

Climate extremes: Student worksheet

The data about Australia's climate extremes comes from the Bureau of Meteorology (www.bom.gov.au).

Ugh! It is really hot this afternoon!

You think today was hot? Here are the hottest places in each state of Australia, starting with the hottest.

State	Temperature (°C)	Date	Place name	Latitude	Longitude
South Australia	50.7	2 January 1960	Oodnadatta Airport	-27.56	135.45
Western Australia	50.5	19 February 1998	Mardie	-21.19	115.98
New South Wales	49.7	10 January 1939	Menindee Post Office	-32.39	142.42
Queensland	49.5	24 December 1972	Birdsville Police Station	-25.90	139.35
Victoria	48.8	7 February 2009	Hopetoun Airport	-35.72	142.36
Northern Territory	48.3	2 January 1960	Finke Post Office	-25.58	134.57
	48.3	1 January 1960	Finke Post Office	-25.58	134.57
Tasmania	42.2	30 January 2009	Scamander	-41.46	148.26

Highest temperature

Look up the location of each place in an atlas or online. A negative latitude means south of the equator.

Why is the hottest place the one in the centre of the continent?

Notice the months. In which month is the hottest day of the year where you live? Can you find the statistics on the Bureau of Meteorology site (bom.gov.au) to support your answer?



Brr! It was really cold this morning!

You think it was cold where you are? Here are the coldest places in each state of Australia.

Lowest temperature

State	Temperature (°C)	Date	Place name	Latitude	Longitude
New South Wales	-23.0	29 June 1994	Charlotte Pass (Kosciusko Chalet)	-36.43	148.33
Tasmania	-13.0	30 June 1983	Tarraleah Village	-42.30	146.45
	-13.0	30 June 1983	Butlers Gorge	-42.28	146.27
	-13.0	30 June 1983	Shannon HEC	-42.05	146.75
Victoria	-11.7	3 July 1970	Falls Creek	-36.87	147.28
	-11.7	15 June 1965	Omeo Comparison	-37.10	147.60
Queensland	-10.6	12 July 1965	Warwick (The Hermitage)	-28.21	152.10
	-10.6	23 June 1961	Stanthorpe (Leslie Parade)	-28.66	151.93
South Australia	-8.2	20 July 1976	Yongala	-33.03	138.75
Northern Territory	-7.5	17 July 1976	Alice Springs Airport	-23.80	133.89
Western Australia	-7.2	17 August 2008	Eyre	-32.25	126.00

What is it about these places that makes them so cold?

Notice the months. In which month is the coldest day of the year where you live? Can you find the statistics on the Bureau of Meteorology site (www.bom.gov.au) to support your answer?

That was a cloudburst! There is so much rain!

You think that is a lot of rain for one day?

Rainfall – highest daily

State	Rainfall (mm)	Date	Place name	Latitude	Longitude
Queensland	907.0	3 February 1893	Crohamhurst	-26.81	152.87
New South Wales	809.2	21 February 1954	Dorrigo (Myrtle Street)	-30.34	152.71
Western Australia	747.0	3 April 1898	Whim Creek	-20.84	117.84
Northern Territory	544.6	15 April 1963	Roper Valley	-14.93	134.01
Victoria	377.8	23 March 2011	Tidal River	-39.03	146.32
Tasmania	352.0	22 March 1974	St Marys (Cullenswood)	-41.59	148.13
South Australia	272.6	14 March 1989	Motpena	-31.19	138.28

What is it about these places that makes them so wet?

What is the normal rainfall in those months in your area? Which month is the wettest in your area?