



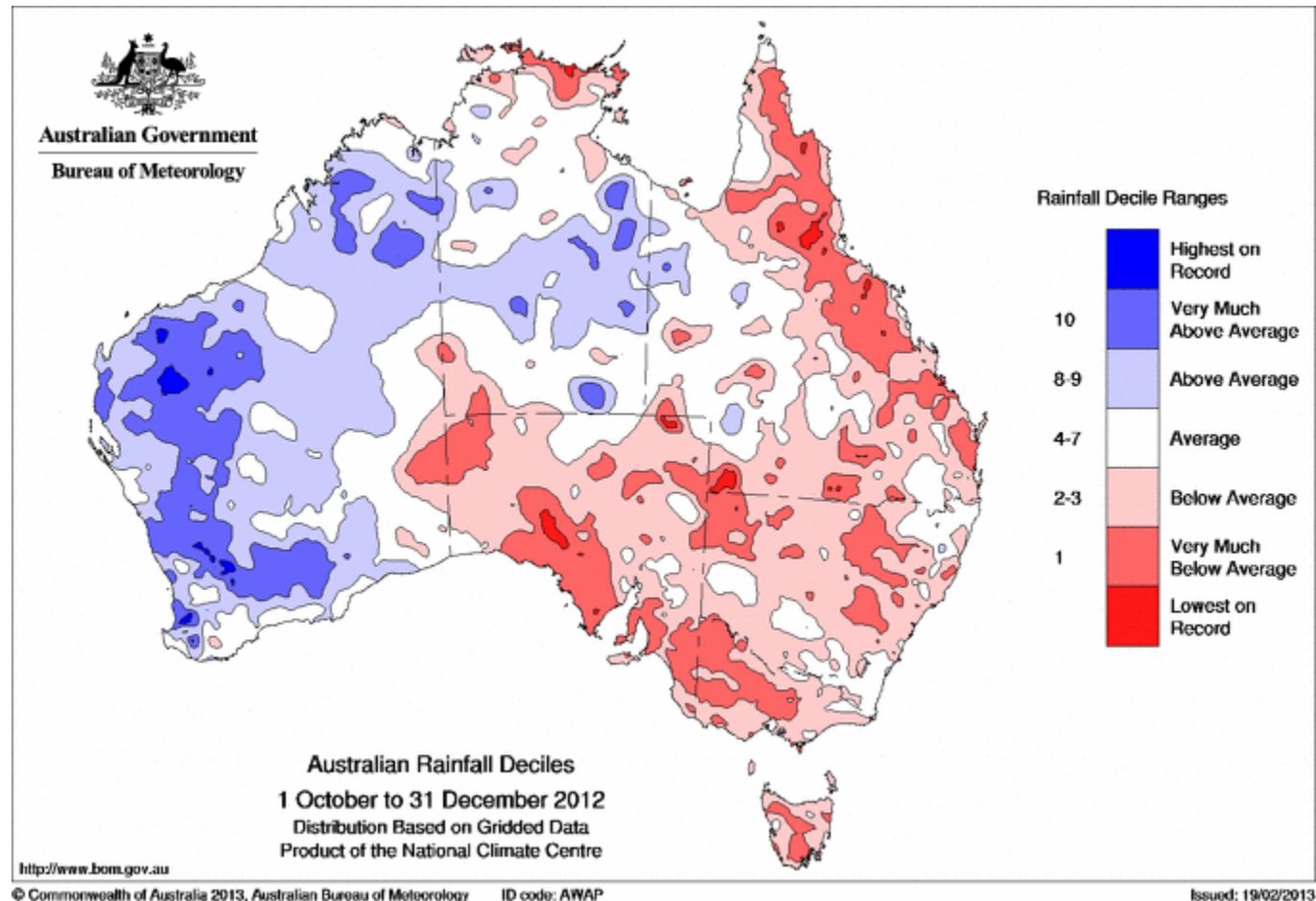
Australian Government
Bureau of Meteorology

2012-2013 Wet Season in Review



Australian Government
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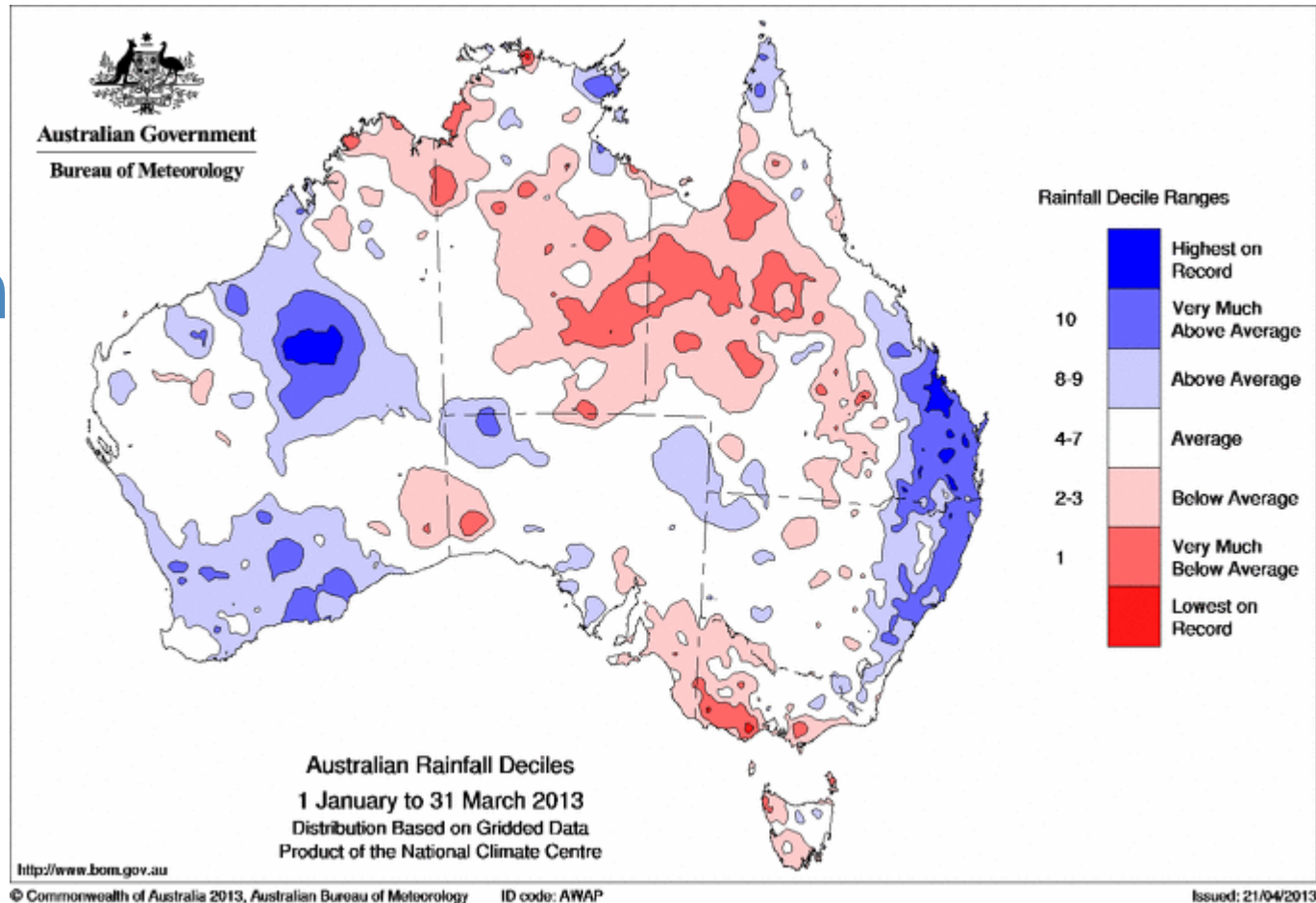
Wet Season rainfall deciles from October through December





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Wet Season rainfall deciles from January through March

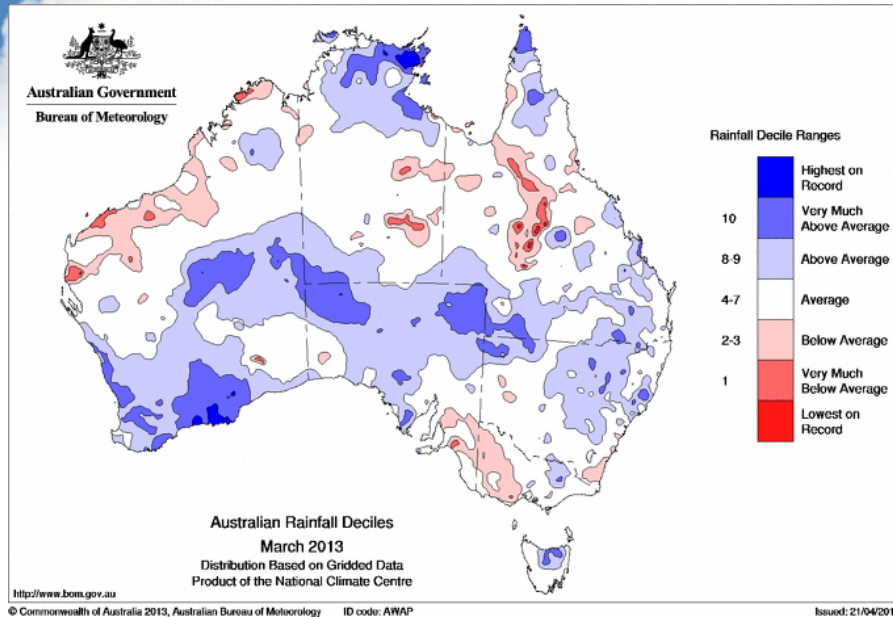


And that is about when it all changed

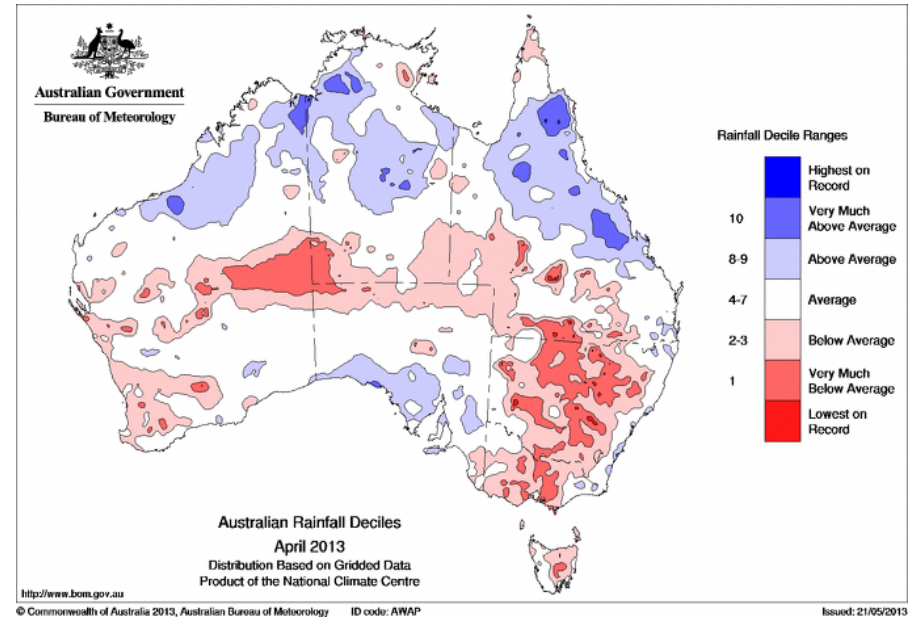


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March rainfall

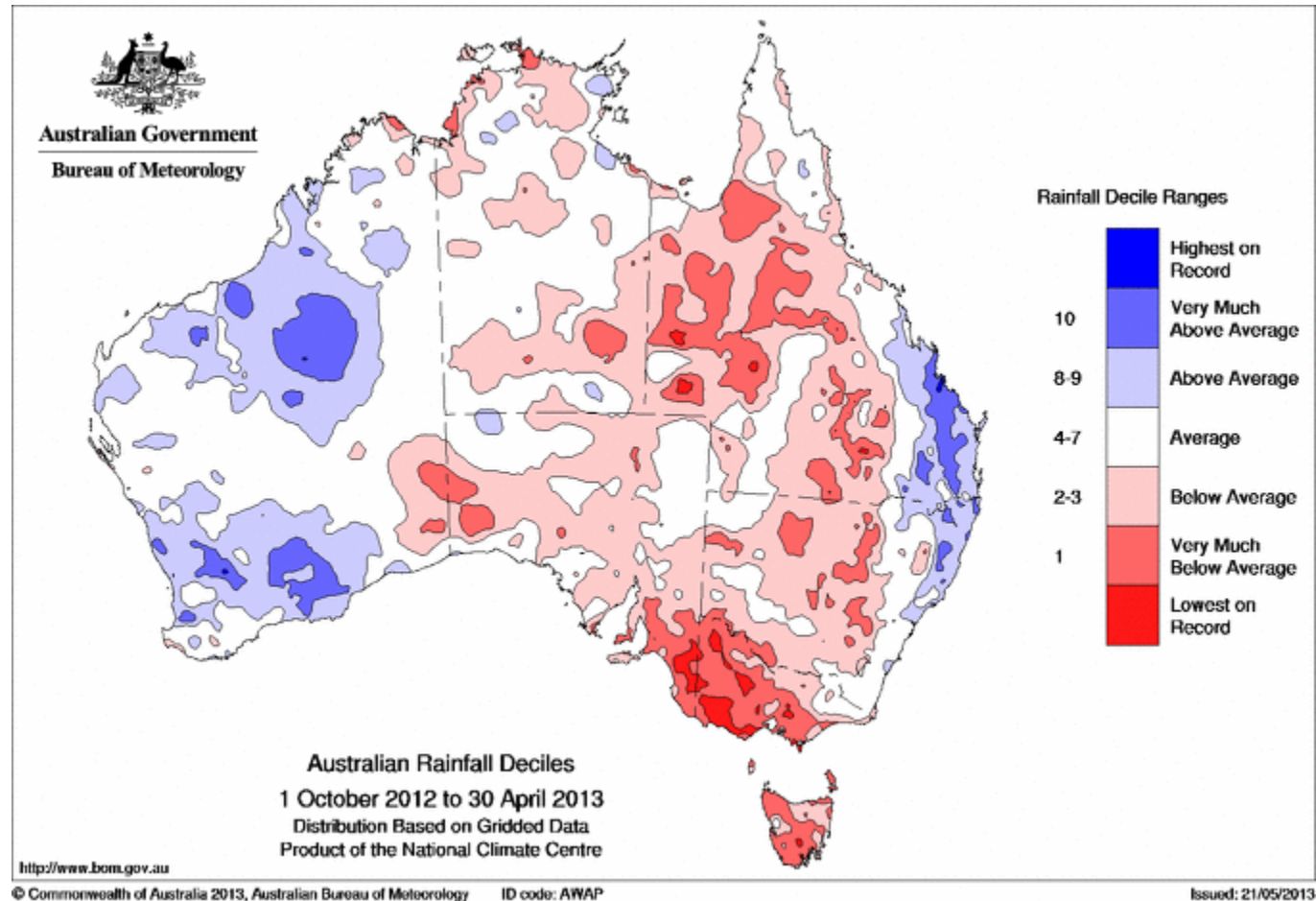


April rainfall

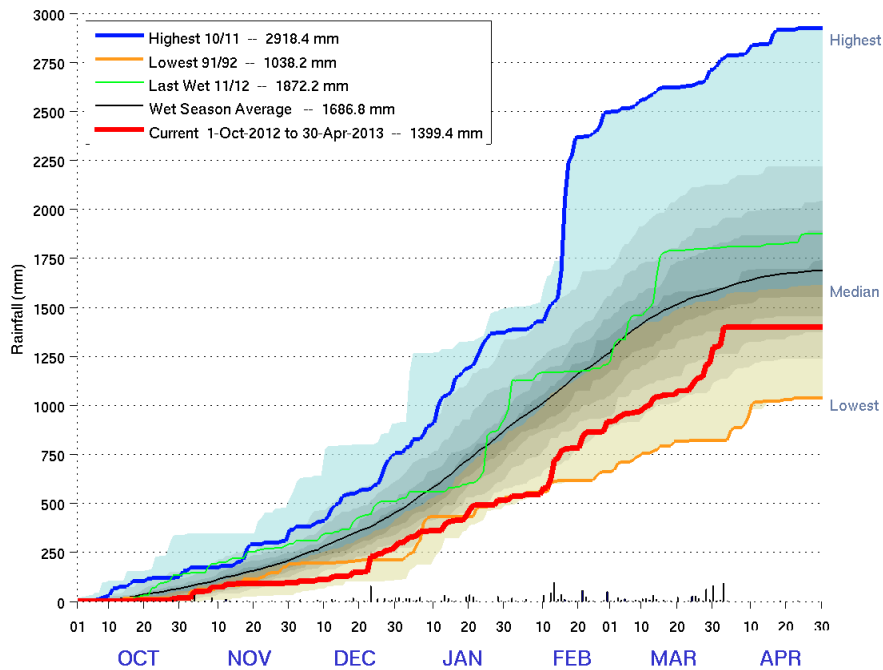


Wet Season rainfall

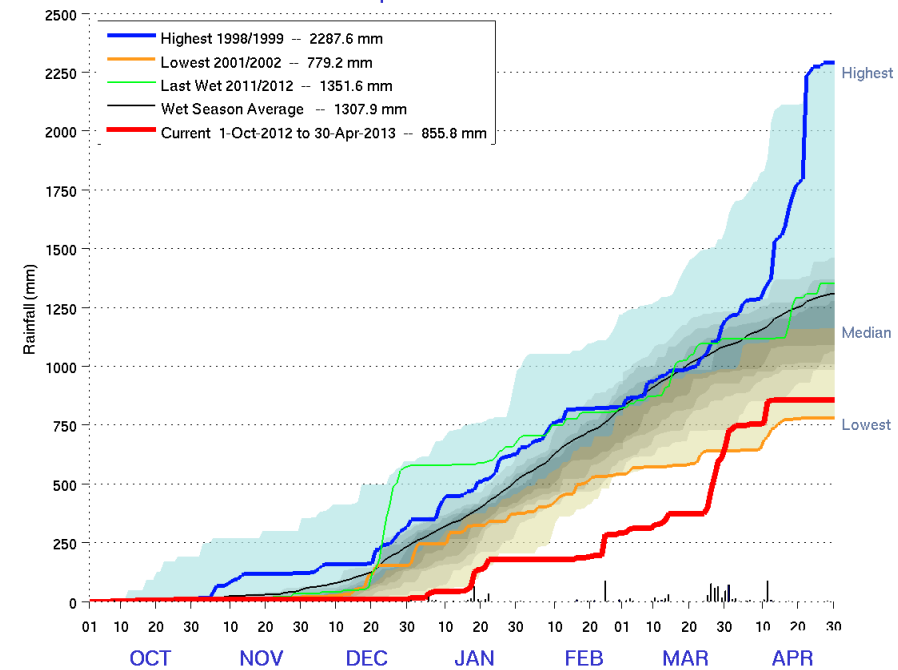
Even with a wet March and April, Northern Australia ended the wet season with generally average to below average rainfall totals especially for Qld



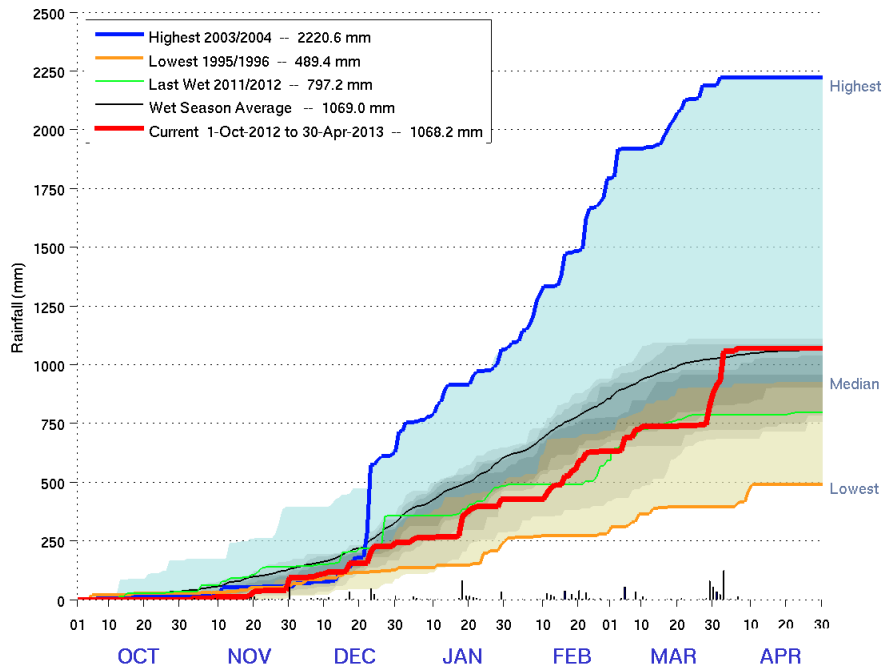
Darwin wet season rainfall



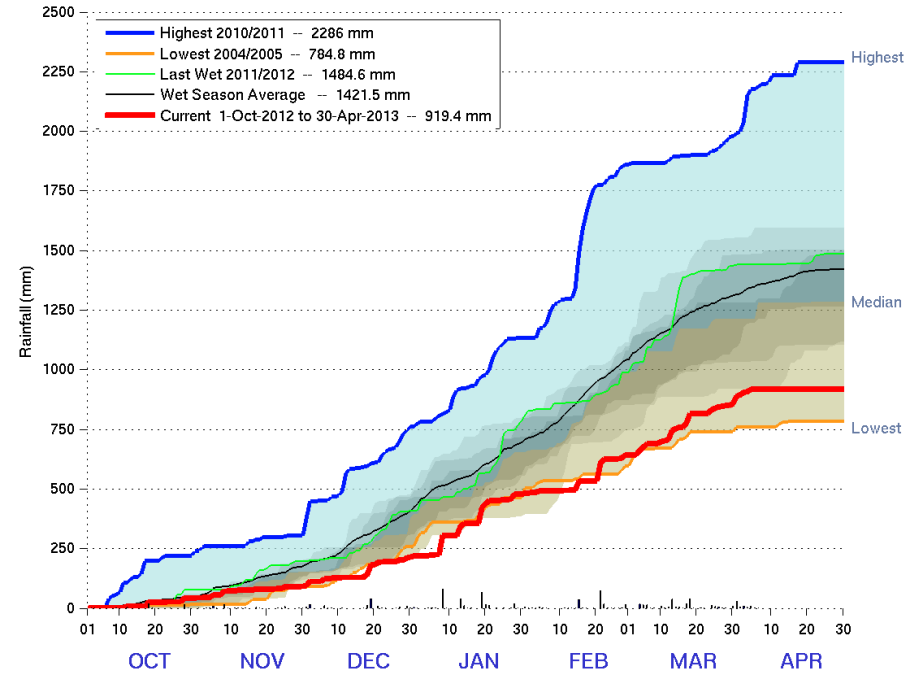
Gove Airport wet season rainfall



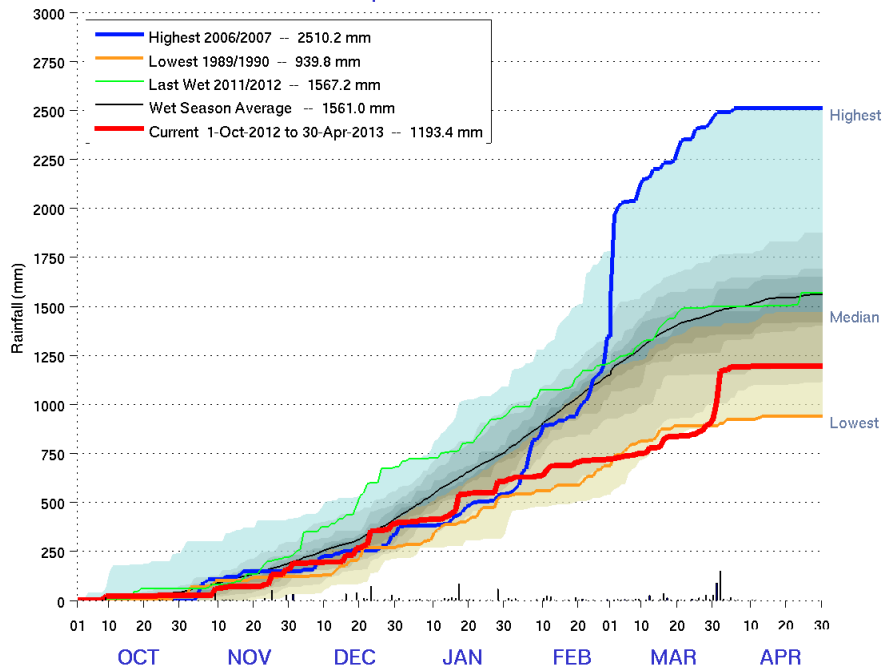
Tindal Raaf wet season rainfall



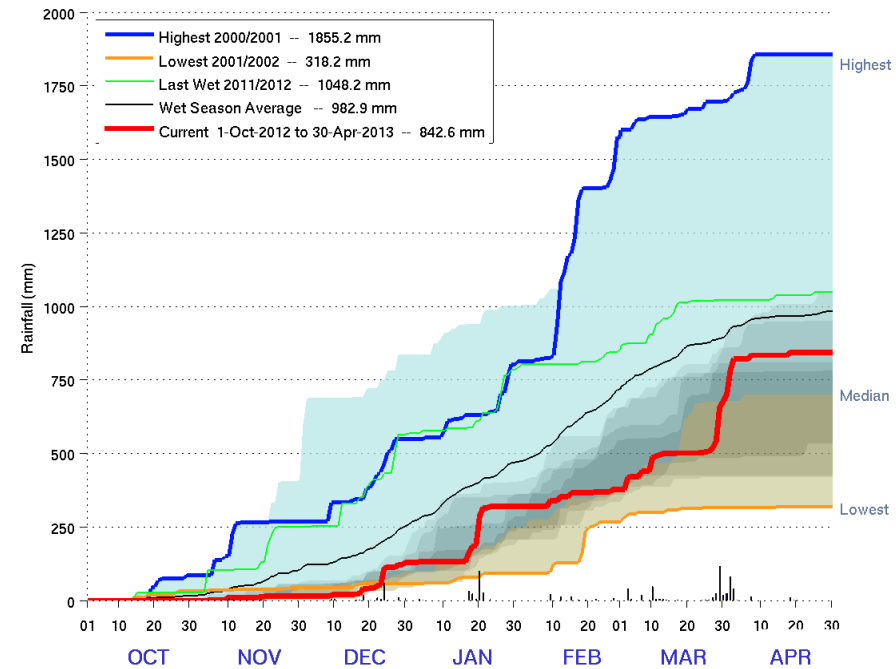
Middle Point Aws wet season rainfall



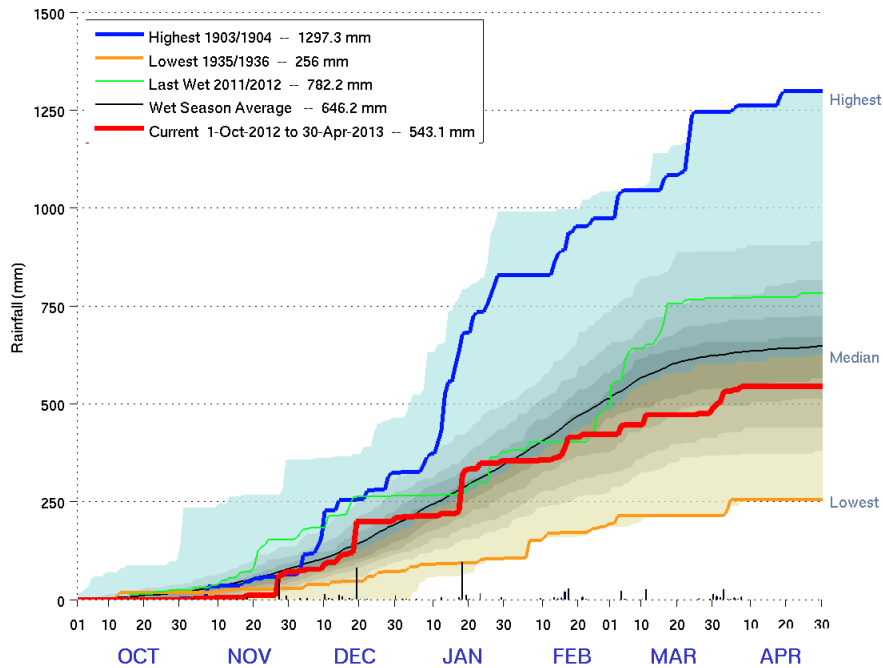
Jabiru Airport wet season rainfall



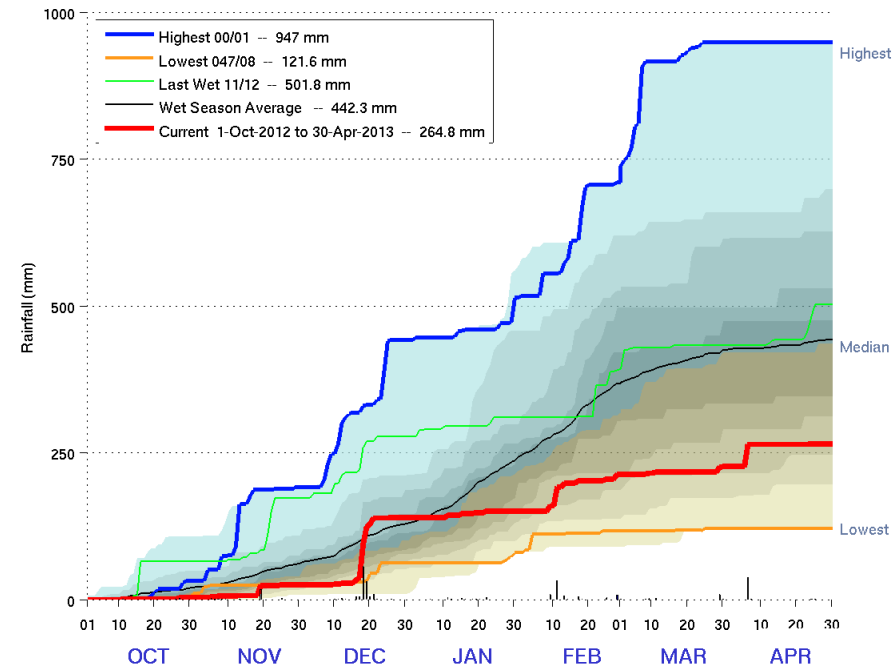
Borroloola wet season rainfall



Victoria River Downs wet season rainfall



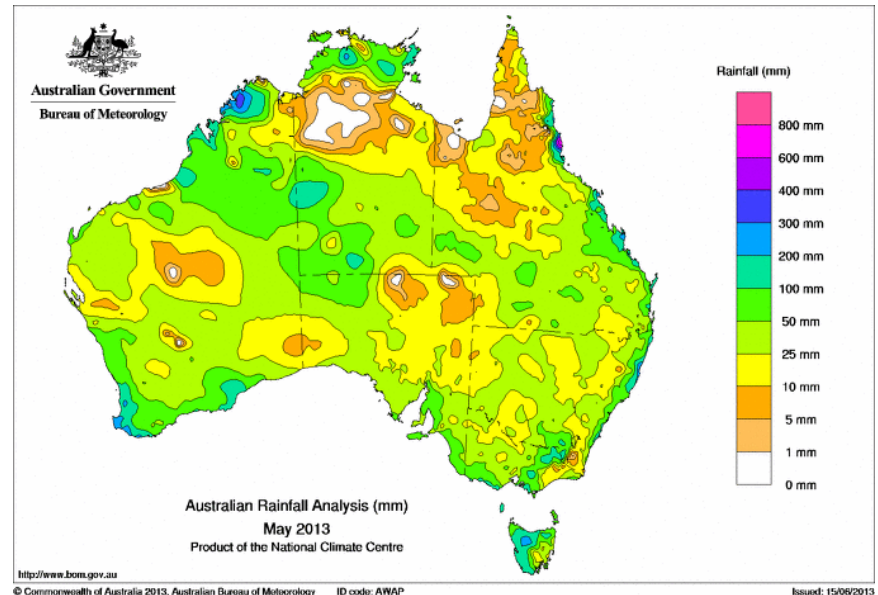
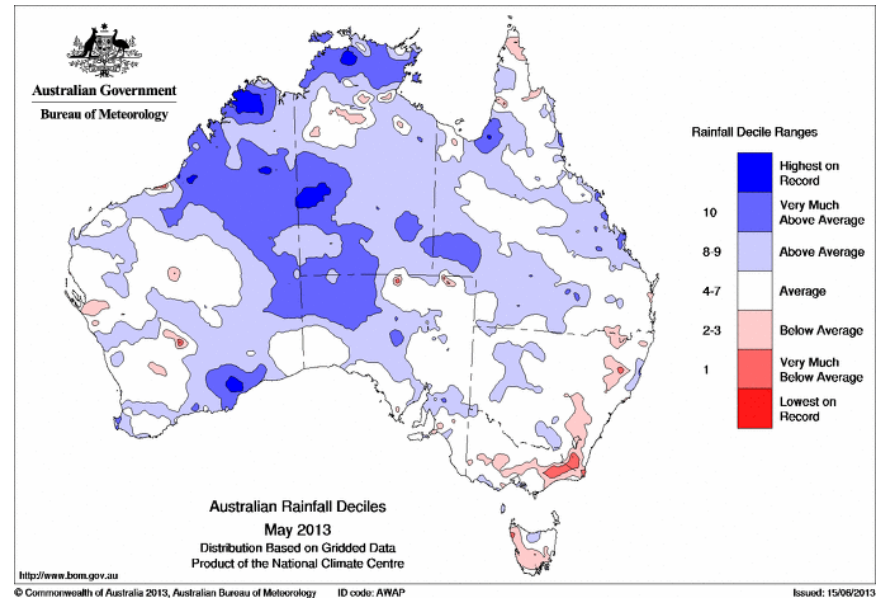
Tennant Creek wet season rainfall





Dry season so far: May

- Kimberly and Alice Springs District saw 4 cloud band events in May
- Alice Springs Airport measured 42.6 mm in May
 - more than double the long-term average
 - wettest May in 9 years
- Rainfall Districts with above average to record rainfall in May
 - Kimberley
 - the Pilbara
 - Northern Interior
 - Alice Springs
- Top End saw showers on 24 May ahead of a southeasterly wind change



What's a Northwest Cloudband?

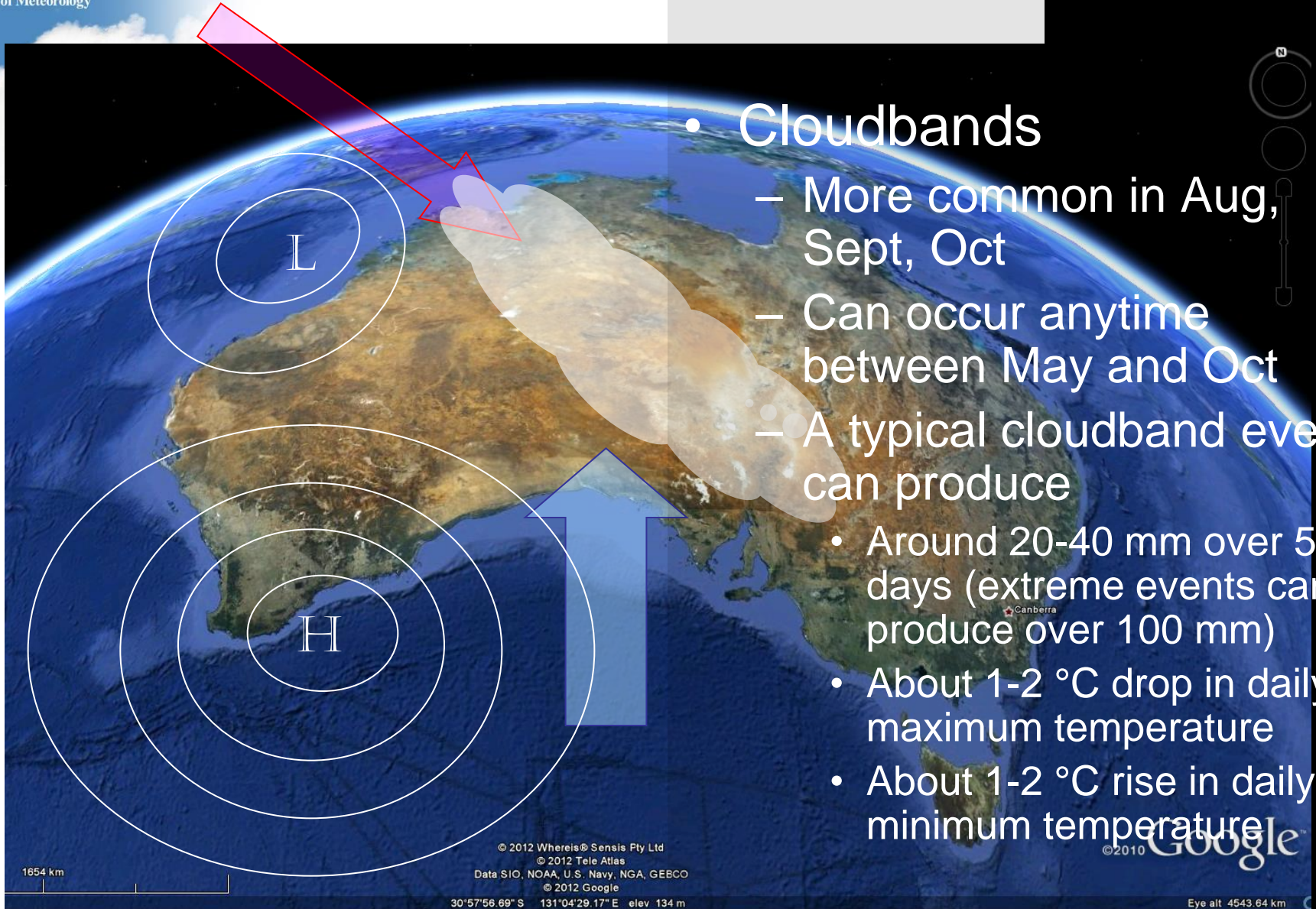
- Cloudbands

- More common in Aug, Sept, Oct

- Can occur anytime between May and Oct

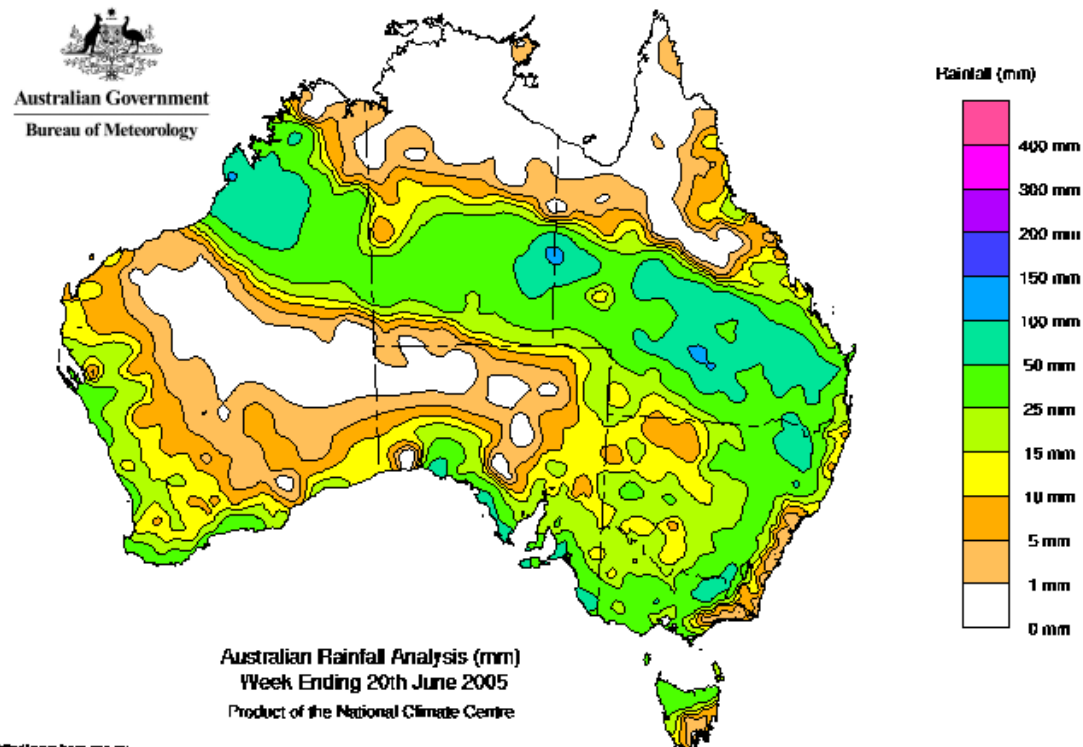
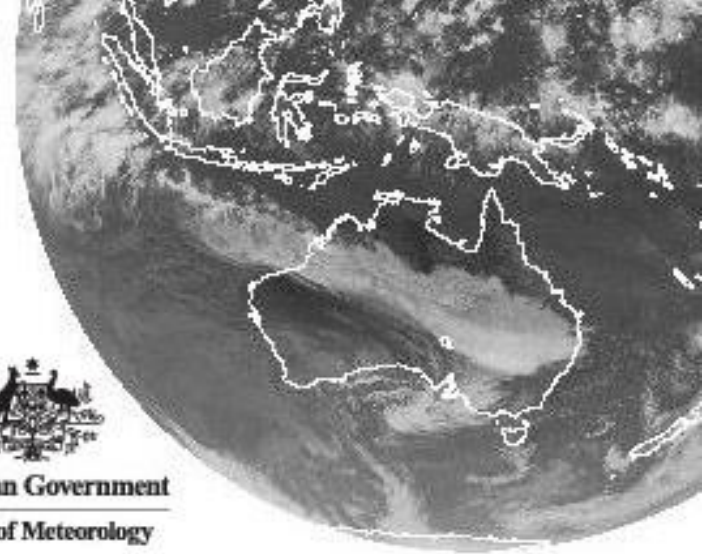
- A typical cloudband event can produce

- Around 20-40 mm over 5 days (extreme events can produce over 100 mm)
- About 1-2 °C drop in daily maximum temperature
- About 1-2 °C rise in daily minimum temperature



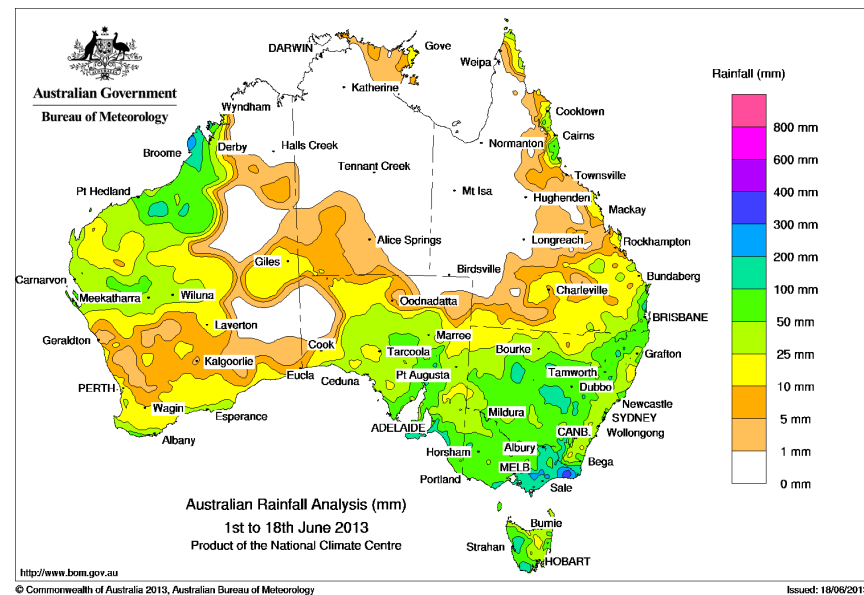
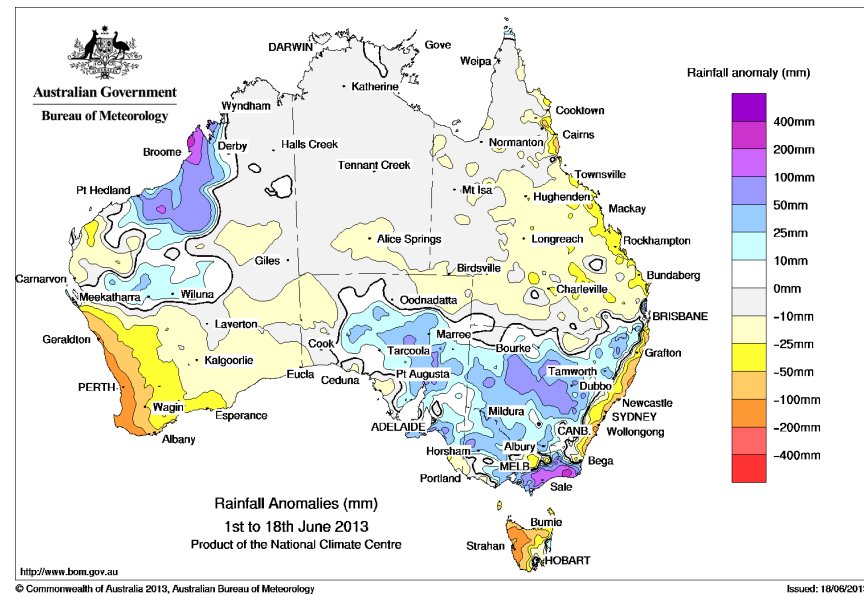
Cloudbands

- <http://www.youtube.com/watch?v=iBafFTkEOe4>



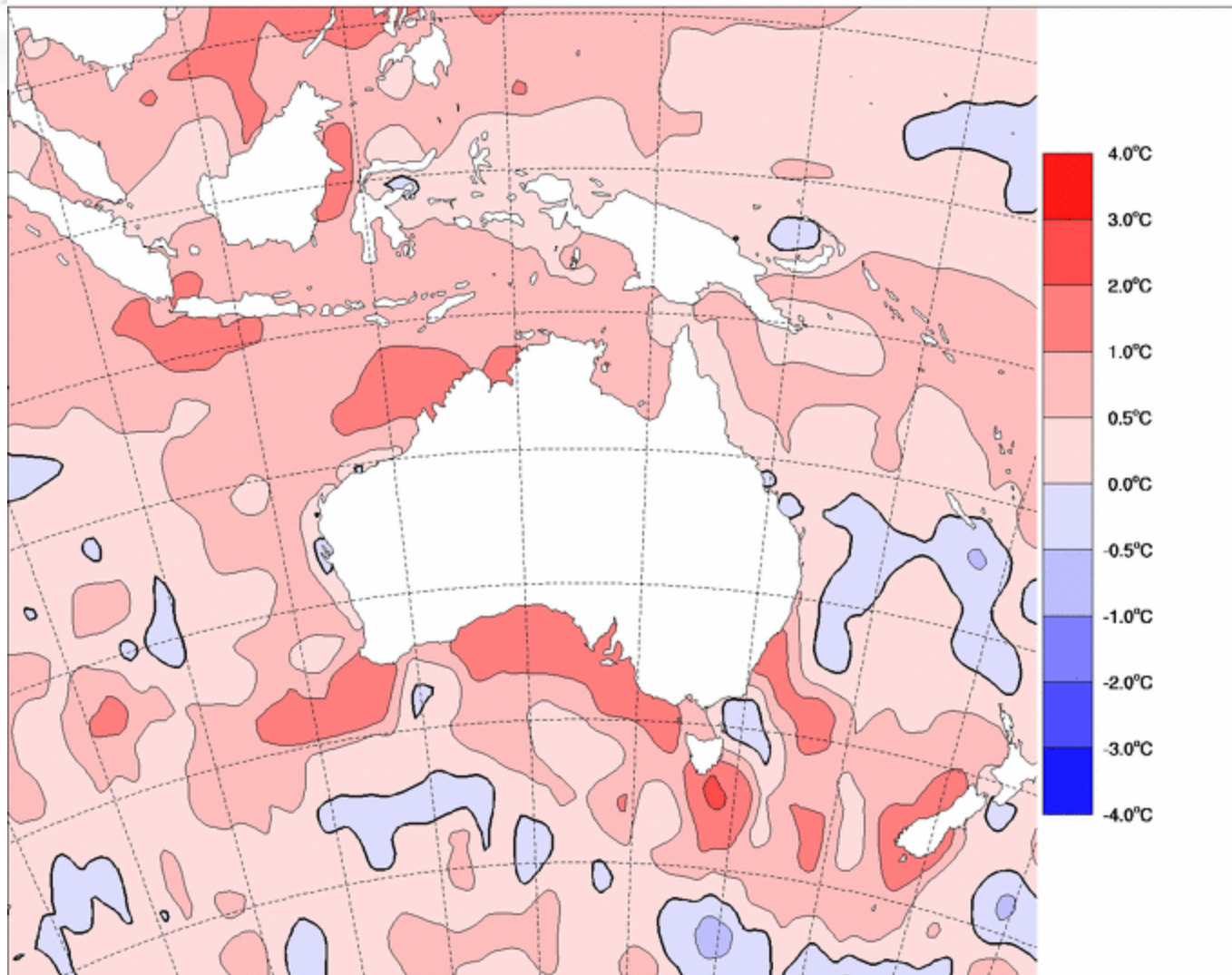
Dry season so far: First half of June rainfall

- Wet over west Kimberly and Pilbara (Northwest cloudband in early June)
 - Daily rainfall record for Broome (146.4 mm on 6 June) and 2nd wettest June on record
- Near average for the rest of N. Aus
 - Long-term average June rainfall is near 0 mm





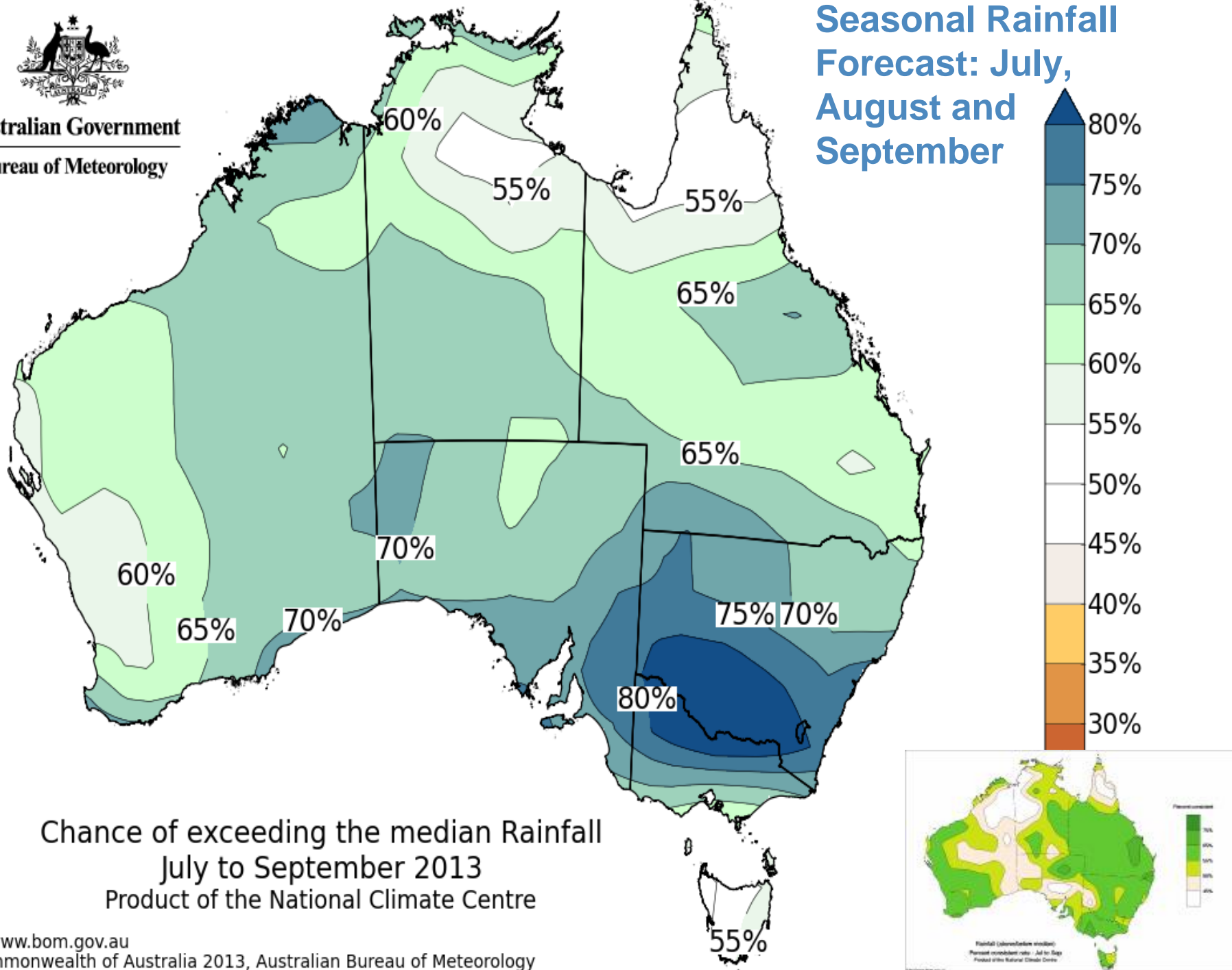
Australian Region SST anomaly 20130501 to 20130531 (Reynolds analysis)
Distribution Based on Gridded Data





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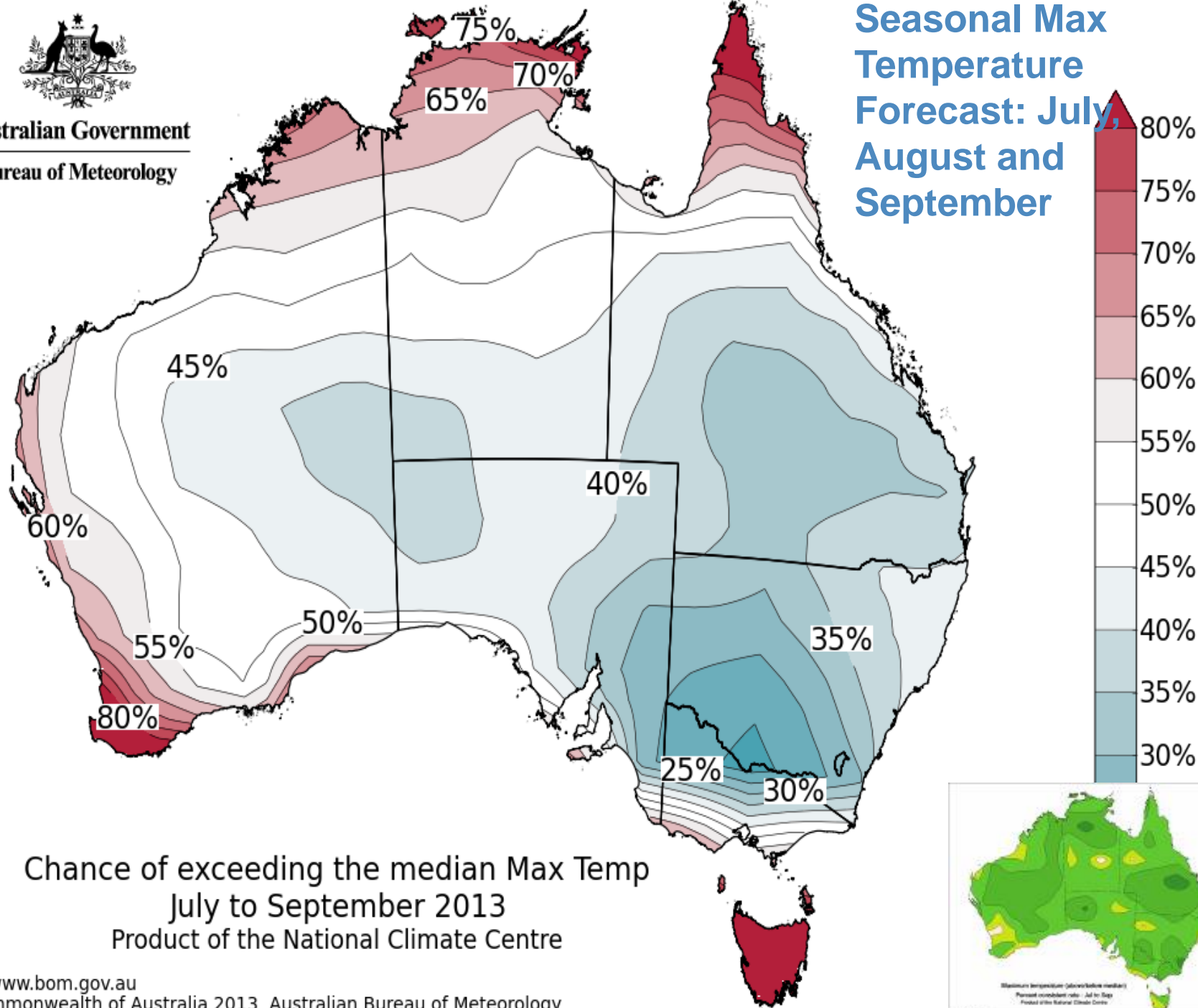
Seasonal Rainfall Forecast: July, August and September



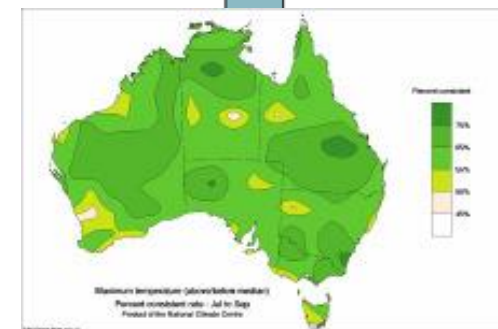


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Seasonal Max Temperature Forecast: July, August and September



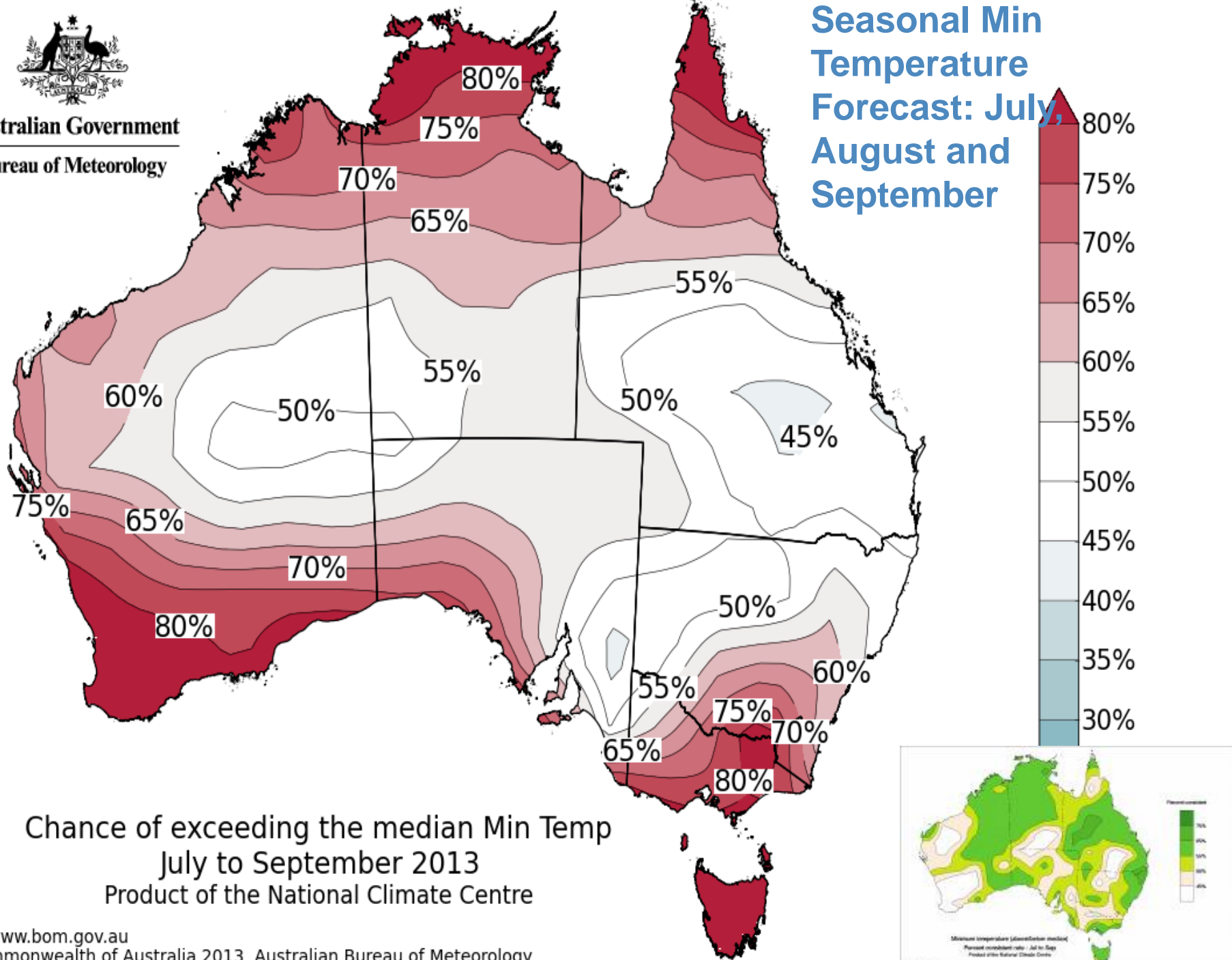
Chance of exceeding the median Max Temp
July to September 2013
Product of the National Climate Centre





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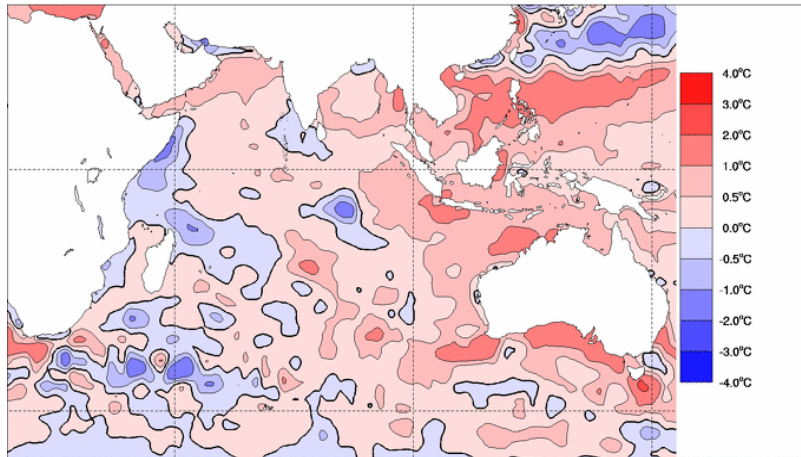
Seasonal Min Temperature Forecast: July, August and September



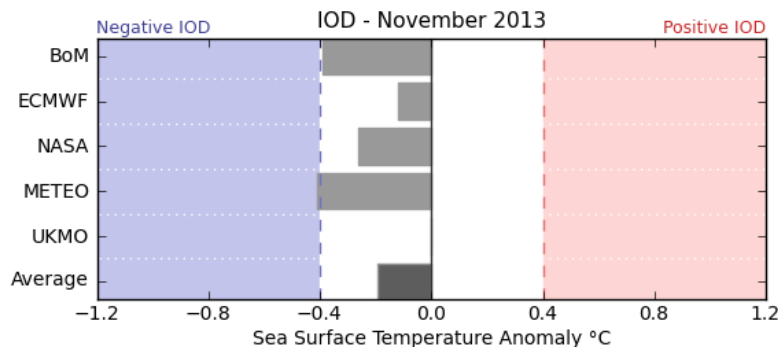
Beyond September

Negative Indian Ocean Dipole

Indian SST anomaly 20130501 to 20130931 (Reynolds analysis)
Distribution Based on Gridded Data

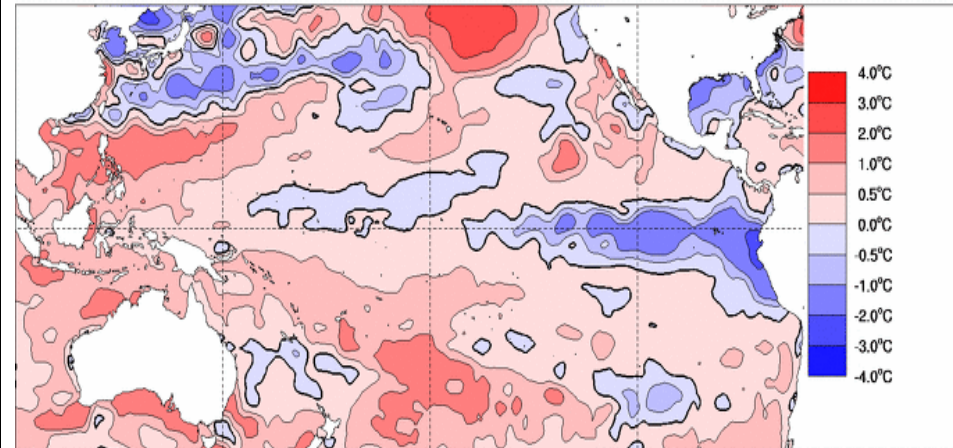


Indian Ocean is cooler in the west and warmer in the east

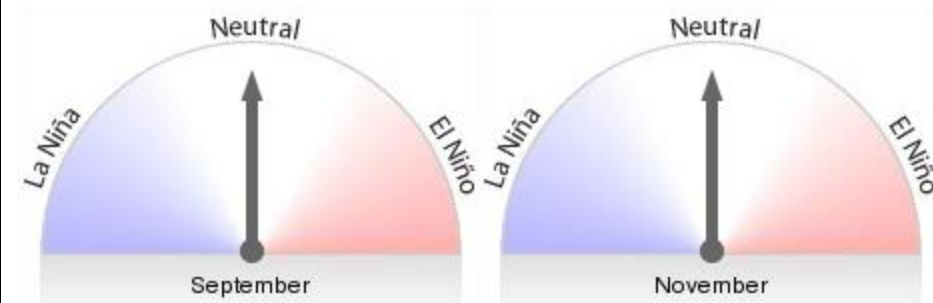


Neutral El Niño/Southern Oscillation

Pacific SST anomaly 20130501 to 20130931 (Reynolds analysis)
Distribution Based on Gridded Data



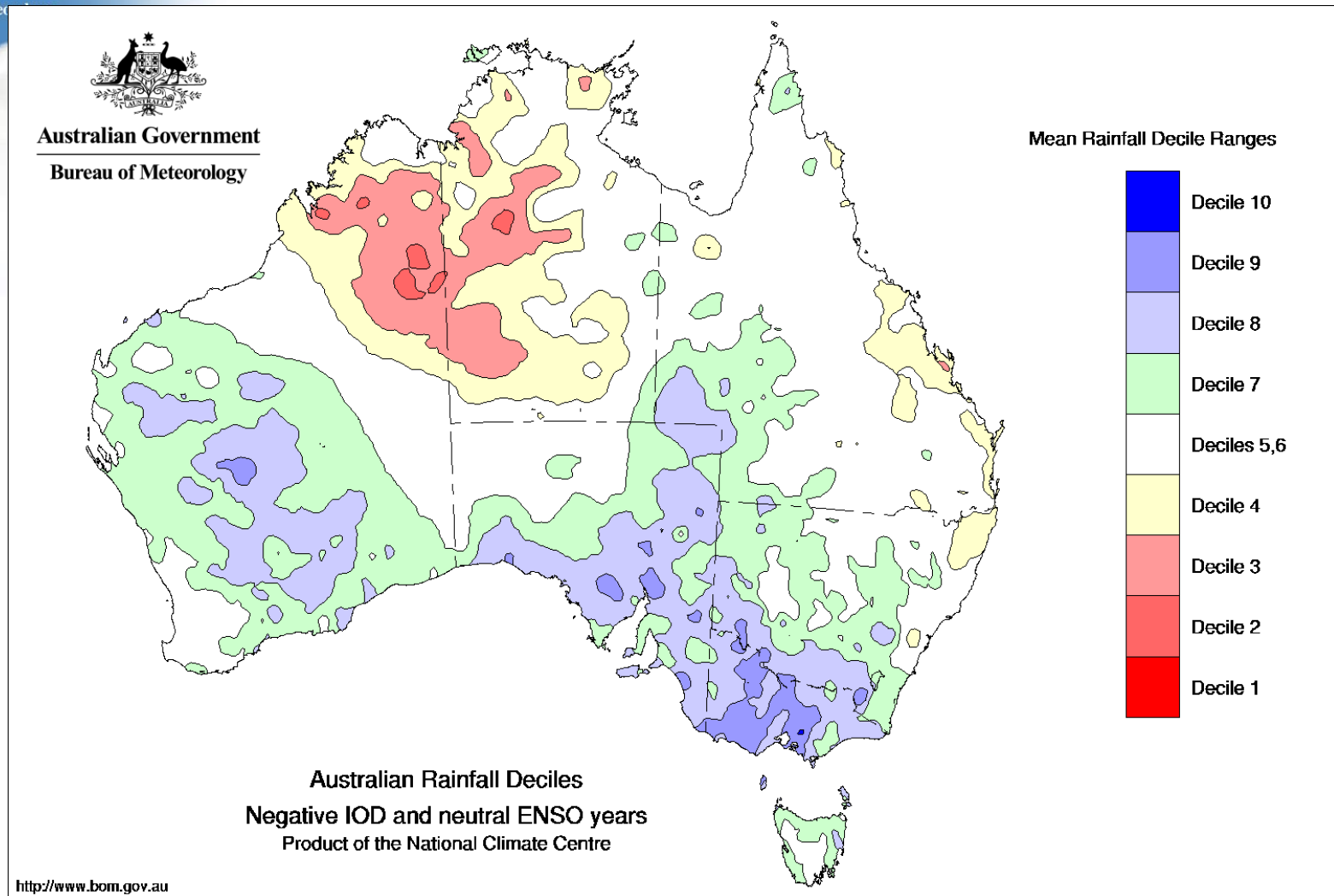
Pacific Ocean is cooler in the east near average across the rest of the region





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Negative IOD and neutral ENSO



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- Australian winter-spring mean rainfall deciles for six negative IOD events occurring in neutral ENSO years.