

# Monthly Weather Review

## Victoria

### March 2010



Australian Government  
Bureau of Meteorology

The *Monthly Weather Review - Victoria* is produced twelve times each year by the Australian Bureau of Meteorology's Victoria Climate Services Centre.

It is intended to provide a concise but informative overview of the temperatures, rainfall and significant weather events in Victoria 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. Major discrepancies will be noted in later issues.

We are keen to ensure that the *Monthly Weather Review* is appropriate to the needs of its readers. If you have any comments or suggestions, please do not hesitate to contact us:

*By mail*

Victoria Climate Services Centre  
Bureau of Meteorology  
PO Box 1636  
Melbourne VIC 3001  
AUSTRALIA

*By telephone*

(03) 9669 4956

*By email*

[climate.vic@bom.gov.au](mailto:climate.vic@bom.gov.au)

You may also wish to visit the Bureau's home page, <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 Victoria 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.

**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 all available years of record, which vary widely from site to site. They are not shown for sites with less than 10 years of record, as they cannot then be calculated reliably. Climatological extremes are generally taken from available observations from all available years of record. The number of years can vary substantially from site to site.

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## Cover photograph

Hailstones from storms of 6 March 2010 in the Melbourne suburb of Knoxfield, with a squash ball and a tennis ball for comparison. Photograph by Gary Ruben, March 2010. Used with permission.

*If you have a photo you think would make a good cover for the Monthly Weather Review, please contact us at the address above.*

## Overview

Across the State of Victoria, overnight minimum temperatures were warmer than those usually experienced (average departure from normal 1.3 °C). Daytime maximum temperatures at most localities were slightly warmer than those registered in the past (average departure from normal 0.6 °C). Total rainfall for the month was generally much more than that usually recorded (average percentage of normal received during the past month 217.6%).

## Extremes in March 2010

### Hottest day

*(Highest daily maximum temperature)*

**36.6 °C at Walpeup Research on the 17th**

### Warmest days on average

*(Highest mean daily maximum temperature)*

**28.9 °C at Mildura Airport**

### Coollest days on average

*(Lowest mean daily maximum temperature)*

**13.1 °C at Mount Hotham**

### Coldest day

*(Lowest daily maximum temperature)*

**4.3 °C at Mount Baw Baw on the 10th**

### Coldest night

*(Lowest daily minimum temperature)*

**-1.1 °C at Falls Creek on the 11th**

### Coollest nights on average

*(Lowest mean daily minimum temperature)*

**6.6 °C at Mount Hotham**

### Warmest nights on average

*(Highest mean daily minimum temperature)*

**16.3 °C at Melbourne Regional Office**

### Warmest night

*(Highest daily minimum temperature)*

**23.0 °C at Melbourne Regional Office on the 19th**

### Wettest overall

*(Highest total rainfall)*

**232.0 mm at Falls Creek (Rocky Valley)**

### Wettest day

*(Highest daily rainfall)*

**115.0 mm at Walwa on the 8th**

### Highest wind gust

**156 km/h at Shepparton Airport on the 7th**

## Significant weather

### Thunderstorms

On the 6th, a developing low pressure system with an associated low pressure trough to the west of Victoria combined with low level moisture and upper level forcing to generate showers and thunderstorms in the west of the State during the morning which spread eastward and intensified during the early afternoon. Severe thunderstorms developed to the northwest of the Melbourne Metropolitan Area and moved through the city from early afternoon progressing to the eastern suburbs and then into West Gippsland later in the afternoon. Widespread flash flooding and water damage to property occurred across the CBD and the eastern suburbs with extensive hail damage to cars and properties also. Largest hailstones were reported in the Ferntree Gully area where reports of up to 10 cm hailstones were recorded. Flash flooding was also reported near Maryborough and at Latrobe Valley. There were also reports of trees down due to damaging winds near Maryborough while Melbourne Airport recorded a wind gust of 102 km/h and Morwell 94 km/h.

Further unsettled conditions on the 7th lead to more severe thunderstorms developing in the north of the State. A severe thunderstorm affecting Shepparton produced flash flooding and brought trees down while 3–4 cm hail was reported at Numurkah. 24hour rainfall at Shepparton was 59.6 mm while 36 mm was reported in 30 minutes at Murchison. Very heavy rain and flash flooding was also reported at Mill Park.

State Emergency Services received more than 7000 calls for assistance over the long weekend. Over 5900 of those calls were from the area that includes Greater Melbourne and the Mornington Peninsula.

### Wind

On the 7th, Shepparton airport recorded a wind gust of 156 km/h.

Gale force northerly winds affected the Alpine areas on the 8th and 9th ahead of a trough with gusts of 105 km/h recorded at Mt Hotham, 94 km/h at Falls Creek and 100 km/h at Mt Buller.

A tight pressure gradient behind this same trough brought a WSW gust of 107 km/h to Wilson's Prom on the afternoon of the 9th.

A vigorous flow in the wake of a cold front brought a gust of 91 km/h to Wilson's Prom on the 21st.

### Floods

Heavy rain without lightning was reported near Bendigo on the 5th with 150 mm recorded at Jackass Flat, 130 mm at California Gully and 104 mm at Eaglehawk Fire Station.

Flood watches were current between the 6th and 9th for Northeastern Victoria, and between the 7th and 9th for the Goulburn and Broken basins.

## Synoptic summary

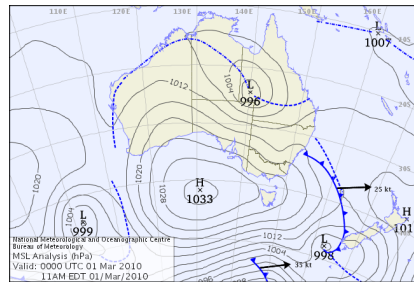
The generally warmer than normal conditions were associated with extended periods of northerly flow across eastern Australia, because of the tendency for high pressure systems to be located over the Tasman Sea, where Mean Sea Level pressures averaged more than 4 hPa above the long term average.

The generally wetter than normal conditions may be linked to the frequent incursions of moisture brought by ex-tropical cyclones, which were steered over inland Queensland by the easterly flow on the northern flank of the Tasman Sea anticyclones.

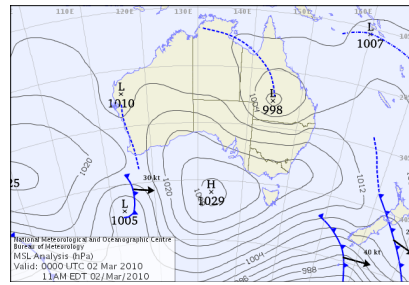
Mean Sea Level pressures were well above normal over Victoria for much of the month. Melbourne's reading of 1037.6 hPa at 9.53 am on the 12th was the highest on record for March.

# Daily mean sea level pressure analyses

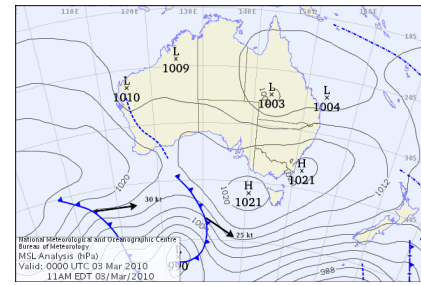
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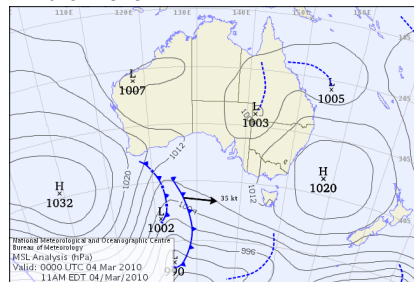
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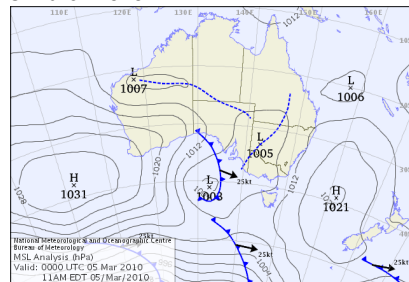
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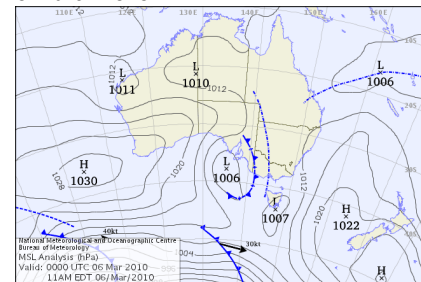
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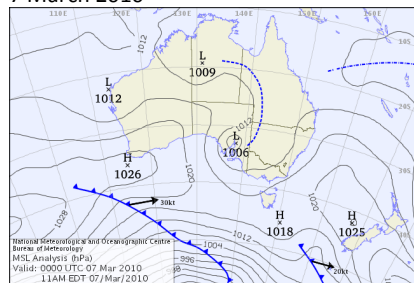
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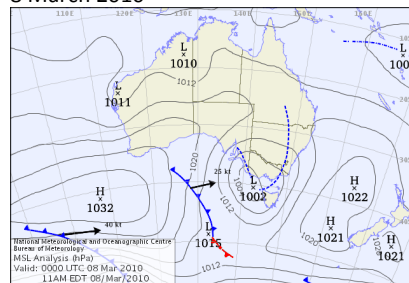
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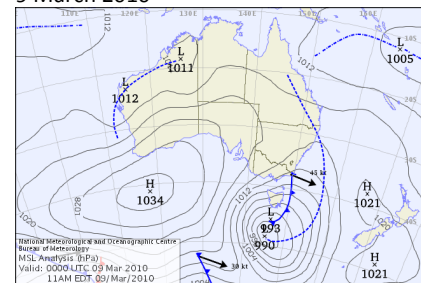
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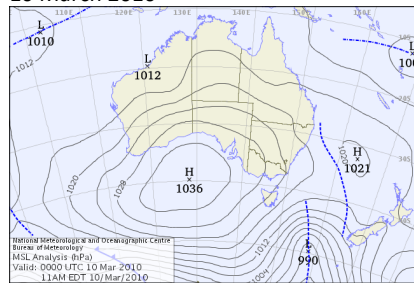
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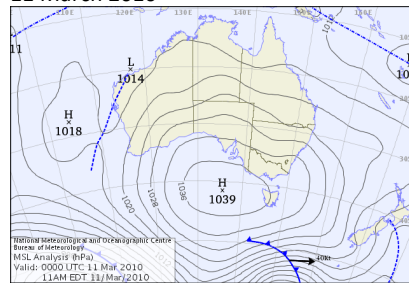
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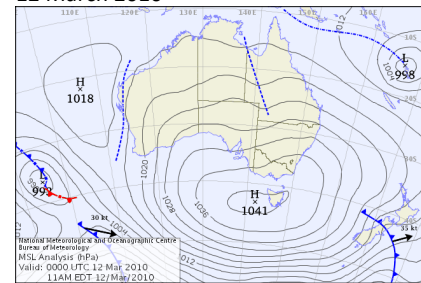
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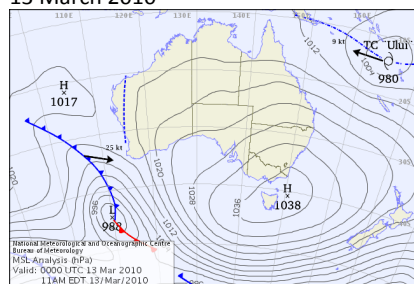
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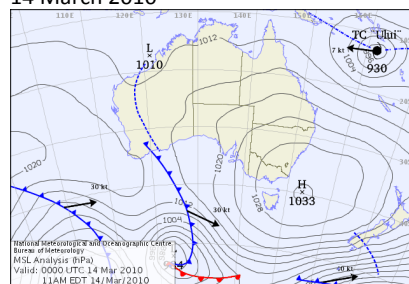
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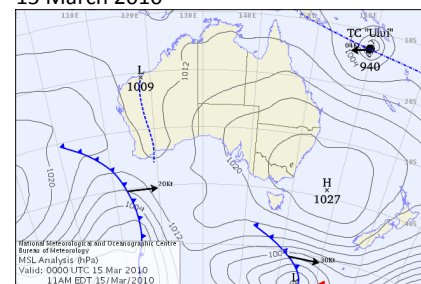
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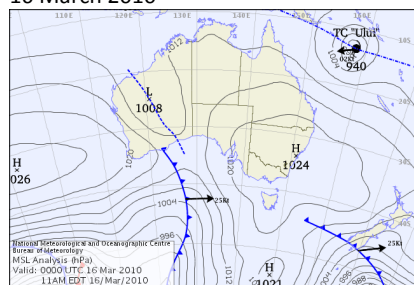
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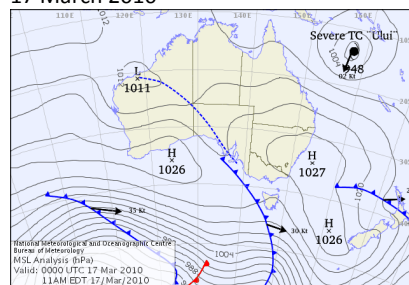
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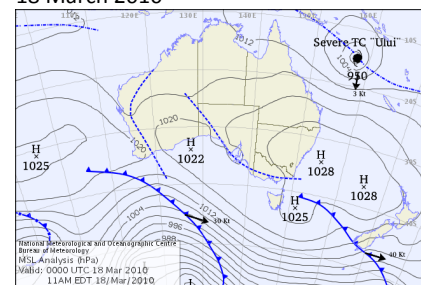
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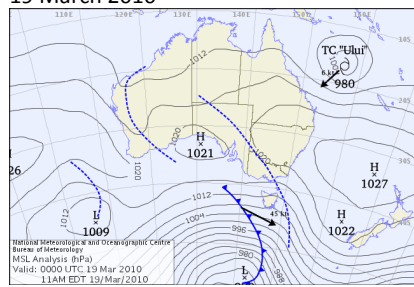
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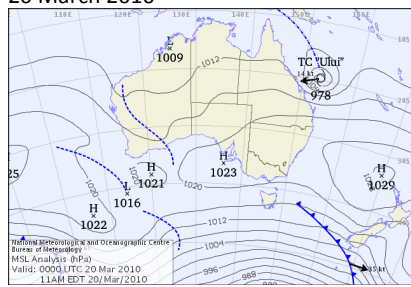
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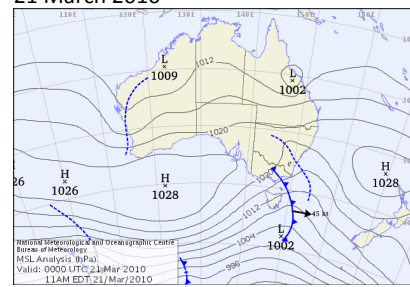
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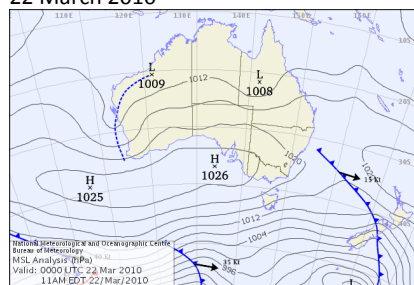
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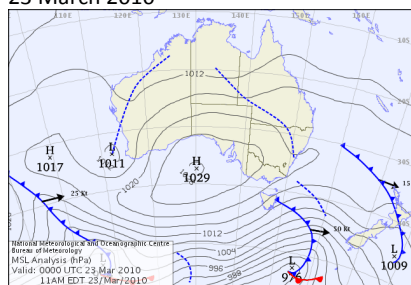
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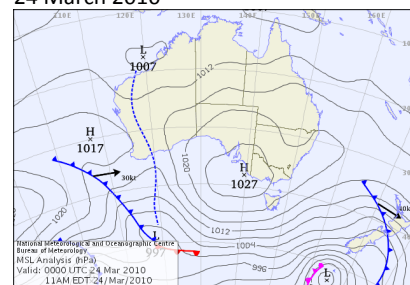
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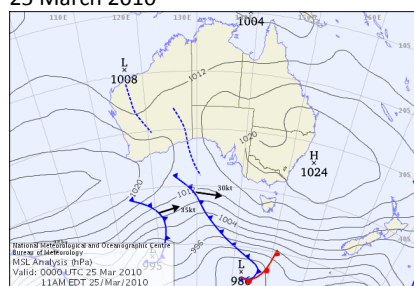
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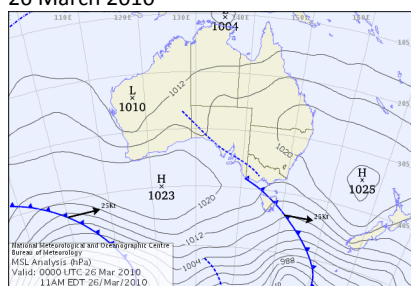
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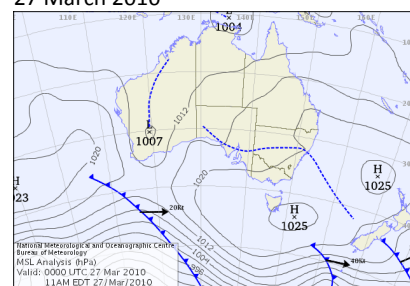
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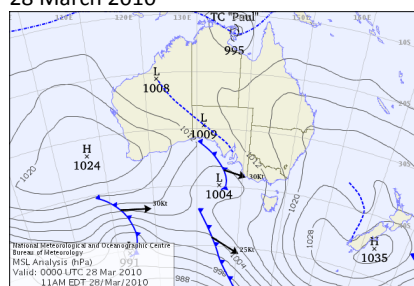
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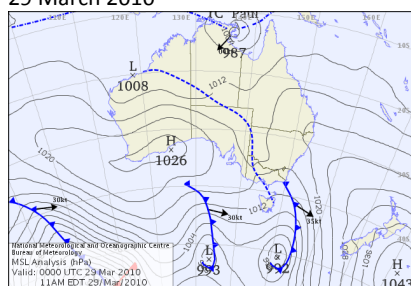
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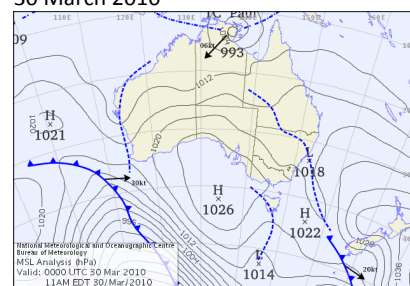
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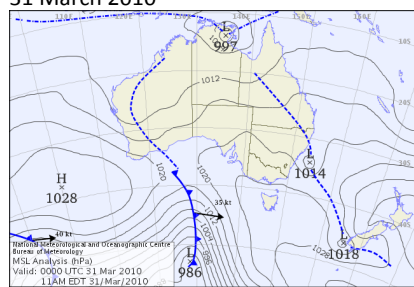
29 March 2010



30 March 2010



31 March 2010



## Temperatures

Overnight minimum temperatures were warmer than those usually experienced. Daytime maximum temperatures at most localities were slightly warmer than those registered in the past.

The mean temperature for Victoria in March 2010 was 19.01 °C, which is 0.81 °C above the long-term average.

### New temperature records

#### Record highest March mean maximum temperature

	New record	Old record	Years of record
Point Hicks (Lighthouse)	24.1	24.0 in 2008	40

#### Record highest March mean minimum temperature

	New record	Old record	Years of record
Essendon Airport	14.6	14.5 in 1956	41

#### Highest March mean minimum temperature for at least 20 years

	Observed this month	Most recent higher	Years since higher
Laverton RAAF	14.6	15.3 in 1974	36
Melbourne Regional Office	16.3	16.8 in 1974	36
Ballarat Aerodrome	11.7	12.3 in 1983	26
Bundoora (Latrobe University)	14.4	14.5 in 1983	23
Cape Otway Lighthouse	14.7	14.7 in 1989	21
Weeaprounah	12.0	12.7 in 1989	21
Wilsons Promontory Lighthouse	16.2	16.3 in 1989	21

### Maximum temperatures

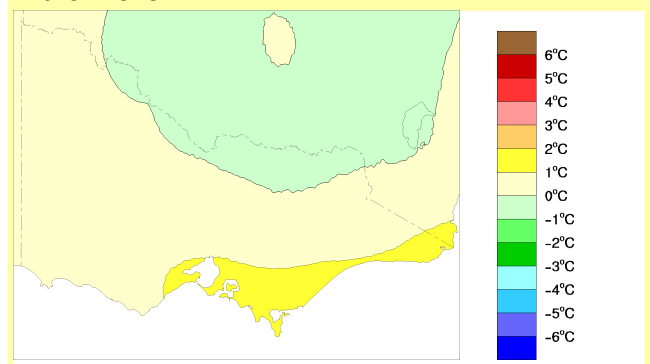
The hottest day was 36.6 °C at Walpeup Research on the 17th.

The warmest days on average were 28.9 °C at Mildura Airport, followed by 28.6 °C at Hopetoun Airport, Ouyen (Post Office) and Walpeup Research, followed by 28.1 °C at Kerang and Yarrawonga.

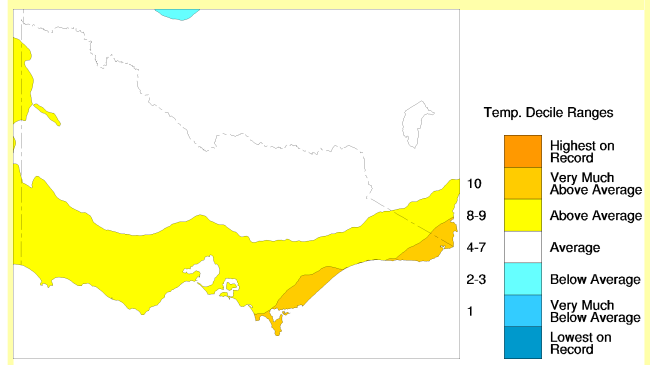
The coolest day was 4.3 °C at Mount Baw Baw on the 10th.

The coolest days on average were 13.1 °C at Mount Hotham, followed by 14.2 °C at Mount Baw Baw, followed by 14.5 °C at Mount Buller.

### Anomalies of mean daily maximum temperature in March 2010



### Decile rank of mean daily maximum temperature in March 2010



*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.*

### Minimum temperatures

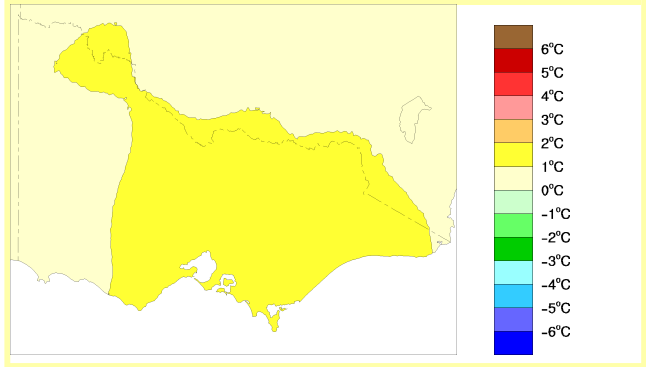
The coldest night was  $-1.1\text{ }^{\circ}\text{C}$  at Falls Creek on the 11th.

The coolest nights on average were  $6.6\text{ }^{\circ}\text{C}$  at Mount Hotham, followed by  $7.2\text{ }^{\circ}\text{C}$  at Mount Baw Baw, followed by  $7.5\text{ }^{\circ}\text{C}$  at Falls Creek.

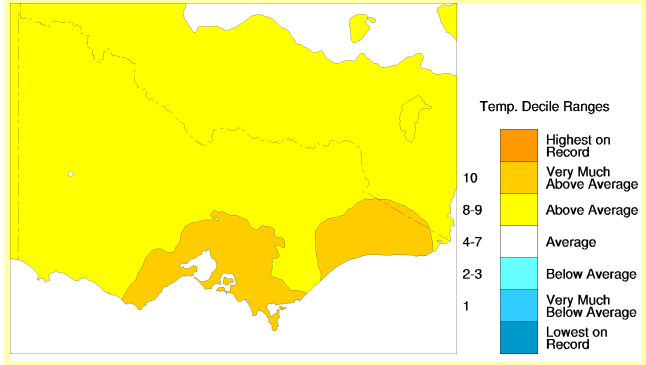
The warmest nights on average were  $16.3\text{ }^{\circ}\text{C}$  at Melbourne Regional Office, followed by  $16.2\text{ }^{\circ}\text{C}$  at Wilsons Promontory Lighthouse, followed by  $16.1\text{ }^{\circ}\text{C}$  at Gabo Island Lighthouse.

The warmest night was  $23.0\text{ }^{\circ}\text{C}$  at Melbourne Regional Office on the 19th.

### Anomalies of mean daily minimum temperature in March 2010



### Decile rank of mean daily minimum temperature in March 2010



*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.*

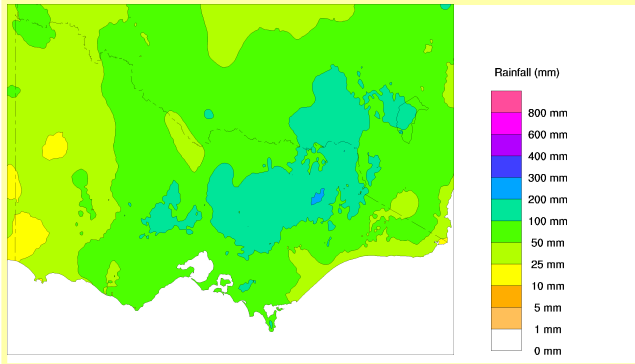
## Rainfall

Total rainfall for the month was generally much more than that usually recorded (average percentage of normal received during the month 217.6%).

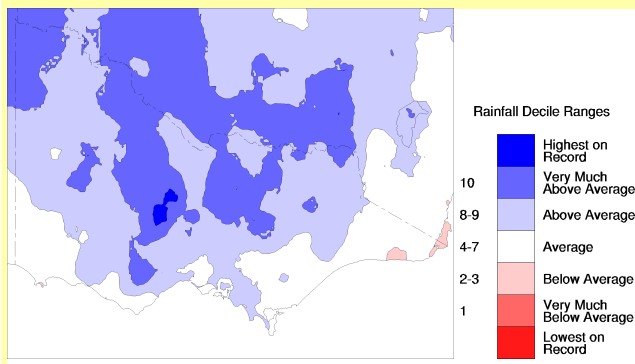
The wettest overall was 232.0 mm at Falls Creek (Rocky Valley).

The wettest single day was 115.0 mm at Walwa on the 8th.

### Total rainfall in March 2010



### Decile rank of total rainfall in March 2010



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.

## New rainfall records

### Record highest March daily rainfall

	New record	Old record	Years of record
Yan Yean	86.2 on the 8th	83.8 on the 22nd in 1970	132
Avoca (Post Office)	73.0 on the 9th	64.3 on the 6th in 1910	125
Sedgwick	68.0 on the 6th	47.6 on the 16th in 1996	55
Cobram (Goulburn Murray)	60.0 on the 9th	58.4 on the 30th in 1973	50
Kyabram DPI	35.8 on the 8th	33.3 on the 20th in 1970	47
Irrewillipe (Tomahawk Creek)	69.0 on the 8th	53.6 on the 10th in 1989	46
Harcourt	46.6 on the 6th	43.2 on the 22nd in 1970	42
Rockbank (Melton)	50.6 on the 7th	40.0 on the 3rd in 1999	42
Smeaton (Blampied (Bardia))	47.2 on the 7th	35.6 on the 25th in 1984	41
Glen Waverley (Golf Course)	38.0 on the 8th = 38.0 on the 8th in 1995		37
Noojee (Slivar)	56.0 on the 7th	35.6 on the 29th in 1982	29
Monbulk (Bulb Farm)	77.0 on the 9th	52.2 on the 21st in 1989	27
Morwell (Latrobe Valley Airport)	58.0 on the 7th	47.8 on the 21st in 1989	27
Rushworth (Raglus)	53.0 on the 6th	29.2 on the 10th in 1994	26
Upper Plenty	64.6 on the 8th	61.4 on the 21st in 1989	25
Wangaratta Aero	71.0 on the 8th	67.6 on the 21st in 1989	23
Noojee Forestry	36.2 on the 7th	31.2 on the 30th in 1996	21

### Record highest March total rainfall

	New record	Old record	Years of record
Campbelltown	116.8	109.8 in 1947	118
Tullaroop Reservoir	103.2	96.2 in 1932	110
Joyces Creek	125.8	124.2 in 1913	91
Eberys	103.0	100.9 in 1947	70
Sedgwick	138.4	120.9 in 1959	56
Mangalore Airport	126.0	109.7 in 1970	51
Kyabram DPI	100.0	84.6 in 1989	47
Irrewillipe (Tomahawk Creek)	131.6	118.0 in 1984	46
Eastville (Bonnie Banks)	69.8	69.2 in 1969	42
Harcourt	138.6	98.5 in 1969	42
Kanumbra (Brilliant Estate)	149.2	138.8 in 1989	41
Smeaton (Blampied (Bardia))	129.0	94.6 in 2001	41
Tabilk (Tabilk Winery)	128.4	122.8 in 1970	41
Woodstock-on-Loddon (Alexandra Park)	80.4	69.7 in 1970	41
Tatura (Thiess Services)	127.0	85.0 in 1978	37
Strath Creek	96.8	96.4 in 1989	28
Rushworth (Raglus)	126.8	73.8 in 1989	25
Avoca (Homebush)	70.4	63.6 in 1996	23
Majorca	77.6	67.2 in 2001	23

### Highest March total rainfall for at least 20 years

	Observed this month	Most recent higher	Years since higher
Newstead	107.2	119.7 in 1924	85
Yandoit	98.9	104.9 in 1924	71
Beeac (Post Office)	103.0	135.3 in 1941	68
Warrion	80.2	85.5 in 1947	63
Cairn Curran Reservoir	80.2	86.2 in 1949	60
Seymour Shire Depot	131.7	174.0 in 1950	60
Avenel (Post Office)	141.8	198.4 in 1950	59
Cressy	82.4	83.1 in 1946	58
Nagambie (Goulburn Weir)	140.8	286.1 in 1950	55
Mansfield (Post Office)	117.8	138.1 in 1956	54
Bonnie Doon Garage	136.6	139.5 in 1956	53
Rushworth	127.8	138.1 in 1956	53
Strathbogie North	200.0	260.5 in 1956	51
Lismore (Post Office)	78.4	79.3 in 1959	50
Mooroopna	120.8	177.2 in 1956	50
Murchison	118.2	130.0 in 1956	50
Redesdale	104.2	112.1 in 1959	50
Carisbrook	88.3	90.2 in 1959	45
Murray Lock Number 9	66.4	114.5 in 1969	41
Tatura Inst Sustainable Ag	98.8	114.5 in 1969	41
Alexandra (Post Office)	118.2	136.1 in 1970	40
Bannockburn	71.4	72.1 in 1970	40
Highlands (Glentannar)	127.4	132.5 in 1970	40
Lake Eildon	114.2	121.0 in 1970	40
Rockbank (Melton)	83.3	119.0 in 1970	40
Ballarat Aerodrome	117.2	132.3 in 1970	39
Barnawartha	86.6	189.6 in 1956	39
Raywood	85.6	105.5 in 1969	39
Benloch	134.3	160.9 in 1970	37
Portarlinton	93.5	121.1 in 1970	37
Colac (Shire Office)	86.2	86.4 in 1973	36
Lancefield	102.2	156.6 in 1970	36
Beaconsfield Upper	144.5	234.4 in 1970	34
Merrinee	45.2	52.4 in 1974	34
Woods Point	148.4	151.5 in 1970	34
Werrimull	52.2	60.0 in 1974	32
Boort (Gredgwin)	76.4	115.6 in 1983	27
Bridgewater (Post Office)	76.2	84.4 in 1983	27
Charlton (Donald St)	73.8	113.4 in 1983	27
Inglewood (Post Office)	75.0	99.8 in 1983	27
Korong Vale (Burnbank)	73.4	91.6 in 1983	27
Lake Boga	74.0	94.0 in 1983	27
Lake Marmal	73.7	120.2 in 1983	27
Manangatang (Eureka East)	62.0	91.6 in 1983	27
Maryborough	75.7	83.6 in 1983	27
Natte Yallock	81.2	110.0 in 1983	27
Nyah (Yarraby Tank)	65.2	115.6 in 1983	27
Pira Wild Horse Plains	80.0	134.0 in 1983	27
Prairie West	63.4	70.0 in 1983	27
Quambatook (Barraport North)	86.4	106.4 in 1983	27
Sea Lake (Post Office)	52.4	72.0 in 1983	27
Tutye (Bunurouk)	48.2	68.2 in 1983	27

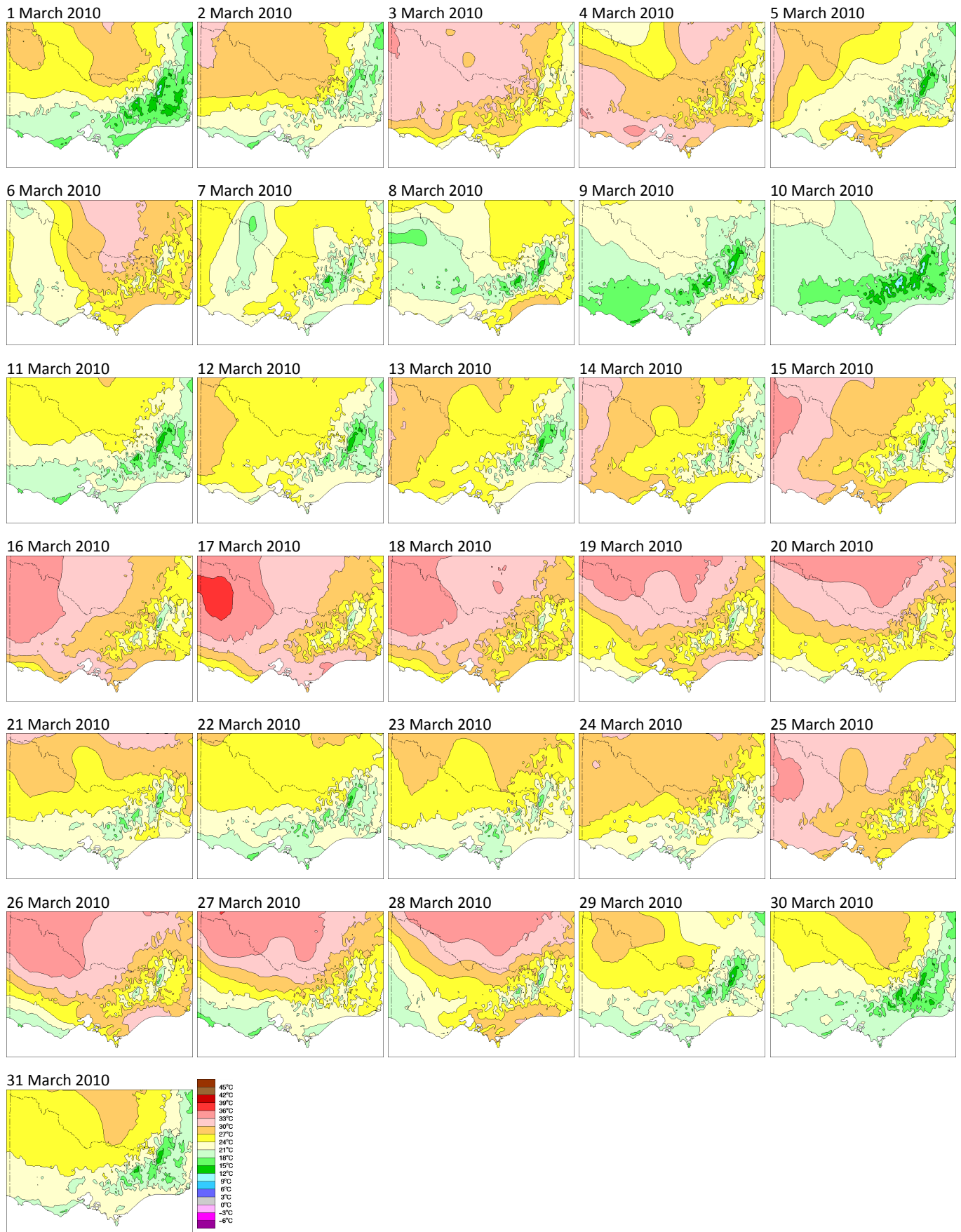
## Highest March total rainfall for at least 20 years

	Observed this month	Most recent higher	Years since higher
Warracknabeal Museum	51.4	73.5 in 1983	27
Beaufort (Sheepwash)	72.8	105.4 in 1984	26
Beulah West	49.0	95.0 in 1983	26
Bungaree (Kirks Reservoir)	105.6	109.6 in 1984	26
Burkes Flat	65.2	84.2 in 1983	26
Clunes	100.0	108.6 in 1984	26
Dunolly	76.0	107.2 in 1983	26
Glen Park (White Swan Reservoir)	126.2	127.4 in 1984	26
Glenthompson	51.9	83.0 in 1984	26
Horsham Polkemmet Rd	39.8	59.8 in 1984	26
Kerang Model Farm	62.2	97.0 in 1983	26
Longerenong	67.4	100.1 in 1984	26
Natimuk	47.0	57.6 in 1984	26
Navarre (Avon No.3)	66.8	93.2 in 1984	26
Nyah	69.6	107.0 in 1983	26
Quambatook South	73.0	134.4 in 1983	26
Skipton Post Office	82.8	93.4 in 1984	26
St Arnaud	82.6	136.0 in 1983	26
Wickliffe	53.0	79.4 in 1984	26
Avoca (Post Office)	80.8	85.4 in 1984	25
Beaufort	82.4	110.2 in 1984	25
Boundary Bend	62.4	80.0 in 1983	25
Drung Drung	49.2	109.6 in 1984	25
Horsham	43.2	64.4 in 1984	25
Lexton	79.1	90.2 in 1984	25
Murrayville (Ngallo)	40.6	116.4 in 1983	25
Navarre	68.0	73.6 in 1984	25
Redbank	73.5	86.8 in 1984	25
Wedderburn (Post Office)	81.4	130.2 in 1983	25
Barkly	63.6	87.4 in 1984	24
Essendon Airport	82.0	154.1 in 1970	24
Korumburra Sth Gippsland Water	113.4	123.8 in 1984	24
Moonambel	72.0	83.4 in 1984	24
Talbot (Post Office)	80.2	87.0 in 1984	24
Ultima (Post Office)	75.2	104.0 in 1983	23
Halls Gap (Post Office)	81.6	143.4 in 1984	22
Aberfeldy (Lily Creek (Larommi))	87.2	107.4 in 1989	21
Annuello	55.2	58.6 in 1989	21
Baringhup (Blue Hills)	55.0	95.4 in 1989	21
Beechworth Woolshed	97.8	119.9 in 1989	21
Berwick (Buchanan Road)	90.0	102.8 in 1989	21
Buxton	123.0	161.0 in 1989	21
Caniambo	99.4	137.6 in 1989	21
Carboor	90.4	193.2 in 1989	21
Castlemaine Prison	89.8	98.8 in 1989	21
Cobram (Goulburn Murray)	67.0	91.0 in 1989	21
Creightons Creek (Baronga (Creighton's C	134.0	160.4 in 1989	21
Echuca Aerodrome	49.0	66.0 in 1989	21
Edi Upper	129.2	208.0 in 1989	21
Eldorado	75.2	113.6 in 1989	21
Elmore	52.7	88.2 in 1989	21
Eurobin	121.8	191.0 in 1989	21
Gladfield Hopefield Estate	85.4	101.2 in 1989	21
Goorambat	95.2	126.5 in 1989	21
Hesket (Straws Lane)	99.4	131.0 in 1989	21
Koetong	152.6	251.9 in 1989	21
Koo Wee Rup (SRW)	70.4	84.6 in 1989	21
Kotta	53.2	63.6 in 1989	21
Kyneton	79.6	126.6 in 1989	21
Lake Buffalo	115.6	170.2 in 1989	21
Lindsay Point	56.2	68.6 in 1989	21
Longwood	118.1	139.2 in 1989	21
Malmsbury Reservoir	81.6	124.4 in 1989	21
Milawa Brown Bros	125.2	148.6 in 1989	21
Mildura Airport	35.8	65.6 in 1989	21
Molka (Lowana)	101.0	130.0 in 1989	21
Molyullah (Killanoola)	98.0	171.2 in 1989	21
Morwell (Latrobe Valley Airport)	86.6	125.0 in 1989	21
Myrree (Joelyn)	116.2	184.4 in 1989	21
Nariel Creek (Simpson)	127.4	197.8 in 1989	21
Nulkwyne Kiamal	26.8	47.5 in 1989	21
Nyora (Post Office)	97.0	99.8 in 1989	21
Omeo Shannon Vale	108.2	160.4 in 1989	21
Ouyen (Post Office)	38.8	42.8 in 1989	21
Prahran (Como House)	85.2	85.4 in 1989	21
Red Cliffs (Post Office)	33.2	74.2 in 1989	21

## Highest March total rainfall for at least 20 years

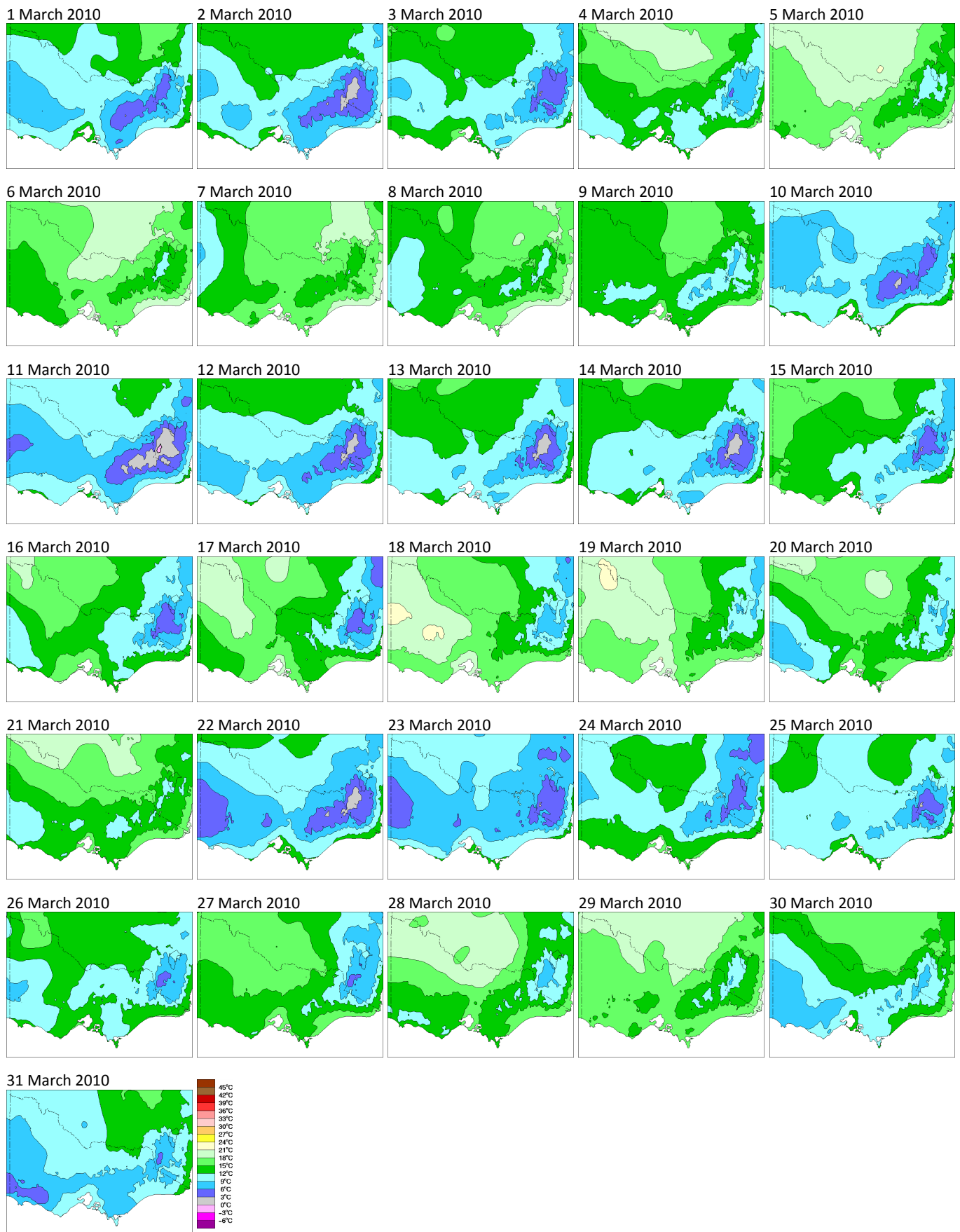
	Observed this month	Most recent higher	Years since higher
Rochester	58.6	78.4 in 1989	21
Rutherglen Research	77.2	94.4 in 1989	21
Stanhope	62.4	98.8 in 1989	21
Strathbogie	153.6	160.4 in 1989	21
Tongala	59.0	102.8 in 1989	21
Vaughan	90.0	131.8 in 1989	21
Wallan	102.4	119.2 in 1989	21
Walwa	198.0	243.6 in 1989	21
Wangaratta Aero	122.2	131.3 in 1989	21
Warragul	87.4	104.2 in 1989	21
Whitfield	145.6	197.4 in 1989	21
Whitlands (Burder's Lane)	157.8	212.2 in 1989	21
Yea	99.8	102.0 in 1989	21
Boigbeat	54.8	63.6 in 1989	20
Burrowye Station	151.3	175.8 in 1989	20
Canary Island	65.5	95.5 in 1989	20
Culgoa	68.4	89.6 in 1989	20
Dingee	61.8	70.0 in 1983	20
Kerang (Meran Downs)	63.6	69.6 in 1989	20
Korumburra	96.6	113.1 in 1989	20
Lauriston Reservoir	78.4	119.0 in 1989	20
Mincha	55.8	65.6 in 1989	20
Moliagul	73.0	102.0 in 1989	20
Murchison (Arcadia (Sunnyville))	109.4	122.4 in 1989	20
Springhurst	87.2	97.0 in 1989	20
Towong Upper	96.6	167.2 in 1989	20
Upper Plenty	102.8	105.4 in 1989	20
Violet Town	100.1	135.3 in 1989	20
Yackandandah	121.4	141.0 in 1989	20
Yan Yean	115.0	120.0 in 1989	20

## Daily maximum temperature for March 2010



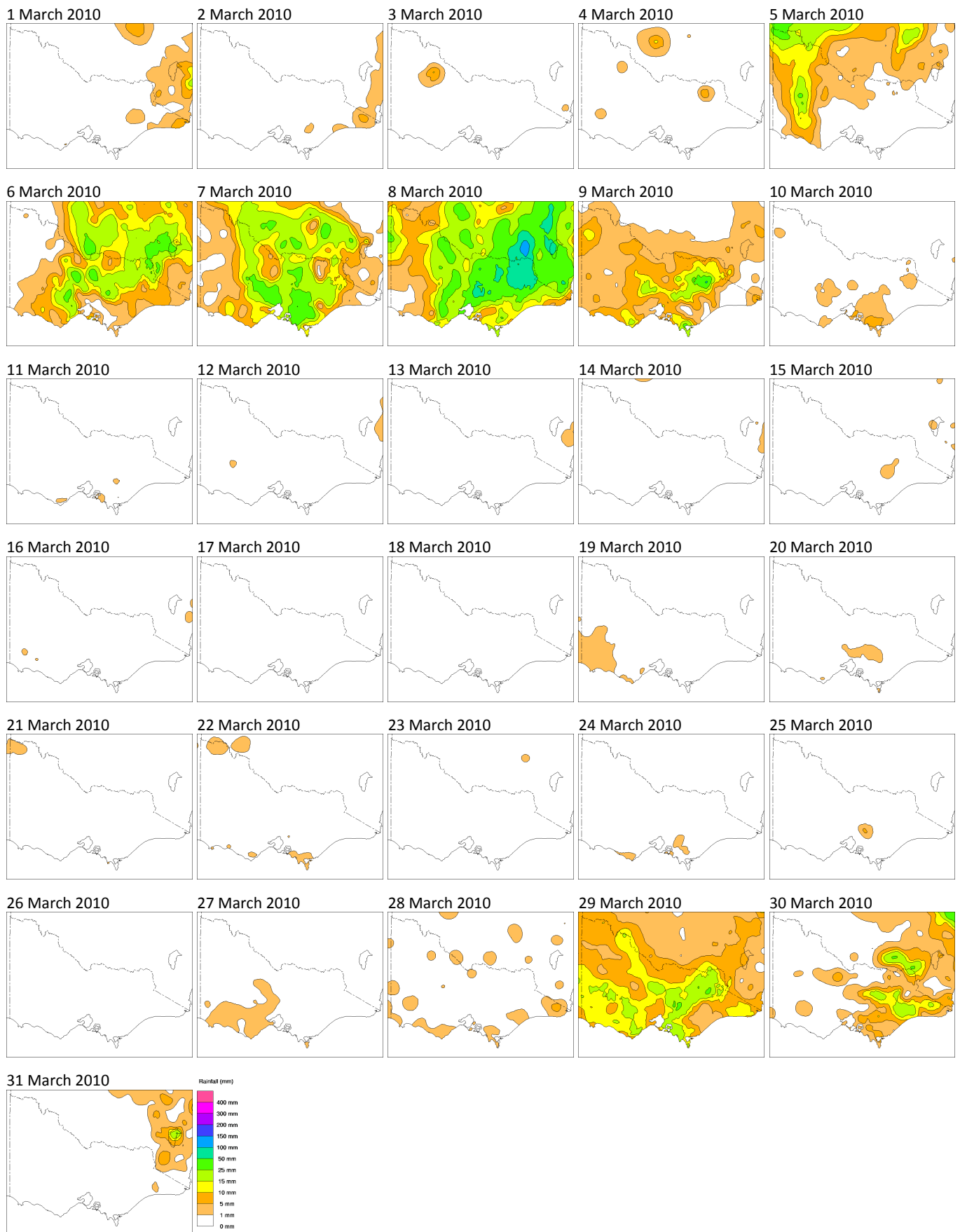
*These maps are presented to give a statewide overview of conditions on each day through the month. There could be discrepancies between the values shown on these maps and those at individual locations, as a result of the way the maps are generated.*

## Daily minimum temperature for March 2010



*These maps are presented to give a statewide overview of conditions on each day through the month. 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.*

# Daily rainfall for March 2010



*These maps are presented to give a statewide overview of conditions on each day through the month. 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.*

### Summary of observations for Melbourne in March 2010

Observations and climatology are from the city, except for evaporation, sunshine and wind which are from Melbourne Airport.

	Observed this month		Climatological value	
<b>Temperature</b>				
Mean daily maximum temperature	26.2 °C		23.9 °C	
Mean daily minimum temperature	16.3 °C		13.2 °C	
Mean temperature	21.2 °C		18.5 °C	
Mean temperature at 9 am	18.7 °C		17.5 °C	
Mean temperature at 3 pm	24.6 °C		22.8 °C	
Highest temperature	33.0 °C	on the 17th	41.7 °C	on the 11th in 1940
Lowest temperature	11.1 °C	on the 12th	2.8 °C	on the 17th in 1884
Days 30 °C or warmer	7		5.0	
Days 35 °C or warmer	0		1.0	
Nights 5 °C or cooler	0		0.1	
Nights 2 °C or cooler	0		0.0	
<b>Humidity</b>				
Mean relative humidity at 9 am	65 %		68 %	
Mean relative humidity at 3 pm	45 %		49 %	
<b>Pressure</b>				
Mean MSL pressure at 9 am	1020.7 hPa		1018.4 hPa	
Mean MSL pressure at 3 pm	1019.0 hPa		1016.5 hPa	
<b>Wind</b>				
Strongest wind gust	WSW 102 km/h	on the 6th	N 113 km/h	on the 26th in 1984
Mean wind speed at 9 am	17 km/h		17 km/h	
Mean wind speed at 3 pm	22 km/h		20 km/h	
Days with strong wind	3		4.5	
Days with gales	1		0.7	
Days with gale-force gusts	2		4.1	
<b>Rainfall</b>				
Total precipitation	84.8 mm		50.4 mm	
Number of rain days	10		9.4	
Wettest day	39.2 mm	on the 7th	90.2 mm	on the 5th in 1919
<b>Sunshine</b>				
Mean daily sunshine	7.5 hours		7.5 hours	
<b>Evaporation</b>				
Mean daily evaporation	6.0 mm		5.9 mm	
<b>Phenomena</b>				
Days of thunder	2		1.4	
Days of hail	1		0.1	
Days of frost	0		0.0	
Days of fog	0		1.0	
Days with mist or haze	22		19.9	

### Daily and mean maximum temperatures for March 2010

Mean is the average of the daily maximum temperature for March 2010; it is only shown if there are sufficient days available. Anom is the difference between the mean daily maximum temperature for March 2010 and the long-term average maximum temperature for March. Decile is the decile rank of mean daily maximum temperature for March 2010 in the climate record of other March mean daily maximum temperatures; "L" indicates this is the lowest on record, and "H" it is the highest on record. Anomalies and deciles are only shown if there are sufficient years of climate record available. The lowest and highest maximum temperatures for each site for March 2010 are highlighted.

Table with columns for location, Mean, Anom, Decile, and 31 daily temperature values. Locations include North Mallee (76), South Mallee (77), North Wimmera (78), South Wimmera (79), Lower North (80), Upper North (81), Lower Northeast (82), Upper Northeast (83), East Gippsland (84), West Gippsland (85), East Central (86), West Central (87), North Central (88), and Western Plains (89). Each row lists a location and its corresponding weather data for March 2010.

### Daily and mean maximum temperatures for March 2010

**Mean** is the average of the daily maximum temperature for March 2010; it is only shown if there are sufficient days available. **Anom** is the difference between the mean daily maximum temperature for March 2010 and the long-term average maximum temperature for March.

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Casterton	25.2			20.3	23.6	30.5	32.7	27.5	24.1	24.7	21.7	18.3	19.9	20.7	27.9	29.1	30.4	31.5	31.8	29.4	28.8	25.1	25.4	22.8	22.5	24.1	26.4	32.0	21.1	21.1	20.8	21.8	22.0	23.3
Colac (Mount Gellibrand)	23.1	+0.1	7	17.8	21.1	27.6	33.1	24.7	22.5	22.9	19.7	15.5	16.8	17.4	23.4	25.8	27.0	29.2	31.1	28.8	30.5	23.9	24.1	20.5	19.6	20.8	22.8	30.2	20.6	17.7	22.4	19.8	20.1	20.0
Dartmoor	24.5			19.9	22.4	30.6	33.6	26.8	24.9	25.4	23.2	18.0	19.6	20.0	27.5	30.4	31.1	32.3	29.7	27.1	25.9	24.6	24.3	22.0	20.4	21.4	26.2	32.7	20.0	17.5	19.2	20.4	21.4	22.2
Hamilton Airport	24.4	+0.2	6	20.3	22.8	30.3	32.5	24.2	20.3	21.6	21.0	18.3	18.7	19.5	26.1	27.8	28.5	30.5	31.7	30.1	30.8	24.1	24.8	22.7	22.0	23.5	24.9	31.1	22.2	21.2	20.8	21.5	20.7	21.7
Mortlake Racecourse	23.6	-0.1	5	19.7	21.3	30.9	33.2	21.3	21.8	22.9	22.5	16.8	18.0	18.7	24.9	26.9	28.6	30.0	30.4	28.5	27.7	23.4	24.3	21.3	20.0	21.0	23.2	31.8	20.4	18.4	21.5	20.0	19.7	21.9
Port Fairy AWS	21.8	+0.3	8	18.2	20.1	21.1	24.1	20.3	20.4	21.8	25.2	18.3	18.6	19.1	21.4	23.6	31.2	33.1	22.2	23.6	23.3	22.8	20.6	21.2	20.1	21.4	20.0	30.0	18.9	18.0	18.5	20.3	19.5	20.4
Portland (Cashmore Airport)	21.5	+0.5	7	16.9	18.5	23.2	28.4	19.6	21.0	21.4	22.1	17.1	18.0	17.8	21.2	26.3	29.2	31.0	22.9	23.1	23.3	21.9	21.8	20.2	17.9	19.6	21.2	29.0	18.1	16.8	20.4	19.0	19.2	19.3
Warrnambool Airport NDB	22.6	-0.4	4	19.0	20.1	26.1	33.0	19.3	20.9	24.1	23.3	17.0	17.8	17.9	23.5	26.5	28.6	31.4	26.9	25.1	23.8	23.1	22.2	20.7	18.7	20.4	20.9	31.3	19.9	17.9	20.5	19.6	19.3	21.0
Weepproinah	19.2	+0.8	7	13.2	15.2	24.0	28.4	19.4	19.6	18.2	18.1	12.7	13.9	14.2	20.6	22.5	23.7	25.5	27.0	22.7	25.0	17.3	18.4	16.2	15.3	15.0	19.2	25.5	17.2	18.5	19.3	16.1	15.5	17.0

Daily and mean minimum temperatures for March 2010

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### Daily and mean minimum temperatures for March 2010

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Casterton	11.3			8.4	10.9	12.6	11.6	16.4	13.4	14.0	9.5	12.6	9.3	8.0	9.2	9.9	11.9	17.4	8.5	12.1	18.1	17.6	7.0	11.2	4.1	5.3	13.2	10.6	9.7	14.3	12.9	15.6	6.8	6.7
Colac (Mount Gellibrand)	13.0	+1.5	H	8.9	10.1	13.8	13.6	17.2	14.9	15.2	13.6	12.1	9.8	10.3	11.0	12.7	13.3	15.7	17.3	18.6	17.1	16.4	12.2	12.6	9.4	8.4	12.9	12.7	13.0	12.6	13.2	15.0	9.5	10.4
Dartmoor	11.4			9.3	13.3	15.3	10.1	14.4	14.3	12.8	12.2	12.8	11.5	10.8	7.2	10.2	9.8	15.2	11.4	12.6	15.7	17.7	7.8	10.9	5.1	8.1	14.4	9.8	9.8	11.7	11.7	15.3	7.9	5.1
Hamilton Airport	11.2	+1.1	9	8.2	7.9	10.0	10.7	16.0	13.6	13.2	11.6	12.0	9.6	9.2	6.7	8.6	11.3	15.1	12.7	14.4	18.4	16.8	7.7	12.1	5.3	6.5	12.8	10.7	12.2	12.9	11.7	15.6	7.1	6.0
Mortlake Racecourse	10.9	+1.1	9	7.9	6.6	9.9	11.8	16.6	13.1	15.3	13.0	12.6	11.6	10.9	6.6	9.6	10.3	11.9	10.6	11.9	17.2	16.4	6.7	11.4	6.3	6.3	14.0	8.6	8.1	13.7	11.7	15.8	6.6	5.1
Port Fairy AWS	13.3	+0.3	8	13.8	14.6	15.6	9.8	15.3	14.7	15.6	11.0	13.8	12.6	12.9	14.6	12.2	11.6	13.6	13.4	12.1	16.5	17.6	10.3	13.3	14.1	14.8	14.9	11.5	11.7	15.6	12.2	15.4	9.4	6.4
Portland (Cashmore Airport)	12.1	+0.4	8	12.0	13.2	14.8	11.4	14.0	13.8	13.2	10.8	13.4	11.6	11.6	10.6	9.6	11.0	13.8	11.7	13.2	17.4	16.7	9.9	11.7	6.7	12.6	12.4	11.1	14.2	13.6	11.8	14.4	7.2	5.9
Warrnambool Airport NDB	11.7	+1.2	H	11.3	13.6	15.0	9.5	15.1	14.0	14.7	12.3	13.0	11.9	11.5	6.8	11.6	10.9	12.4	10.3	12.0	17.0	17.2	8.3	12.7	8.4	7.9	14.4	9.1	10.0	13.5	11.9	15.5	7.5	4.6
Weepproinah	12.0	+1.4	9	9.3	9.5	11.6	12.3	16.7	12.8	13.5	12.3	11.0	7.9	7.8	9.3	12.2	14.9	15.5	14.6	18.1	16.4	16.0	11.8	10.9	9.0	9.8	11.8	9.4	13.6	10.7	11.4	13.2	9.3	9.1





