	22.8	19.9	18.7	16.9	17.1	17.5	16.7		
006011 Carnarvon Airport	20.0	+1.4	21.0	20.2	20.1	20.0	20.6	21.1	17.1	21.8	20.3	17.6	21.1	20.0	21.0	20.9	22.1	20.7	19.3	19.1	14.5	19.0	18.3	19.9	19.9	22.5	21.7	20.9	20.7	20.0	18.8	18.6	
006044 Denham	19.8	21.0	20.5	20.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	22.5	22.0	19.5	20.0		24.0	22.0	21.5	20.0	19.0	18.0		23.0	18.0	17.0	16.5	16.0	15.5	14.5			
007176 Newman Aero	20.9	16.8	17.5	18.9	22.0	21.1	21.2	19.0	20.2	19.1	20.5	18.1	17.1	19.9	20.8	23.3	21.8	23.9	22.9	19.9	20.7	24.4	26.2	24.5	20.9	23.6	20.4	21.0	20.7	20.2	21.8		
007185 Paraburdoo Aero	21.8	22.7	19.6	20.3	21.6	19.1	27.2	24.1	18.8	18.8	17.5	16.9	21.0	19.9	23.7	25.5		21.5		19.0	20.9	21.1	25.6	28.4	29.6	23.5	19.5	22.9	21.4	19.2	21.4		
007045 Meekatharra Airport	20.5	+1.9	19.0	20.3	20.6	22.3	22.1	22.5	19.7	19.1	18.6	20.9	21.0	19.1	22.9	20.8	21.3	22.4	20.3	16.6	18.4	20.7	18.9	19.5	22.2	22.3	23.0	23.5	19.0	18.3	19.3		
007600 Mount Magnet Aero	19.4	17.9	19.8	19.7	21.5	20.6	20.9	20.8	19.5	17.4	18.7	22.9	19.0	20.0	20.0	22.7	21.1	21.3	21.6	18.6	14.2	17.2	16.2	17.8	17.8	18.1	26.2	23.4	20.0	16.9	15.5	15.9	
008296 Morawa Airport	16.7	15.8	17.3	15.0	17.8	19.1		21.1	20.3	15.9	14.9	19.6	18.2	17.5	17.0	20.6	20.7	19.5	15.4	13.3	12.9	14.2	17.4	15.1	14.3						11.6	12.3	
008297 Dalwallinu	14.7	14.0	13.2	12.6	14.1	14.0	13.5	16.4	17.0	14.0	15.5	18.4	18.1	14.9	13.6	16.6	20.3	17.6	15.8	11.9	11.8	12.9	12.9	13.0	14.1	16.2	16.6	16.3	14.5	10.5	11.6		
008315 Geraldton Airport	15.6	10.7	13.1	12.8	12.2	12.1	16.7	15.7	16.4	14.6	15.4	19.9	19.8	19.6	16.4	21.3	21.5	17.8	16.1	13.4	14.7	13.5	11.8	12.1	11.8	19.4	19.8	19.4	18.5	10.7	11.5		
009021 Perth Airport	15.4	+2.6	15.0	14.7	13.6	14.8	15.2	14.9	17.3	20.0	14.2	16.1	16.2	22.4	17.5	14.5	12.7	20.2	19.6	16.5	12.1	10.0	14.0	13.4	13.4	15.3	15.3	16.4	16.3	18.1	11.1	12.4	
009131 Jurien Bay	15.4	12.9	12.5		10.6	14.1	15.2	17.4	17.9	17.3	15.3	18.7		19.9	14.6		18.4	19.3	16.6	16.5	12.4	15.4	12.1	12.9	13.9	16.1		15.9	19.3	14.2	12.0		
009225 Perth Metro	16.0	14.5	14.4	13.7	15.2	15.3	15.0	17.2	17.5	15.8	15.9	17.5	21.7	18.9	14.7	13.0	17.1	18.0	20.1	16.6	15.3	12.2	14.7	13.6	14.6	14.3	16.5	16.2	17.0	18.5	14.9	13.1	
009240 Bickley	13.2	11.3	11.4	10.1	11.4	11.4	11.1	13.4	17.1	15.4	16.9	18.6	19.3	16.2	11.5	9.0	17.1	16.9	14.4	12.5	10.4	11.4	9.7	10.7	14.2	13.8	12.8	14.6	14.7	10.2	9.6		
009518 Cape Leeuwin	14.3	13.6	13.0	14.4	14.1	14.1	15.0	18.1	18.4	17.5	17.8	17.4												14.2	14.2	15.7	17.0	16.1	16.8	15.8	15.6	13.1	
009617 Bridgetown						10.0	11.3	10.0	10.6	11.8	13.3	11.1												9.7	11.7	10.0	11.8	14.1	11.7	8.3	7.0		
009746 Wittchliffe	11.8	10.9	10.9	7.6	10.0	10.2	9.7	11.2	12.8	16.7	15.5	16.7	17.2	14.8	12.1	7.5	11.4	16.6	13.7	13.6	8.5	8.3	7.8	9.5	11.6	13.0	11.3	13.7	11.3	8.7	8.5		
009788 Esperance	13.4	13.4	12.5	12.3	10.2	9.5	10.4	9.5	13.6	14.1	13.4	14.8	16.3	17.7	13.5	13.0	10.6	16.0	15.9	14.9	12.8	16.0	14.0	13.2	9.0	13.6	16.6	16.3	14.6	12.1	11.4		
009965 Bunbury	13.7	10.8	12.8	11.2	13.0	13.5	13.3	16.1	18.6	18.5	14.8	15.0	17.7	16.3	9.0	9.0	16.4	19.4	13.5	14.8	10.3	11.8	11.9	12.8	14.3	12.6	14.4	14.7	12.8	8.3	11.9		
009977 Mandurah	16.8	14.5	14.5	13.5	15.3	15.3	15.2	18.1	21.2	20.6	20.0	20.4	20.0	17.9	15.2	13.4	20.5	20.0	16.5	17.2	14.6	15.3	13.8	15.1	18.3	16.2	16.5	18.1	18.0	15.1	14.6		
009999 Albany Airport	11.6	9.3	11.2	11.0	6.8	11.3	11.6	12.9	14.2	13.8	11.7	14.4	14.8	14.0	11.8	9.4	12.1	16.9	11.5	14.0	12.8	13.5	4.7	5.7	9.7	9.7	11.9	15.1	14.6	10.8	7.3		
010007 Bencubbin	15.1	+1.9	13.4	12.7	13.2	14.0	15.0	14.1	16.3	17.4	15.6	16.5	20.1	22.7	16.0	13.5	12.9	16.6	19.0	14.7	12.5	13.7	14.2	10.5	13.7		15.9	15.0	16.5	16.1	12.0	12.0	
010092 Merredin	15.1	+2.2	12.5	12.7	12.5	13.0	13.8	15.2	18.0	19.3	17.6	19.9	22.0	19.5	15.3	13.4	10.5	18.5	17.9	15.5	12.5	13.8	13.9	10.0	12.0	16.6	14.8	14.0	18.1	17.1	12.0	11.6	
010286 Cunderdin Airfield	14.1	12.7	13.6	12.1	13.0	12.9	12.7	14.7	17.1	14.8	14.9	16.1	20.0	15.9	14.1	10.6	16.6	18.1	15.8	11.2	11.2	14.8	14.0	12.0	13.0	15.4	14.2	16.3	16.8	9.6	12.0		
010633 Ravensthorpe	12.2	+1.4	10.4	11.5	10.5	7.6	7.4	8.7	10.5	15.0	15.5	14.0	13.1	15.0	14.5	11.5	9.0	11.0	22.0	14.5	13.6	13.0	13.6	6.0	9.5	8.0	14.2	13.0	15.0	11.0	11.5		
010911 Lake Grace	13.0	12.0	11.7	10.8	9.0	8.9	10.0	11.5	16.1	18.9	14.4	16.2	16.7	13.7	12.2	8.3	13.1	19.6	15.6	15.1	13.3	14.7	7.7	8.9	10.4	14.7	14.5	15.2	14.6	11.1	8.7		
010916 Katanning	11.2	9.7	10.6	10.4	9.7	10.7	9.9	9.6	13.1	13.9	12.4	12.6	17.2	13.3	7.9	5.9	9.9	18.7	13.4	12.1	11.3	11.3	6.2	6.8	9.4	12.2	12.9	14.3	13.9	8.1	9.5		
010917 Wandering	11.8	13.2	12.1	9.5	7.4	10.3	9.6	8.4	12.7	16.6	11.6	13.0	19.3	14.6	13.1	8.8	13.1	18.2	12.8	10.3	7.5	12.9	6.4	9.6	9.5	13.2	14.2	15.1	16.5	5.2	8.0		
011003 Eucla	15.0	+1.6	12.3	13.5	13.8	14.4	13.5	14.0	14.5	16.3	17.9	18.4	16.4	19.4	17.3	13.4	14.2	9.6	16.6	16.9	16.3	15.6	15.6	14.8	14.5	13.5	12.5	12.6	17.8	17.7	13.4		
011052 Forrest	14.6	10.7	12.0	13.7	13.3	9.6	12.0	7.6	12.1	17.3	17.6	19.2	17.1	21.0	17.0	13.8	8.7																

Daily and mean minimum temperatures for November 2017

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		
048027 Cobar MO	16.9	+1.3	8.3	11.1	15.6	13.3	11.6	17.8	10.7	11.6	15.2	16.1	15.5	17.3	18.3	19.0	20.4	16.9	14.2	16.9	15.4	17.6	18.3	18.1	18.6	19.7	22.1	23.0	21.2	21.2	19.3	22.1	
048245 Bourke Airport AWS	17.5		8.0	10.6	12.2	15.7	16.6	20.7	14.6	14.3	17.9	16.8	15.5	16.7	17.1	18.0	20.2	17.7	18.3	17.8	16.7	19.5	19.9	17.1	15.6	18.1	22.4	21.7	21.5	23.0	20.3	20.9	
049000 Ivanhoe Aerodrome AWS	16.9		9.7	12.0	15.9	11.9	9.5	14.4	9.3	8.0	13.6	16.7	17.3	18.7	20.2	19.0	23.8	16.8	11.5	13.7	15.0	18.5	17.2	17.8	22.4	20.9	23.1	23.6	20.9	22.7	21.2	22.9	
050052 Condobolin Ag Research Stn	14.6	+1.9	7.2	10.9	11.7	12.0	4.5	14.2	7.5	7.4	11.9	13.4	15.6	16.0	15.6	16.2	17.0	17.6	14.9	16.0	16.0	13.5	14.1	17.0	16.7	17.5	19.1	20.0	18.5	16.0	20.4	18.5	
051038 Nyngan Airport	15.9	+1.0	9.7	11.3	11.8	13.6	11.5	16.0	11.7	12.0	12.5	16.5	14.8	16.4	15.0	16.0	17.9	18.0	17.0	16.0	16.5	16.0	16.5	16.5	16.0	19.4	20.2	20.4	20.0	21.3	21.0		
052088 Walgett Airport AWS	15.6		6.7	8.4	7.8	14.8	14.8	20.6	7.5	10.4	12.6	12.7	13.5	17.5	15.9	16.9	19.0	20.5	16.0	16.3	17.1	15.5	15.3	16.0	16.4	16.8	17.7	20.6	23.0	19.0	19.8	19.5	
053115 Moree Aero	15.6		7.7	8.5	11.8	14.4	18.1	17.1	10.4	13.0	11.9	13.6	13.9	13.2	14.9	15.7	17.0	20.5	17.8	16.5	16.4	13.7	13.8	14.5	14.8	16.3	18.0	19.4	21.1	20.9	21.5	20.3	
054038 Narrabri Airport AWS	14.3		7.2	6.3	9.1	14.2	15.2	19.2	8.2	13.2	10.9	11.9	13.0	11.5	12.0	13.2	15.1	21.6	15.3	16.3	16.6	14.7	15.4	11.8	14.6	13.9	15.1	16.2	20.6	15.6	21.0	18.9	
055024 Gunnedah Resource Centre	15.0	+0.1	9.9	10.1	12.3	16.8	15.4	16.6	8.9	12.4	12.5	13.0	13.8	14.6	14.6	16.4	19.3	15.9	14.5	15.1	14.8	15.0	12.2	14.1	15.1	18.1	18.4	20.5	16.9	20.4	18.8		
055325 Tamworth Airport AWS	11.9		6.6	4.6	7.5	10.6	12.6	15.7	6.8	10.2	7.6	9.1	8.9	9.8	11.5	11.0	11.5	16.8	13.3	15.6	13.0	11.5	11.9	11.9	11.2	10.6	14.5	15.6	16.7	14.5	18.2	16.7	
056242 Inverell (Raglan St)	9.8		2.0	3.5	7.0	7.7	12.2	14.2	6.5	11.0	6.0	7.5	6.4	7.1	8.0	8.0	9.0	14.5	13.5	15.1	11.6	7.8	7.0	6.8	9.0	10.0	10.9	10.9	14.0	13.5	16.5	17.0	
057095 Tabulam (Muirne)	13.8		9.6	13.0	14.3	15.6	15.4	14.2	14.0	12.5	10.3	11.4	12.4	14.2	12.2	11.7	12.4	13.3	15.3	13.6	12.9	12.8	13.1	12.3	12.9	13.7	15.1	16.0	17.2	16.6	18.1	17.4	
058012 Yamba Pilot Station	17.5	+0.3	14.8	15.4	17.2	19.1	17.8	17.9	17.8	15.9	13.7	15.1	15.8	15.6	16.1	15.4	15.7	17.6	20.7	18.6	16.9	18.1	17.2	16.7	16.5	16.7	18.2	20.1	20.5	20.4	21.8	21.5	
060139 Port Macquarie Airport AWS	14.0		11.3	8.5	10.9	15.6	15.9	18.4	13.1	13.4	11.1	10.4	9.4	14.7	13.8	13.5	11.5	11.0	17.9	15.4	15.8	15.8	15.6	12.5	15.4	12.5	12.8	14.9	16.5	16.1	17.3	17.7	
061078 Williamtown RAAF	14.1	-0.1	12.4	11.0	13.3	16.5	15.7	15.5	11.2	13.2	10.2	9.8	10.6	9.1	15.4	10.6	10.6	16.3	18.1	18.7	16.0	13.9	14.6	14.0	13.2	13.6	13.7	16.4	19.2	16.1	17.1	16.8	
061363 Scone Airport AWS	12.0		8.1	6.3	9.7	15.6	14.2	11.6	7.5	12.5	4.6	5.5	6.4	7.7	10.9	8.3	10.2	13.3	14.7	17.3	14.2	13.4	13.1	10.0	12.5	11.4	12.6	17.2	18.7	15.2	18.4	18.1	
062101 Mudgee Airport AWS	12.2		6.1	5.1	8.1	13.7	13.1	14.1	4.8	12.2	6.0	9.5	8.8	10.2	12.0	13.5	12.6	16.2	15.2	15.4	15.0	13.7	12.5	11.8	11.9	11.6	12.6	14.9	17.9	15.1	17.6	14.9	
063005 Bathurst Agricultural Station	9.8	+1.5	4.5	4.1	7.9	10.5	8.8	10.5	10.5	2.5	8.2	4.3	7.0	9.5	8.2	9.0	8.5	12.9	11.4	13.0	14.3	11.5	9.4	8.8	9.5	10.2	10.2	11.0	12.5	15.7	13.9	15.3	13.7
063254 Orange Agricultural Institute			2.2	6.8	10.5			5.9	3.9	6.9	4.0	6.5			7.5	8.4	9.4	13.5	12.6			9.4	7.4	8.9	10.1			10.5	12.5	13.1	12.7		
064008 Coonabarabran (Showgrounds)	11.0	0.0	6.5	6.5	6.5	13.5	8.3	14.0	5.0	9.8	6.5	9.0	6.9	8.0	7.8	9.9	9.5	15.5	11.0	14.5	14.0	11.8	12.2	9.9	14.0	9.0	11.5	12.3	17.5	13.8	18.5	15.5	
065070 Dubbo Airport AWS	13.5		5.0	9.2	8.0	13.4	10.3	13.3	6.3	9.5	8.9	11.2	11.0	13.8	14.0	13.8	14.0	17.3	14.8	16.0	15.1	12.8	14.3	13.5	15.2	13.6	19.4	18.1	18.5	16.9	20.0	17.8	
066062 Sydney (Observatory Hill)	16.9	+0.9	13.0	15.3	16.9	16.2	14.1	14.8	13.8	14.6	12.3	14.2	14.7	17.1	17.5	16.0	16.0	18.6	19.0	19.1	17.4	17.5	17.6	17.4	17.3	18.2	18.9	19.3	20.6	19.3	20.6	20.2	
067105 Richmond RAAF	13.8		9.3	9.8	12.7	14.8	12.8	13.8	9.7	13.9	8.2	8.9	10.0	12.5	14.8	10.7	11.0	13.1	16.0	18.4	17.6	15.3	15.8	15.7	13.1	14.2	13.5	15.6	20.1	18.6	18.2	17.1	
068072 Nowra RAN Air Station AWS	12.6		7.8	11.8	10.6	12.7	12.0	13.2	8.8	10.4	8.1	10.3	14.3	12.6	10.9	8.6	9.3	11.6	14.6	15.9	10.9	13.2	13.7	10.8	11.8	13.9	15.2	13.7	19.2	18.3	17.2	16.0	
068115 Jervis Bay (Point Perpendicular)	15.4		12.2	13.8	14.5	13.1	13.8	13.8	13.1	13.1	10.8	12.5	16.7	16.4	15.3	14.8	14.4	17.1	17.6	14.9	15.8	16.3	16.8	15.8	15.9	16.0	17.6	17.4	19.5	17.4	18.1	18.5	
068241 Albion Park (Wollongong Airport)	13.1		11.5	12.6	13.1	13.2	13.2	14.0	9.2	11.9	6.4	7.9	10.5	14.9	14.3	10.7	10.0	12.4	15.1	16.9	12.6	15.4	14.6	12.6	13.3	13.6	13.4	13.9	19.3	18.6	15.8		
069018 Moruya Heads Pilot Station	13.3	+0.5	7.2	9.7	12.9	12.7	11.1	13.0	7.5	8.4	8.9	10.9	13.1	13.7	13.2	13.5	12.1	13.3	16.7	15.7	13.6	14.4	14.2	13.2	15.5	14.1	15.5	15.8	18.0	17.0	17.9	17.0	
070351 Canberra Airport	9.6		4.8	5.8	4.3	9.5	8.3	10.4	2.5	7.0	3.1	4.5	11.1	13.0	11.6	7.1	8.2	11.0	12.9	14.5	12.5	8.4	7.4	9.1	12.2	8.9	10.9	11.4	16.1	11.5	16.4	12.8	
071041 Thredbo Village	3.5	0.0	0.0	5.0	0.0	-1.0	3.0	-1.0	-4.0	-0.9	2.0	3.5	2.0	4.0	5.0	5.0	5.5	8.0	5.5	1.0	4.5	4.0	6.0	5.5	6.0	7.5	11.0	5.5	5.0	6.5			
072150 Wagga Wagga AMO	13.9	+3.5	5.9	6.4	11.7	3.8	6.1	11.8	6.7	7.5	7.8	12.7	15.3	14.6	15.9	15.1	16.6	19.2	16.5	17.3	15.9	15.6	11.9	14.9	17.0	16.3	19.9	20.9	18.0	17.4	19.5	20.0	
072160 Albury Airport AWS	12.8		4.6	8.0	12.8	5.0	6.0	11.1	5.0	-7.2	8.9	11.6	13.1	12.2	12.6	12.6	15.0	17.5	15.8	13.9	12.8	12.6	12.5	13.1	18.7	14.6	17.8	19.1	17.1	15.7	17.4	18.5	
072161 Cabramurra SMHEA AWS	7.3		-1.2	3.1	4.9	0.2	1.1	3.6	-1.0	1.2	6.1	8.3	9.3	8.6	8.0	8.6	11.2	11.0	7.5	9.1	6.6	8.0	10.9	10.7	10.5	9.4	10.6	11.1	10.1	10.8	10.8	12.8	
074258 Deniliquin Airport AWS	13.9		7.9	6.4	10.3	2.3	2.2	10.9	3.5	7.7	8.2	11.8	14.4	16.7	15.4	17.6	21.6	16.7	11.3	11.8	15.5	16.6	14.9	15.2	19.3	18.1	21.4	20.0	18.7	14.6	21.6	22.9	
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		
076031 Mildura Airport	15.8	+3.2	8.5	9.4	13.5	8.0	8.8	11.4	7.3	6.0	11.8	18.0	20.7	16.8	20.9	19.1	22.3	14.4	12.8	13.9	15.2	18.2	16.9	20.1	18.9	19.9	21.1	19.2	16.7	19.0	22.1	23.2	
078015 Nhil Aerodrome	13.2		8.6	8.6	5.2	1.5	5.2	4.2	5.8	2.5	10.2	14.6	18.2	17.6	18.0	17.8	19.1	12.9	12.3	10.3	14.9	15.5	17.0	17.0	15.9	17.4	16.5	17.5	13.7	13.8	21.3	22.8	
080023 Kerang	14.4	+3.1	10.0	9.0	11.4	4.8	4.7	8.6	6.9	5.9	10.2	13.2	17.2	18.5	15.7	19.1	22.0	15.2	11.														

Daily and total rainfall for November 2017

Western Australia	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		
001013 Wyndham	80.4	7.0	-	-	-	-	-	-	5.0	-	-	-	-	-	3.0	2.8	0.2	-	0.4	-	-	12.4	4.6	5.0	-	-	-	24.0	16.0	-	-	-		
001019 Kalumburu	123.2	1.0	-	-	-	-	-	-	-	-	6.8	-	-	-	-	-	-	-	-	2.6	-	51.6	-	-	-	-	-	30.4	6.0	0.2	-	24.6		
002056 Kununurra Aero	59.0	0.6	-	-	-	-	-	-	-	-	-	-	-	1.0	4.2	-	11.4	-	0.4	-	2.8	-	6.6	22.4	-	-	-	2.2	3.2	-	4.2	-		
003003 Broome Airport	9.8	8.9	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
003032 Derby Aero	23.4	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.6	3.8	-	-	-	-	-	-	-		
004032 Port Hedland Airport	3.4	1.9	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
004083 Karratha Aero	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
004106 Marble Bar	5.2	-	-	-	-	-	5.0	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
005007 Learmonth Airport	0.8	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
006011 Carnarvon Airport	2.7	5.9	-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-	-	
006044 Denham	1.8	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007176 Newman Aero	8.6	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	-	-	-	-		
007185 Paraburdoo Aero	1.2	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007045 Meekatharra Airport	12.4	14	-	-	-	-	-	1.2	0.2	0.8	-	-	-	-	3.6	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
007600 Mount Magnet Aero	9.0	-	-	-	-	-	-	-	2.2	3.0	0.2	-	-	-	-	-	-	1.0	-	2.0	0.6	-	-	-	-	-	-	-	-	-	-	-	-	
008296 Morawa Airport	9.8	-	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-	-	-	-	-	1.0	0.2	-	-	-	-	-	-	-	-	-	-	-	
008297 Dalwallinu	22.8	-	-	-	-	-	-	-	4.2	2.2	8.4	-	-	5.8	-	-	-	-	-	0.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	
008315 Geraldton Airport	5.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	»	»	5.4	-	-	-	-	-	-	-	-	-	
009021 Perth Airport	1.8	23	-	-	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
009131 Jurien Bay	10.7	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	»	3.6	-	6.2	0.3	0.4	-	-	-	-	-	-	-	-	-	-	-	
009225 Perth Metro	4.8	-	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	-	-	2.2	0.2	-	-	-	-	-	-	-	-	-	0.2	-	
009240 Bickley	3.6	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	0.8	1.6	-	-	-	-	-	-	-	-	-	-	-	
009518 Cape Leeuwin	2.0	47	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6		
009617 Bridgetown	17.2	-	-	-	-	-	-	-	-	1.0	14.6	-	-	-	-	-	-	-	-	-	0.2	-	-	1.4	-	-	-	-	-	-	-	-	-	
009746 Witchcliffe	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	2.6	-	1.2	-	-	0.2	-	-	1.0	1.2	0.4	-	-	
009789 Esperance	21.0	-	1.2	-	-	-	-	-	-	-	-	»	»	2.2	3.8	-	-	-	0.8	-	»	»	9.8	0.2	-	-	-	»	»	2.8	0.2	-	-	
009965 Bunbury	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	0.2	-	-	-	-	-	-	-	-	-	-	-	
009977 Mandurah	5.6	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	0.2	2.0	-	-	-	-	-	-	-	-	-	-	-	
009999 Albany Airport	11.8	2.2	0.4	0.2	»	»	-	-	-	-	-	»	»	»	0.2	-	-	-	-	2.2	»	»	»	»	0.6	-	»	»	0.2	-	1.0	4.8	-	
010007 Bencubbin	9.8	15	-	-	-	-	-	-	-	3.4	-	-	0.2	-	-	-	-	0.4	0.4	5.2	-	-	-	-	-	-	-	-	-	-	0.2	-	-	
010092 Merredin	10.8	16	-	-	-	-	-	-	-	-	-	0.4	1.4	-	-	-	-	-	-	1.0	7.2	0.8	-	-	-	-	-	-	-	-	-	-	-	
010286 Cunderdin Airfield	16.6	-	-	-	-	-	-	-	6.8	0.2	-	-	0.8	0.2	-	-	-	-	-	-	3.0	5.4	0.2	-	-	-	-	-	-	-	-	-	-	
010633 Ravensthorpe	22.8	33	-	-	-	-	-	-	-	-	-	-	2.8	1.6	-	-	-	-	-	-	-	10.6	1.0	0.6	-	-	-	-	6.2	-	-	-		
010911 Lake Grace	18.2	-	-	0.2	-	-	-	-	-	-	-	-	8.2	-	-	-	-	-	-	-	2.4	5.4	-	-	-	-	-	-	2.0	-	-	-		
010916 Katanning	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-		
010917 Wandering	3.4	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	1.2	1.6	-	-	-	-	-	-	-	-	-	-	-		
011003 Eucla	41.4	18	-	-	-	-	-	-	-	-	0.2	0.4	-	-	3.6	1.2	-	-	-	-	»	»	»	»	20.2	1.8	1.4	-	0.2	0.8	-	11.6	-	
011052 Forrest	31.2	-	-	-	-	-	-	-	-	-	-	-	-	0.2	1.2	0.2	-	-	-	-	-	5.8	2.0	-	0.2	0.2	0.2	-	1.0	1.8	18.4	-		
012038 Kalgoorlie-Boulder Airport	20.0	20	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	2.0	12.2	0.2	-	0.2	-	-	-	-	-	-	-	-	
012071 Salmon Gums Res.Stn.	35.8	28	-	0.4	-	-	-	-	-	-	-	-	-	0.2	0.6	-	-	-	-	1.4	1.4	29.6	-	-	-	-	-	-	1.4	0.2	-	0.6	-	
013011 Warburton Airfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
013012 Wiluna	29.6	14	-	-	-	-	-	0.4	12.4	1.6	1.2	-	-	-	-	-	12.5	-	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	
013017 Giles Meteorological Office	26.2	22	-	-	-	-	-	-	11.0	0.8	0.4	3.2	-	-	-	-	-	-	-	-	-	5.8	-	-	-	-	-	-	-	-	-	-	-	-
Northern Territory	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		
014015 Darwin Airport	175.0	131	9.2	2.4	-	3.6	-	-	3.2	0.8	-	23.4	5.8	9.4	-	49.4	0.8	0.8	-	-	-	1.6	-	-	38.4	7.4	-	18.6	0.2	-	-	-		
014198 Jabiru Airport	110.4	-	1.4	-	-	-	-	3.6	4.2	-	-	0.2	5.0	19.4	-	7.0	1.6	41.6	0.2	5.8	11.2	0.2	-	-	5.2	-	-	3.6	-	-	0.2	-		
014932 Tindal RAAF	155.8	0.6	8.8	-	-	-	-	3.0	0.6	-	-	3.0	34.0	0.2	-	30.2	-	-	-	-	44.8	2.6	-	-	-	-	-	-	-	-	-	-	-	
014508 Gove Airport	94.6	-	-	-	-	-	-	-	-	-	-	33.8	7.0	15.0	33.6	0.4	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
014723 Borroloola Airport	115.6	-	-	-	-	-	-	-	27.8	-	-	-	-	-	0.8	26.4	-	-	-	-	2.0	-	-	5.4	-	5.0	-	-	2.2	46.0	-	-		
014825 Victoria River Downs	62.4	69	6.0	-	-	-	-	-	2.4	-	-	-	7.4	0.2	0.4	-	-	-	-	-	23.2	-	1.0	-	18.6	0.2	0.6	2.4	-	-	-	-		
015135 Tennant Creek Airport	72.8	-																																

Daily and total rainfall for November 2017

	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						
New South Wales																																						
046043 Wilcannia (Reid St)	8.2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	-			
048027 Cobar MO	28.8	32	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	12.4	0.2	-	4.8	-	-	-	-	-	-	-	-	-	-	-	9.8	0.2	0.8	0.2		
048245 Bourke Airport AWS	49.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	44.4	0.2	
049000 Ivanhoe Aerodrome AWS	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
050052 Condobolin Ag Research Stn	75.0	38	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	5.4	-	4.0	1.2	-	-	-	-	-	-	-	-	-	-	-	0.2	16.2	47.8	-		
051039 Nyngan Airport	13.6	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	-	1.2	
052088 Walgett Airport AWS	35.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	6.6	16.8	0.2	0.8	-	-	-	-	-	-	-	-	-	-	-	0.6	-	10.2	0.2	
053115 Moree Aero	80.2	-	-	-	-	-	11.8	19.6	-	-	-	-	-	-	-	-	-	-	10.4	37.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	
054038 Narrabri Airport AWS	59.8	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-	-	-	-	9.0	30.6	1.0	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.6	
055024 Gunnedah Resource Centre	76.5	59	-	-	-	-	0.2	0.6	-	-	-	-	-	-	-	-	-	0.1	2.0	41.2	6.2	2.0	-	-	4.6	-	-	-	-	-	-	-	-	-	7.0	-	12.6	
055325 Tamworth Airport AWS	64.4	-	-	-	-	0.4	0.4	14.4	-	-	-	-	-	-	-	-	-	-	8.0	1.6	20.0	2.8	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	16.4	
056242 Inverell (Raglan St)	65.8	-	-	-	-	-	3.4	11.0	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.8	
057095 Tabulam (Muirie)	158.8	-	-	-	-	1.2	32.0	16.0	0.4	-	2.0	8.8	7.0	-	-	-	-	6.2	-	0.4	28.0	9.4	13.8	4.6	3.0	-	-	-	-	-	-	-	-	-	-	0.2	25.8	
058012 Yamba Pilot Station	103.2	110	-	0.2	-	-	0.6	5.2	5.2	3.6	15.2	6.2	16.0	3.6	-	-	-	-	2.6	0.2	4.8	14.4	2.0	0.2	-	-	-	-	-	-	-	-	-	0.6	-	22.6		
060139 Port Macquarie Airport AWS	132.6	-	-	-	-	16.8	6.4	10.4	28.4	0.6	-	-	-	-	-	-	-	-	0.2	3.4	12.2	9.8	9.4	6.0	10.8	-	-	-	-	-	-	-	-	1.4	0.6	-	1.6	
061078 Williamtown RAAF	57.6	79	0.2	-	-	3.8	9.8	3.4	3.2	28.6	2.8	-	-	-	-	-	-	-	1.6	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	
061363 Scone Airport AWS	21.2	-	-	-	-	0.2	1.4	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	-	-	-	-	-	-	3.2	-		
062101 Mudgee Airport AWS	93.6	-	-	-	1.6	2.4	-	5.6	-	-	-	-	-	-	-	-	-	1.8	0.2	0.4	6.0	32.0	8.8	-	-	24.4	-	-	-	-	-	-	-	-	3.2	6.6	0.6	-
063005 Bathurst Agricultural Station	87.8	58	-	-	0.2	-	1.2	3.2	-	-	-	-	-	-	-	-	-	3.6	-	-	16.6	15.8	23.6	-	-	-	2.0	»	1.0	15.8	3.0	-	-	-	-	-		
063254 Orange Agricultural Institute	73.4	71	-	-	-	»	»	1.2	5.4	-	-	-	-	-	-	-	-	1.4	0.4	11.6	-	»	»	23.2	-	-	0.2	»	»	28.0	2.0	-	-	-	-	-		
064008 Coonabarabran (Showgrounds)	49.1	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	10.0	1.0	3.2	5.2	0.5	-	-	0.2	-	-	-	-	-	-	-	4.0	13.0	-	9.6	
065070 Dubbo Airport AWS	34.8	-	-	-	0.6	1.6	-	6.4	-	-	-	-	-	-	-	-	-	0.2	0.6	10.8	2.6	1.4	-	-	-	-	-	-	-	-	-	-	-	-	10.4	0.2	-	
066062 Sydney (Observatory Hill)	61.2	116	-	-	-	1.6	31.8	4.4	5.6	-	-	-	-	-	-	-	-	-	0.4	0.2	2.4	2.8	1.6	7.8	-	-	-	-	-	-	-	-	-	-	-	0.8	1.8	
067105 Richmond RAAF	19.4	-	-	-	3.2	4.6	7.4	0.6	0.2	-	-	-	-	-	-	-	-	-	0.4	1.2	0.4	-	-	-	0.8	-	-	-	-	-	-	-	-	-	0.2	-	0.4	
068072 Nowra RAN Air Station AWS	79.4	-	-	0.2	-	-	33.8	8.6	3.2	-	-	-	-	-	-	-	-	-	0.2	21.4	2.6	-	-	-	-	-	1.0	3.8	-	-	-	-	-	-	4.2	0.4	-	
068151 Jervis Bay (Point Perpendicular)	59.2	-	-	-	-	-	36.6	12.6	-	-	-	-	-	-	-	-	-	-	3.0	5.6	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
068241 Albion Park (Wollongong Airport)	116.4	-	-	-	2.8	-	18.8	5.2	4.8	-	-	-	-	-	-	-	-	-	1.2	82.2	0.4	-	-	-	-	0.4	-	-	-	-	-	-	-	-	0.2	0.4	-	
069018 Moruya Heads Pilot Station	122.4	104	-	-	-	-	3.6	36.8	24.8	-	-	-	-	-	-	-	-	-	2.6	45.6	0.2	-	-	-	-	1.0	0.2	0.2	4.6	2.4	0.2	0.2	-	-	-	-		
070351 Canberra Airport	70.4	-	-	-	-	-	20.8	18.6	-	-	-	0.2	0.2	0.2	-	-	-	-	2.4	1.8	0.4	-	-	-	-	0.8	1.4	0.2	7.6	15.6	0.2	-	-	-	-	-		
071041 Thredbo Village	84.1	1.0	0.1	14.2	2.3	0.1	11.2	16.4	-	-	-	-	-	-	-	-	-	-	0.8	0.4	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
072150 Wagga Wagga AMO	37.0	41	-	-	-	»	»	14.8	3.2	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	»	»	»	»	»	»	»	»	»	»	7.2	0.6
072160 Albury Airport AWS	53.2	0.2	-	2.6	-	-	14.8	2.8	-	-	-	-	-	-	-	-	-	-	-	10.0	7.8	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	1.6	
072161 Cabramurra SMHEA AWS	128.8	-	-	3.2	9.0	-	22.4	6.2	1.0	-	-	-	5.0	0.8	10.8	-	-	-	10.0	1.0	9.2	-	-	-	-	11.6	-	6.0	21.6	11.0	-	-	-	-	-	-		
073054 Wyalong Post Office	37.8	41	-	-	-	-	16.8	0.2	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	19.0	
074258 Deniliquin Airport AWS	21.2	-	0.2	-	0.4	0.2	-	-	-	-	-	-	-	-	-	-	-	-	13.0	0.8	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	0.2	2.4	-	
Victoria																																						
076031 Mildura Airport	55.4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2
077008 Birchip (Woodlands)	33.6	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.0	3.2	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	0.6	-	
078015 Nhill Aerodrome	30.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.6	8.0	0.6	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	0.2	
079082 Horsham	42.6	33	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
080023 Kerang	67.4	30	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	0.6	
081123 Bendigo Airport	62.0	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	0.2	34.6	3.6	-	-	-	-	-	-	3.4	1.6	17.8	-	-	-	-	-	-		
082039 Rutherglen Research	55.4	42	-	0.4	0.2	-	14.4	-	-	-	-	-	-	-	-	-	-	-	0.4	17.0	-	0.8	0.2	-	-	-	-	-	-	-	-	-	-	-	5.4	16.4	0.2	
084016 Gabo Island Lighthouse	82.4	86	-	-	0.4	0.4	-	0.2	15.4	-	-	-	-	-	-	-	-	-	-	13.0	48.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	1.4
084145 Orbst	20.6	-	0.8	0.4	1.6	0.4	-	5.8	-	-	-																											