



Australian Government  
Bureau of Meteorology

# Monthly Weather Review Australia August 2019



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](mailto:media@bom.gov.au)  
[www.bom.gov.au](http://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](http://www.bom.gov.au/climate/maps).

## Accessing data

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

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## Cover photograph

A humpback whale reaches for the sky off Hervey Bay.

Photograph by Pandora Hope, late August 2006. Used with permission.

# Overview

- Warmer than average August for Australia, in terms of mean temperature
- For Australia as a whole, the mean maximum temperature was above average, and mean minimum temperature was slightly below average for August
- August rainfall below to very much below average for much of Australia
- Seventh-lowest August rainfall on record for Australia as a whole and for New South Wales, eighth-lowest for the Murray-Darling Basin

August was warmer than average for Australia as a whole, with the national mean temperature  $0.25^{\circ}\text{C}$  above average. The mean maximum temperature for the month was  $0.75^{\circ}\text{C}$  above average for August, while the mean minimum temperature was  $0.25^{\circ}\text{C}$  below average. Nationally, rainfall was the seventh-lowest on record for August, with rainfall more than 52% below the long-term average for Australia as a whole.

## Areal averages in August 2019

	Rainfall anomaly	Mean maximum temperature anomaly	Mean minimum temperature anomaly	Mean temperature anomaly
Australia	-52% 7th-lowest	+0.75 °C	-0.25 °C	+0.25 °C
Western Australia	-27%	+1.53 °C	+0.23 °C	+0.88 °C
Northern Territory	-99%	-0.35 °C	-0.80 °C	-0.57 °C
South Australia	-64%	+0.37 °C	-1.08 °C	-0.35 °C
Queensland	-80%	+0.69 °C	+0.23 °C	+0.46 °C
New South Wales	-76% 7th-lowest	+1.09 °C	-0.72 °C	+0.19 °C
Victoria	-25%	-0.36 °C	-0.53 °C	-0.44 °C
Tasmania	0%	+0.04 °C	-0.54 °C	-0.24 °C

## Extremes in August 2019

	Hottest day	Coldest night	Wettest day	Warmest overall	Coolest overall	Wettest overall	Strongest wind gust
Australia	37.9 °C at Kalumburu (WA) on the 19th	-12.0 °C at Perisher Valley AWS (NSW) on the 30th	114.4 mm at Gosford AWS (NSW) on the 30th	27.9 °C at Coconut Island (Qld)	-2.1 °C at Thredbo AWS (NSW)	484.9 mm at Lake Margaret Dam (Tas.)	148 km/h at Maatsuyker Island Lighthouse (Tas.) on the 21st
Western Australia	37.9 °C at Kalumburu on the 19th	-4.5 °C at Eyre on the 27th	71.4 mm at Worsley Downs on the 30th	25.8 °C at Troughton Island	10.3 °C at Wandering	212.2 mm at Bickley	107 km/h at Ocean Reef on the 16th
Northern Territory	37.3 °C at Ngukurr Airport on the 18th	-3.0 °C at Arltunga on the 14th	10.8 mm at Pirlangimpi Airport on the 20th	26.7 °C at Cape Wessel	12.7 °C at Alice Springs Airport	13.0 mm at Pirlangimpi Airport	67 km/h at Douglas River Research Farm on the 3rd
South Australia	30.7 °C at Oodnadatta Airport on the 17th	-4.7 °C at Gluepot Reserve (Gluepot) on the 30th	58.0 mm at Piccadilly (Woodhouse) on the 9th	14.1 °C at Oodnadatta Airport	7.1 °C at Mount Lofty	130.2 mm at Piccadilly (Mount Lofty Botanic Garden)	122 km/h at Neptune Island on the 8th
Queensland	35.6 °C at Kowanyama Airport on the 16th and Century Mine on the 18th	-5.0 °C at Stanthorpe Leslie Parade on the 20th	47.0 mm at Warrinilla on the 1st	27.9 °C at Coconut Island	9.9 °C at Applethorpe	124.4 mm at Bingil Bay	78 km/h at Innisfail Aerodrome on the 3rd
New South Wales	31.1 °C at Bourke Airport AWS on the 18th	-12.0 °C at Perisher Valley AWS on the 30th	114.4 mm at Gosford AWS	17.0 °C at Byron Bay (Cape Byron AWS)	-2.1 °C at Thredbo AWS	212.6 mm at Gosford AWS	119 km/h at Thredbo AWS on the 9th
Victoria	24.2 °C at Ouyen (Post Office) on the 24th	-7.4 °C at Mount Hotham on the 11th and 12th and 29th	52.6 mm at Falls Creek (Rocky Valley) on the 8th	11.6 °C at Gabo Island Lighthouse	-1.8 °C at Mount Hotham	298.8 mm at Mount Baw Baw	143 km/h at Wilsons Promontory Lighthouse on the 22nd
Tasmania	20.1 °C at Friendly Beaches on the 31st	-8.5 °C at Liawenee on the 23rd	83.0 mm at Cradle Mountain Visitors Centre on the 21st	10.5 °C at Hogan Island	0.5 °C at kunanyi (Mount Wellington Pinnacle)	484.9 mm at Lake Margaret Dam	148 km/h at Maatsuyker Island Lighthouse on the 21st

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.

# Significant weather

## Bushfires in Queensland

Fire-fighting crews fought fires at Noosa Heads, where a raging bushfire came metres from homes on 23 August, and on the same day, a fire burnt at Dunwich in North Stradbroke Island. A bushfire burnt at the northern end of Bribie Island on 21 August. Firefighters contained the blaze, which posed no threat to property.

Multiple hazard reduction burns also took place across the State in August, with numerous smoke alerts issued by Queensland Fire and Emergency Services (QFES).

## Fog and dust over Brisbane

Heavy fog blanketed much of Greater Brisbane on the morning of the 19th, with low-lying cloud spreading as far west as the Lockyer Valley and Scenic Rim. Hours after the fog lifted, much of inner Brisbane was then blanketed in a dust cloud, originating from the southern inland carried on winds behind a cold front.

## Cold outbreak brings strong winds and snow in southeast Australia

A strong cold front produced a cold outbreak in southeast Australia from the 7th, bringing damaging winds, squally showers, and storms.

Sustained winds of 90–110 km/h were experienced during the 9th over the parts of West and South Gippsland, and the coastal South West, with gusts of 128 km/h recorded at Wilsons Promontory, 120 km/h at Cape Otway. Victorian State Emergency Services (SES) had received more than 500 calls, mostly due to fallen trees and some building damage, while the New South Wales SES received close to 300 calls, mostly from the Illawarra and South Coast.

In South Australia storms on the 8th brought severe winds and localised flooding to the Adelaide Hills,

with power blackouts affecting thousands of properties across the State.

The cold outbreak brought widespread heavy snow to many elevated areas in New South Wales and Victoria. Moderate falls were reported in the highlands of New South Wales with many locations above about 600 m receiving settling snow on 10 and 11 August, including Orange, Guyra, Lithgow, Canberra, the Barrington Tops and the Blue Mountains, and widespread snow falling to lower levels in Victoria, including Mt Macedon and the Dandenong Ranges. In Victoria this was the most widespread low level snowfall since 2008.

Over a metre of snow fell at Spencers Creek during the month, mostly between the 6th and the 13th.

## Strong winds in Victoria late in the month

Strong winds, particularly in eastern Victoria, followed the passage of a vigorous cold front on the 22nd; Wilsons Promontory reported the strongest wind gust in the State this August, 143 km/h.

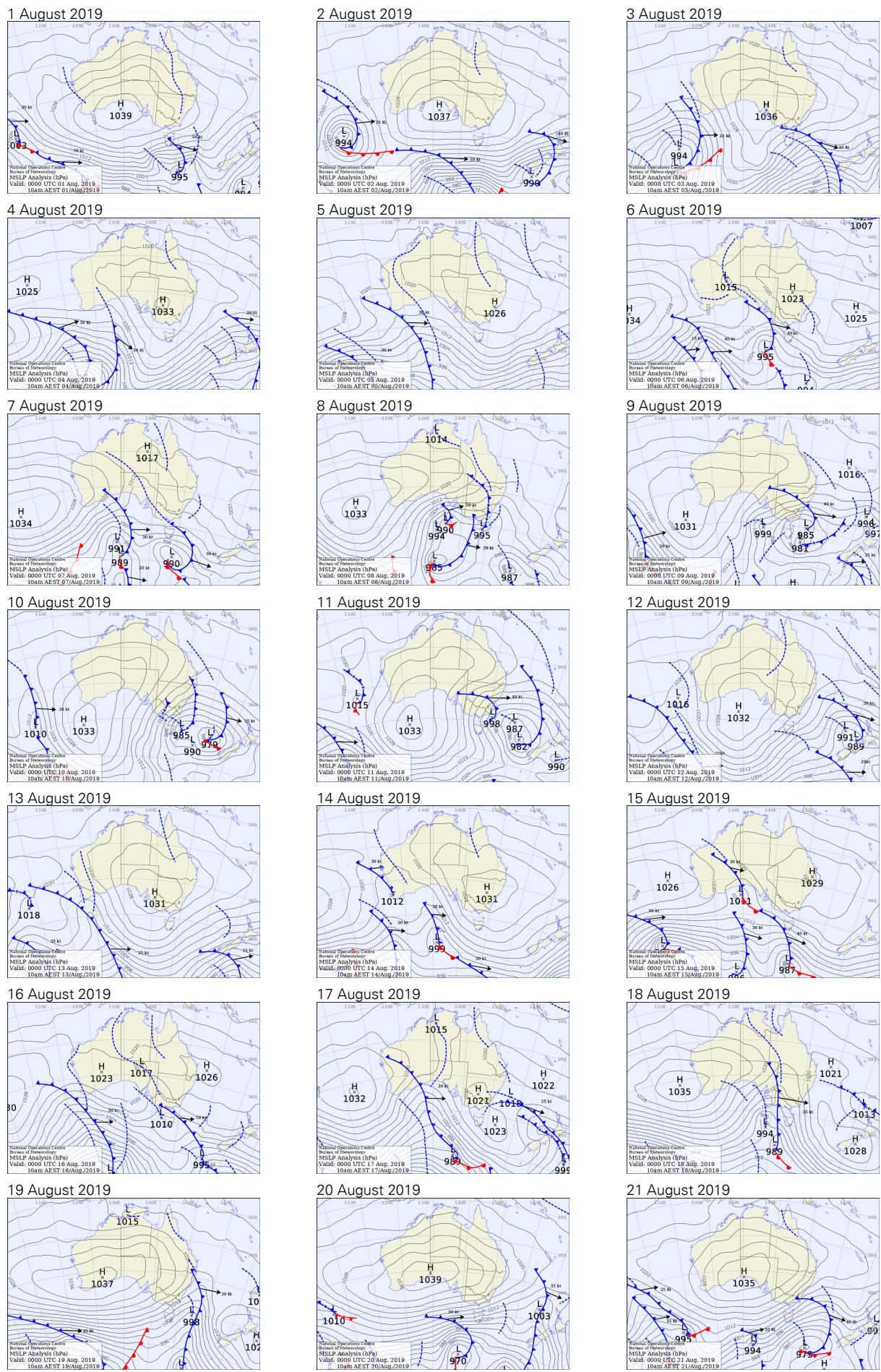
## Small hail and severe wind gusts in Western Australia

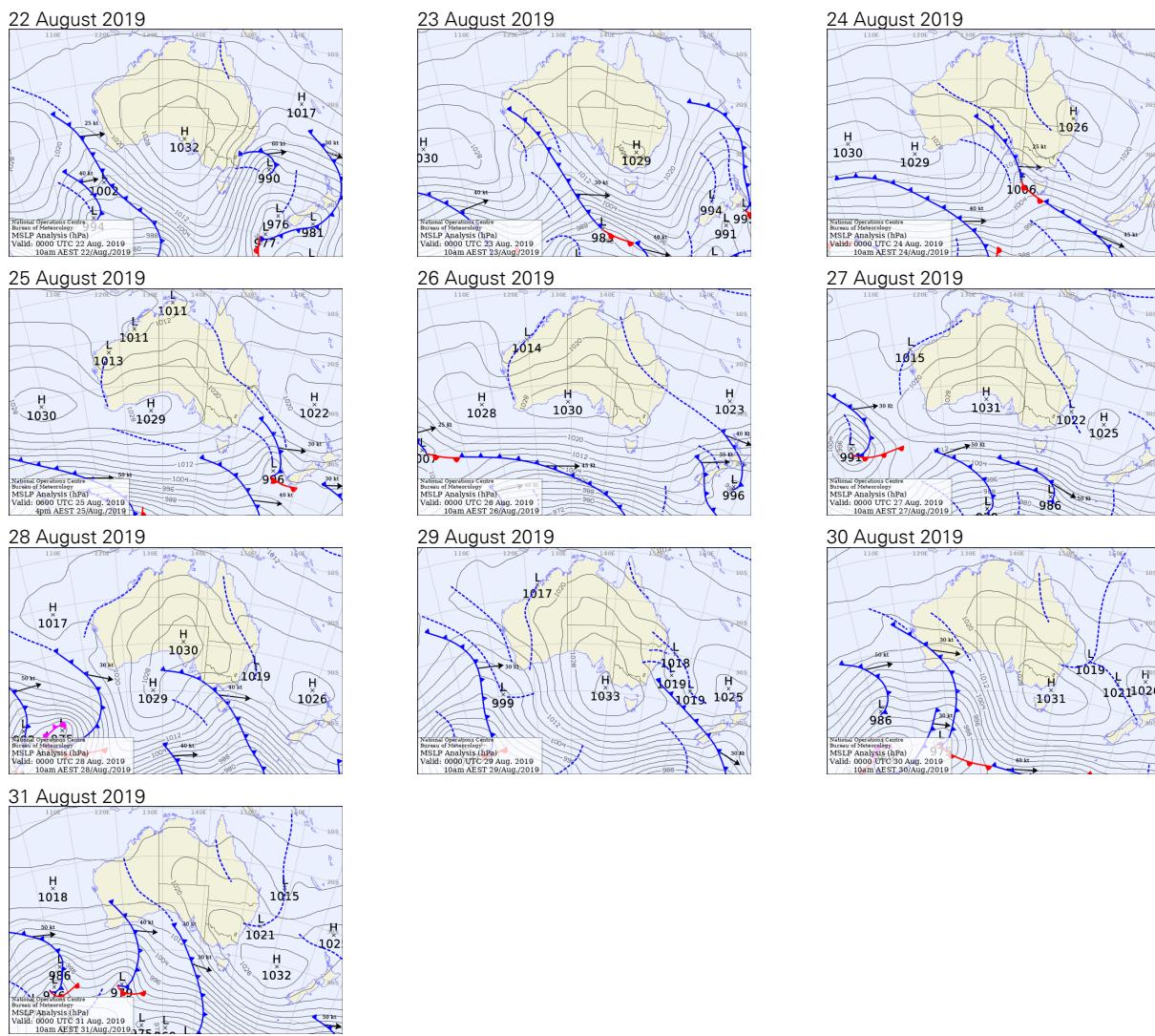
A strong cold front followed by a cold southwesterly air mass produced severe wind gusts of 100 km/h or higher along the Lower West and Southwest coasts on the 16th and 17th. A layer of snow fell on Bluff Knoll in the Stirling Ranges on the 17th. The State Fire and Emergency Services received more than 20 calls for help.

## Tornado in South West Western Australia

Storms associated with a cold front spawned a tornado on the evening of the 29th in the township of Harvey, 140 km south of Perth. 5 homes were damaged.

# Synoptic analyses and summary





## Synoptic summary

Cold fronts across southern Australia were a feature of August. In the first week of the month, much of the continent was under the influence of a large high pressure system. In the east, a surface trough located through inland Queensland, and moist onshore flow brought showers to central Queensland and along the east coast.

At the end of the first week, a vigorous cold front tracked over southwest Western Australia. This system moved eastwards, reaching southeast Australia by the end of the first week. In the southeast, a series of cold fronts crossed in the following days, while an upper-level trough developed over central Queensland from the 4th and interacted with a surface trough for several days.

The second week of August featured a series of cold fronts progressing across southern Australia, before a large high pressure system moved into the Great Australian Bight, and lingered for a few days in the middle of the month.

Another series of cold fronts tracked across southern parts of the mainland around the third week of August, but the associated rainfall was confined to the far southwest and far southeast of Australia.

High pressure dominated much of Australia during the last week of August, while a series of cold fronts tracked across the Southern Ocean, crossing Tasmania, Victoria, and southeastern New South Wales.

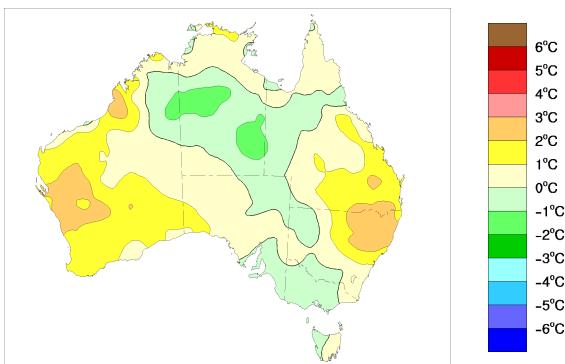
# Temperatures

August 2019 was warmer than average for Australia as a whole, with the national mean temperature 0.25 °C above average. The mean maximum temperature for the month was 0.75 °C above average, while the mean minimum temperature was 0.25 °C below average.

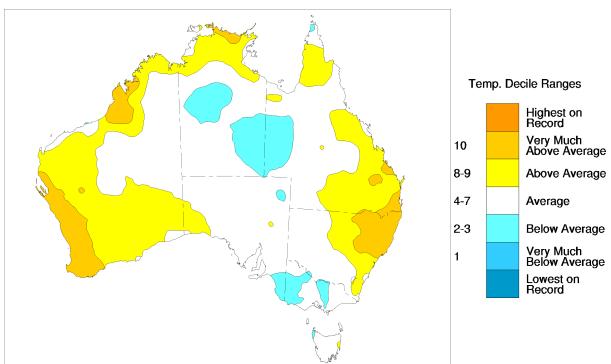
## Maximum temperatures

Mean maximum temperature was above average for much of the west, north, and east of the country. The mean maximum temperature for the month was warmer than average for August, at +0.75 °C.

### Anomalies of mean daily maximum temperature in August 2019



### Decile rank of mean daily maximum temperature in August 2019



Maximum temperatures for August were above to very much above average for most of Western Australia except the northern interior and inland northeast; the Top End in the Northern Territory; parts of Queensland's Cape York Peninsula, and from the Central Coast to southeast and central southern Queensland; and the northeastern half of New South Wales. The mean maximum temperature for the month was very much above average along the west coast of Western Australia and the western Kimberley, a pocket of the central Top End coast, and for northeastern New South Wales, extending into adjacent southeast Queensland.

Daytime temperatures were cooler than average for most of western and central Victoria, extending into far southeastern South Australia and just across the New South Wales border in the Riverina. Mean maxima for the month were also cooler than average in areas of the central and southeastern Northern Territory and adjacent western Queensland.

At the start of the month, much of the continent had cooler than usual days under the influence of a large high pressure system. In the first week, a cold front swept across the southwest, with warm north to northwesterly winds and warm temperatures ahead of the front experienced in southern Western Australia and South Australia.

From the second week, a series of cold fronts tracked across the southeast, and much of western and southern Australia had cool days in the wake of the fronts. Ahead of the fronts, very warm, dry west to northwesterly winds were directed across Queensland and New South Wales, resulting in warmer than usual days.

A strong cold front tracked northeast across Tasmania, Victoria and southern Queensland, and a high pressure system to the west of Western Australia directed a strong and cold southerly burst across the continent, with cooler than usual days until the middle of the month.

Another strong cold front tracked across southern Australia in the third week of the month, with warm days experienced across South Australia ahead of the front. The warm north to northwesterly winds ahead of the front extended to parts of northeastern and eastern Australia, with above average daytime temperatures reported. The warmest days occurred between the 17th and 19th in Western Australia, the Northern Territory, Queensland, New South Wales and South Australia. Kalumburu in Western Australia reached 37.9 °C on the 19th, the highest daily temperature recorded in Australia for the month. Following the passage of the cold front, it was much cooler than usual in parts of Western Australia.

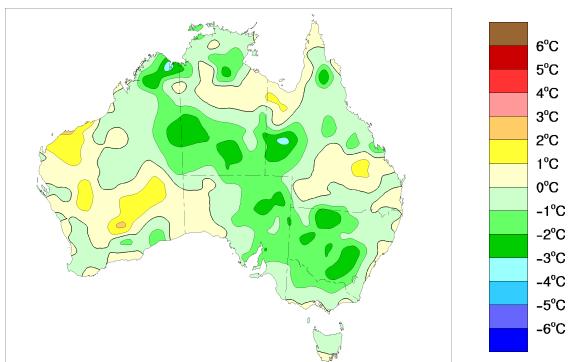
Later in the month, a very warm day was observed in Western Australia under the influence of warm northeasterly winds. Many sites in the west of the South West Land Division observed record-high daily temperatures for August or winter (see page 12) on the 28th.

## Minimum temperatures

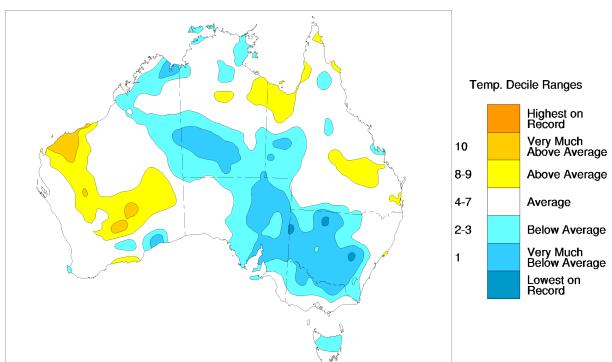
The mean minimum temperature was cooler than average, at  $-0.25^{\circ}\text{C}$ . Mean minimum temperature

was below average for large areas, particularly the southeastern mainland and Central Australia.

### Anomalies of mean daily minimum temperature in August 2019



### Decile rank of mean daily minimum temperature in August 2019



The mean minimum temperature for the month was cooler than average for large parts of Australia, including much of the northern and western Kimberley; and small pockets of the far north in the Northern Territory and south coast of Western Australia; most of the southern half of the Northern Territory, extending into adjacent western Queensland and the northern Interior of Western

Australia; northern Victoria; most of New South Wales away from the coast and the northeast; northern Tasmania; and the eastern half of South Australia away from the far southeastern coast.

Warmer than average mean minimum temperatures were observed in much of the Pilbara in Western Australia, extending into southern inland regions, around the Gulf Coast and parts of Queensland's Cape York Peninsula, and a pocket of Queensland's Central Highlands.

At the start of the month, nights were cooler than usual across most of southern Australia and through Central Australia. Clear and cold nights continued into the first week, with much of the continent under the influence of a high pressure system. In the second week of the month, cold fronts tracked across the southeast, with cold southerly winds extending into Tasmania, Victoria, New South Wales and Queensland.

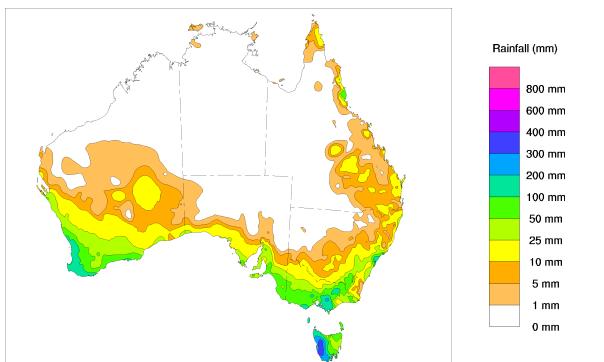
Much of the continent reported below average minimum temperatures into the third week, before very warm nights were recorded in the South West Land Division near the end of the month. Warm northwesterly winds saw a few sites in South West Land Division observe their warmest August night on record (see page 12).

Several sites in northern and central Victoria and some sites in New South Wales had their lowest monthly mean minimum, monthly mean maximum, or monthly mean temperature for August, or for at least 20 years. The coldest night occurred on the 30th, with  $-12.0^{\circ}\text{C}$  recorded at Perisher Valley AWS. Sub-zero temperatures were also recorded in Western Australia ( $-4.5^{\circ}\text{C}$  at Eyre on the 27th), South Australia ( $-4.7^{\circ}\text{C}$  at Gluepot Reserve on the 30th) and in Victoria ( $-7.4^{\circ}\text{C}$  at Mount Hotham on the 29th).

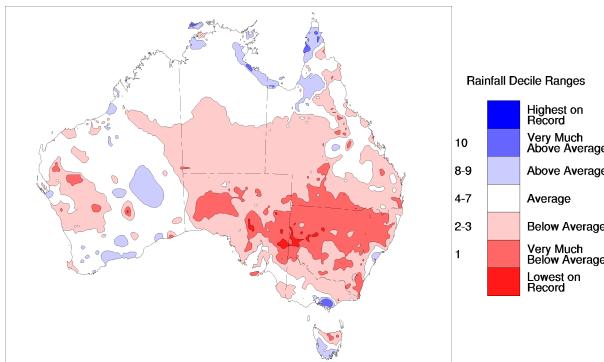
# Rainfall

Nationally, rainfall was the seventh-lowest on record for August. Rainfall for the month was the seventh-lowest on record for August for New South Wales, and the eighth-lowest on record for August for the Murray-Darling Basin as a whole.

## Total rainfall in August 2019



## Decile rank of total rainfall in August 2019



Rainfall was below to very much below average across nearly all of New South Wales, extending into much of southern and western Queensland, northern and far eastern Victoria, and nearly all of South Australia. Rainfall for the month was also below average for the southern half of the Northern Territory. However, much of northern and Central Australia typically receives very little rainfall at this time of year.

Rainfall for August was above average for parts of western and southern Tasmania, a small area of Victoria focused on South Gippsland, and areas of Queensland's northern Peninsula and around the Gulf Coast, including the eastern Top End, and of the western Top End and Tiwi Islands. The wettest place overall was Lake Margaret Dam in the West Coast region of Tasmania, with 484.9 mm of rain in August.

At the start of the month, a surface trough located through inland Queensland triggered thunderstorm activity, with moderate falls recorded in parts of the Central Highlands and central coast of the State. A strong cold front approached and tracked across southwest Western Australia. Moderate falls were recorded in the southwest of Western Australia before the cold front moved across the Bight.

In the second week, a large complex low pressure system with triple centres developed in southeast Australia: one centre was located to the east of Tasmania, while the second was situated over far southeastern South Australia, and the third approaching from the deep south of the Bight.

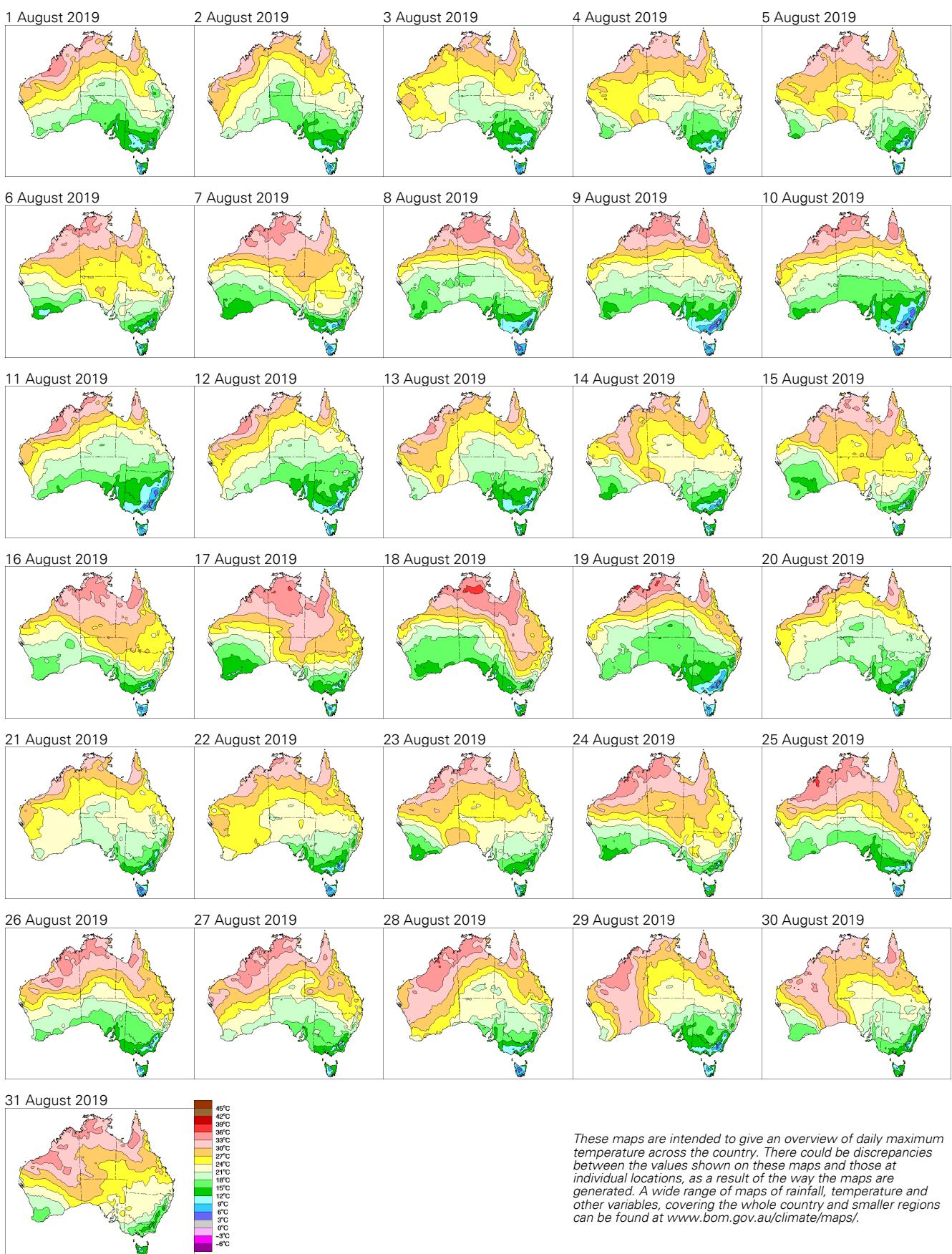
The complex low pressure systems, and associated strong cold fronts and extensive low and middle level cloud, moved across the southeast and produced moderate falls in southeastern South Australia, southern Victoria, and western and southern Tasmania in the middle of the week. Snow was recorded in parts of the Snowy and Blue Mountains in New South Wales and down to elevations of around 300 m; also in the Victorian Alps and down to elevations of around 500 m.

During the middle of the month, cold fronts swept across the southern parts of Australia, with moderate falls in the southwest, and the southeast of Australia, with very little rainfall in the north. Large areas of high pressure dominated much of the continent in the third week of the month, with only areas in the southwest and southeast reporting any rainfall.

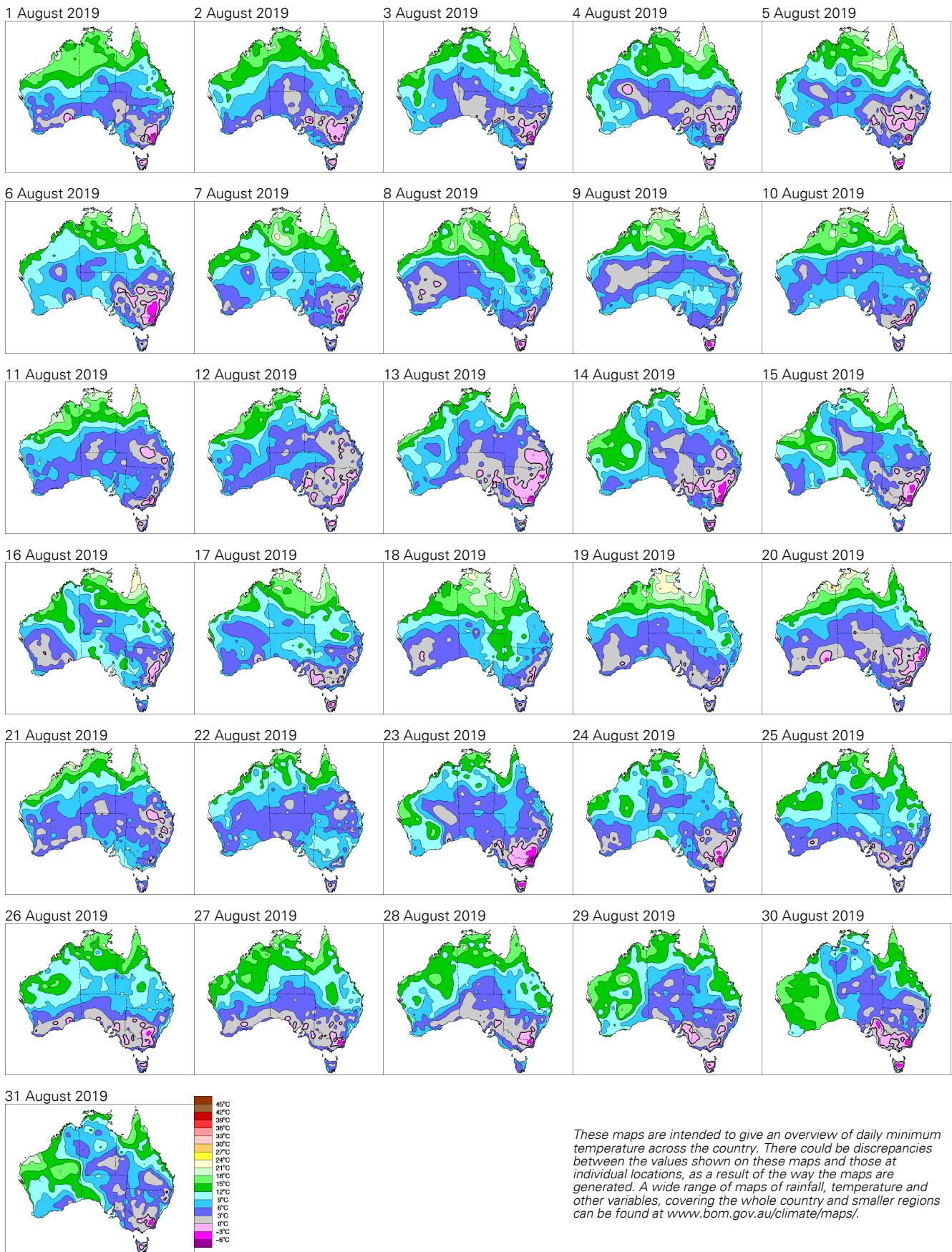
At the end of the month, several cold fronts tracked across the south for the remainder of the month, bringing moderate falls to the southeast. A surface trough stretching through inland Queensland to the central coast of New South Wales generated showers and isolated thunderstorms over northeastern New South Wales and southeast Queensland. A complex low pressure system developed along a trough located just off the east coast of New South Wales, with a second trough extending westwards over the coast. Moderate to heavy rainfall was recorded around Sydney and the Hunter District in New South Wales in the last few days of the month. The highest daily rainfall total was 114.4 mm on the 30th at Gosford AWS in Central Coast New South Wales.

# Daily maps

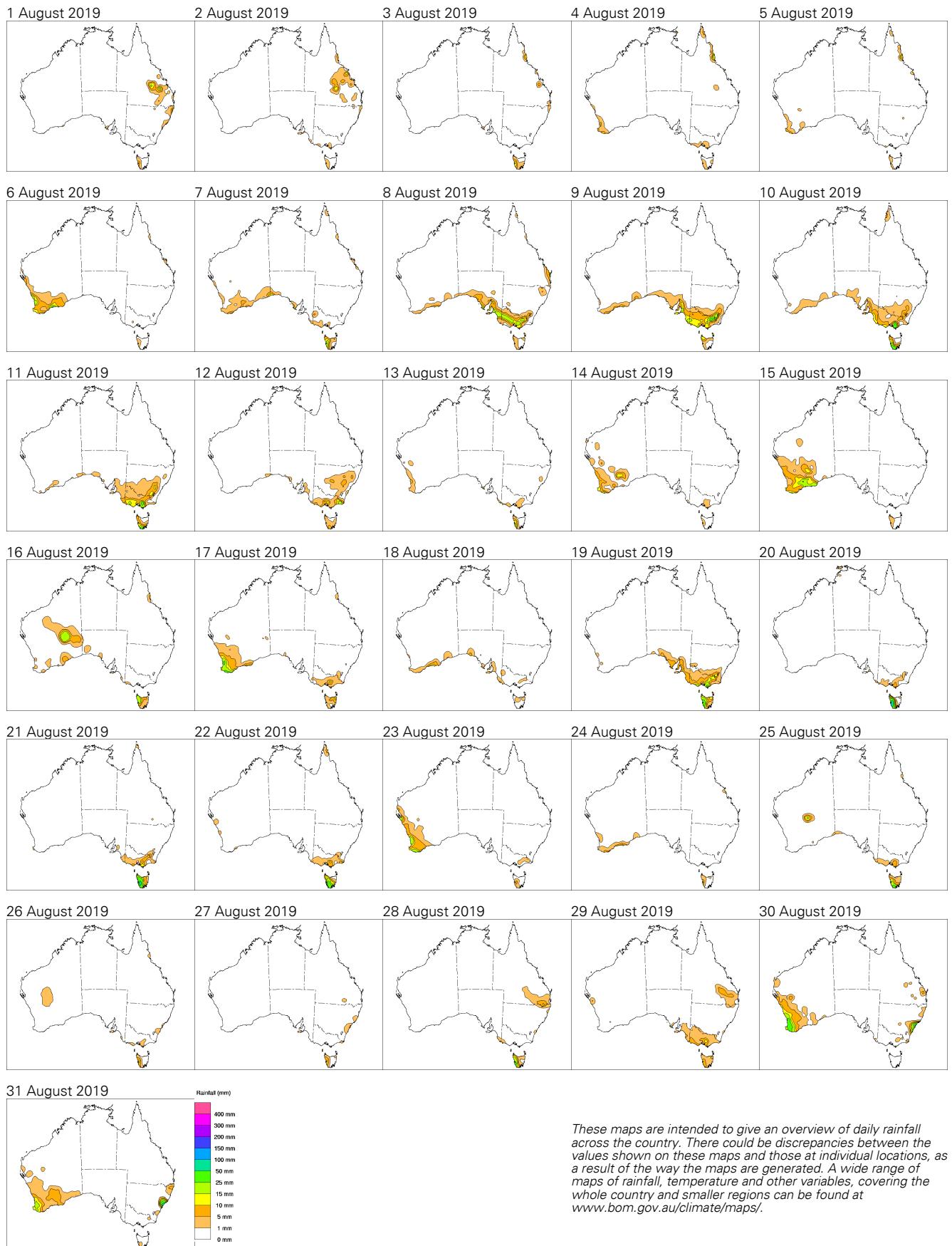
## Daily maximum temperature maps



## Daily minimum temperature maps



## Daily rainfall maps



# Records

## Record highest August daily maximum temperature

		New record	Old record	Years of record
Western Australia				
006011	Carnarvon Airport	33.6 on 27th	= 33.6 on 12th in 2014	73
006044	Denham	31.5 on 27th	= 31.5 on 13th in 2014	31
009021	Perth Airport	29.9 on 28th	28.3 on 26th in 1998	76
009037	Badgingarra Research Stn	29.9 on 28th	27.7 on 12th in 1976	53
009111	Karnet	27.0 on 28th	25.0 on 15th in 2015	54
009114	Lancelin	31.0 on 28th	29.0 on 12th in 1976	51
009131	Jurien Bay	30.0 on 28th	28.2 on 10th in 2014	50
009172	Jandakot Aero	29.4 on 28th	27.0 on 15th in 2015	30
009518	Cape Leeuwin	25.5 on 28th	24.7 on 6th in 2014	113
009534	Donnybrook	27.0 on 28th	26.7 on 26th in 1949	110
009538	Dwellingup	27.1 on 28th	24.9 on 20th in 2018	60
010058	Goomalling	29.7 on 28th	29.5 on 29th in 2006	43
010524	Brookton	26.8 on 28th	26.7 on 29th in 2006	52
010626	Pingelly	26.4 on 28th	26.1 on 29th in 2006	49

= indicates the new record equals the old one.

## Record lowest August daily maximum temperature

		New record	Old record	Years of record
Tasmania				
091237	Launceston (Ti Tree Bend)	7.9 on 8th	8.1 on 2nd in 2004	37

## Record lowest August daily minimum temperature

		New record	Old record	Years of record
New South Wales				
073007	Burrinjuck Dam	-4.0 on 6th	-3.7 on 6th in 1974	53

## Record lowest August mean minimum temperature

		New record	Old record	Years of record
New South Wales				
050031	Peak Hill Post Office	3.7	3.8 in 2017	53
070080	Taralga Post Office	-0.4 =	-0.4 in 1994	61
073014	Grenfell (Manganese Rd)	0.8 =	0.8 in 1989	103
075041	Griffith Airport AWS	1.4 =	1.4 in 1994	47

= indicates the new record equals the old one.

### Lowest August mean minimum temperature for at least 30 years

			Observed this month	Most recent lower month
South Australia				
018079	Streaky Bay		7.1	6.9 in 1967 *
New South Wales				
063063	Oberon (Albion St)		-0.8	-1.2 in 1956 *
073007	Burrinjuck Dam		1.8	1.6 in 1933 *

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

### Record highest August daily minimum temperature

		New record	Old record	Years of record
Western Australia				
010058	Goomalling	14.6 on 29th	= 14.6 on 3rd in 1983	43
011017	Balladonia	15.8 on 30th	15.5 on 15th in 1976	55
Northern Territory				
014626	Daly Waters Airstrip	23.1 on 19th	22.9 on 21st in 1952	50
New South Wales				
200288	Norfolk Island Aero	18.9 on 11th	18.3 on 27th in 1971	81

= indicates the new record equals the old one.

### Record lowest August mean temperature

		New record	Old record	Years of record
Victoria				
082039	Rutherglen Research	7.1 =	7.1 in 1994	105

= indicates the new record equals the old one.

### Lowest August mean temperature for at least 30 years

		Observed this month	Most recent lower month
New South Wales			
072150	Wagga Wagga AMO	7.6 =	7.6 in 1989
073007	Burrinjuck Dam	7.7 =	7.7 in 1978 *

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

### Record highest August daily rainfall

		New record	Old record	Years of record
Victoria				
085179	Buln Buln	41.4 on 11th	39.0 on 28th in 2015	50

### Record highest August total rainfall

			New record	Old record	Years of record
South Australia					
023718	Goolwa Council Depot		127.7	117.0 in 1986	157
Victoria					
085085	Trafalgar Toseland Road		232.2	193.5 in 1939	114
085200	Korumburra Sth Gippsland Water		226.2	211.6 in 2013	45
085236	Callignee North		202.8	194.3 in 1964	63
085280	Morwell (Latrobe Valley Airport)		137.2	115.2 in 1990	35
085282	Mirboo North Water Board		224.2	212.0 in 1951	98
086281	Nyora (Post Office)		221.4	158.4 in 2013	50

### Highest August total rainfall for at least 30 years

		Observed this month	Most recent higher
Victoria			
085023	Drouin Bowling Club	177.9	209.3 in 1939 *
085042	Jindivick	172.3	210.6 in 1975
085179	Buln Buln	190.2	198.2 in 1975 *
085195	Willow Grove	152.3	153.2 in 1975 *
085252	Erica (Philips Bridge)	157.0	158.6 in 1984 *
086063	Lang Lang	154.8	198.4 in 1978 *
086261	Beaconsfield Upper	148.8	150.0 in 1978 *
086299	Berwick (Buchanan Road)	122.0	130.8 in 1981 *

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

### Record lowest August total rainfall

		New record	Old record	Years of record
Western Australia				
008128	Tenindewa Bindu	1.0	7.2 in 2008	104
008234	Byron	1.6	6.4 in 1989	50
009501	Arundel	3.4	19.8 in 1925	102
South Australia				
018137	Port Lincoln (Westmere)	8.2	17.6 in 1914	106
New South Wales				
057091	Uralla (Blue Nobby)	2.0	5.2 in 1995	58
063032	Golspie (Ayrston)	1.4	2.0 in 1914	118
069127	Araluen Lower (Araluen Rd)	1.0	1.4 in 1995	39
069142	Moruya (Kiora)	2.2	3.2 in 2009	33
073029	Murrumburrah (Historical Society)	0.0	0.5 in 1914	125
074000	Ardlethan Post Office	1.3	3.3 in 1914	103
075072	Weethalle (Mountain View)	5.4	6.2 in 1959	56
Victoria				
090167	Winchelsea (Post Office)	0.0	5.5 in 1914	113

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

		Observed this month	Most recent lower month
Western Australia			
010136	Wialki South	13.2	8.5 in 1969 *
South Australia			
021034	Mount Bryan	14.0	12.0 in 1982 *
New South Wales			
059019	Ebor (The Racecourse)	2.0	1.0 in 1955 *
069002	Bega (Newtown Road)	1.0	0.0 in 1948 *
069017	Montague Island Lighthouse	2.6	0.2 in 1980
069036	Bodalla Post Office	1.4	0.2 in 1980 *
069042	Moruya (The Lagoon)	0.8	0.0 in 1980 *
070016	Captains Flat (Foxlow St)	3.0	0.0 in 1944 *

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











