My Country

I love a sunburnt country, A land of sweeping plains, Of ragged mountain ranges, Of drought and flooding rains. I love her far horizons, I love her jewel-sea, Her beauty and her terror – The wide brown land for me!



https://en.wikipedia.org/wiki/Dorothea_Mackellar

Dorethea Mackellar

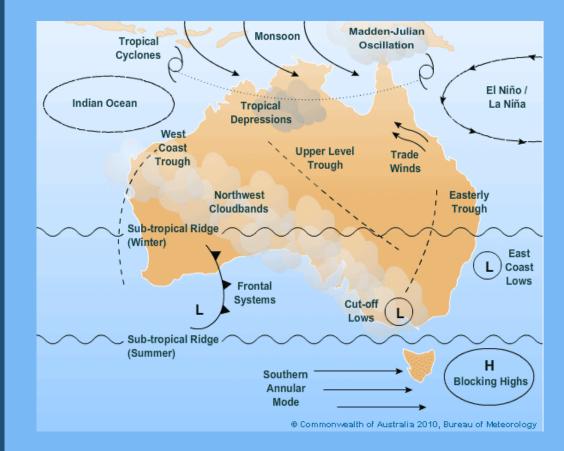


What do extremes in Australia look like?

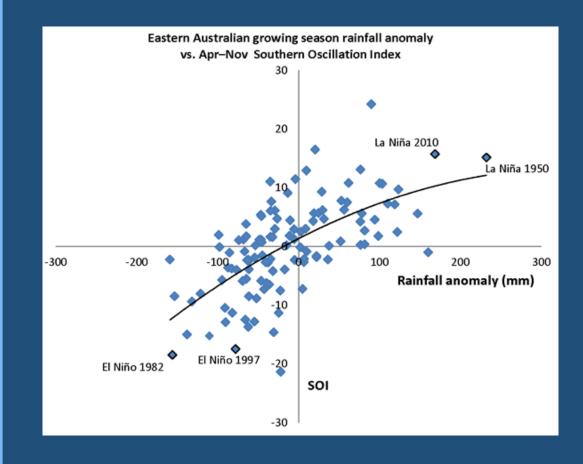
- Australia is prone to drought partly because of its geography
- Over most of the country rainfall is low and erratic - dry years, typically driven by El Nino events, lead to water shortages
- Major droughts, such as the Millennium drought of 1997–2010 have had a significant negative impacts
- Floods are the most costly natural disasters in Australia
- Floods have always been a part of Australia's ecology with La Nina events bringing increased rainfall across much of Australia
- Major floods, such as the series of floods which hit Queensland, beginning in November 2010 resulted in forced evacuation of hundreds of thousands of people



Climate drivers



Rainfall anomalies







egio

Bureau of Meteorology



Monsoonal wet and dry seasons, with differences in the timing between eastern and western parts.

Rainfall systems vary from seasonally reliable monsoonal influences in the far north through to very low and variable rainfall patterns in much of the centre and south.

Predominantly Mediterranean climate. with high winter rainfall and little summer rainfall.





Two seasons: wet season (Dec-Apr), dominated by north-westerly winds, and dry season (May-Nov) by south-easterly trade winds.

Some tropical influences in the north and some **temperate** influences in the **south**.

Sub-tropical in the north, through to temperate in the south, with a typically drier winter and wetter summer.

Relatively dry and temperate, with a warm and dry grassland climate in the north-west ranging to temperate with hot summers further east.

The dominant rain-bearing weather systems are cold fronts and troughs coming from the west.

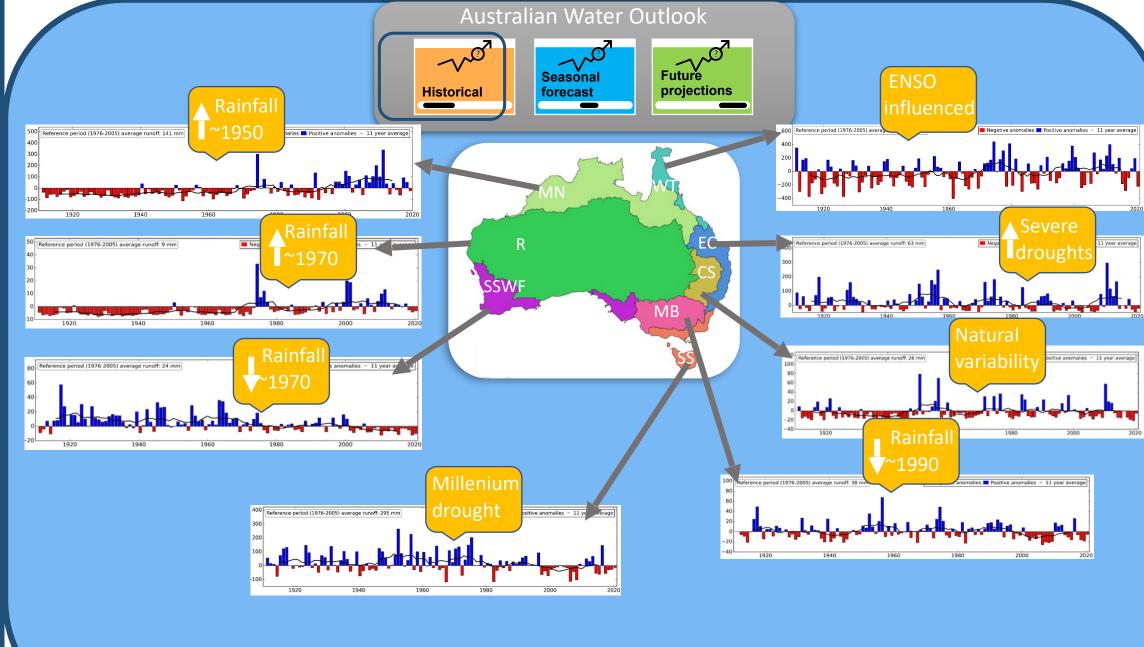




Past

Australian Government
Bureau of Meteorology









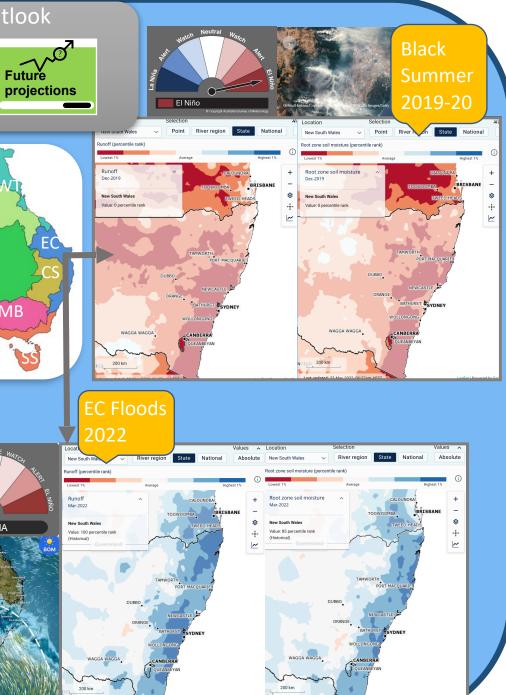
Seasonal

MB

LA NIÑA

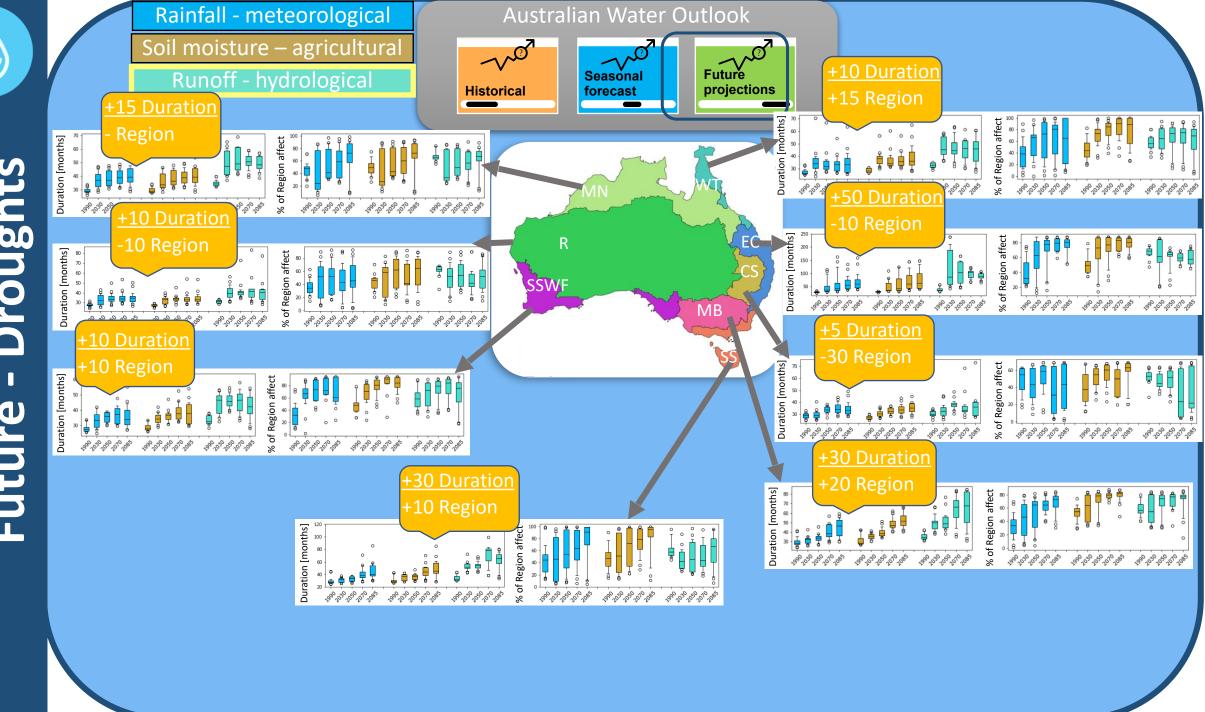
Forecast

forecast

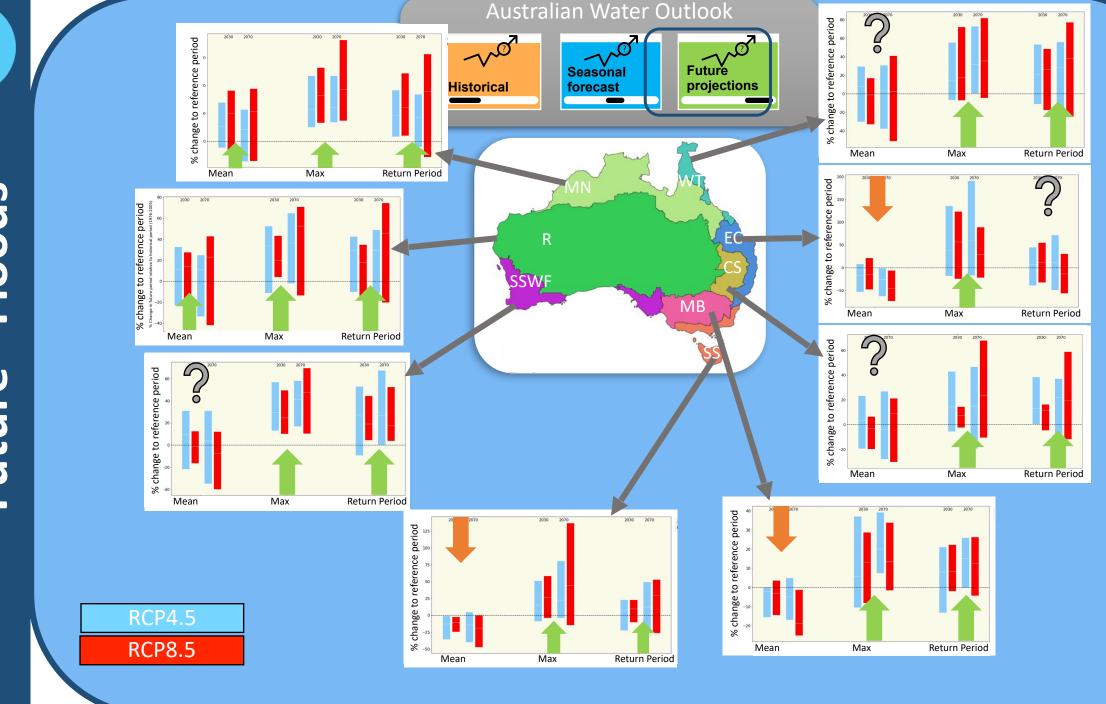




extremes roughts Hydrologica **Future**



extremes **Floods** Hydrologica Future







Longer fire season



More time spent in drought



Increase in floods

BUREAU OF METEOROLOGY

KNOW YOUR WEATHER. KNOW YOUR WEATHER.













