



Australian Government
Bureau of Meteorology

Monthly Weather Review Australia December 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:

Bureau of Meteorology
GPO Box 1289
Melbourne VIC 3001
Australia
media@bom.gov.au
www.bom.gov.au

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

The setting sun throws crepuscular rays behind a cloud over Seven Mile Beach, Tasmania.
Photograph by Ian Barnes-Keoghan, 7:30 pm, 27 January 2018. Used with permission.

Overview

- An exceptionally warm month for Australia as a whole, fifth-warmest December on record
- Amongst the ten warmest Decembers on record for Queensland, New South Wales, Tasmania and the Northern Territory
- Mean maximum temperature above average for most of eastern Australia and the Northern Territory, also for parts of coastal Western Australia, northeast and southwest South Australia
- Mean minimum temperature above average for much of eastern Australia, except parts of northern and eastern Queensland; also above average for eastern South Australia, southeast Northern Territory and much of western to central and southeastern Western Australia
- December minima warmest on record for Tasmania and mainland east coast between Port Phillip in Victoria and the southern Hunter District in New South Wales
- December rainfall above to very much above average for eastern and northern Victoria, southern New South Wales, eastern Tasmania, much of southern South Australia, the west coast of Western Australia and from the west Kimberley to central and southeastern Western Australia
- Rainfall below average for much of the Northern Territory and Queensland

Areal averages in December 2017

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	-13%	+1.17 °C 6th-highest	+1.03 °C equal 5th-highest	+1.10 °C 5th-highest
Western Australia	+48%	+0.62 °C	+0.64 °C	+0.63 °C
Northern Territory	-34%	+1.03 °C 10th-highest	+0.66 °C	+0.85 °C 7th-highest
South Australia	+30%	+0.99 °C	+0.95 °C	+0.97 °C
Queensland	-56%	+1.86 °C 5th-highest	+1.24 °C equal 8th-highest	+1.55 °C 3rd-highest
New South Wales	+24%	+1.80 °C	+2.20 °C 2nd-highest	+2.00 °C 7th-highest
Victoria	+69%	+1.26 °C	+1.70 °C 8th-highest	+1.48 °C
Tasmania	+3%	+1.68 °C 6th-highest	+1.78 °C highest	+1.73 °C 2nd-highest

Extremes in December 2017

	Hottest day	Coldest night	Wettest day	Warmest overall	Coollest overall	Wettest overall	Strongest wind gust
Australia	47.4 °C at Birdsville Airport (Qld) on the 29th	-2.3 °C at Liawenee (Tas.) on the 17th	291.5 mm at Cygnet Bay (WA) on the 27th	34.3 °C at Marble Bar (WA)	8.6 °C at kunanyi (Mount Wellington Pinnacle) (Tas.)	621.7 mm at Cygnet Bay (WA)	131 km/h at Maatsuyker Island Lighthouse (Tas.) on the 9th
Western Australia	46.7 °C at Onslow Airport on the 24th	2.5 °C at Jarraewood on the 1st	291.5 mm at Cygnet Bay on the 27th	34.3 °C at Marble Bar	17.8 °C at Windy Harbour	621.7 mm at Cygnet Bay	106 km/h at Cape Leeuwin on the 17th
Northern Territory	45.8 °C at Jervois on the 29th	10.0 °C at Arltunga on the 5th	171.2 mm at Pirlangimpi Airport on the 25th	32.9 °C at Ngukurr Airport	28.2 °C at Arltunga	396.6 mm at Nitmiluk Rangers	96 km/h at Lajamanu Airport on the 24th
South Australia	47.1 °C at Marree Aero, Moomba Airport and Oodnadatta Airport on the 18th, and Moomba Airport on the 29th	3.4 °C at Keith (Munkora) on the 25th	54.0 mm at Boolcoommatta on the 2nd	31.0 °C at Moomba Airport	16.6 °C at Mount Lofty	88.2 mm at Parawa (Sharon)	122 km/h at Neptune Island on the 18th
Queensland	47.4 °C at Birdsville Airport on the 29th	5.9 °C at Stanthorpe Leslie Parade on the 6th	148.0 mm at Pacific Haven Alert on the 1st	33.2 °C at Lake Julius AWS	21.1 °C at Applethorpe	253.0 mm at Pacific Haven Alert	124 km/h at Urandangi Aerodrome on the 1st
New South Wales	46.8 °C at Smithville AWS on the 18th	-0.8 °C at Perisher Valley AWS on the 21st	202.0 mm at Port Macquarie Airport AWS on the 27th	30.0 °C at Tibooburra Airport	10.9 °C at Thredbo AWS	305.7 mm at Nymboida (Sutton St)	102 km/h at Tibooburra Airport on the 1st and Khancoban AWS on the 19th
Victoria	42.5 °C at Longerenong on the 13th	-1.7 °C at Mount Hotham on the 4th	182.2 mm at Gooram (Hillside) on the 2nd	23.6 °C at Mildura Airport	11.0 °C at Mount Hotham	280.6 mm at Mount Buller	117 km/h at Wallan (Kilmore Gap) on the 19th
Tasmania	33.2 °C at Campania (Kincora) on the 28th	-2.3 °C at Liawenee on the 17th	102.0 mm at Pyengana (Forest Lodge Road) on the 3rd	18.3 °C at Friendly Beaches	8.6 °C at kunanyi (Mount Wellington Pinnacle)	299.0 mm at Mount Read	131 km/h at Maatsuyker Island Lighthouse on the 9th
In this table <i>Hottest day</i> is the highest daily maximum temperature, <i>Coldest night</i> is the lowest daily minimum temperature, <i>Wettest day</i> is the highest daily rainfall total, <i>Warmest overall</i> is the highest mean monthly temperature, <i>Coollest overall</i> is the lowest mean monthly temperature and <i>Wettest overall</i> is the highest total monthly precipitation.							

Heavy rainfall in Victoria, southern New South Wales, and Tasmania

Heavy rainfall across large areas of Victoria and Tasmania between the 1st and 3rd resulted when moist tropical air being drawn southward by a blocking high pressure system over the Tasman Sea combined with a strong trough and cold front to the south of the mainland. Multi-day totals of more than 100 mm were observed across parts of central and northeastern Victoria, extending to the eastern border regions of the Australian Capital Territory. Large parts of northern Victoria and southern New South Wales received two to three times the average monthly total for December in just a few days.

The State Emergency Service (SES) received 2700 calls for assistance across Victoria, roughly half from Melbourne. In the northeast 73 homes were damaged by flood waters; severe flooding affected towns including Euroa, Myrtleford, the Buckland Valley, and rural areas to the south of Shepparton. Flash flooding was also reported in parts of Melbourne, particularly suburbs in the east and north. Many farmers reportedly worked around the clock to harvest crops before the rains started, while damage to stone fruit and berry crops was reported in the north of the State and in the Yarra Valley.

In Tasmania the event brought snowfall to levels as low as 900 m on the 2nd, with unusually heavy falls of up to 40 cm reported on the Central Plateau. Thousands of livestock deaths in the Midlands and some elevated areas were attributed to the cold and wet conditions, with recently shorn sheep particularly affected.

There was further heavy rain across Melbourne on the evening and night of the 7th, as a cold front with a band of cloud and embedded thunderstorms approached the southeast. Flash flooding was reported in some eastern and southeastern suburbs, and 216 calls were made to the SES for assistance.

A prolonged December heat event

After a much cooler than average start to summer for most of the country, widespread hot weather affected all States and Territories during the 12th to 21st. Heatwave conditions reached severe intensity in the Pastoral Districts of South Australia and neighbouring areas of southern and eastern Northern Territory, much of New South Wales, southern and western Queensland, and parts of northern Western Australia.

From the 12th a strong blocking high pressure system over the Tasman Sea and low pressure surface trough

over northern Australia maintained a persistent northerly airflow over the east of the country, which persisted throughout most of the rest of the month.

Several sites set new daily high temperature records for December; mostly only those with relatively short periods of record but a few with more than 30 years of record, including Woomera, Williamtown and Wellington. December daily minimum temperature records were set at Tibooburra, Brewarrina, Nyngan, Williamtown, Katoomba, and Yass (see page 14).

On the 18th South Australia as a whole had its warmest December night on record (almost nine degrees warmer than the December average), while on the 19th New South Wales as a whole had its second-warmest December night on record (narrowly missing the record set on 21 December 1994).

The highest temperatures during the event were recorded in South Australia at Oodnadatta Airport, Marree Aero, and Moomba Airport, which all reached 47.1 °C on the 18th.

Storms in South Australia and heavy rain in Victoria

A large and complex low pressure system moved into the Bight during the 18th, with a front extending north over the west of South Australia. Strong thunderstorms developed rapidly along the front early in the afternoon in a very hot and unstable air mass. The thunderstorms tracked east during the evening and overnight with the front, reaching eastern border areas of South Australia during the morning of the 19th.

The thunderstorms produced wind gusts near or exceeding 90 km/h at nine different locations in South Australia, included Ceduna, Coober Pedy, Woomera, Roxby Downs, Point AVOID, Cape Borda, Port Augusta, Marree and Yunta. The thunderstorm at Coober Pedy was particularly strong, with recorded winds averaging 89 km/h and gusts to 109 km/h. At Cadney Park Station west of Oodnadatta in the far north, there was tree damage and windows and signs were broken.

The hot, humid and unstable air moved over Victoria during the 19th ahead of a cold front and low pressure trough. Gustly and locally damaging winds developed across Victoria in northerly flow ahead of the front before winds shifted squally west to southwesterly with the passage of the trough and front. Severe thunderstorms developed across much of the State during the afternoon and persisted overnight, mostly affecting areas near the trough and front. Several separate mesocyclones (vortices of air

found within some strong thunderstorms, typically 2 to 10 km in diameter) were detected on radar over the Melbourne metropolitan area.

Flash flooding was reported in parts of Melbourne city and a number of the surrounding suburbs, most notably on the eastern side of the city. The storms were fast-moving so overall totals were low, but rainfall was quite intense over short periods. Hail up to 5 cm in diameter was reported in several locations in the northern and eastern suburbs, and a landslide in Surrey Hills led to the closure of Warrigal Road. Hail caused extensive damage in car yards around Ferntree Gully and Knoxfield.

Extreme rainfall intensity was observed at very short periods, including an annual exceedance probability (AEP) of less than 2% at the 2 to 5 minute range at Melbourne Airport, an AEP of less than 5% at the 3 to 5 minute range at Essendon Airport, and an AEP of less than 20% at the 4 to 10 minute range at Scoresby.

The SES recorded more than 1800 calls for assistance, with 650 from Metropolitan Melbourne. There were 110 000 homes without power at the peak of the event; while 25 000 were still without power at 8 am the following morning, mainly across the north. In the north of the State there were 195 SES callouts in the Mildura area, a truck was overturned by wind on the Hume Hwy between Benalla and Glenrowan at 7:30 pm closing the highway for several hours, and many trees were felled in central and northern Victoria.

Severe thunderstorms in southeast Queensland and northeast New South Wales

Lines of thunderstorms crossed southeastern Queensland and northeast New South Wales on the 9th. Hail the size of tennis balls was reported around Grafton in northeastern New South Wales, with more than 40 calls to the SES for associated roof damage. Felled trees were also reported around Landsborough on the Sunshine Coast in Queensland.

Severe thunderstorms developed over southeast Queensland on the afternoon of the 26th. A particularly intense thunderstorm cell originated near Southbrook, southwest of Toowoomba. As this cell tracked north through Wellcamp and Oakey, it produced large hail stones with a diameter greater than 4 cm at Southbrook, and hail up to 11 cm in diameter was reported at Silverleigh and Goombungee, both north of Oakey. Damaging wind

gusts snapped power poles and large tree branches around Norwin.

Tropical cyclone *Hilda*

Tropical cyclone *Hilda* was first identified as a tropical low which formed just offshore of the northwest Kimberley on 26 December. The system tracked southwestward, crossing the coast and remaining over land as it skirted the Dampier Peninsula. The system reached tropical cyclone strength in the late afternoon of the 27th near Broome, briefly reaching category 2 strength over water before making landfall at 11 pm just north of Bidyadanga. *Hilda* weakened to tropical low strength 2 pm on the 28th, with the remnant low tracking well inland into Central Australia.

Some structural and vegetation damage was reported at both Bidyadanga and at Eco Beach resort (about 80 km northeast of Bidyadanga) as the system passed by. Minor vegetation damage and felled trees were reported at Broome, with heavy rainfall along the track of the cyclone also causing some localised flooding at Broome and disruptions to roads across the western Kimberley, eastern Pilbara, and the Interior district.

Heavy rain and thunderstorm activity on the eastern flank of the remnant low affected the northwest of South Australia during the late afternoon of 31 December and persisted overnight before dissipating around dawn on 1 January 2018. At Murputja on the APY Lands in northwest South Australia, 30 mm of rain fell in an hour and 43 mm in two hours during the early hours on 1 January 2018.

King tide in Sydney

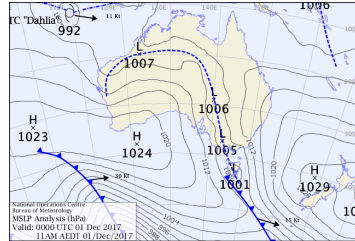
King tides in Sydney reached 2.03 m on the morning of the 5th, inundating footpaths at the Royal Botanic Garden and areas near the Fleet Steps as well as some suburban streets in Haberfield in Sydney's Inner West.

Tully wins the "Golden Gumboot"

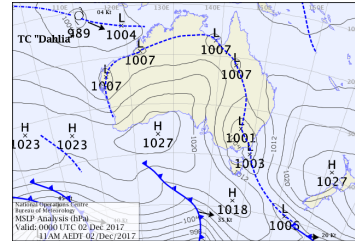
Tully's annual rainfall for 2017 was 3577 mm, beating Babinda to take out the coveted Golden Gumboot (a competition between several towns in Far North Queensland for highest annual total rainfall). Babinda is the wettest on average (an annual average of 4275.5 mm (1912-2016) at the Babinda Post Office weather station, vs 4095.1 mm (1925-2016) at the Tully Sugar Mill weather station), although Tully holds the record for the highest annual rainfall (7898 mm in 1950 at Tully Sugar Mill, vs 7040.2 mm in 2010 at Babinda Post Office).

Synoptic analyses and summary

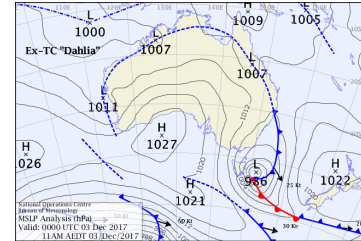
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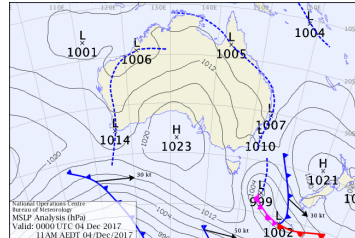
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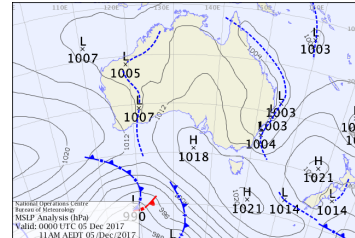
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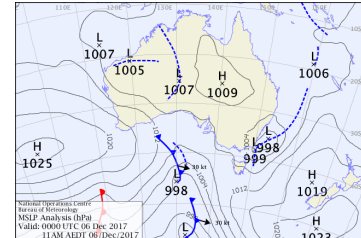
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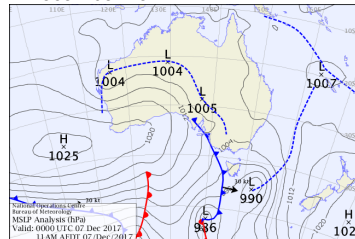
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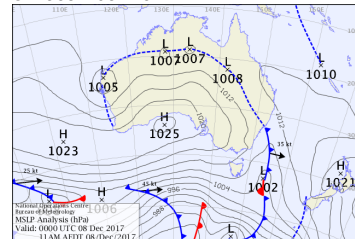
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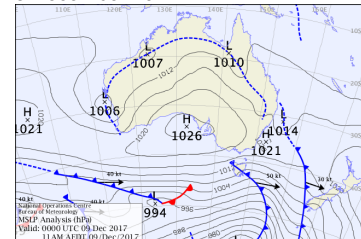
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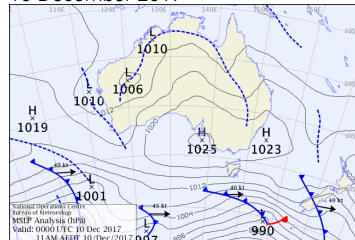
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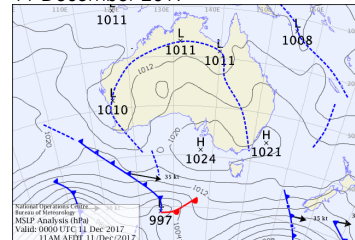
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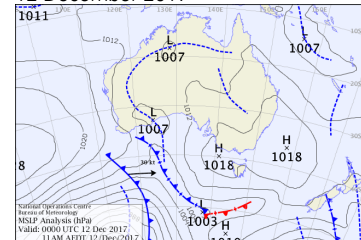
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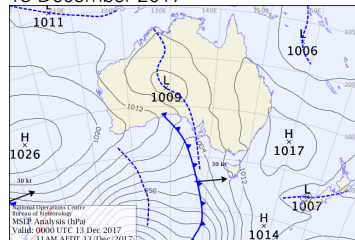
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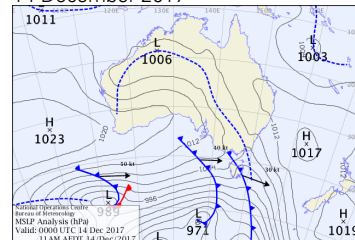
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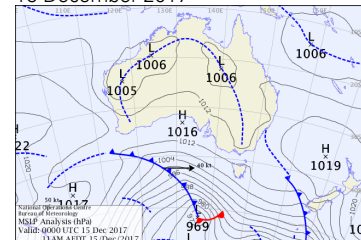
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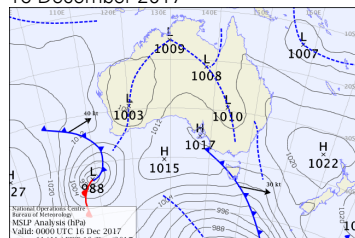
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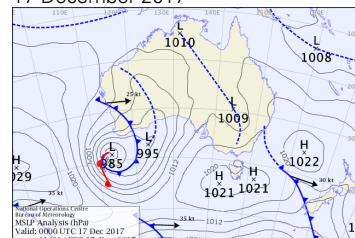
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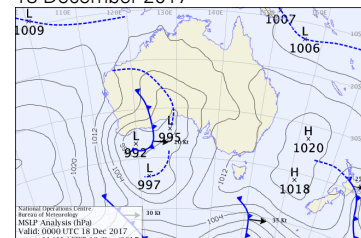
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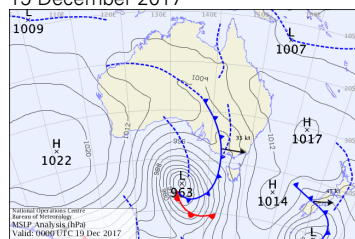
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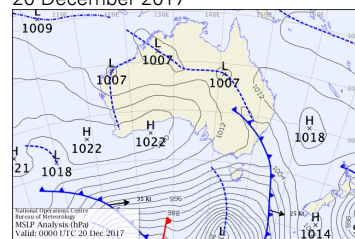
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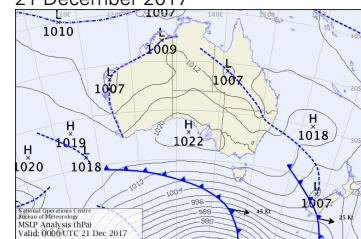
19 December 2017



20 December 2017



21 December 2017



Temperatures

December was another very warm month for Australia. A long-lived blocking high over the Tasman Sea brought an extended warm period from mid- to late December, while the lack of monsoonal activity in the tropics contributed to warmth across the north. Widespread hot weather affected all States and Territories, with numerous locations setting daily temperature records for December.

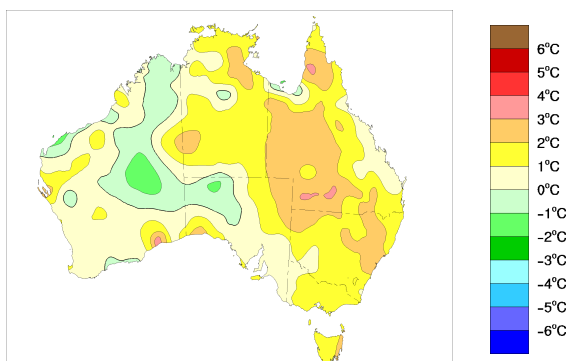
Long-lived blocking high pressure systems during November and December also contributed to record high sea surface temperatures over the Tasman Sea between Bass Strait and the western coast of New Zealand.

The national area-averaged monthly mean temperature was the fifth-warmest on record for December (+1.10 °C), while the mean maximum temperature was sixth-warmest on record (+1.17 °C) and mean minimum temperature equal fifth-warmest (+1.03 °C).

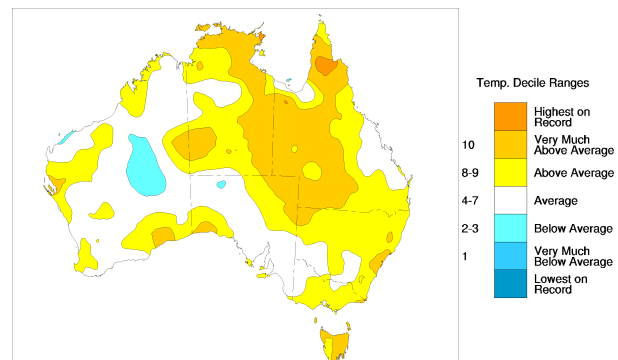
Maximum temperatures

Maximum temperatures were above average across most of eastern Australia and the Northern Territory, but near average for an area of Queensland's central east coast, northwestern Victoria and parts of southern New South Wales inland of the ranges. Maxima were in the warmest 10% of historical observations (decile 10) for December across nearly all of Tasmania, western Queensland and the Cape York Peninsula, most of the Top End, and eastern border regions of the Northern Territory. The mean maximum temperature was the fifth-warmest on record for December for Queensland, the sixth-warmest on record for Tasmania, and the tenth-warmest on record for the Northern Territory.

Anomalies of mean daily maximum temperature in December 2017



Decile rank of mean daily maximum temperature in December 2017



Maxima were also above average for coastal southwest South Australia and areas around the southeast, west and north of Western Australia, with generally near average maxima across southeastern and inland South Australia, and much of inland Western Australia.

December started with daytime maxima much cooler than average for most of the country, as a heavy rainfall event at the start of December brought heavy cloud and two to three times the monthly average rainfall for parts of northern Victoria and southern New South Wales. The largest anomalies were seen on the 3rd, when maxima were more than 10 degrees cooler than average across much of inland New South Wales.

As a high pressure system crossed the Great Australian Bight on the 9th, positive maximum temperature anomalies emerged along the south coast of Western Australia. Above average temperatures progressed along the southern coast of the mainland as the high tracked eastward, with temperatures over southeast South Australia and western to central Victoria more than 12 degrees above average on the 13th.

The high stalled over the Tasman Sea, with a strong blocking high pressure pattern maintained throughout the rest of the month. Combined with a surface trough around northern Australia, persistent northerly airflow over the eastern States saw a prolonged period of widespread hot weather, affecting all States and the Northern Territory.

Temperatures built over South Australia and the southeast most notably between the 17th and 19th, when large areas observed anomalies in excess of 8 degrees above average. Conversely, in the west, a low pressure system and associated cold front brought days up to 12 degrees cooler than average for part of the South West Land Division. This front

brought brief relief across the rest of the southern mainland while rainfall in the northwest brought cooler than average maxima around the 21st.

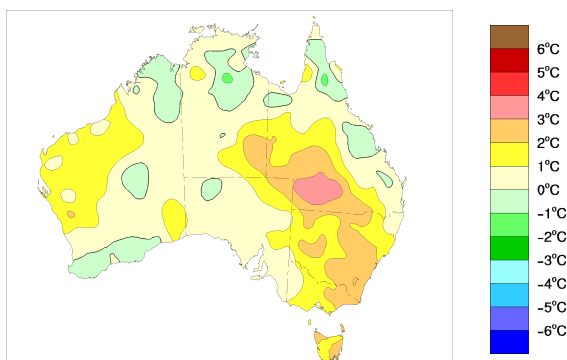
A second pulse of heat built over the Nullarbor Plain on the 22nd, with above average maxima observed over much of the country until the end of the month. A few long-term sites in New South Wales and South Australia set new daily high temperature records for December (see page 14) during the second half of the month, while numerous stations with a shorter station history (less than 30 years) also set records in New South Wales and South Australia.

Storms and onshore flow associated with a surface trough then produced cooler than average maxima on the east coast of New South Wales on the 25th and 26th. In the northwest, tropical cyclone *Hilda* brought heavy rainfall to the western Kimberley from the 25th then along the path of the remnant low as it traversed the interior. Cooler than average days resulted through the eastern Top End and Kimberley, then through the Interior, with cooler air reaching South Australia and Victoria by the end of the month.

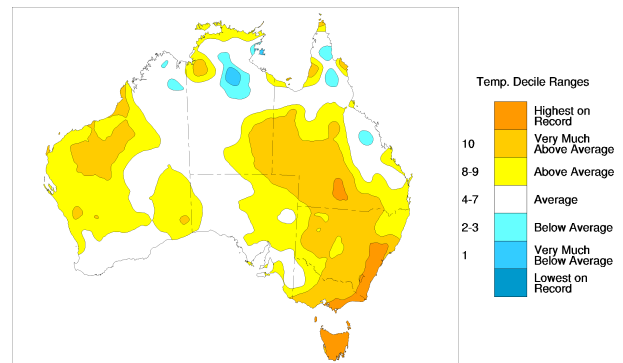
Minimum temperatures

Minima were above average to very much above average across much of southeastern Australia, western and southern Queensland, the southeast of the Northern Territory, and much of western to central Western Australia. December mean minima were the warmest on record across almost all of Tasmania and along the mainland east coast between Port Phillip in Victoria and coastal southern to central New South Wales reaching as far inland as Canberra, Mudgee, and Scone. Many sites in the southeast observed their warmest on record mean minimum temperature for December (see page 14). Below average minima were observed in pockets of the Northern Territory at the base of the Top End and in northern and Queensland.

Anomalies of mean daily minimum temperature in December 2017



Decile rank of mean daily minimum temperature in December 2017



In area-averaged terms, the December mean minimum temperature was the warmest on record for Tasmania, the second-warmest on record for New South Wales, eighth-warmest for Victoria, and equal eighth-warmest for Queensland.

Minima were cooler than average over much of Australia during the first week and a half of December. Warmth building in the west saw a warmer than average night on the west coast of Western Australia on the 8th, with above average minima then spreading and tracking across southern Australia following the progression of a high pressure system which brought both warm days and nights.

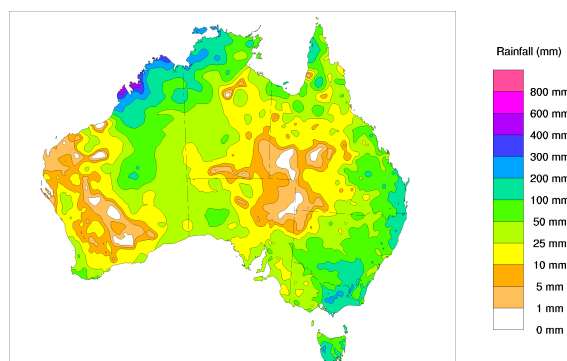
Minimum temperatures for the 24 hours to 9 am on the 14th were notably warm over the southeast and far southwestern Queensland, reaching more than 8 degrees above average in inland New South Wales, eastern Victoria, and northeast South Australia. Generally warmer than average nights continued over the following days, spreading to affect most of the mainland away from the north and west coasts, peaking on the 19th with anomalies in excess of 10 degrees over the inland southeast and southwestern Queensland. A record warm night was observed at a number of sites, mostly in New South Wales on the 19th or 20th (see page 14).

Minima were close to average for much of Australia for a few days before trending warmer again from the 24th. Minima were between 8 and 12 degrees above average over Victoria and Tasmania for the 24 hours to 9 am on the 28th under the effect of northerlies along a surface trough and ahead of an approaching cold front. Warmth moved into western New South Wales on the following night, decreasing somewhat as much of Queensland observed a warm night for the 24 hours to 9 am on the 31st.

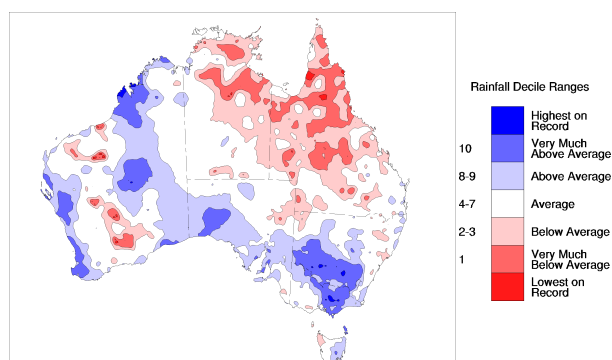
Rainfall

Nationally, rainfall for Australia was 13% below the long-term average for December. Total rainfall for both Queensland and the Northern Territory was below average, while remaining States were all above average. Victoria had its twelfth-wettest December on record.

Total rainfall in December 2017



Decile rank of total rainfall in December 2017



Rainfall was above to well above average in the north and the eastern half of Victoria, southern New South Wales, eastern Tasmania, and southern and southwest South Australia. Above to well above average rainfall was also recorded along the west coast of Western Australia south of Exmouth, and in the eastern half of Western Australia from the West Kimberley coast, through the State's central interior to the Eucla coast in the south. Much of Queensland, the north and east of the Northern Territory, and areas of the Pilbara coast and southern interior of Western Australia, and northwestern Tasmania reported below average rainfall. Near-average falls were recorded elsewhere.

It was a very wet start to the month for much of eastern Australia. At the start of the month, a broad surface low and an associated upper level trough generated a massive cloudband with widespread thunderstorm activity from northwestern Australia, through central Australia, to New South Wales, Victoria and Tasmania. Widespread moderate to

heavy falls were reported in Victoria and Tasmania, and numerous locations in New South Wales, Victoria and Tasmania reported their wettest December day on record, mainly on the 2nd. A number of locations also reported their highest December rainfall on record.

In the west, tropical cyclone *Dahlia*, situated well off the northwest coast of Western Australia, began a southeast track towards the mainland before weakening below tropical cyclone strength by the 3rd.

Around the same time, thunderstorms and showers developed from central to southern Queensland, and across much of the eastern half of New South Wales. An intense low pressure system east of Tasmania maintained a vigorous southerly flow over the State, with moderate falls recorded; heavier in northeastern Tasmania. Further moderate to heavy falls were recorded along the east coast and adjacent inland districts of Queensland, and in northeastern New South Wales; moderate falls also continued over much of the southern half of Tasmania. Around the 6th, showers and storms produced moderate rainfall totals along the east coast of New South Wales.

The next rain bearing system was associated with a cold front tracking across southeastern Australia, with moderate falls recorded in southeastern South Australia, southern Victoria, southern New South Wales and western Tasmania. Thunderstorms produced moderate falls in the Kimberley district in Western Australia for several days, before a developing surface trough and embedded low pressure system along the west coast of Western Australia produced further isolated thunderstorms through central Western Australia. An inland surface trough extending through Queensland triggered thunderstorms and shower activity, with locally heavy falls reported in southeastern Queensland and northeastern New South Wales on the 10th.

Around the 18th, thunderstorms with moderate falls were recorded along a surface trough located through inland New South Wales. Further south, a cold front and associated complex low pressure system moved across southern Australia, with thunderstorms forming near the low and along the pre-frontal surface trough. Moderate falls were recorded in southwest and southern Western Australia, northern and southeastern South Australia, and central and eastern Victoria. Flash flooding occurred in parts of Melbourne on the 19th due to fast-moving thunderstorms.

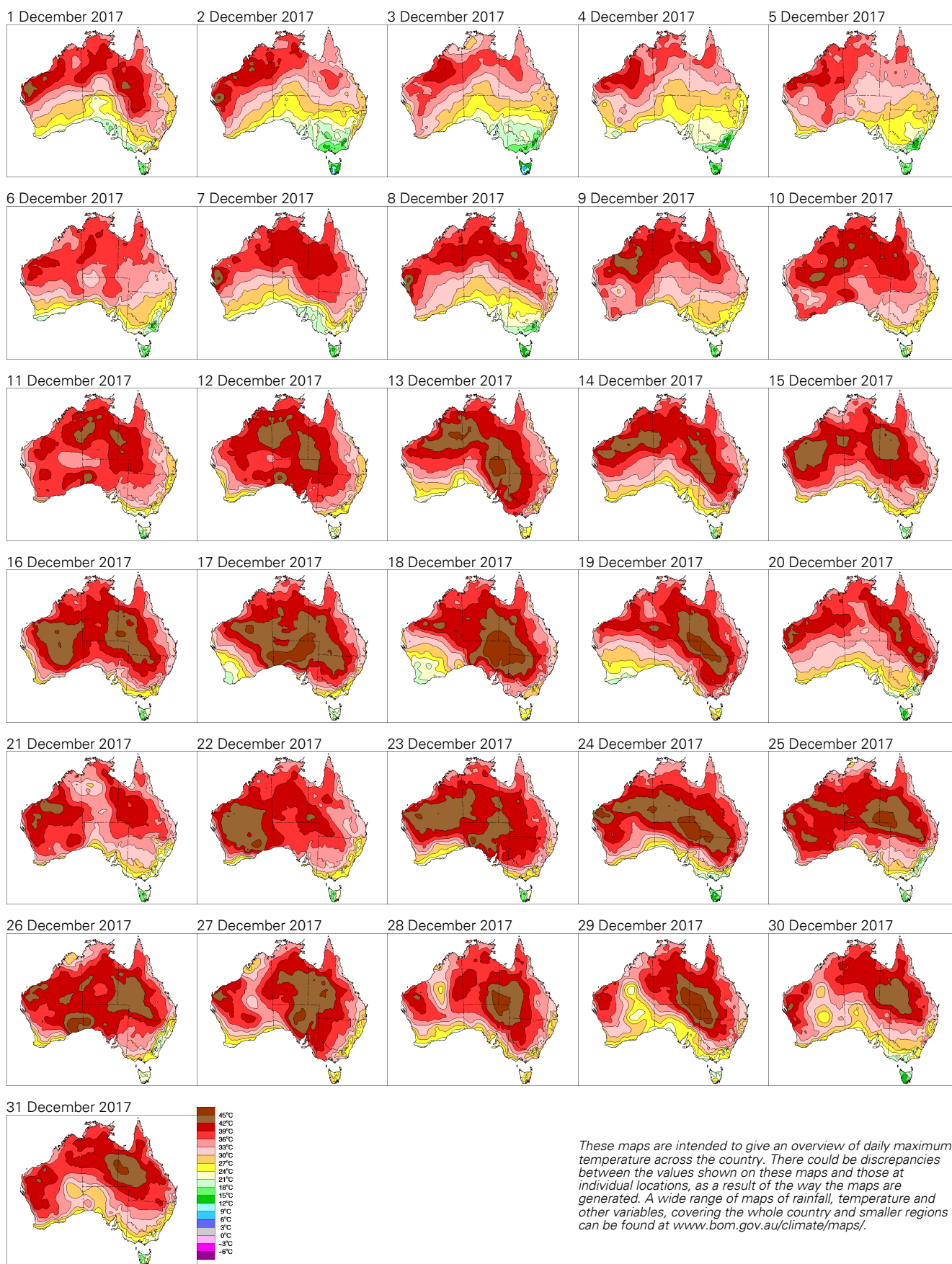
Further thunderstorm activity occurred over the Kimberley, and much of the western half of the Northern Territory, as well as the Gulf Country and

Cape York Peninsula – all associated with a broad area of low pressure across northern Australia. The trough extended through inland Queensland and New South Wales, with thunderstorms developing over southern and southeastern Queensland and northeastern New South Wales around the 22nd and 23rd.

A lingering monsoon trough north of Australia produced showers and thunderstorms, and brought moderate to locally heavy falls to the Kimberley and the Top End for several days. A deep, inland surface trough extending through southern and southeastern Queensland produced severe thunderstorms with localised heavy falls, large hail and strong winds affecting the southeastern Queensland district, and northeastern New South Wales on the 26th and 27th.

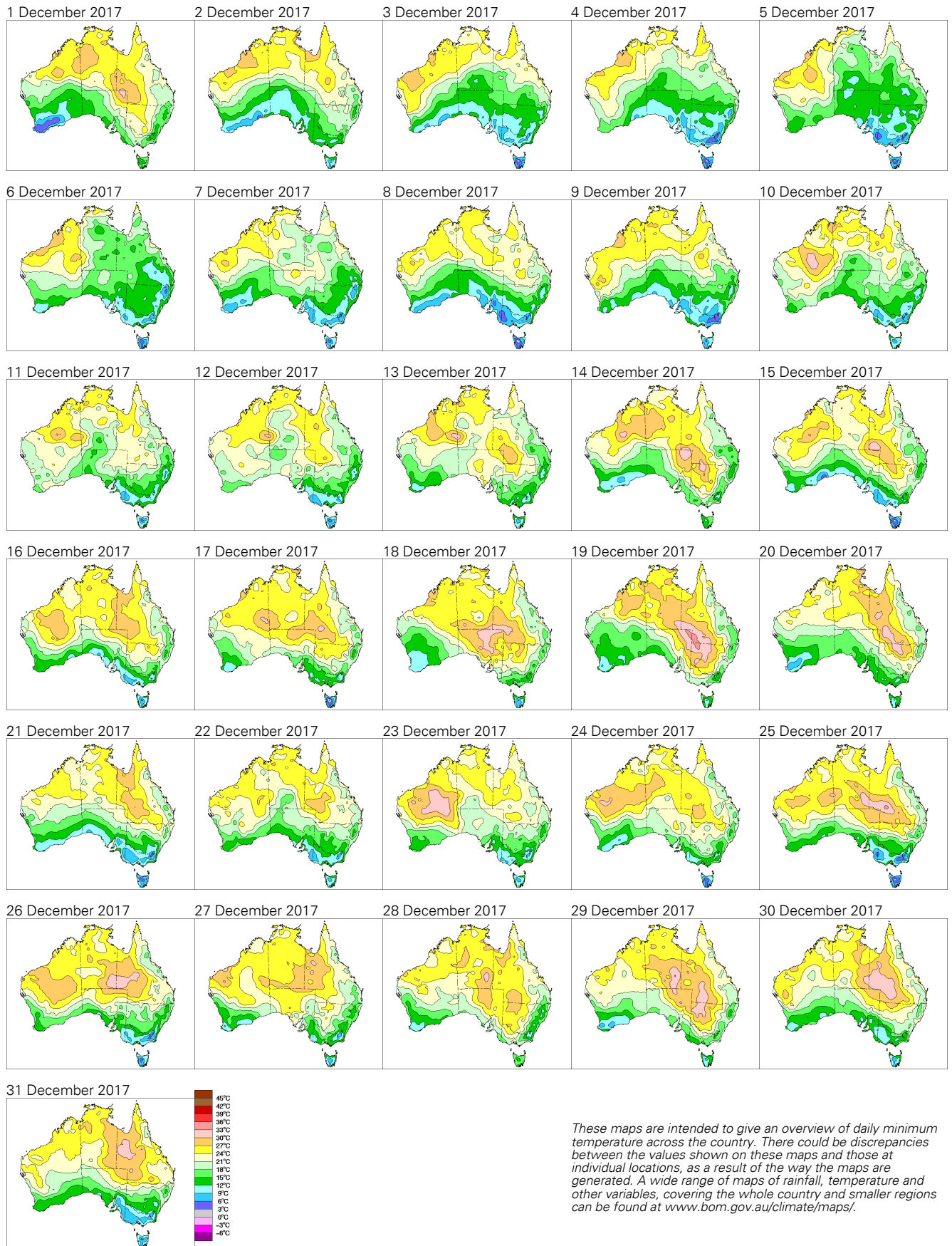
In the last few days of the month, a tropical low embedded on the monsoon trough was located near the Kimberley coast near Broome. This tropical low intensified and reached tropical cyclone strength late on the 27th, and was named tropical cyclone Hilda. Heavy rainfall associated with Hilda was recorded in the western Kimberley and parts of eastern Pilbara, with widespread moderate falls recorded across the central interior and southeastern areas of Western Australia. The system weakened as it tracked southeast, with a surface trough extending from northwestern to southeastern Australia. Widespread moderate falls were recorded in the Kimberley, Pilbara, central Australia, and in New South Wales, eastern Victoria, as well as western Tasmania.

Daily maximum temperature maps

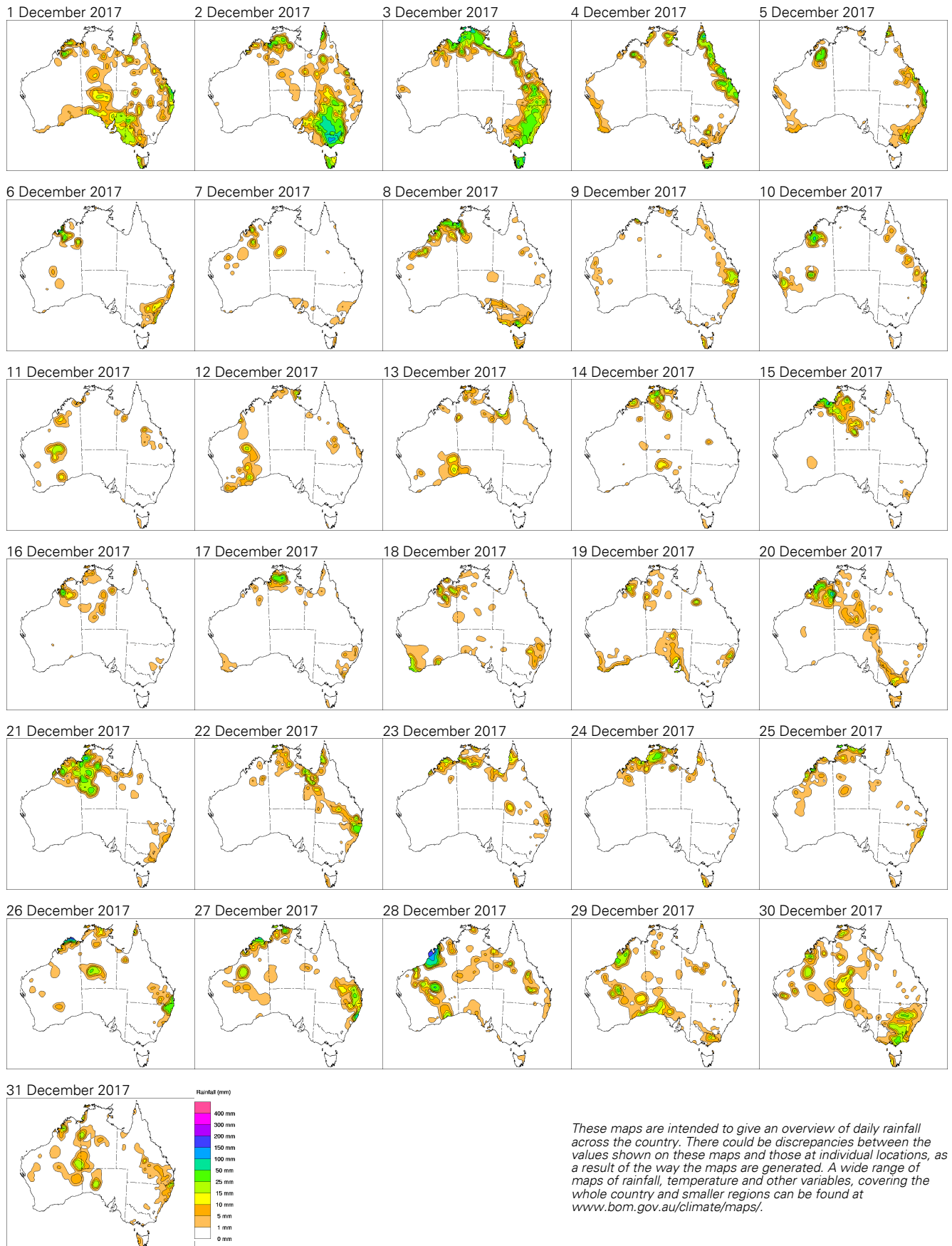


These maps are intended to give an overview of daily maximum temperature across the country. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated. A wide range of maps of rainfall, temperature and other variables,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

Daily minimum temperature maps



Daily rainfall maps



Records

Record highest December daily maximum temperature

	New record	Old record	Years of record
South Australia			
016001 Woomera Aerodrome	45.5 on 18th	45.4 on 27th in 1949	69
New South Wales			
061078 Williamtown RAAF	43.7 on 20th	42.8 on 23rd in 1990	69
065034 Wellington (D&J Rural)	43.1 on 24th	41.7 on 30th in 1965	50
200839 Lord Howe Island Aero	28.4 on 25th	28.3 on 20th in 1997	30

Record highest December mean maximum temperature

	New record	Old record	Years of record
Northern Territory			
014508 Gove Airport	34.9	34.7 in 1967	39
Queensland			
029127 Mount Isa Aero	39.9	39.7 in 2002	52
040717 Coolangatta	29.2 =	29.2 in 2005	32
New South Wales			
066137 Bankstown Airport AWS	30.7	30.4 in 2005	50

= indicates the new record equals the old one.

Highest December mean maximum temperature for at least 30 years

	Observed this month	Most recent higher
Queensland		
028004 Palmerville	38.0	38.1 in 1935 *

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

Record lowest December daily maximum temperature

	New record	Old record	Years of record
Western Australia			
009037 Badgingarra Research Stn	20.3 on 18th	21.0 on 11th in 2005	49

Record lowest December daily minimum temperature

	New record	Old record	Years of record
Northern Territory			
014626 Daly Waters Airstrip	13.0 on 6th	14.6 on 23rd in 1950	48
014932 Tindal RAAF	18.1 on 6th	19.2 on 30th in 2000	30
Queensland			
029127 Mount Isa Aero	12.0 on 6th	13.4 on 7th in 1978	52

Record lowest December mean minimum temperature				
		New record	Old record	Years of record
Northern Territory				
014626	Daly Waters Airstrip	22.8	22.9 in 1950	48

Record highest December daily minimum temperature				
		New record	Old record	Years of record
Western Australia				
001007	Troughton Island	30.3 on 12th	30.1 on 10th in 2016	39
Northern Territory				
015602	Jervois	32.5 on 29th	32.4 on 1st in 1996	50
Queensland				
036007	Barcaldine Post Office	30.4 on 26th =	30.4 on 2nd in 1996	56
040043	Cape Moreton Lighthouse	25.2 on 31st	25.0 on 27th in 2003	107
041100	Texas Post Office	26.5 on 21st	26.4 on 8th in 2009	48
New South Wales				
048015	Brewarrina Hospital	30.2 on 20th	30.0 on 22nd in 2000	49
048027	Cobar MO	30.1 on 19th	29.7 on 30th in 1965	56
051039	Nyngan Airport	29.0 on 20th	28.9 on 17th in 2009	59
061078	Williamstown RAAF	24.6 on 20th =	24.6 on 31st in 2016	69
063039	Katoomba (Murri St)	23.4 on 20th	23.2 on 23rd in 2013	55
067019	Prospect Reservoir	25.5 on 20th	25.3 on 23rd in 2000	51
Victoria				
085279	Bairnsdale Airport	21.4 on 14th	21.3 on 24th in 2012	37
= indicates the new record equals the old one.				

Record highest December mean minimum temperature				
		New record	Old record	Years of record
Queensland				
044026	Cunnamulla Post Office	23.6 =	23.6 in 1990	111
New South Wales				
061250	Paterson (Tocal AWS)	17.9	17.8 in 2016	45
062013	Gulgong Post Office	17.4	16.8 in 2014	44
063039	Katoomba (Murri St)	14.7	14.3 in 2016	90
063063	Oberon (Springbank)	12.2	11.9 in 1975	46
064009	Dunedoo Post Office	18.3	17.5 in 2016	62
068192	Camden Airport AWS	17.6	17.0 in 2016	42
069017	Montague Island Lighthouse	17.9	17.6 in 2016	46
069018	Moruya Heads Pilot Station	17.4	16.7 in 2016	142
069022	Narooma (Marine Rescue)	17.1	16.5 in 2016	33
070080	Taralga Post Office	12.3	12.2 in 1975	59
070263	Goulburn TAFE	14.8	14.4 in 2016	42
071041	Thredbo Village	7.8 =	7.8 in 2003	47
Victoria				
084070	Point Hicks (Lighthouse)	15.6	15.5 in 1975	49
085096	Wilsons Promontory Lighthouse	15.1	14.7 in 2007	140
085280	Morwell (Latrobe Valley Airport)	12.9 =	12.9 in 1988	33
086077	Moorabbin Airport	14.6	14.3 in 2015	47
086127	Wonthaggi	14.0	13.6 in 1988	47
087031	Laverton RAAF	14.1 =	14.1 in 1965	75
Tasmania				
091219	Scottsdale (West Minstone Road)	11.1	10.8 in 2015	46
091223	Marrawah	12.3	11.9 in 2007	47
091237	Launceston (Ti Tree Bend)	12.3	12.2 in 1992	35
092003	Bicheno (Council Depot)	13.2	12.8 in 2015	43
092012	Fingal (Legge Street)	10.3	10.0 in 1990	32
092027	Orford (Aubin Court)	12.8	12.2 in 2007	50
092045	Irapuna (Eddystone Point)	13.7 =	13.7 in 2015	105
094008	Hobart Airport	13.2	12.7 in 2005	60
094029	Hobart (Ellerslie Road)	13.4	12.8 in 2005	136
097000	Cape Sorell	12.7	12.6 in 1919	78
099005	Flinders Island Airport	14.1	13.7 in 2007	55
= indicates the new record equals the old one.				

Highest December mean minimum temperature for at least 30 years			
		Observed this month	Most recent higher
New South Wales			
063005	Bathurst Agricultural Station	14.2	14.3 in 1940 *
065034	Wellington (D&J Rural)	17.7	17.9 in 1975 *
072043	Tumbarumba Post Office	12.4	12.6 in 1975 *
Tasmania			
095003	Bushy Park (Bushy Park Estates)	10.7 =	10.7 in 1985
* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported. = indicates the new record equals the old one.			

Record highest December mean temperature				
		New record	Old record	Years of record
Queensland				
044021	Charleville Aero	30.5	30.4 in 1979	76
New South Wales				
066137	Bankstown Airport AWS	24.7	24.6 in 1990	50
068192	Camden Airport AWS	24.7	24.4 in 1990	42
Victoria				
084070	Point Hicks (Lighthouse)	19.9 =	19.9 in 2015	49
Tasmania				
091107	Wynyard Airport	16.3 =	16.3 in 2015	32
092003	Bicheno (Council Depot)	17.6	17.4 in 2005	43
092012	Fingal (Legge Street)	17.0 =	17.0 in 2015	32
094008	Hobart Airport	18.1	17.8 in 1994	60
094029	Hobart (Ellerslie Road)	18.0 =	18.0 in 1994	136
097000	Cape Sorell	16.1	15.6 in 2015	78
= indicates the new record equals the old one.				

Highest December mean temperature for at least 30 years			
		Observed this month	Most recent higher
Queensland			
044026	Cunnamulla Post Office	31.0	31.4 in 1972
Tasmania			
091009	Burnie (Round Hill)	16.9	17.0 in 1975

Record highest December daily rainfall				
		New record	Old record	Years of record
Western Australia				
003032	Derby Aero	150.4 on 28th	147.4 on 22nd in 2016	57
003041	Kilto Station	201.0 on 28th	116.8 on 24th in 2008	36
003057	Cygnets Bay	291.5 on 27th	209.4 on 16th in 1993	54
008273	Arena	32.6 on 10th	29.2 on 28th in 1983	37
009207	Pickering Brook North	29.8 on 18th	25.6 on 13th in 2016	30
009240	Bickley	36.4 on 18th	35.6 on 31st in 1983	47
South Australia				
019111	Martins Well	38.8 on 1st	28.0 on 14th in 1993	31
Queensland				
040289	Eumarella	102.4 on 22nd	96.3 on 9th in 1965	46
041212	Rosalie Plains	91.0 on 21st	65.5 on 10th in 1970	58
= indicates the new record equals the old one.				

Record highest December daily rainfall

	New record	Old record	Years of record
New South Wales			
047000 Gum Lake (Albemarle)	64.0 on 2nd	51.4 on 28th in 1975	132
049055 Oxley (Walmer Downs)	87.0 on 4th	64.3 on 6th in 1922	96
050010 Burcher Post Office	98.0 on 3rd	79.4 on 26th in 2009	73
050045 Yalgogrin North (Roloma)	95.0 on 2nd	66.5 on 17th in 1930	119
054073 Nullamanna (Belmore)	80.0 on 26th =	80.0 on 10th in 1985	60
063018 Orange (Canobolas State Forest)	91.0 on 4th	63.0 on 1st in 2010	61
063234 Walli (Kentucky)	81.0 on 2nd	57.4 on 8th in 1971	47
065019 Gooloogong Post Office	86.0 on 2nd	85.1 on 21st in 1903	110
071073 Brindabella (Koolami)	67.4 on 2nd	58.4 on 13th in 2008	34
072154 Mount Horeb (Marathorn)	55.8 on 2nd	50.6 on 26th in 1988	80
074033 Coolamon Post Office	69.4 on 2nd	58.0 on 16th in 2016	131
074037 Yanco Agricultural Institute	53.6 on 2nd	53.3 on 3rd in 1980	60
074040 Jerilderie (Pooginook)	77.0 on 2nd	75.0 on 19th in 2011	110
074110 Urana Post Office	102.0 on 4th	69.0 on 9th in 2010	140
074118 Whitton (Conapaira St)	79.0 on 2nd	60.2 on 19th in 1955	107
074129 Mathoura (Mathoura Station)	46.8 on 2nd	46.0 on 13th in 1975	108
074202 Ganmain (Rosedale)	63.0 on 2nd	49.0 on 9th in 2010	49
074217 Marrar (Brigadoon)	46.6 on 2nd	44.2 on 3rd in 1980	50
074249 Coleambally Irrigation	57.2 on 2nd	50.6 on 22nd in 2007	40
075007 Booligal (Belmont)	99.7 on 2nd	70.4 on 7th in 1965	128
075018 Hay (Corrong)	81.8 on 2nd	67.0 on 22nd in 2007	114
075041 Griffith Airport AWS	61.4 on 2nd	49.0 on 5th in 1992	52
075042 Maude Post Office	85.0 on 2nd	53.3 on 16th in 1958	123
075049 Maude (Nap Nap)	83.4 on 2nd	72.4 on 17th in 1902	128
075079 Yenda (Henry Street)	75.0 on 2nd	48.0 on 22nd in 2007	92
075140 Gunbar (Kelsey)	67.0 on 2nd	53.2 on 22nd in 2007	68
075142 Merriwagga (Sylvanham)	73.4 on 2nd	32.0 on 16th in 1992	50

= indicates the new record equals the old one.

Record highest December daily rainfall				
		New record	Old record	Years of record
Victoria				
076107	Tutye (Bunurouk)	65.0 on 1st =	65.0 on 8th in 2010	49
080015	Echuca Aerodrome	123.0 on 2nd	77.5 on 28th in 1903	136
080036	Mincha	60.0 on 2nd	59.0 on 11th in 2004	112
080056	Tongala	88.0 on 2nd	66.4 on 14th in 2004	88
080091	Kyabram	65.6 on 2nd	43.8 on 9th in 1988	54
080095	Kotta	88.0 on 2nd	62.2 on 30th in 2016	51
080101	Numurkah	70.0 on 2nd	62.4 on 9th in 2010	43
080109	Cobram (Goulburn Murray)	61.2 on 2nd	59.0 on 26th in 1978	59
080125	Ulupna	84.5 on 2nd	43.0 on 22nd in 2007	41
080126	Kerang Model Farm	74.0 on 2nd	70.2 on 8th in 1992	39
081019	Nagambie (Goulburn Weir)	93.4 on 2nd	83.1 on 8th in 1930	95
081033	Molka (Lowana)	110.4 on 2nd	58.9 on 7th in 1930	116
081035	Murchison	146.8 on 2nd	63.5 on 15th in 1947	130
081046	Stanhope	128.8 on 2nd	88.8 on 30th in 2016	94
081049	Tatura Inst Sustainable Ag	72.6 on 2nd	58.7 on 4th in 1954	76
081095	Murchison (Arcadia (Sunnyville))	71.0 on 2nd	68.0 on 31st in 1991	49
081120	Rushworth (Raglus)	87.0 on 2nd	81.4 on 31st in 1991	32
082000	Barnawartha	84.0 on 2nd	73.9 on 23rd in 1964	113
082001	Beechworth Composite	110.6 on 2nd	102.0 on 26th in 1988	132
082016	Euroa	146.0 on 2nd	59.0 on 22nd in 2007	131
082042	Strathbogie	164.6 on 2nd	80.8 on 14th in 1966	102
082057	Wooragee	81.0 on 2nd	66.0 on 7th in 1930	118
082096	Creightons Creek (Baronga (Creighton's C	149.0 on 2nd	72.0 on 22nd in 2007	80
082103	Burrowye Station	61.0 on 2nd	60.0 on 3rd in 1980	49
083010	Eurobin	118.2 on 2nd	85.6 on 26th in 1988	95
083024	Mount Buller	138.6 on 2nd	102.8 on 9th in 2010	35
083033	Woods Point	138.0 on 1st	120.7 on 1st in 1934	127
086364	Tarrawarra Monastery	64.0 on 2nd	42.0 on 26th in 2011	32
088023	Lake Eildon	148.6 on 2nd	75.7 on 1st in 1934	127
088031	Highlands (Glentannar)	120.0 on 2nd	108.0 on 7th in 1930	103
088109	Mangalore Airport	68.2 on 2nd	51.8 on 31st in 1991	57
088130	Buxton	81.8 on 2nd	56.6 on 22nd in 2007	48
088158	Strath Creek	88.0 on 2nd	72.2 on 22nd in 2007	36
Tasmania				
091077	Deddington (Marathon)	59.0 on 3rd	55.9 on 11th in 1958	86
091237	Launceston (Ti Tree Bend)	51.8 on 3rd	46.0 on 8th in 1982	38
093033	Campbell Town (Elizabeth R)	47.1 on 2nd	43.2 on 27th in 1970	31
096046	Miena Dam	65.6 on 3rd	58.2 on 8th in 1982	92
= indicates the new record equals the old one.				

Record highest December total rainfall				
		New record	Old record	Years of record
Western Australia				
003001	Country Downs	446.6	398.3 in 1970	43
003057	Cygnets Bay	621.7	416.4 in 1993	52
003073	Kimbolton	490.8	424.0 in 2016	33
009207	Pickering Brook North	54.8	49.8 in 2011	30
009240	Bickley	64.4	41.0 in 2011	47
009547	Forest Grove	74.4	73.0 in 1996	92
013015	Carnegie	98.0 =	98.0 in 1995	63
New South Wales				
074002	Ariah Park Post Office	138.2	119.5 in 1999	109
074202	Ganmain (Rosedale)	124.6	120.0 in 1999	49
074217	Marrar (Brigadoon)	139.4	117.2 in 2007	49
075018	Hay (Corrong)	133.8	108.6 in 1992	122
075079	Yenda (Henry Street)	129.0	117.0 in 1992	92
Victoria				
080091	Kyabram	111.0	93.7 in 1992	54
081035	Murchison	190.0	153.2 in 1930	130
081046	Stanhope	181.0	171.0 in 1930	96
081095	Murchison (Arcadia (Sunnyville))	148.0	112.2 in 1992	46
082000	Barnawartha	128.6	127.7 in 1975	114
082016	Euroa	186.8	185.9 in 1930	131
082096	Creightons Creek (Baronga (Creighton's C	214.2	159.5 in 1954	80
083024	Mount Buller	280.6	274.2 in 2010	35
083057	Myrtleford (Ovens Research Station)	171.8	169.2 in 1975	51
083064	Benambra (The Brothers)	150.6	141.6 in 1988	49
085163	Yanakie (Shallow Inlet)	132.8	117.8 in 1978	47
086244	Cranbourne South	138.8	137.9 in 1993	50
086303	Glen Waverley (Golf Course)	198.2	178.6 in 1993	42
086364	Tarrawarra Monastery	192.6	150.2 in 1993	30
088023	Lake Eildon	214.6	180.8 in 1930	128
088130	Buxton	160.0	154.0 in 1973	45
088158	Strath Creek	159.2	126.4 in 1988	36
= indicates the new record equals the old one.				

Highest December total rainfall for at least 30 years			Observed this month	Most recent higher
Western Australia				
008273	Arena		42.8	49.6 in 1983
New South Wales				
073023	Kangiarra (Laverstock)		165.4	188.8 in 1971 *
073025	Old Junee (Millbank)		117.0	194.0 in 1971
073032	Quandialla Post Office		151.6	168.3 in 1971 *
074040	Jerilderie (Pooginook)		127.2	134.7 in 1930 *
074126	Yerong Creek (Fertilizer Depot)		114.4	117.7 in 1930 *
075049	Maude (Nap Nap)		126.6	134.3 in 1894 *
075071	Wanganella General Store		97.0	129.6 in 1954 *
Victoria				
080015	Echuca Aerodrome		147.0	180.1 in 1930
081033	Molka (Lowana)		140.2	153.5 in 1930
082042	Strathbogie		227.6	241.3 in 1966 *
083003	Benambra (Evandale)		157.0	168.1 in 1971 *
083010	Eurobin		196.0	258.6 in 1933
083019	Mansfield (Post Office)		204.8	263.3 in 1966 *
083033	Woods Point		246.2	302.2 in 1887 *
083035	Omeo Shannon Vale		167.2	182.8 in 1966 *
084012	Dargo		169.2	178.3 in 1968 *
085029	Foster (Post Office)		157.1	170.9 in 1964 *
085033	Giffard		160.6	177.1 in 1935 *
085040	Fish Creek (Hoddle Range)		142.0	151.8 in 1985
085049	Leongatha Sth Gippsland Water		147.9	176.0 in 1985 *
085063	Mount Best (Upper Toora)		182.2	231.6 in 1970 *
085084	Toora		151.0	153.0 in 1985 *
085096	Wilsons Promontory Lighthouse		124.6	131.0 in 1970
085160	Darriman (Tarralangi)		160.6	210.2 in 1970 *
085195	Willow Grove		149.3	191.0 in 1985 *
086038	Essendon Airport		150.4	152.7 in 1933 *
086077	Moorabbin Airport		134.4	146.6 in 1954 *
088002	Avenel (Post Office)		119.8	144.0 in 1966 *
088031	Highlands (Glentannar)		200.0	226.0 in 1930
088044	Marysville (Post Office)		199.8	214.6 in 1947 *
088067	Yea		129.4	156.5 in 1966 *
088109	Mangalore Airport		113.4	119.4 in 1985
Tasmania				
091077	Deddington (Marathon)		111.6	195.0 in 1985 *
* note: there are gaps in the historical record at this site, so it is possible a higher value has gone unreported.				

Record lowest December total rainfall				
		New record	Old record	Years of record
Northern Territory				
014628	Tanumbirini	7.8	9.4 in 1975	41
Queensland				
029038	Kowanyama Airport	5.0	17.5 in 1966	105
029152	Boodjamulla - Lawn Hill NP	7.0	10.4 in 2006	31
030090	Bagstowe Station	12.0	18.0 in 1966	51
031085	Kareeya	12.0	19.0 in 1986	54
031168	Greenhaven	61.4	64.6 in 2002	38
031189	White Cliff Point	31.2	37.2 in 2012	30
032045	Victoria Sugar Mill	7.2	7.3 in 1905	120
032192	Cardwell Range	7.4	22.6 in 2013	52

Lowest December total rainfall for at least 30 years			
		Observed this month	Most recent lower
Western Australia			
010811	Nth Ravensthorpe	1.0 =	1.0 in 1981 *
Northern Territory			
014703	Centre Island	15.0	5.0 in 1986
014847	Kidman Springs	33.9	25.4 in 1981
015131	Elliott	0.4	0.0 in 1976 *
015511	Curtin Springs	1.0	0.0 in 1972 *
Queensland			
028004	Palmerville	9.0	2.5 in 1938
030045	Richmond Post Office	12.4	8.8 in 1966
031011	Cairns Aero	26.8	9.0 in 1951
031021	Deeral	60.8	51.9 in 1968 *
031037	Low Isles Lighthouse	17.0	5.6 in 1935 *
031144	Happy Valley	55.6	34.8 in 1968
032002	Bemerside	8.8	7.1 in 1940 *
032009	Bingil Bay	17.8	17.5 in 1940 *
032023	Halifax Macrossan St	5.8	4.8 in 1905 *
032025	Innisfail	25.9	10.0 in 1934 *
032031	Lucinda Township	1.2	0.0 in 1934 *
032037	South Johnstone Exp Stn	46.6	32.6 in 1968
032042	Tully Sugar Mill	35.2	28.4 in 1940 *
032191	Hawkins Creek	15.8	8.6 in 1972
035000	Alpha Post Office	8.4	5.1 in 1966 *
036026	Isisford Post Office	5.8	4.8 in 1955 *
038062	Carella Station	1.0	0.0 in 1982 *
043035	Surat	17.6	9.7 in 1972
New South Wales			
068007	Camden (Brownlow Hill)	18.4	12.2 in 1986
Tasmania			
098017	King Island Airport	20.8	19.8 in 1980
* note: there are gaps in the historical record at this site, so it is possible a lower value has gone unreported. = indicates the new record equals the old one.			

Selected observations

Daily and mean maximum temperatures for December 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	31	
001019 Kalumburu Aero	35.3	34.9	35.9	32.9	35.8	37.0	36.2	36.4	35.7	37.3	37.2	39.6	38.7	38.1	36.5	31.3	34.3	35.9	36.1	35.4	34.9	36.5	36.0	35.3	35.2	32.0	29.2	32.4	33.4	33.7	34.7	36.8	
002056 Kununurra Aero	37.4	37.8	39.1	31.3	36.1	37.6	38.6	39.3	37.3	38.7	39.3	40.7	40.8	42.2	39.7	32.2	36.6	37.7	38.6	38.2	38.1	34.1	37.0	37.6	35.7	35.6	31.6	35.5	36.5	37.0	38.2	40.1	
003003 Broome Airport	34.5	+0.6	35.8	38.3	36.1	34.8	33.8	34.2	32.6	34.5	34.0	38.2	37.3	34.5	33.6	33.4	34.2	33.5	33.6	33.3	34.1	33.9	37.3	35.0	36.2	37.0	37.2	29.4	30.5	31.3	32.6	33.9	
003032 Derby Aero	37.7	39.5	40.3	39.0	38.8	37.9	35.4	36.3	38.5	40.0	38.7	38.4	41.7	41.1	37.3	39.8	39.2	38.7	38.4	39.2	38.5	39.8	39.2	40.5	38.4	40.1	38.4	26.7	29.9	30.5	33.5	35.4	
004032 Port Hedland Airport	36.9	0.0	38.2	39.9	34.6	37.1	36.5	35.2	35.4	36.7	35.8	33.5	36.1	35.7	36.4	36.3	38.7	35.0	37.8	37.6	35.9	39.7	37.6	36.2	35.7	38.3	40.3	39.8	40.7	39.0	35.0	33.6	
004083 Karratha Aero	35.4	35.7	36.9	33.3	36.7	37.5	36.6	34.9	34.1	33.3	32.9	32.9	33.1	32.8	34.0	34.2	34.4	33.7	34.1	37.8	36.4	36.0	36.1	36.5	36.9	41.6	38.9	37.0	37.0	33.9	33.3		
004106 Marble Bar	42.3	43.1	42.9	40.8	41.9	42.9	42.0	41.0	38.5	43.7	39.4	41.2	41.2	42.7	44.3	45.0	44.8	43.9	43.5	42.0	42.7	44.5	44.2	44.4	44.2	41.9	43.2	40.8	38.1	38.0	41.4	42.7	
005007 Leamonth Airport	37.1	41.8	31.2	34.3	35.7	35.5	37.7	38.7	37.0	33.8	31.6	31.9	33.4	38.7	39.8	38.0	33.0	31.8	31.8	35.6	39.2	41.8	40.8	43.6	45.1	38.4	40.3	43.4	39.6	37.9	34.7	35.1	
006011 Carnarvon Airport	31.3	+2.0	34.5	39.1	28.7	25.4	28.1	33.1	39.7	40.5	28.8	28.9	29.1	28.1	30.5	30.0	28.6	27.2	27.4	26.5	31.1	36.1	31.7	30.1	29.7	30.5	35.3	33.4	31.4	29.2	31.4	34.7	31.8
006044 Denham	29.9	34.0	37.5	25.5	30.0	27.0	31.5	40.0	41.0	28.5	28.5	28.5	27.0	26.0	30.5	28.0	26.5	25.5	25.0	28.5	35.0	31.5	29.0	29.5	30.0	30.0	28.5	26.5	26.0	28.5	32.5	31.0	
007176 Newman Aero	39.1	37.9	38.1	35.4	36.3	34.9	38.2	36.8	36.8	40.7	39.8	39.5	41.0	40.7	42.1	42.6	43.1	41.5	36.2	37.2	39.0	40.7	42.3	43.4	41.0	38.7	40.5	37.7	36.7	34.4	36.4	41.4	
007185 Paraburdoo Aero	40.8	41.7	41.3	36.7	39.3	38.0	40.5	39.1	39.9	42.0	41.2	41.1	38.8	40.0	43.2	43.7	42.5	38.4	34.3	36.8	41.4	42.9	44.2	45.1	44.8	40.2	42.5	41.3	42.9	40.5	40.2	41.4	
007045 Meekatharra Airport	37.0	+0.5	35.2	37.7	36.6	31.5	31.5	36.6	35.6	36.6	36.2	38.3	37.0	36.8	39.4	40.1	32.0	28.3	31.0	36.3	40.4	43.0	42.8	40.1	41.2	37.3	39.0	40.0	37.0	35.2	39.7		
007600 Mount Magnet Aero	36.4	33.1	37.6	37.0	29.9	33.8	34.8	33.9	36.8	32.2	32.4	39.5	35.2	35.0	37.1	41.9	40.0	30.6	27.2	29.0	34.6	40.2	43.4	41.6	42.1	42.4	38.8	39.0	37.6	35.6	36.9	39.2	
008296 Morawa Airport	32.7	38.4	35.5	28.7	32.6	33.5	34.2	38.8	37.3	30.0	33.3	35.9	39.9	32.6	26.0	29.5	35.1	41.0	41.0	29.5	35.1	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	
008297 Dalwallinu	33.3	29.8	35.5	35.8	28.5	31.8	30.2	30.8	35.8	35.0	35.9	38.6	31.8	30.2	32.5	36.5	33.9	22.9	20.7	26.8	32.4	39.2	39.2	35.4	37.1	38.4	34.1	32.9	31.9	32.8	37.1	39.2	
008315 Geraldton Airport	31.4	35.3	41.0	28.1	27.5	28.3	29.3	35.8	43.4	36.3	38.7	30.3	25.1	26.6	30.3	28.6	25.8	24.5	25.1	29.7	36.1	40.2	31.5	29.9	30.1	29.0	28.2	26.4	28.2	35.4	39.3	30.7	
009021 Perth Airport	30.6	+1.7	28.5	35.6	36.0	24.6	28.0	28.9	29.8	35.8	35.2	38.4	37.9	28.3	27.3	28.2	30.5	28.8	21.7	21.1	24.2	29.7	36.7	32.5	31.5	35.1	33.1	27.4	26.5	28.8	30.0	34.6	
009131 Jurien Bay	29.3	32.1	37.3	25.0	26.3	26.9	33.2	38.8	37.7	34.8	32.7	25.4	25.8	30.5	26.1	25.7	22.3	23.3	26.3	31.9	29.6	27.5	28.2	32.2	28.6	26.1	25.1	26.5	30.6	36.3	27.1	27.1	
009225 Perth Metro	29.7	27.8	34.5	35.5	25.1	27.3	27.9	29.0	35.2	33.2	37.7	37.6	27.6	25.3	27.6	29.5	27.8	21.9	20.9	23.4	28.9	36.1	31.7	30.5	33.7	32.5	26.4	25.2	25.8	28.3	34.7	32.0	
009240 Bickley	28.5	25.9	32.6	32.6	21.0	26.0	26.5	27.0	32.4	31.9	35.3	35.0	28.8	24.5	27.5	29.9	27.7	17.8	16.7	22.6	27.8	33.6	31.8	29.7	32.1	32.0	26.0	25.3	27.3	29.7	32.5	32.9	
009518 Cape Leeuwin	22.3	+0.4	21.1	22.5	22.2	23.3	21.4	20.3	21.1	22.2	24.1	24.3	23.3	22.9	21.8	22.6	22.7	17.4	19.9	21.2	22.1	23.1	22.1	22.2	23.3	24.5	23.1	22.2	23.2	23.5	23.0	23.1	
009617 Bridgetown	28.0	25.8	30.8	33.9	21.4	24.1	22.6	25.8	30.9	33.5	37.8	35.7	27.3	23.9	27.6	28.0	29.4	19.0	20.9	22.1	28.8	33.0	29.8	28.3	31.3	34.9	26.0	24.6	23.7	25.4	31.5	29.7	
009746 Witchcliffe	25.0	23.0	28.6	33.6	23.4	23.1	21.4	22.6	26.9	33.2	34.0	28.2	25.0	23.5	23.5	23.6	18.0	18.1	21.3	23.8	28.4	23.4	24.4	27.7	31.1	23.7	22.6	22.0	23.4	25.6	24.5		
009789 Esperance	25.3	19.9	21.9	26.9	29.2	29.2	20.5	20.2	27.5	33.2	37.1	35.4	21.0	22.2	23.6	24.9	30.6	20.7	20.1	23.5	25.8	25.5	21.0	24.5	32.2	24.1	23.8	22.2	23.2	22.7	22.5		
009665 Bunbury	28.1	24.4	32.8	36.6	21.7	26.7	26.1	28.3	32.5	31.8	33.0	33.6	29.8	24.7	24.1	26.5	24.3	20.4	20.6	24.6	26.6	31.2	30.6	30.1	31.0	25.1	24.0	26.5	28.7	30.2	32.8		
009977 Mandurah	27.2	25.3	30.7	35.1	22.6	25.2	25.5	28.0	33.2	30.1	32.1	32.4	25.9	24.1	23.8	26.3	25.3	20.1	20.5	22.5	26.4	32.9	29.9	29.2	30.7	28.9	24.7	24.0	24.3	25.6	29.9	29.3	
009999 Albany Airport	23.8	21.3	23.6	27.0	22.0	20.4	18.5	20.3	24.1	33.5	33.5	28.1	24.6	21.8	22.9	24.6	26.4	23.6	19.1	19.6	22.7	23.3	21.7	21.5	24.7	30.2	22.3	23.1	21.5	23.0	24.4	23.0	
010007 Bencubbin	32.1	-0.4	28.0	33.0	32.6	29.0	30.2	28.6	29.0	34.0	32.8	32.6	38.0	33.8	28.9	31.0	36.0	35.9	22.7	21.9	25.5	30.9	37.6	37.8	38.8	32.9	30.9	32.1	35.1	38.1	38.1		
010092 Merredin	32.7	+0.9	27.5	32.0	32.0	31.7	31.4	29.4	30.0	33.0	34.4	33.5	36.3	35.0	29.8	31.5	36.2	35.7	22.3	21.7	26.7	31.8	37.7	37.5	35.0	36.0	38.7	35.2	33.0	31.5	32.0	36.0	
010286 Cunderdin Airfield	33.3	28.4	34.3	34.5	29.2	32.2	29.4	29.8	35.2	36.8	38.5	39.6	35.3	29.7	31.4	36.2	35.8	22.9	23.2	26.8	31.7	38.9	39.1	34.1	36.3	39.6	34.8	31.7	31.4	31.7	36.3	38.7	
010633 Ravensthorpe	27.2	-0.3	22.5	27.3	30.5	25.0	24.0	21.0	22.5	29.0	35.6	39.0	38.0	23.5	23.0	28.0	29.5	29.6	24.5	21.7	20.0	28.0	34.0	22.2	33.0	27.8	35.3	26.5	27.0	23.8	25.5	30.0	
010911 Lake Grace	29.7	25.3	29.9	32.7	21.7	27.3	24.6	25.6	31.0	36.1	37.3	37.0	29.3	25.6	29.0	31.4	35.0	23.8	22.5	28.1	35.7	30.3	31.3	31.1	36.3	32.3	27.7	27.8	28.7	33.1	35.3		
010916 Katanning	29.0	24.9	29.3	32.8	20.6	25.7	23.6	25.3	30.6	37.3	38.8	36.8	28.3	24.1	29.0	29.8	33.8	20.7	23.0	22.0	28.2	34.6	29.9	27.0	30.2	36.6	30.3	26.2	26.1	28.1	32.6	31.6	
010917 Wandering	30.3	26.7	32.3	33.6	23.1	28.5	27.1	27.8	32.7	37.1	37.7	36.5	30.6	25.8	29.6	32.0	32.6	20.1	19.9	23.9	29.2	35.4	34.9	29.9	32.8	36.4	29.7	25.5	28.1	29.7	33.3	34.4	
011003 Eucla	27.9	+2.1	20.5	20.9	20.7	23.7	26.6	23.2	20.8	22.5	23.9	37.2	40.7	40.5	21.1	25.0	27.9	32.2	43.9	28.9	25.1	23.1	33.2	37.7	26.3	22.4	33.2	24.0	24.8	22.1	21.6	26.7	24.8
011052 Forrest	31.6	21.6	24.6	24.6	26.8	31.7	34.8	24.0	26.6	32.6	37.7	39.0	38.9	33.1	25.8	31.1	38.4	44.2	29.4	28.5	27.7	32.4	40.3	32.9	26.6	35.1	45.0	31.6	32.9	35.1	31.2	34.7	
012038 Kalgoorlie-Boulder Airport	32.5	+0.3	26.1	29.1	29.7	31.1	34.6	28.2	27.3	30.2	34.2	31.8	38.2	38.1	29.9	31.3	37.2	41.6	31.0	22.3	25.6	30.2	35.3	42.6	38.3	41.1	40.6	37.8	36.7	26.8	30.9	39.6	
012071 Salmon Gums Res.Stn.	29.6	+0.4	23.2	27.5	29.6	28.7	31.1	22.7	24.9	29.9	33.9	36.7	37.5	26.1	25.4	27.9	33.7	35.8	28.6	22.9	21.0	28.8	35.9	34.6	25.9	30.7	36.3	29.9	28.9	26.6	27.9	31.8	33.0
013011 Warburton Airfield	36.3	31.0	31.6	31.6	34.4	36.3	37.5	31.9	32.9	38.7	38.1	34.6	37.5	38.6	35.3	37.3																	

Daily and mean maximum temperatures for December 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	31			
048027 Cobar MO	34.6	+2.1	32.0	24.3	22.0	23.5	23.8	29.0	35.5	26.9	28.8	33.4	35.7	37.2	40.5	41.3	34.5	41.2	43.7	42.8	43.1	29.1	33.3	36.2	39.7	42.9	33.1	36.9	37.8	37.8	40.5	32.3	34.3		
048245 Bourke Airport AWS	36.5		34.7	25.6	23.7	24.6	26.2	29.6	35.6	30.5	30.9	34.6	36.6	38.2	39.8	41.2	38.3	42.0	44.6	44.0	45.4	38.4	36.0	37.9	40.9	44.2	37.2	39.5	38.7	39.5	39.3	36.1	37.7		
049000 Ivanhoe Aerodrome AWS	33.7		26.2	19.8	20.3	23.2	25.4	29.6	32.6	24.7	28.7	32.1	35.2	37.5	41.7	38.3	36.4	39.4	40.5	42.2	40.6	30.2	32.5	34.8	39.3	40.9	32.4	35.8	38.6	40.3	40.5	32.3	33.7		
050052 Condobolin Ag Research Stn	32.5	+0.7	32.5	23.0	19.5	23.0	23.1	28.1	32.6	25.4	27.0	31.5	33.9	35.0	37.5	38.5	31.2	36.9	39.1	39.3	42.0	24.2	31.1	34.0	37.2	39.9	34.0	34.2	35.2	37.3	36.5	31.5	33.2		
051039 Nyngan Airport			35.0	26.4	22.5	24.5	25.5	29.0	34.7	29.4	29.8	33.0	35.5	38.0	39.0	40.5	37.6	40.2	42.8	42.5	44.2	36.5	34.5												
052088 Walgett Airport AWS	36.4		35.6	27.2	25.8	26.1	27.9	29.9	35.2	33.8	32.3	34.8	35.7	37.4	37.8	39.9	41.7	41.9	41.7	40.2	43.3	42.6	31.1	36.8	39.7	43.8	38.3	39.9	37.5	37.6	39.3	36.9	38.0		
053115 Moree Aero	34.8		33.3	24.6	25.5	27.1	27.6	28.4	33.1	36.4	33.4	33.6	34.4	34.7	35.6	37.4	38.3	37.7	38.1	37.1	38.8	42.4	34.8	30.4	37.1	40.2	41.5	37.8	34.8	35.4	36.5	35.7	38.4		
054038 Narrabri Airport AWS	34.8		33.4	23.5	25.5	27.4	27.5	28.1	32.4	36.2	31.9	32.7	34.0	35.0	36.1	38.3	39.1	38.5	39.2	37.7	39.7	42.4	30.6	33.5	37.2	40.6	38.0	36.5	35.8	36.9	36.8	35.2	38.1		
055024 Gunnedah Resource Centre	33.2	+2.2	31.9	23.6	25.4	26.5	27.7	26.7	31.1	34.1	28.6	30.6	32.9	33.7	35.2	36.4	37.1	37.9	37.1	36.7	38.3	40.7	28.4	32.1	36.2	38.9	34.8	32.8	34.6	35.5	35.9	32.2	35.2		
055325 Tamworth Airport AWS	33.6		33.4	24.6	25.6	26.6	28.3	26.9	31.3	35.5	30.5	31.4	33.5	34.7	35.7	37.3	37.9	38.4	37.7	38.5	38.2	40.0	29.8	31.8	36.0	39.7	36.7	31.8	34.3	35.5	36.0	29.2	35.6		
056242 Inverell (Raglan St)	30.9		29.2	25.0	25.6	26.0	25.8	25.5	29.5	30.0	29.5	29.8	31.0	31.4	33.2	34.0	35.5	35.0	33.8	33.6	34.5	36.5	32.5	25.9	32.8	35.0	33.3	30.6	30.0	30.5	30.5	27.5	34.0		
057095 Tabulam (Muirne)	27.7		25.7	25.7	27.4	22.8	25.9	26.1	29.2	24.9	27.1	24.3	25.3	26.2	26.9	29.6	30.4	29.7	29.3	29.7	32.5	35.3	28.8	25.7	30.7	32.3	32.7	20.6	24.9	26.2	28.2	27.2	27.9		
058012 Yamba Pilot Station	27.2	+1.7	27.0	27.5	25.9	25.1	24.0	29.1	28.5	28.4	25.1	25.5	24.9	25.9	26.8	28.3	28.3	28.2	27.6	27.3	28.4	28.2	27.8	24.9	27.0	28.9	31.6	25.1	26.4	26.8	29.0	28.5	26.8		
060139 Port Macquarie Airport AWS	28.2		28.2	28.5	28.2	25.9	26.4	27.8	30.0	30.8	24.8	26.9	27.2	26.7	28.0	30.6	30.5	30.3	28.5	29.7	32.1	33.9	24.9	25.7	27.6	32.9	27.8	24.8	25.4	27.2	29.6	28.6	26.1		
061078 Williamtown RAAF	30.4	+3.1	32.6	31.6	29.2	22.9	23.3	28.8	34.0	28.1	24.6	26.1	27.6	29.3	33.3	39.9	29.2	33.7	29.7	33.0	38.6	43.7	23.9	25.3	30.5	40.9	22.2	24.3	27.8	32.0	35.8	34.0	25.2		
061363 Scone Airport AWS	33.7		35.5	27.1	27.6	28.4	27.6	29.4	34.1	36.4	28.4	30.9	33.6	34.9	37.9	40.0	36.0	39.1	37.6	40.4	40.5	43.3	25.4	30.3	36.1	40.0	25.9	25.8	32.5	36.5	38.0	33.3	32.7		
062101 Mudgee Airport AWS	30.6		31.2	21.7	21.7	24.5	23.7	24.1	29.5	28.3	27.2	29.5	31.8	32.8	34.7	36.1	32.1	36.2	36.2	35.5	36.6	36.1	24.5	28.7	34.6	38.4	26.5	24.4	30.4	33.7	34.4	31.3	31.2		
063005 Bathurst Agricultural Station	28.1	+1.9	29.3	19.8	19.0	21.3	21.7	20.2	26.5	23.0	24.0	27.3	29.3	30.2	31.8	33.3	25.8	33.0	34.8	33.7	36.0	33.0	24.8	29.0	32.6	35.4	26.2	23.2	28.4	31.5		30.0			
063254 Orange Agricultural Institute					26.5	19.5	19.7		24.0			25.1	26.9	27.7	29.2	30.7					31.5	31.1	31.8	28.5	23.9										
064008 Coonabarabran (Showgrounds)	31.7	+1.1	30.0	21.5	23.0	24.8	25.5	24.5	30.5	31.0	27.6	29.8	32.9	32.8	34.5	36.0	36.0	36.6	36.0	33.6	36.5	37.0	27.5	32.0	34.5	38.0	32.8	30.0	33.0	34.6	34.7	30.5	33.6		
065070 Dubbo Airport AWS	33.5		33.7	23.3	22.3	25.2	26.0	26.0	32.3	28.1	29.0	31.1	33.5	35.2	37.2	39.0	33.8	39.0	41.0	37.8	41.8	37.6	33.0	33.9	37.2	42.1	33.0	31.3	35.6	35.8	38.1	32.6	33.4		
066062 Sydney (Observatory Hill)	27.8	+2.2	27.5	26.8	29.2	18.6	25.3	26.0	31.3	27.7	24.1	24.8	26.5	27.0	28.0	30.8	26.6	28.5	26.8	27.6	35.3	38.3	24.5	26.1	28.3	37.7	21.7	23.8	26.2	27.4	28.8	36.2	25.3		
067105 Richmond RAAF	32.6		36.5	29.7	29.4	20.4	27.3	27.2	33.5	32.0	27.1	30.0	32.9	33.5	38.3	42.1	30.0	39.3	31.8	34.7	42.9	42.5	23.8	29.6	37.5	42.5	21.0	22.7	29.3	36.5	39.3	37.6	30.6		
068072 Nowra RAN Air Station AWS	27.9		30.6	26.6	26.5	17.8	20.7	23.5	31.4	24.2	24.2	26.2	26.9	28.0	31.8	40.4	27.2	36.1	25.6	29.0	34.3	32.0	22.1	26.9	33.3	29.1	20.0	22.9	26.7	31.7	32.0	33.0	24.1		
068151 Jervis Bay (Point Perpendicular)	24.8		25.5	24.4	23.5	15.9	17.6	23.3	27.8	21.1	22.0	23.7	23.7	25.3	26.2	30.4	24.2	32.2	23.1	25.5	31.2	30.3	23.5	24.6	27.4	24.9	21.2	22.5	24.7	26.3	26.3	28.6	22.2		
068241 Albion Park (Wollongong Airport)			27.0	26.3	27.6	19.6	22.6	24.5	31.6	28.4	22.7	24.5	25.4	26.1	27.8	32.2	26.5	32.9	27.5	27.3	33.1	34.2	22.7	25.3	29.1	32.5									
069018 Moruya Heads Pilot Station	23.1	+0.6	22.0	22.5	21.5	18.6	17.2	20.5	23.5	22.1	20.7	22.0	23.0	23.9	24.0	34.7	22.2	24.2	23.2	23.4	30.2	22.4	22.2	23.2	24.3	23.4	22.5	22.2	22.9	24.2	24.3	24.0	21.0		
070351 Canberra Airport	27.8		30.6	19.6	19.9	15.7	20.0	20.2	26.7	22.5	25.0	28.0	29.7	30.6	32.7	32.9	30.5	32.6	31.6	32.6	34.3	27.5	26.7	29.5	31.8	34.8	23.0	22.4	29.1	32.4	33.4	28.3	27.9		
071041 Thredbo Village	20.5		20.0	15.0	11.5	9.5	11.5	14.0	18.5	14.3	17.5	22.7	23.0	23.5	24.5	23.5	23.5	23.5	26.0	25.0	27.0	17.5	21.5	22.0	22.0	25.5	18.5	22.5	24.0	24.5	23.5	19.5	21.0		
072150 Wagga Wagga AMO	30.5	+1.2	27.1	21.5	20.4	18.8	23.2	25.8	29.6	23.4	26.7	30.0	32.3	33.3	36.3	35.2	33.5	35.1	36.3	35.9	40.2	26.1	30.8	32.7	35.7	38.0	29.4	30.5	33.2	33.7	32.6	28.4	29.3		
072160 Albury Airport AWS	30.0		24.6	20.6	22.3	22.7	25.6	26.6	29.1	23.6	26.8	30.6	32.6	33.8	35.6	33.5	33.6	34.8	35.5	33.9	37.2	27.4	30.5	32.2	32.1	35.1	29.1	30.7	32.5	32.8	27.3	27.7	29.5		
072161 Cabramurra SMHEA AWS	18.5		18.1	13.0	10.2	10.0	10.6	11.4	16.1	12.9	15.2	19.7	21.0	21.8	23.8	21.9	20.6	21.9	24.5	22.0	26.0	14.5	19.2	20.4	21.9	24.0	16.8	21.0	21.4	20.8	18.0	17.7	18.5		
074258 Deniliquin Airport AWS	30.9		25.9	18.0	20.9	22.6	26.3	28.5	27.7	23.7	28.0	30.9	32.8	34.9	40.1	33.0	32.9	35.2	36.2	35.9	39.8	27.7	29.2	32.5	37.5	30.5	29.6	32.9	36.6	38.6	31.7	28.5	30.4		
Victoria	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
076031 Mildura Airport	31.2	+1.1	26.6	19.1	20.2	22.9	25.5	28.0	21.3	24.2	28.5	31.1	33.6	35.9	41.2	29.1	32.1	34.5	37.0	40.7	39.7	28.6	30.3	33.9	38.4	30.9	30.8	33.8	39.4	37.5	32.0	29.7	31.1		
078015 Nhilil Aerodrome	28.1		22.4	19.8	20.4	22.4	24.6	26.0	19.1	22.0	24.7	28.6	29.7	34.2	40.6	28.2	28.4	28.8	32.9	31.6	31.1	25.9	27.6	31.7	33.6	25.8	28.6	32.1	39.6	31.2	26.3	24.6	27.5		
080023 Kerang	30.9	+1.6	26.7	18.5	20.4		25.5	28.5	25.3	26.3	27.7	31.7	32.6	35.2	39.8	31.9	32.4	33.8	35.5	33.0	38.6	26.5					33.2	37.0	28.8	33.2	36.7	38.1	33.3	27.6	31.0
081123 Bendigo Airport	28.6		25.8	16.2	19.8	19.1	24.8	26.9	24.6	21.4	25.8	29.5	30.3	32.4	37.7	30.3	30.3	32.4	30.9	34.7	37.3	26.7	28.1	31.0	31.5	26.0	26.3	31.3	35.6	34.4	30.6	25.3	29.0		
082038 Rutherglen Research	30.4	+1.4	23.1	20.9	22.5	23.3	26.6	28.1	30.1	23.6	26.9	31.3	33.2	34.0	38.0	33.8	33.7	35.4	36.4	35.7	37.0	28.4	30.6	32.3	30.8	35.1	30.4	31.5	33.8	33.8	27.2	27.4	29.0		
083085 Mount Hotham	14.8		12.1	10.1	8.5	5.1	7.0	9.5	11.8																										

Daily and mean minimum temperatures for December 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	31		
001019 Kalbarri	24.4	25.0	25.1	24.1	24.2	25.9	26.0	24.5	26.2	25.1	26.1	26.1	24.1	23.7	23.4	22.2	22.6	25.3	23.8	25.0	24.6	24.3	24.9	22.0	24.0	23.8	23.7	23.8	24.3	25.3	24.5	24.2		
002056 Kununurra Aero	25.6	26.7	26.6	24.1	25.6	24.9	23.7	26.0	27.7	26.2	25.7	26.5	27.0	22.8	24.9	26.2	26.7	26.8	24.1	23.4	26.2	25.5	23.9	26.4	25.4	26.1	25.6	25.3	26.0	27.0				
003003 Broome Airport	27.5	+1.0	27.6	28.4	30.1	29.9	29.1	29.6	27.3	25.7	29.4	24.5	26.6	29.6	30.0	29.6	28.6	27.9	28.7	28.7	28.5	26.9	27.6	27.3	26.1	27.3	23.6	27.6	25.5	24.0	25.5	25.6	25.8	
003032 Derby Aero	26.4		27.6	29.6	27.7	27.9	28.3	29.0	26.4	25.7	27.3	23.0	27.1	27.7	26.3	26.8	24.3	27.9	28.1	28.6	24.0	26.1	27.6	25.8	26.8	21.5	26.8	24.1	24.0	24.9	25.9	25.6		
004032 Port Hedland Airport	25.5	+1.6	24.6	27.6	28.2	25.8	25.5	26.7	26.1	26.9	25.7	25.1	23.7	24.5	25.2	23.2	24.8	26.1	25.6	24.6	22.8	22.7	23.4	25.2	26.1	26.3	27.7	27.6	29.7	22.8	25.8	27.5	24.5	
004083 Karratha Aero	26.1		25.8	26.8	29.0	28.1	28.8	28.1	27.4	26.9	26.4	24.3	23.5	23.8	24.6	26.3	26.6	25.4	23.6	23.0	22.3	24.1	24.0	26.7	26.7	28.3	26.0	29.1	30.3	26.9	25.8	25.0	26.5	
004106 Marble Bar	26.3		26.0	28.0	27.1	25.3	25.7	28.1	25.5	21.6	26.9	27.0	25.5	26.0	26.7	25.6	26.0	25.4	26.2	25.4	23.1	25.7	25.7	25.7	28.2	29.4	25.8	29.6	26.4	27.4	27.4	27.4	25.7	
005007 Learmonth Airport	21.9		17.6	23.9	25.1	23.9	24.2	23.8	23.2	22.5	21.9	19.3	18.8	18.3	20.4	20.1	22.6	19.5	19.4	18.8	16.8	19.3	22.2	24.3	23.8	24.7	23.8	26.8	25.3	20.7	20.8	23.2	24.0	
006011 Carnarvon Airport	21.7	+1.2	18.4	21.6	22.8	21.9	22.3	20.9	21.9	24.1	22.4	19.2	19.1	23.1	20.7	20.5	21.8	21.5	21.4	19.3	19.1	19.4	19.6	23.3	23.1	23.3	23.6	23.4	22.9	20.2	21.6	24.1	25.3	
006044 Denham	21.5		26.0	22.0	22.0	21.0	21.0	21.0	22.5	22.5	21.5	19.0	22.5	20.5	21.0	21.5	21.5	21.0	19.5	19.0	18.5	22.5	22.0	22.5	22.5	22.5	22.5	23.0	21.5	20.5	20.5			
007176 Newman Aero	25.1		19.3	24.9	27.9	25.6	24.4	19.8	26.0	24.8	24.3	29.8	24.1	25.6	23.8	24.6	27.0	28.6	25.4	22.8	19.0	23.0	22.4	23.9	27.1	30.2	29.4	28.6	26.7	24.5	24.1	24.7	24.7	
007185 Paraburdoo Aero	26.0		23.0	27.2	29.6	25.7	27.0	26.6	28.6	27.8	26.1	25.1		25.0	21.0	22.6	23.5	25.7	26.7	20.4	18.2	24.8	25.5	25.7	30.2	30.4	28.7	27.4	30.0	25.3	25.6	28.4	28.0	
007045 Meekatharra Airport	23.6	+1.5	19.3	22.6	26.1	26.4	22.8	20.9	22.3	22.8	27.0	24.6	23.1	23.4	22.5	24.5	26.1	25.3	20.8	15.5	15.6	20.1	24.1	25.0	29.4	29.2	26.0	27.1	22.9	24.5	23.5	23.1	23.7	
007600 Mount Magnet Aero	21.7		18.8	21.3	25.8	23.2	21.9	20.8	21.3	22.3	27.6	20.0	20.4	20.7	18.4	21.5	23.5	23.2	17.0	14.4	14.6	18.5	20.9	23.7	25.2	25.0	24.3	25.4	23.0	18.8	22.7	24.3	25.7	
008296 Morawa Airport			14.8	17.4	27.0	19.4	17.3	16.4		17.4	25.7	20.5		15.8	15.4	16.9	17.4				14.0	14.5	17.6	20.6										
008297 Dalwallinu	16.6		12.6	14.4	22.5	18.8	15.2	15.9	13.6	16.0	22.3	22.1	19.6	17.6	14.9	14.3	14.3	16.5	15.3	11.4	13.2	13.5	16.1	19.8	16.9	17.8	20.6	15.3	13.0	14.8	15.9	19.4	20.7	
008315 Geraldton Airport	17.2		10.2	13.7	20.9	20.1	20.1	17.5	13.1	15.5	23.5	18.8	20.5	21.6	19.4	14.7	15.1	18.9	17.5	16.3	17.9	10.7	14.2	16.6	20.5	16.4	17.0	18.2	14.7	17.8	15.6	17.5	18.4	
009021 Perth Airport	16.4	+1.3	13.0	11.9	20.1	19.5	19.0	16.7	14.6	16.0	22.0	17.8	20.3	19.9	14.7	15.5	14.2	14.6	15.2	12.0	12.0	13.6	14.5	17.0	17.5	19.7	15.4	14.5	15.7	15.6	17.3	18.7		
009131 Jurien Bay	16.2		11.9	12.1		18.0	18.2	17.1	15.0	16.0	20.4	19.1	19.6	20.5	16.7	14.7	14.3	18.4	18.7	15.5	16.1	11.2	14.3	14.5	17.0	15.9	18.0	15.9	13.9	17.0	14.4	14.6	17.5	
009225 Perth Metro	16.7		13.1	13.2	20.6	19.1	19.0	16.5	14.9	16.2	21.8	16.8	18.7	20.3	15.8	15.4	16.4	16.6	15.3	12.4	13.8	15.0	14.3	16.6	17.0	18.1	18.9	17.9	15.7	15.6	15.5	17.6	19.1	
009240 Bickley	13.9		9.1	12.6	15.9	16.5	15.3	12.5	11.1	12.3	18.0	18.4	19.9	17.9	12.1	12.8	13.9	14.7	12.0	9.5	9.6	10.9	14.5	17.0	13.4	13.6	18.1	14.3	12.0	12.6	12.3	13.8	15.7	
009518 Cape Leeuwin	16.4	+0.8	11.1	15.3	17.0	18.0	17.4	16.3	15.3	15.4	17.8	18.6	18.7	17.4	16.0	16.1	17.2	16.9	13.6	12.5	15.1	15.1	16.4	17.8	17.7	16.8	17.7	18.4	17.1	16.0	16.5	17.1	18.2	
009617 Bridgetown	10.6		2.8	10.0	12.6	17.1	15.1	8.5	5.6	9.7	11.2	11.6	16.6	16.8	9.9	12.5	8.4	10.9	11.6	10.1	8.7	5.8	10.9	14.0	15.6	12.7	12.4	11.4	8.4	8.3	5.7	12.2	11.6	
009746 Witchcliffe	13.1		5.2	10.9	12.7	17.3	16.7	13.0	10.8	10.7	13.5	16.6	17.8	15.4	13.7	13.7	10.9	13.5	12.8	11.4	13.3	8.3	12.2	13.4	15.0	12.0	13.6	15.2	12.8	12.7	13.5	12.3	14.8	
009788 Esperance	14.6		12.1	8.7	9.4	15.6	16.7	16.1	12.7	9.1	13.8	19.7	23.9	18.4	15.9	13.8	13.3	15.0	17.7	14.7	13.1	14.3	11.6	14.4	17.0	14.1	13.2	16.6	12.6	15.6	12.8	17.1	13.7	
009965 Bunbury	13.1		6.3	12.6	18.9	18.5	13.7	11.2	10.5	14.1	18.6	13.3	18.8	17.1	11.5	11.0	9.6	13.4	13.7	11.6	11.7	8.8	11.0	16.4	14.2	12.3	15.3	15.4	9.5	10.9	8.9	11.8	14.1	
009977 Mandurah	17.5		13.3	16.3	20.5	18.4	18.3	16.1	14.5	16.8	21.6	21.8	22.0	20.8	16.8	15.7	16.3	18.4	15.4	13.5	13.9	14.4	17.1	20.5	17.3	17.9	21.4	19.0	16.5	15.7	14.6	17.1	19.2	
009999 Albany Airport	12.5		5.3	7.5	11.9	16.0	12.6	11.9	5.7	6.7	12.8	14.5	18.5	16.5	11.9	13.8	12.7	13.3	12.2	11.3	12.9	12.7	12.0	17.0	14.7	10.1	13.2	15.2	10.8	11.9	14.4	13.6	14.7	
010007 Bencubbin	16.9	+0.8	11.1	15.4	20.5	20.2	16.6	16.6	13.0	16.5	21.0	23.1	19.0	20.2	17.3	15.1	16.6	20.0	15.5	11.5	13.1	13.4	16.4	18.9	16.1			16.4	15.1	15.2	17.0	21.2		
010092 Merredin	16.3	+0.6	10.7	15.0	19.0	21.6	14.5	15.9	12.5	16.0	21.0	22.3	20.8	20.2	16.9	14.0	15.9	17.5	15.0	11.0	12.7	12.5	16.4	18.0	15.0	14.5	19.0	18.0	15.5	15.0	13.8	15.4	21.0	
010286 Cunderdin Airfield	15.2		10.5	14.2	17.4	19.0	15.0	16.0	12.8	13.7	14.6	18.4	16.3	18.2	16.3	14.8	15.3	16.6	14.5	10.8	12.2	12.8	14.3	17.9	15.1	15.4	18.8	14.3	14.8	15.2	15.5	17.6		
010633 Ravensthorpe	13.0	+0.3	5.5	9.0	8.7	16.0	15.5	12.5	9.9	7.5	11.8	21.5	22.5	16.5	14.5	11.0	15.5	12.8	13.7	11.5	12.0	13.0	10.5	15.5	14.0	10.5	10.2	17.0	17.4	10.9	13.4	9.5	15.0	14.1
010811 Lake Grace	13.5		6.6	10.2	13.4	19.0	13.9	11.9	9.6	10.1	14.0	17.4	23.2	18.4	15.4	11.3	13.2	13.9	11.7	11.0	12.6	8.8	11.6	14.8	14.2	12.3	14.4	17.3	15.6	12.7	10.6	13.7	15.0	
010916 Katanning	11.6		4.5	8.4	10.6	16.7	12.3	9.6	7.1	7.8	11.9	14.5	21.3	15.7	10.6	9.2	13.4	14.1	11.4	10.1	10.9	7.5	9.9	12.6	12.6	10.5	12.1	15.1	14.5	11.6	8.9	10.8	13.9	
010917 Wandaring	12.4		5.5	7.6	14.7	17.9	12.2	12.7	9.6	10.7	11.8	12.4	18.0	17.2	11.4	10.1	12.5	12.9	14.2	9.7	11.0	8.3	10.2	14.5	15.0	13.4	14.8	11.8	14.5	12.7	10.3	12.5	14.6	
011003 Eucla	15.4	+0.5	14.1	13.8	14.2	11.7	15.2	14.8	15.2	12.5	10.7	14.1	16.6	19.0	18.6	12.5	9.1	15.0	19.3	18.7	12.7	15.7	10.3	15.1	23.3	17.0	16.8	15.7	19.3	18.2	18.4	15.3	13.8	
011052 Forrest	15.4		12.4	8.6	9.4	9.8	15.3	16.7	14.2	11.5	12.1	15.0	18.7	20.3	19.1	12.6	11.9	15.4	20.8	18.9	15.7	12.3	11.5	15.1	23.3	17.1	13.4	17.1	20.1	19.1	18.4	14.2	16.6	
012038 Kalgoorlie-Boulder Airport	17.3	+0.5	12.8	14.3	15.1	19.8	19.0	15.6	12.4	14.2	18.2	22.5	21.5	22.5	15.0	15.5	19.2	19.9	19.4	12.5	13.7	12.0	18.2	22.6	16.8	14.5	19.5	22.3	17.1	17.8	16.6	16.4	20.4	
012071 Salmon Gums Res.Stn.	12.1	-0.6	3.7	6.8	11.0	16.7	15.1	12.9	7.6	5.0	12.5	18.3	18.0	17.6	13.3	8.0	8.6	14.6	16.4	13.4	12.9	13.9	10.8	10.9	15.7	8.3	14.0	14.9	10.5	13.8	8.8	7.8	12.2	
013011 Warburton Airfield	22.3		14.5	16.4	18.4	17.7	24.1	25.1	17.8	16.6																								

Daily and mean minimum temperatures for December 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	31	
048027 Cobar MO	20.4	+1.8	24.0	18.2	12.2	11.4	10.5	12.5	16.1	15.7	13.0	15.9	18.8	20.7	23.1	26.1	26.8	22.4	25.5	27.3	30.1	28.1	16.4	17.6	20.6	23.6	22.5	17.7	22.2	25.8	28.7	22.1	18.3
048245 Bourke Airport AWS	21.2		24.2	21.3	13.3	12.5	11.3	12.5	14.3	19.1	15.6	16.0	18.8	20.1	22.5	26.7	25.8	20.0	24.7	27.9	30.8	30.9	21.8	21.0	20.3	20.9	25.8	16.3	24.4	26.6	26.5	26.3	20.5
049000 Ivanhoe Aerodrome AWS	19.3		21.8	17.5	11.3	13.3	11.9	14.0	16.0	12.9	11.8	15.7	18.1	19.6	21.2	27.3	22.2	22.5	23.4	24.9	29.9	21.9	17.4	16.4	17.8	21.8	15.1	18.1	24.0	24.9	29.0	21.2	16.4
050052 Condobolin Ag Research Stn	17.7	+2.2	23.0	19.5	13.5	11.5	11.4	13.2		14.8	10.0	12.0	15.0	14.5	16.9	26.5	21.5	17.0	19.2	22.7	26.4	23.0	12.5	15.9	15.0	18.1	18.0	17.4	16.5	23.5	26.4	21.4	14.6
051039 Nyngan Airport			22.3	20.7	13.0	11.1	11.9		13.2	18.0	13.2	17.0	18.0	20.0	20.5	26.3	25.2	22.5	25.4	24.7	27.6	29.0	18.4	20.3									
052088 Walgett Airport AWS	19.9		21.0	20.3	13.8	10.8	10.8	13.6	11.8	18.1	15.0	14.5	18.7	18.5	23.1	24.3	23.5	26.2	25.8	22.2	25.9	26.7	21.3	17.4	18.5	24.2	20.9	22.9	20.9	22.6	24.8	22.5	16.3
053115 Moree Aero	20.1		18.0	21.4	13.9	13.0	12.5	13.4	13.5	19.6	16.5	17.4	18.3	19.8	20.7	22.0	23.5	23.8	24.4	22.3	23.5	25.4	25.6	20.4	21.0	24.3	25.2	19.8	18.4	19.1	22.4	23.0	21.7
054038 Narrabri Airport AWS	19.7		19.7	22.6	13.1	12.5	11.1	11.4	13.3	20.5	16.8	13.9	15.8	17.5	21.5	22.5	24.4	23.2	23.3	22.3	26.6	28.2	24.1	19.4	17.7	24.0	24.0	19.3	16.1	19.1	23.8	22.8	20.3
055024 Gunnedah Resource Centre	19.4	+2.0	17.5	21.6	13.6	13.1	14.9	12.5	14.4	17.8	16.7	14.4	16.6	18.3	20.3	21.5	23.3	24.3	24.7	20.8	24.5	25.0	22.2	20.1	20.9	22.5	21.7	18.4	17.9	18.4	22.1	20.9	21.2
055325 Tamworth Airport AWS	16.5		16.0	19.0	13.9	12.1	11.8	10.8	9.8	12.5	14.1	11.7	13.5	15.2	14.5	19.1	17.5	19.7	18.7	19.5	19.7	20.5	21.3	18.7	17.5	18.0	18.9	18.6	16.2	16.2	17.7	20.2	19.2
056242 Inverell (Raglan St)	14.7		16.0	17.4	11.1	9.5	12.2	5.9	7.5	11.0	12.5	10.0	10.5	9.8	13.2	19.0	15.5	17.5	16.8	17.9	17.6	19.0	21.5	17.7	15.1	17.5	19.4	15.6	14.5	12.5	16.0	19.0	17.0
057095 Tabulam (Muirie)	16.9		17.2	16.3	16.8	17.2	15.4	13.8	15.3	17.2	16.8	14.8	15.4	14.1	15.7	15.6	16.7	16.8	18.8	18.2	17.5	17.2	20.8	17.9	17.8	17.2	19.9	16.3	16.7	16.6	17.5	19.4	18.4
058012 Yamba Pilot Station	20.1	+1.0	20.5	20.8	19.9	20.6	19.2	17.4	17.7	19.2	19.2	18.1	19.7	18.1	18.0	19.5	19.8	21.3	20.7	20.1	20.2	20.9	21.2	20.7	20.7	21.2	21.8	19.9	20.4	20.4	21.4	21.9	22.3
060139 Port Macquarie Airport AWS	18.0		19.0	20.5	19.0	17.7	19.0	15.4	13.0	15.1	19.1	13.2	11.0	11.7	15.1	18.5	19.5	19.4	21.1	21.1	17.9	21.6	20.9	19.2	15.8	18.4	20.3	19.7	17.6	16.6	19.4	22.2	20.1
061078 Williamtown RAAF	18.5	+2.0	20.2	22.6	17.2	16.9	16.8	15.7	14.0	14.8	18.6	13.1	13.6	17.8	16.3	19.3	19.7	20.3	19.0	19.0	20.2	24.6	20.7	20.4	17.8	19.3	19.4	18.7	17.1	17.7	18.6	23.5	21.4
061363 Scone Airport AWS	17.4		15.9	24.4	14.2	11.5	16.7	13.2	12.4	13.7	17.5	12.3	11.7	14.4	15.6	18.6	21.4	19.8	18.6	19.2	21.8	24.3	20.1	19.4	19.0	17.4	20.2	14.7	15.1	14.1	18.7	21.5	20.5
062101 Mudgee Airport AWS	16.3		16.9	19.8	13.3	10.2	14.6	10.4	9.7	12.1	16.5	13.9	13.4	15.6	13.9	14.4	18.0	20.8	20.2	17.6	20.5	20.9	20.0	19.3	15.1	14.6	19.9	16.6	18.2	14.9	18.9	20.7	13.6
063005 Bathurst Agricultural Station	14.2	+3.1	15.6	18.0	11.0		7.5	11.6	10.0	9.0	12.5	13.0	10.5	11.8	14.8	13.0	14.1	20.0	15.5	17.3	16.2	19.5	22.0	13.9	13.5	13.8	13.5	17.0	14.2	14.5	13.6	16.8	11.1
063254 Orange Agricultural Institute			15.4			8.0	9.7	8.5	11.2	11.0			8.7	13.2	13.6	19.4	20.1					15.3	18.6	20.9	11.5	14.0							
064008 Coonabarabran (Showgrounds)	14.9	+0.9	15.0	18.0	11.8	11.0	11.0	8.5	8.5	12.0	12.0	11.0	12.0	13.4	15.1	15.0	17.0	22.0	19.0	19.0	19.5	24.0	19.5	20.0	12.0	18.5	11.5	11.8	12.4	12.0	17.5	19.3	13.0
065070 Dubbo Airport AWS	17.8		18.2	19.8	13.1	10.6	10.7	12.6	11.5	16.6	10.1	13.4	17.1	17.9	17.5	19.1	20.4	22.0	22.6	19.5	23.5	25.9	19.0	18.4	19.6	19.4	22.4	17.6	18.8	19.3	21.4	21.5	13.6
066062 Sydney (Observatory Hill)	19.9	+1.9	20.1	19.7	16.9	16.1	16.0	18.2	17.5	21.4	18.1	17.3	18.0	20.3	19.3	20.9	20.7	21.4	21.9	21.1	22.3	25.2	21.2	21.2	20.1	21.0	18.5	19.5	18.8	19.2	21.3	22.4	20.1
067105 Richmond RAAF	18.0		17.9	20.1	15.0	15.4	16.1	16.1	14.4	15.2	15.6	13.7	14.2	16.9	16.1	17.6	22.0	21.6	21.8	19.4	21.1	24.8	20.9	18.9	17.9	18.5	16.8	16.8	18.5	14.8	19.5	21.9	19.8
068072 Nowra RAN Air Station AWS	16.6		15.8	19.4	17.1	13.5	13.7	15.2	11.8	15.6	11.9	13.0	13.2	18.2	15.4	16.9	19.1	18.9	19.6	20.3	18.9	24.0	17.6	17.7	15.4	17.6	14.4	13.6	15.5	13.9	19.0	20.9	17.9
068151 Jervis Bay (Point Perpendicular)	18.2		19.6	18.9	16.8	14.1	13.7	14.0	16.7	18.9	15.2	15.5	15.7	18.0	19.0	20.0	18.9	19.1	19.5	19.4	19.8	22.9	19.3	18.0	19.5	21.2	15.8	17.4	18.6	19.0	20.7	20.9	18.2
068241 Albion Park (Wollongong Airport)			17.6	19.3	17.5	15.6	15.6	16.8	11.4	15.2	12.8	13.1	13.0	19.0	14.8	15.9	19.9	20.4	20.9	21.5	18.4	23.0	19.9	18.9	15.8	17.2							
069018 Moruya Heads Pilot Station	17.4	+2.7	18.0	18.0	16.6	13.2	13.2	14.2	13.3	18.5	14.5	15.0	16.4	17.8	20.1	18.6	18.1	18.6	18.4	19.5	19.8	20.6	17.7	19.1	18.5	18.2	15.1	16.5	16.7	16.1	21.0	20.8	18.0
070351 Canberra Airport	13.9		15.7	17.7	12.2	10.7	11.4	11.9	8.7	12.0	7.8	10.9	12.0	16.4	12.5	13.6	17.9	14.1	16.3	16.4	18.0	22.8	9.4	12.5	11.9	13.2	13.4	10.8	15.8	12.9	18.3	18.6	14.9
071041 Thredbo Village	7.8		9.5	12.7	7.8	4.5	4.5	7.0	8.5	7.0	2.3	3.5	9.5	6.0	5.5	9.0	12.0	9.0	7.5	11.5	10.0	16.5	4.0	6.5	5.0	9.0	5.0	3.5	5.0	8.0	14.0	3.5	
072150 Wagga Wagga AMO	16.6	+3.1	24.1	16.9	12.2	11.7	13.3	15.1	11.3	11.7	7.9	12.0	14.4	14.6	13.5	23.1	20.6	16.8	21.1	21.6	25.6	20.4	10.8	17.8	12.7	20.7	12.2	15.5	18.2	21.1	25.0	19.9	13.8
072160 Albury Airport AWS	15.4		19.3	18.4	13.7	12.0	10.6	12.3	11.5	11.1	8.1	13.0	14.5	13.8	13.8	19.5	19.1	17.1	17.6	19.0	20.9	19.8	12.8	13.4	13.3	18.7	14.7	14.0	15.0	17.4	21.0	20.3	12.7
072161 Cabramurra SMHEA AWS	10.7		14.0	12.7	6.7	4.3	4.7	6.0	7.3	5.4	5.0	8.5	10.8	12.2	14.7	17.1	12.9	13.6	13.8	14.4	17.0	14.2	7.5	10.1	12.3	15.7	5.0	6.3	8.3	14.2	16.2	12.0	9.0
074258 Deniliquin Airport AWS	15.0		20.8	15.2	9.9	8.4	9.1	12.0	11.8	10.0	8.3	12.2	12.5	11.1	16.2	21.5	13.4	16.6	15.0	17.8	25.3	16.5	11.0	12.0	17.7	20.8	13.5	14.2	19.4	24.0	22.5	14.4	11.4
Victoria	Mean Anom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
076031 Mildura Airport	16.0	+1.1	21.2	13.2	9.1	10.4	10.6	12.5	11.9	8.1	10.1	13.6	15.2	15.4	19.3	23.9	14.8	17.1	16.8	22.9	28.8	16.9	11.7	15.0	16.5	19.1	12.7	14.5	18.7	26.5	23.2	14.1	12.3
078015 Nhili Aerodrome	12.0		18.4	13.5	8.5	8.9	6.0	10.2	10.8	6.1	10.3	8.7	9.2	9.0	18.7	16.2	8.7	10.8	12.8	20.8	23.1	13.4	8.3	9.0	11.4	13.7	6.4	8.2	13.0	21.1	17.5	11.8	7.5
080023 Kerang	15.4	+1.8	22.6	15.2	9.6	9.4		12.9	12.5	9.4	10.7	13.3	13.3	12.5	17.6	23.2	14.0	14.9	14.6	18.2	24.5	16.9	11.2	14.0	15.7	18.4	10.9	12.5	20.6	24.9	23.7	13.5	11.9
081123 Bendigo Airport	13.6		20.9	13.9	10.5	10.3	9.9	12.1	9.3	8.9	7.2	10.3	10.8	11.3	13.9	23.0	12.3	12.4	14.4	17.4	22.9	16.4	7.8	12.7	11.9	16.5	11.3	12.8	16.3	22.6	20.6	13.6	8.9
082039 Rutherglen Research	13.0	+1.9	20.4	16.8	12.4	9.8	6.9	10.9	8.6	9.6	5.7	9.0	9.5	8.8	10.3	20.1	15.7	14.9	13.9	16.8	20.7	16.2	10.4	8.9	9.4	16.2	10.1	10.5	13.2	17.3	20.6	19.2	9.6
083085 Mount Hotham	7.2		11.3	5.7	3.4	-1.7	-0.1	3.2	3.9	1.6						11.5	13.7	10.2	10.9	12.1	12.3												

[illegible]

Daily and total rainfall for December 2017

New South Wales	Total	Avg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
046043 Wilcannia (Reid St)	58.2	26	2.8	54.6	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-	
048027 Cobarr MO	41.0	38	-	28.6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	-	-	0.2	-	-	-	-	-	-	-	-	-	10.6	-	
048245 Bourke Airport AWS	39.2	-	23.8	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
049000 Ivanhoe Aerodrome AWS	80.2	-	3.6	73.8	1.2	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	0.2	-	
050052 Condonbolin Ag Research Stn	59.9	41	-	36.2	10.8	-	-	0.4	-	0.6	-	-	-	-	-	-	3.2	0.5	0.6	-	-	0.2	1.4	-	-	-	-	-	-	-	-	6.0	-	
051039 Nyngan Airport	67.8	48	-	9.6	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.0	-	
052088 Walgett Airport AWS	37.2	-	14.0	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	-	0.2	3.4	-	-	-	-	-	-	-	-	-	1.2	0.2	
053115 Moree Aero	49.0	-	-	33.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	2.8	-	-	-	-	-	-	5.2	-	-	6.8	-	
054038 Narrabri Airport AWS	37.8	0.2	-	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.2	-	-	0.2	-	-	2.2	-	-	-	-	-	-	4.6	-	
055024 Gunnedah Resource Centre	65.0	67	8.0	-	35.8	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	4.0	-	-	-	-	-	-	-	-	-	15.6	-	
055325 Tamworth Airport AWS	39.4	0.2	-	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	1.6	-	0.2	0.6	-	-	1.2	-	-	-	-	-	15.4	0.4	
056242 Inverell (Raglan St)	97.4	-	6.4	-	6.2	-	-	-	-	-	5.6	-	-	-	-	-	-	-	15.0	-	-	-	9.8	-	-	-	31.4	18.0	-	-	-	4.6	0.4	
057095 Tabulam (Muirne)	135.2	-	11.4	0.2	1.0	-	2.8	-	-	-	0.6	7.8	-	-	-	-	-	-	-	-	-	-	29.0	0.8	-	0.4	31.4	26.0	2.8	2.8	-	18.2	-	
058012 Yamba Pilot Station	92.0	135	17.6	-	3.0	-	1.4	7.4	-	-	-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0	-	
060139 Port Macquarie Airport AWS	261.6	0.2	0.6	0.8	2.2	-	1.2	-	-	3.6	1.8	-	-	-	-	-	-	-	-	-	-	-	6.2	-	0.2	31.6	-	202.0	3.8	-	-	7.4	-	
061078 Williamtown RAAF	41.6	83	-	11.6	-	4.6	0.2	-	0.2	0.2	-	-	-	-	-	-	-	-	-	0.8	-	13.4	1.4	0.2	-	4.2	3.6	-	-	-	-	1.2	-	
061363 Scone Airport AWS	35.6	-	1.6	-	6.2	-	5.4	-	-	1.0	-	-	-	-	-	-	1.8	0.8	2.4	-	-	4.2	-	-	-	1.2	-	0.6	-	-	-	7.0	3.4	
062101 Mudgee Airport AWS	58.0	-	1.0	39.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	0.2	-	-	-	-	-	-	-	-	-	-	-	10.6	1.2	
063005 Bathurst Agricultural Station	94.2	63	-	5.2	32.2	-	33.2	2.4	2.4	-	-	-	-	-	-	-	-	0.4	5.2	-	-	-	-	-	-	-	-	-	-	-	-	13.2	-	
063254 Orange Agricultural Institute	60.6	72	-	-	-	-	-	1.2	5.4	-	-	-	-	-	-	-	1.4	0.4	-	-	-	-	23.2	-	-	0.2	-	-	28.0	0.8	-	-	-	-
064008 Coonabarabran (Showgrounds)	82.2	71	1.8	3.0	35.1	-	-	-	-	-	-	-	-	-	-	-	-	14.2	4.0	-	-	0.3	-	-	-	-	-	-	-	-	-	23.8	-	
065070 Dubbo Airport AWS	54.2	-	8.2	21.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	0.2	-	-	-	-	-	-	-	-	-	20.8	0.2	
066062 Sydney (Observatory Hill)	47.2	85	0.2	-	10.8	3.0	7.6	0.2	5.8	-	-	-	-	-	-	-	0.2	1.4	0.6	0.2	-	3.0	0.2	-	-	1.2	-	3.0	-	-	-	3.8	6.0	
067105 Richmond RAAF	46.6	0.2	-	14.4	0.2	1.0	6.2	0.2	-	7.6	0.2	-	-	-	-	-	-	-	-	-	0.2	-	3.4	5.6	-	0.6	1.8	1.4	-	-	-	3.2	0.4	
068072 Nowra RAN Air Station AWS	41.6	-	1.6	5.8	0.2	9.8	1.4	2.0	-	-	-	-	-	-	-	-	-	1.2	0.2	-	-	7.0	5.0	-	2.8	-	-	-	-	-	-	4.2	0.4	
068151 Jervis Bay (Point Perpendicular)	149.6	-	-	9.2	27.0	60.8	31.4	2.2	-	-	-	-	-	-	-	-	-	0.8	0.6	-	-	4.6	2.2	-	3.0	-	-	1.2	-	-	4.8	1.8	-	
068241 Albion Park (Wollongong Airport)	49.8	-	-	7.8	-	6.2	1.2	3.2	-	-	-	-	-	-	-	-	5.6	0.6	3.2	0.8	0.2	-	0.2	19.4	1.4	-	-	-	-	-	-	-	-	
069018 Moruya Heads Pilot Station	136.0	77	-	7.6	12.8	13.2	48.2	22.2	0.4	-	0.6	-	-	1.6	-	-	9.8	-	7.6	-	-	1.2	-	-	-	-	0.8	-	1.8	-	-	8.2	-	
070351 Canberra Airport	95.2	-	35.2	18.4	0.2	6.6	5.2	0.2	6.2	-	-	-	-	-	-	3.2	-	1.6	0.2	-	-	0.2	1.6	-	-	-	-	-	-	-	-	16.4	-	
071041 Thredbo Village	172.1	-	66.2	28.4	10.8	10.6	1.8	2.8	17.4	2.2	0.1	-	-	-	-	1.8	-	-	-	-	-	1.4	6.2	-	-	0.5	-	-	-	-	2.6	19.2	0.1	
072150 Wagga Wagga AMO	101.8	-	43.4	20.0	0.2	6.0	1.0	-	3.6	0.2	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	26.0	0.2	
072160 Albury Airport AWS	102.4	0.6	49.6	29.6	-	1.8	2.0	-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	1.4	13.8	-	
072161 Cabramurra SMHEA AWS	211.0	-	50.0	84.6	1.6	22.6	0.2	0.8	3.4	0.8	-	-	-	-	-	1.4	-	-	-	-	7.6	7.6	-	-	1.4	-	-	-	-	0.6	28.4	-	-	
073054 Wyalong Post Office	122.8	50	-	68.6	25.0	-	11.0	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	1.4	1.0	-	-	-	-	-	-	-	-	15.0	-	
074258 Deniliquin Airport AWS	75.8	-	14.2	47.4	1.6	-	-	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	-	-	-	-	-	-	3.2	2.6	-	
Victoria	Total	Avg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
076031 Mildura Airport	45.0	22	9.0	15.4	1.8	-	-	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	10.2	-	-	-	-	-	-	-	-	-	0.2	-	
077008 Birchip (Woodlands)	21.2	25	8.4	10.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
078015 Nhili Aerodrome	25.8	-	20.4	1.4	-	-	0.6	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
080023 Kerang	44.2	28	0.4	36.0	4.6	-	0.4	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-	
081123 Bendigo Airport	37.6	-	2.0	22.2	2.4	0.2	0.2	-	-	1.0	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-	-	0.8	0.4	-	
082039 Rutherglen Research	103.4	46	5.0	56.4	8.4	-	4.6	6.2	-	2.0	0.2	-	-	-	-	-	-	-	-	-	-	3.0	-	-	-	-	-	-	-	-	6.6	11.0	-	
083085 Mount Hotham	190.8	-	32.8	3.2	2.2	0.6	3.2	14.6	-	-	-	-	-	-	-	-	0.2	-	-	-	-	34.4	0.2	-	-	0.4	0.2	-	-	-	24.8	74.0	-	
084016 Gabo Island Lighthouse	78.0	82	-	24.0	15.6	-	14.0	9.6	2.6	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	-	2.6	6.2	-	
084145 Orbst	86.0	-	24.8	29.4	-	2.0	3.8	0.6	3.0	-	-	-	-	-	-	-	-	-	-	-	-	6.0	1.0	-	-	-	-	-	-	-	2.8	12.6	-	
085072 East Sale	118.6	58	-	43.6	25.0	-	-	3.0	-	10.4	-	-	-	-	-	-	-	-	-	-	-	8.6	-	0.2	-	-	-	-	-	-	-	1.2	26.6	-
085096 Wilsons Promontory Lighthouse	124.6	63	0.2	30.6	42.8	1.4	6.6	-	-	16.8	0.6	3.4	-	-	-	-	-	-	-	-	-	8.4	0.2	-	-	-	-	-	-	0.6	0.2	11.4	1.4	
087031 Laverton RAAF	82.2	49	4.8	25.6	25.6	4.4	1.0	-	-	12.6	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	0.2	7.2	0.2	-	
087184 Breakwater (Geelong Racecourse)	40.8	-	6.6	9.0	5.8	3.8	1.4	-	-	9.4	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	-	-	4.6	-	
089002 Ballarat Aerodrome	60.2	47	22.4	9.6	13.6	-	-	-	0.2	10.6	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4	2.0	
090015 Cape Otway Lighthouse	35.6	57	2.8	1.4	1.0	0.4	-	1.0	-	14.0	2.2	0.2	-	-	-	0.2	-	-	-	-	-	0.2	-	-	-	-	-	-	-	1.6	0.4	10.0	0.2	
Tasmania	Total	Avg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
091009 Burnie (Round Hill)	54.3	68	2.8	21.4	17.8	9.6	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-	0.6	-	1.6	-	
091126 Devonport Airport	45.0	57	0.8	14.0	22.0	-	5.0	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	2.4	-	-	-	-	-	-	-	0.2	-	0.2	-	
091293 Low Head	51.6	-	13.4	27.6	0.2	-	-	-	-	0.6</																								