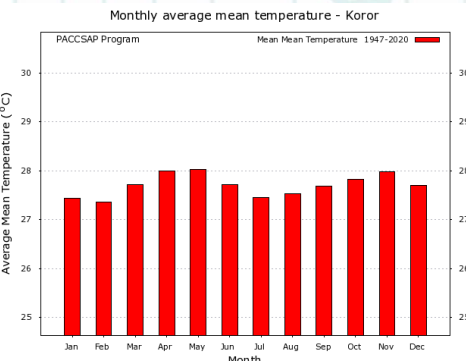
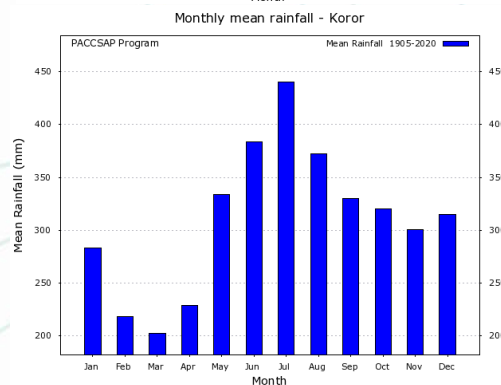
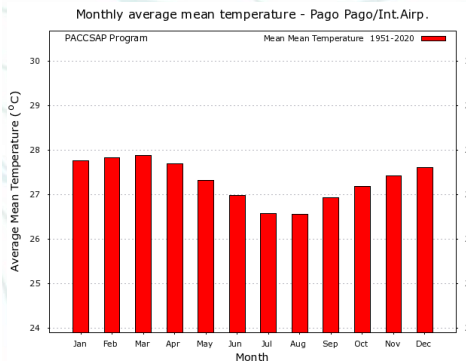
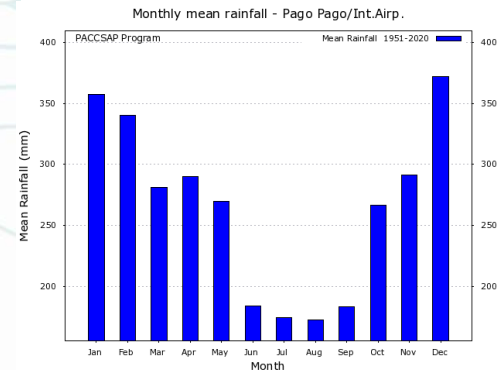
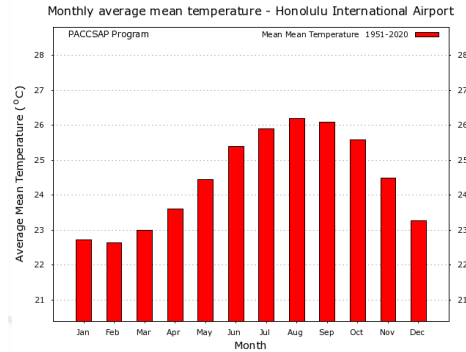
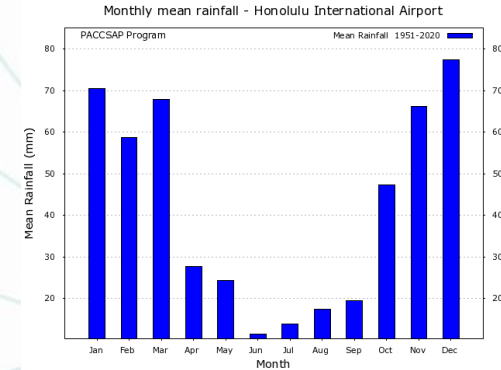


Background on seasonal forecasts for the Pacific

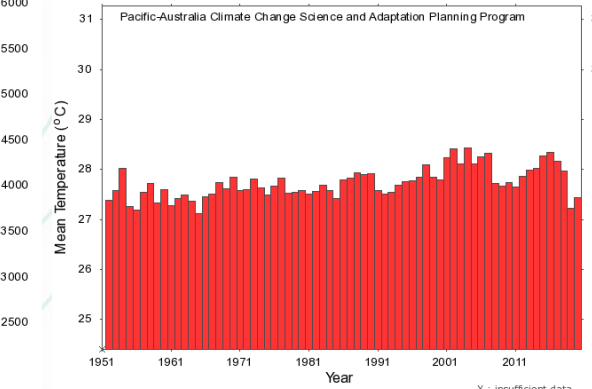
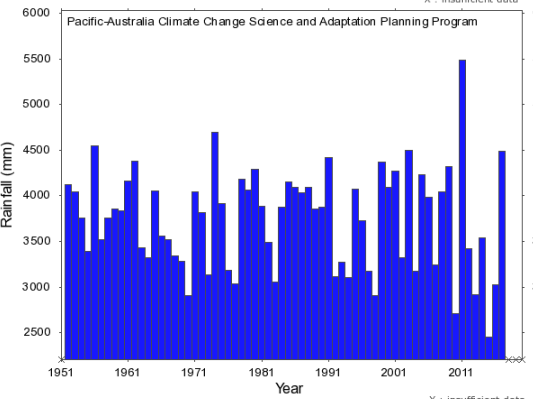
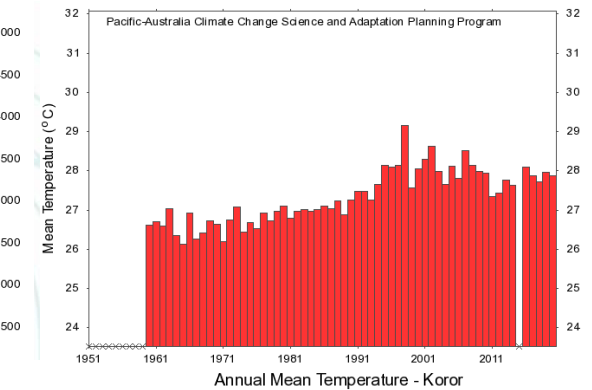
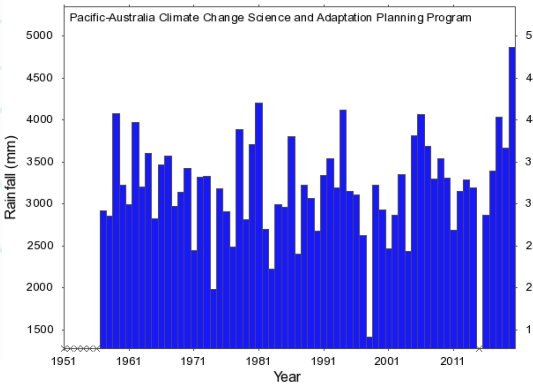
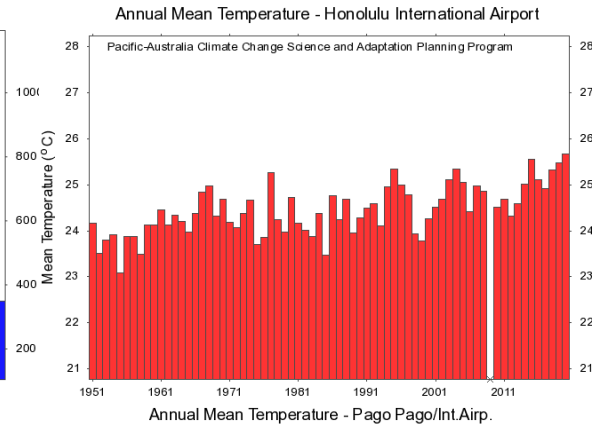
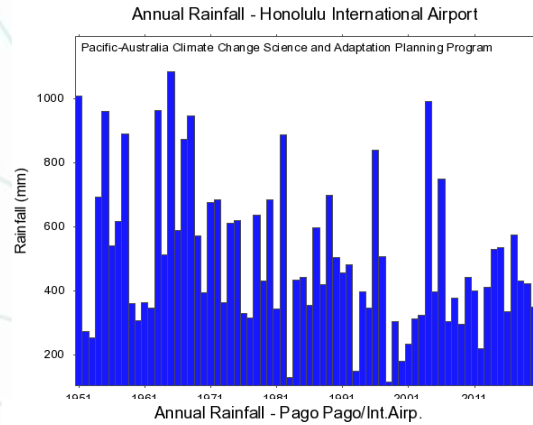
[Simon McGree, Australian Bureau of
Meteorology]

Average Pacific climate



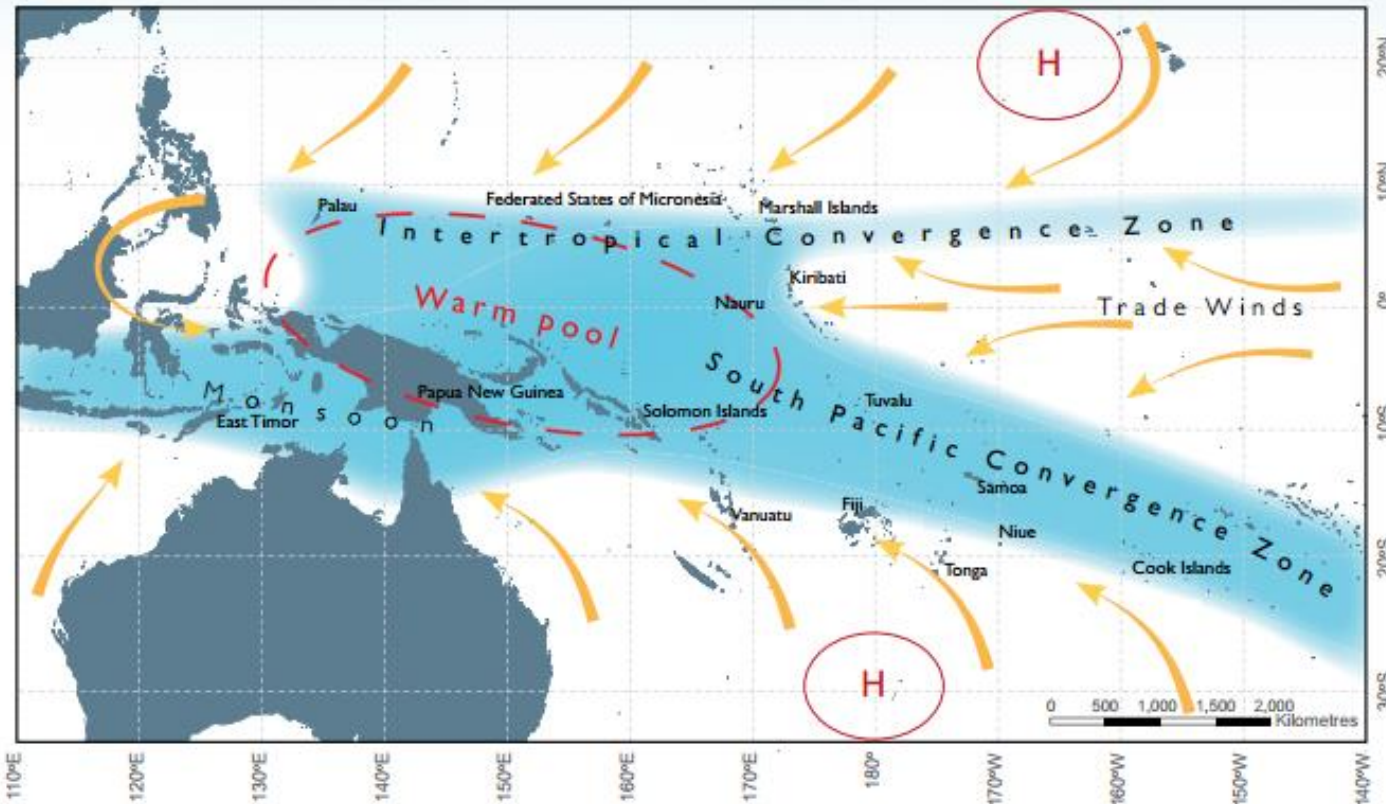
- Assume energy companies would appreciate a near constant climate with only seasonal variation
- This way they'd know exactly what rainfall, temperature, wind pattern and number of tropical cyclones to expect
- Highly beneficial for planning purposes

Significant year-to-year, decade-to-decade change



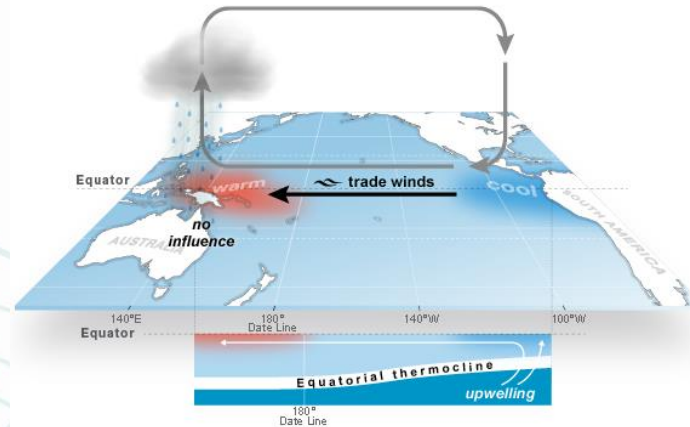
- What we experience is a lot more chaotic.
- Significant year to year variability
- Decade to decade variability
- Climate change makes the situation even more complicated

Drivers of Pacific climate



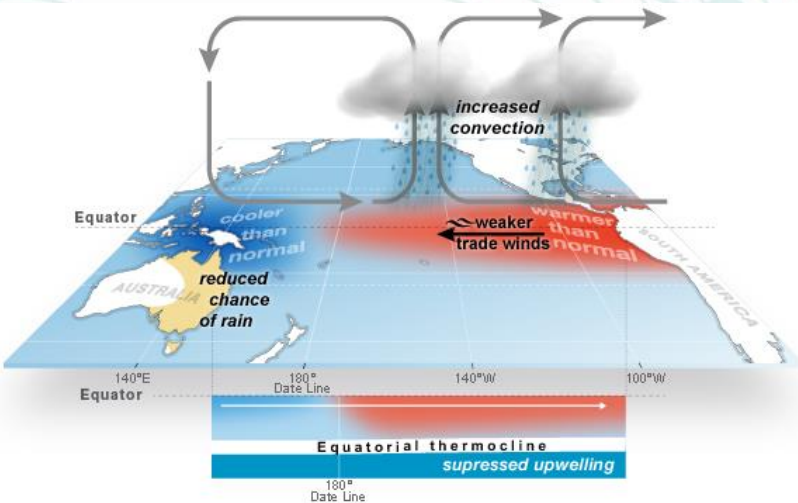
- Trade winds
- Western Pacific Warm Pool (WPWP)
- Intertropical Convergence Zone (ITCZ)
- South Pacific Convergence Zone
- Monsoon

El Niño-Southern Oscillation (ENSO)



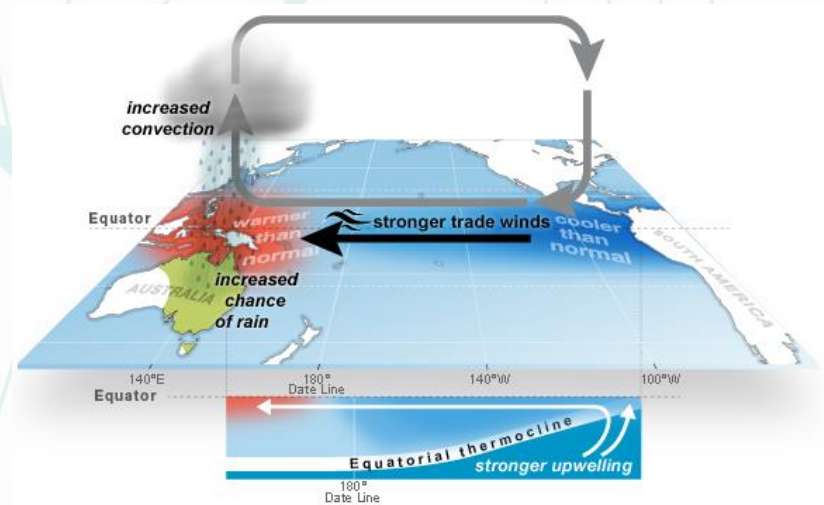
El Niño-Southern Oscillation (ENSO): **Neutral**

© Commonwealth of Australia 2013.



El Niño-Southern Oscillation (ENSO): **El Niño**

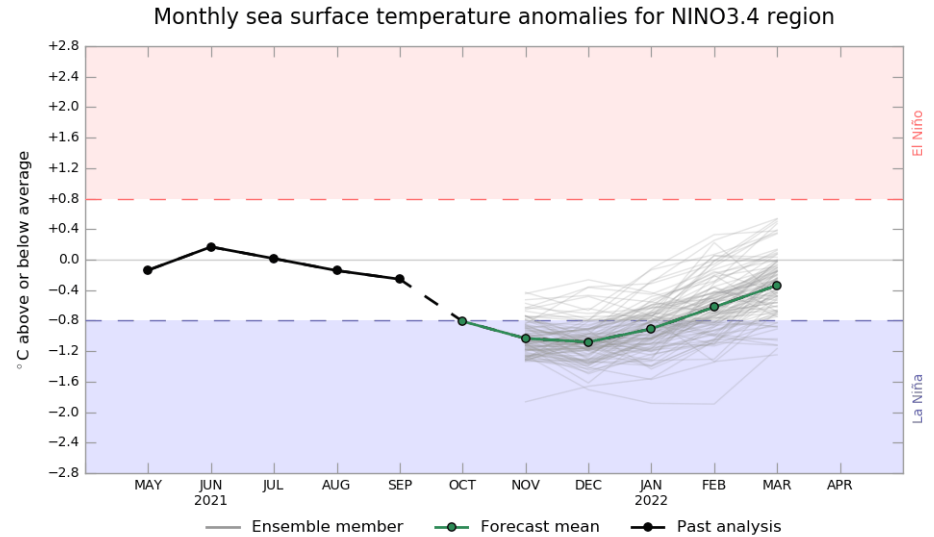
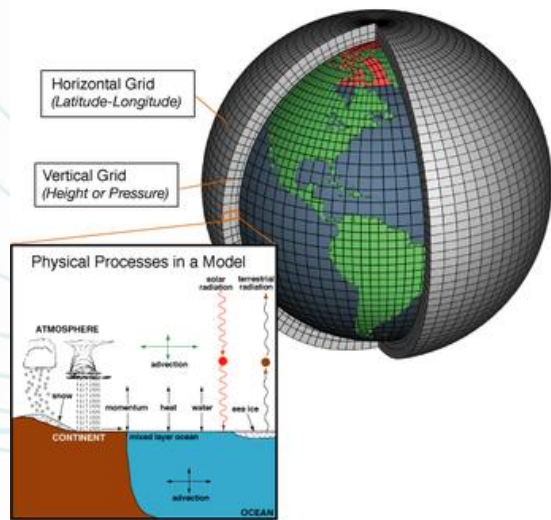
© Commonwealth of Australia 2013.



El Niño-Southern Oscillation (ENSO): **La Niña**

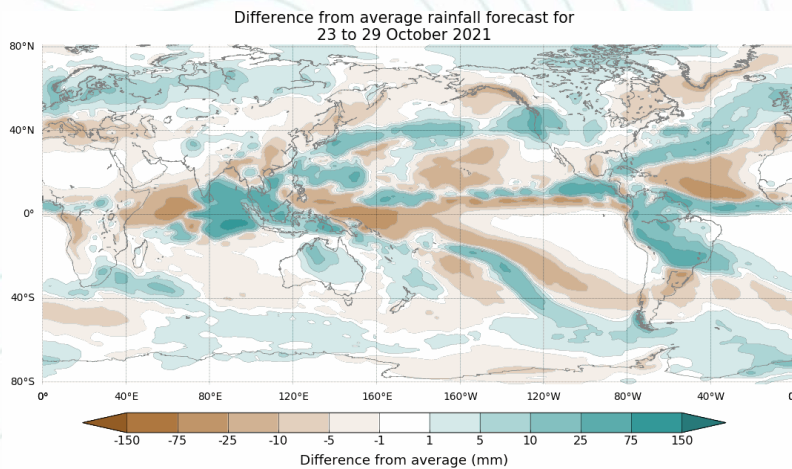
© Commonwealth of Australia 2013.

We can predict future climate months ahead with reasonable accuracy



www.bom.gov.au/climate
Commonwealth of Australia 2021, Australian Bureau of Meteorology

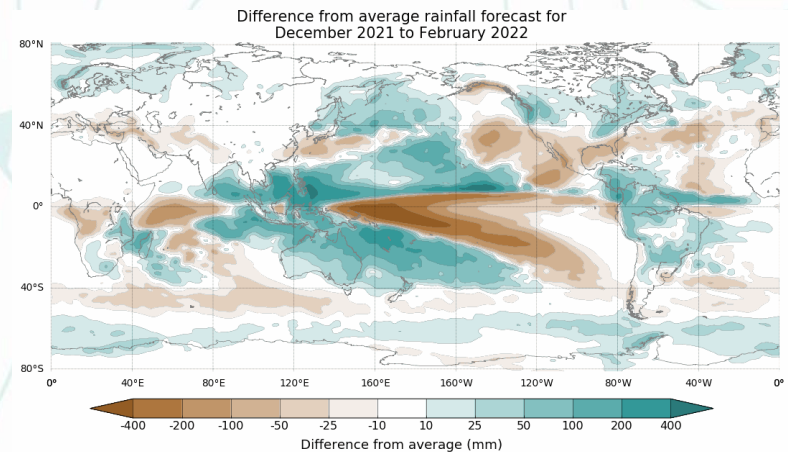
Model: ACCESS-S1
Base period 1990-2012
Model run: 9 Oct 2021



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Model: ACCESS-S1
Base period: 1990-2012

Model run: 16/10/2021
Issued: 18/10/2021



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Model: ACCESS-S1
Base period: 1990-2012

Model run: 16/10/2021
Issued: 18/10/2021

The background features a complex pattern of thin, teal-colored wavy lines that create a sense of movement and depth. Interspersed among these lines are various teal-colored geometric shapes, including circles and triangles, some of which are oriented as if they are moving along the paths. The overall aesthetic is clean, modern, and organic.

Thank you