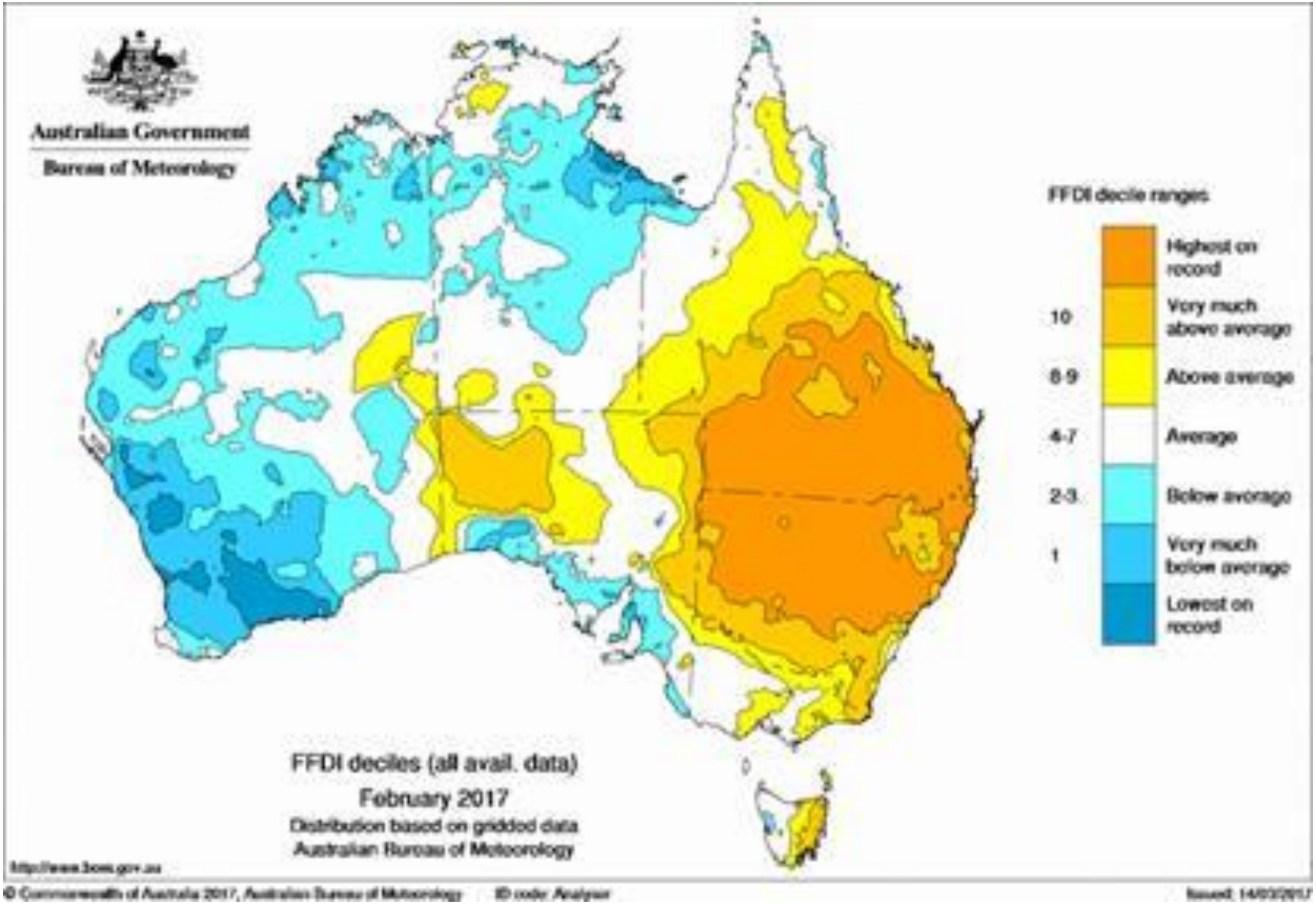
QFES Seasonal **Outlook**

NAFM

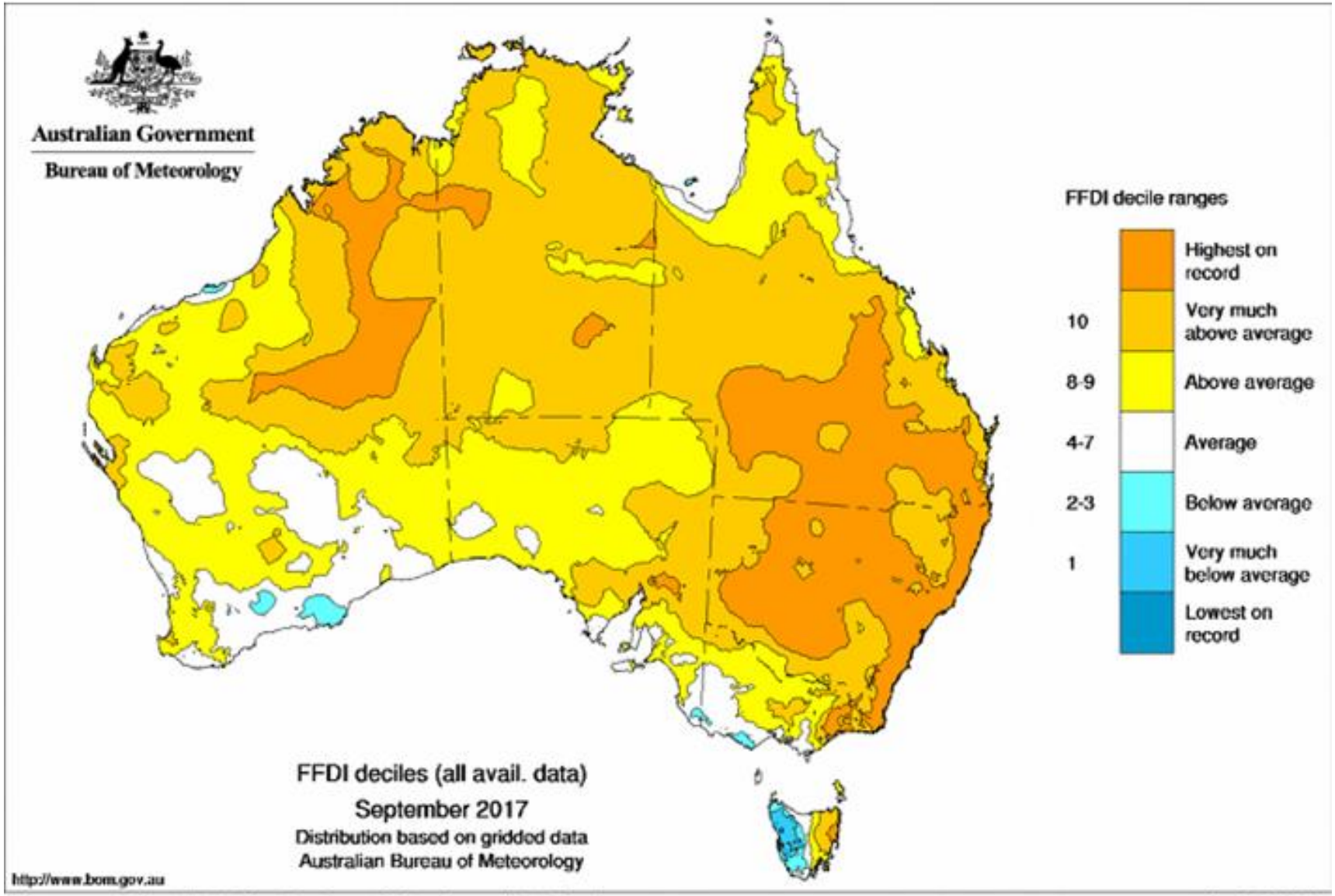
26 June 2018

Queensland Government

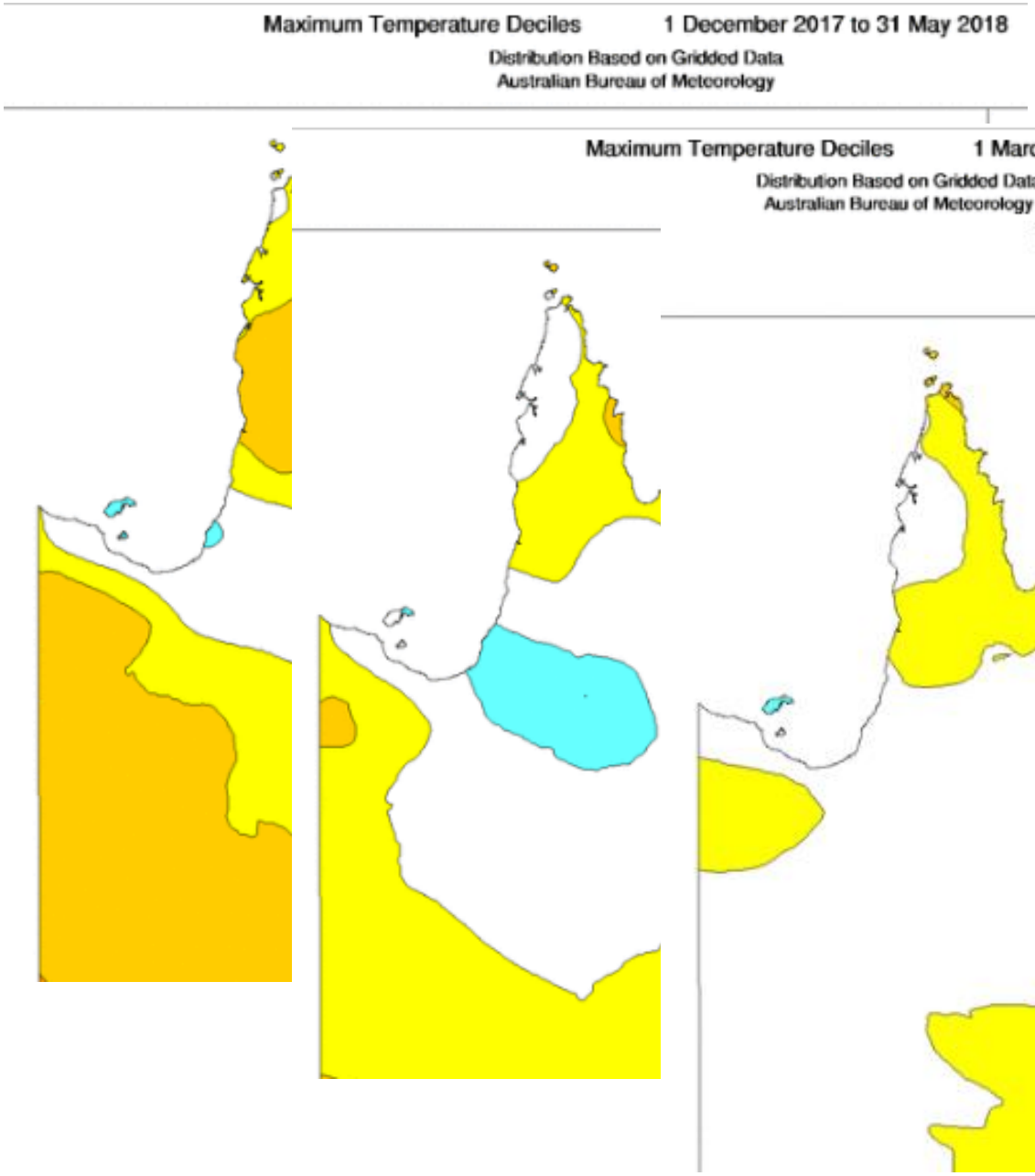
February 2017 FFDI



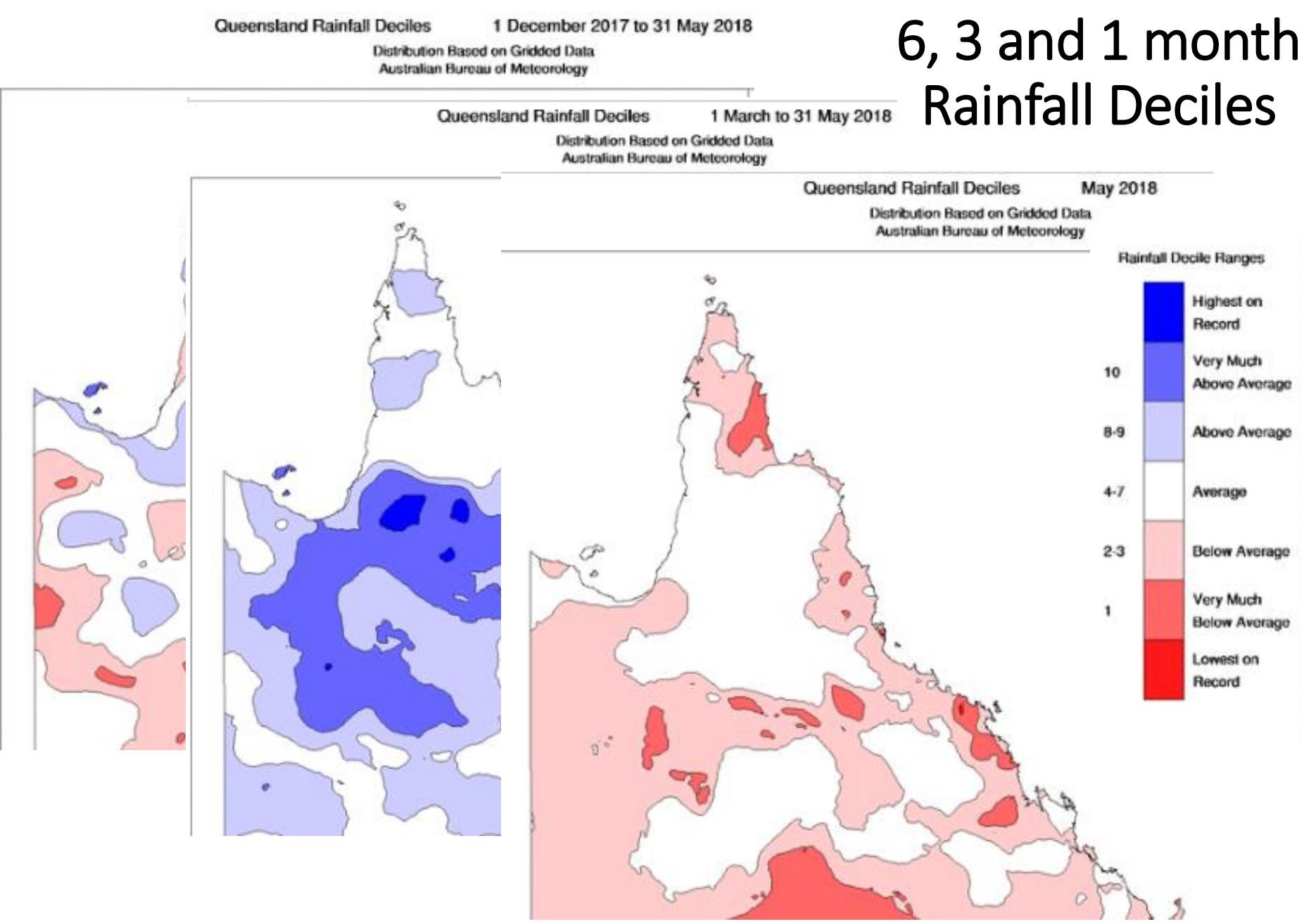
September 2017 FFDI



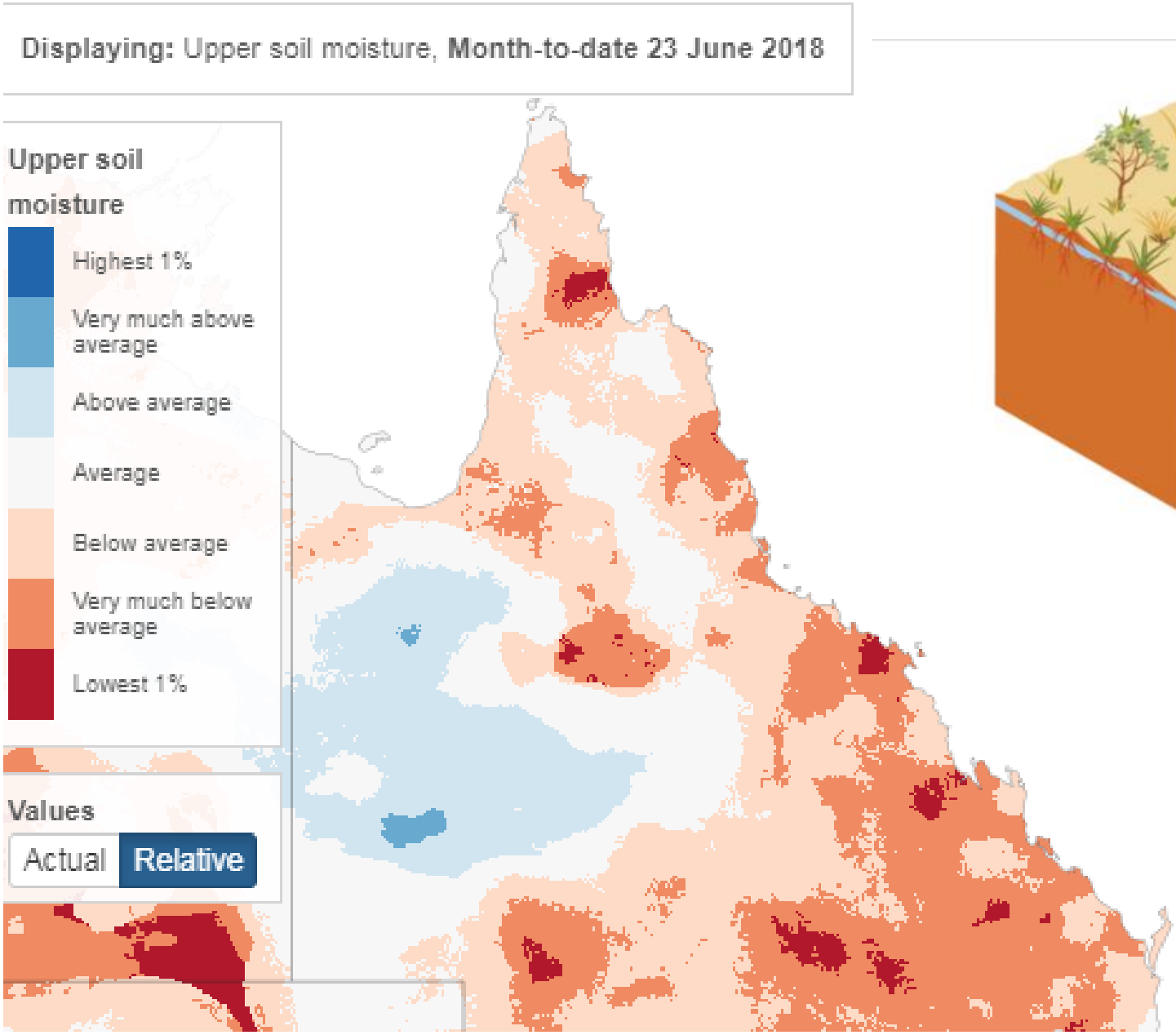
6, 3 and 1 month Temperature Deciles

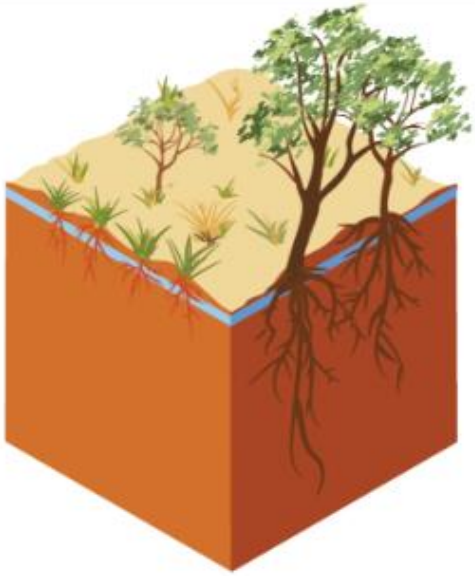


6, 3 and 1 month Rainfall Deciles



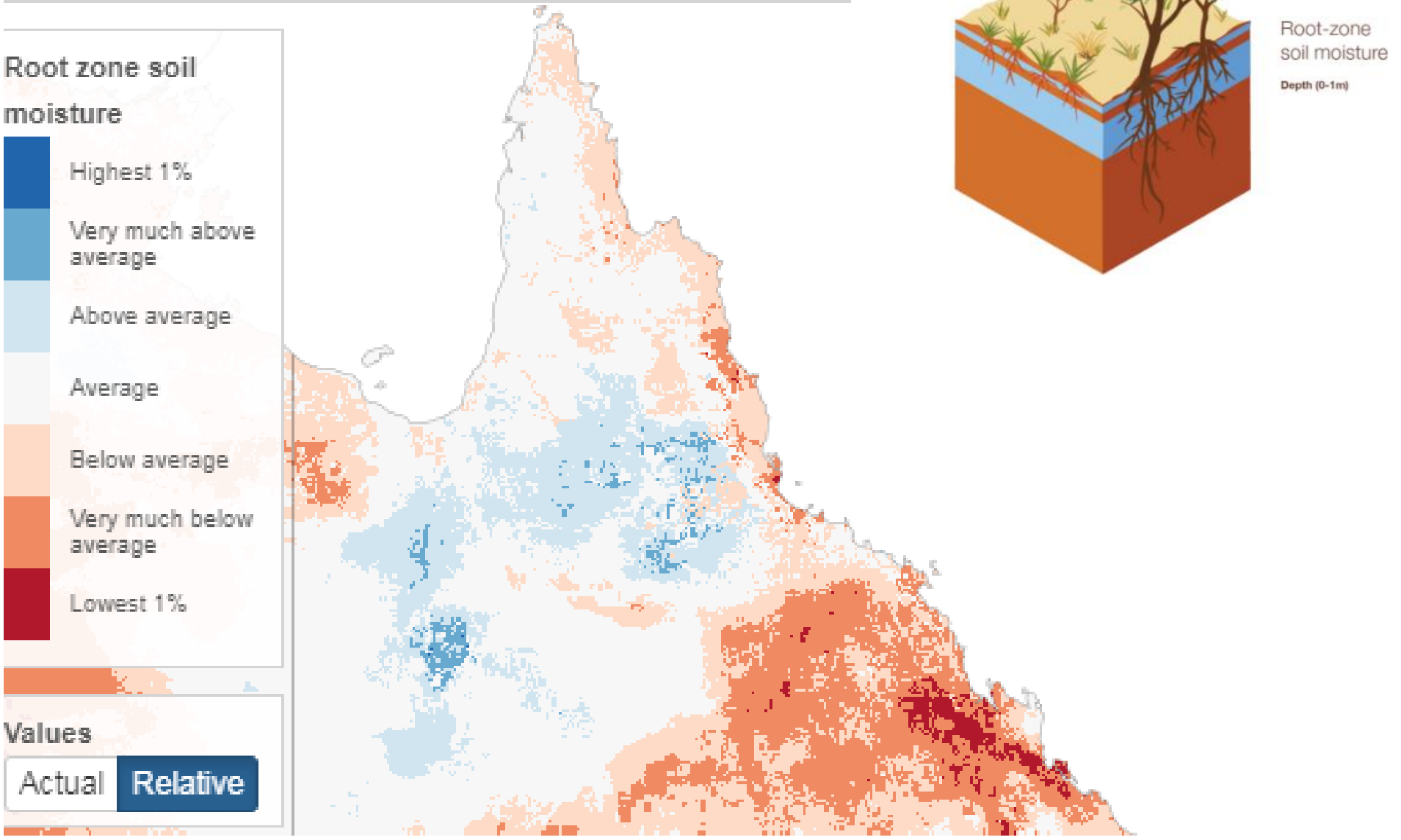
Soil Moisture Deficit in the top 10cm

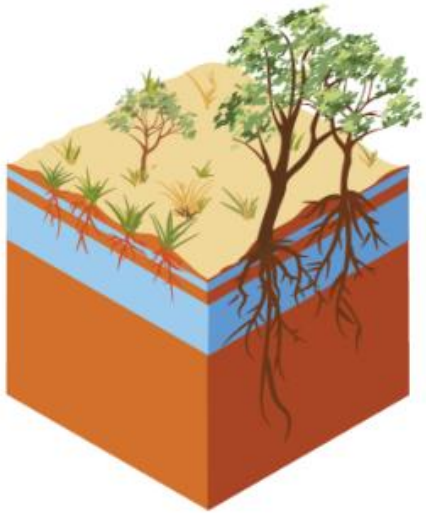




Soil Moisture Deficit in the top 1m

Displaying: Root zone soil moisture, **Month-to-date 23 June 2(**

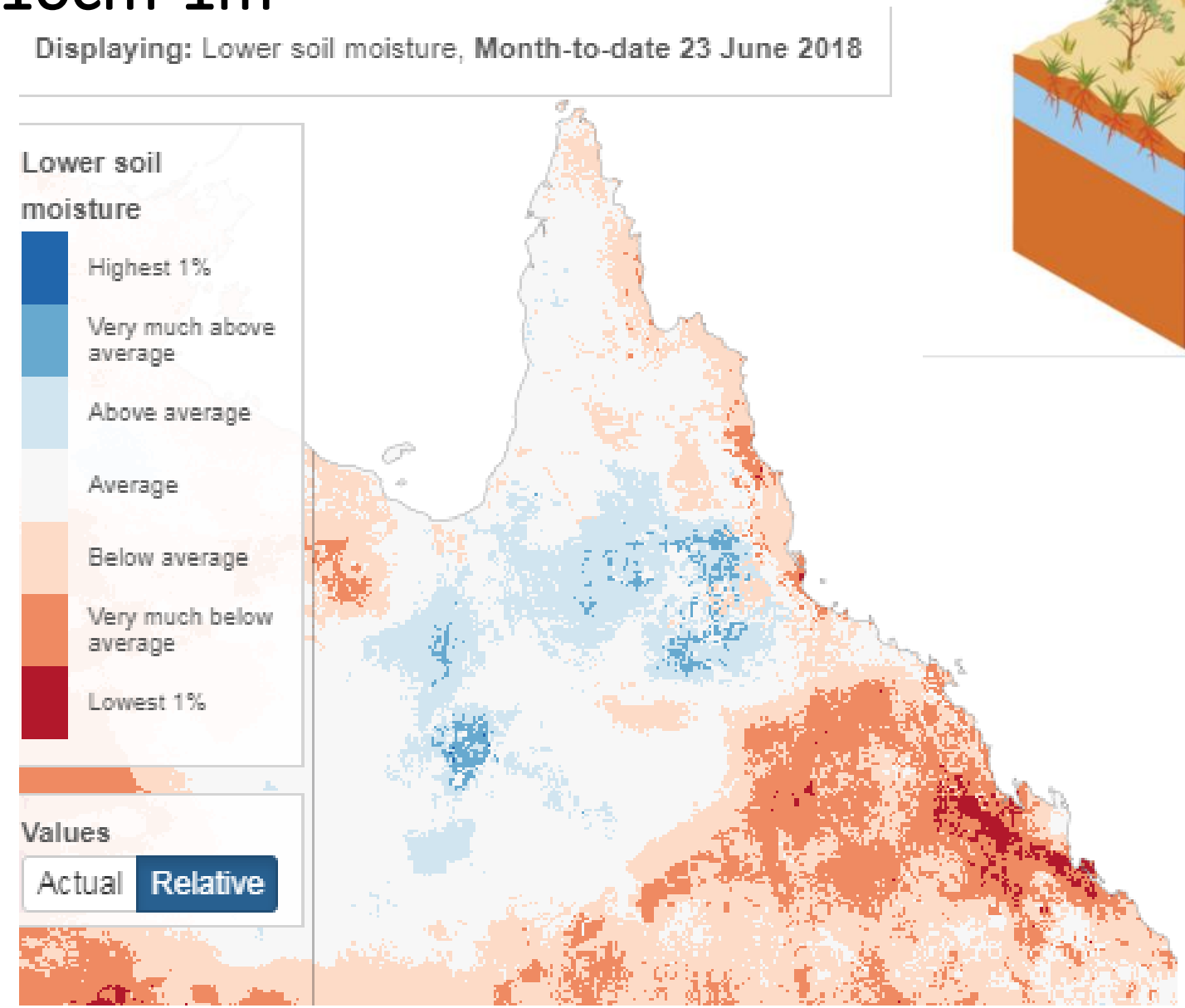


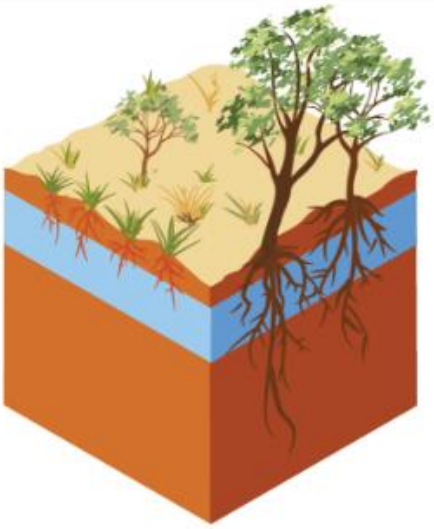


Root-zone soil moisture

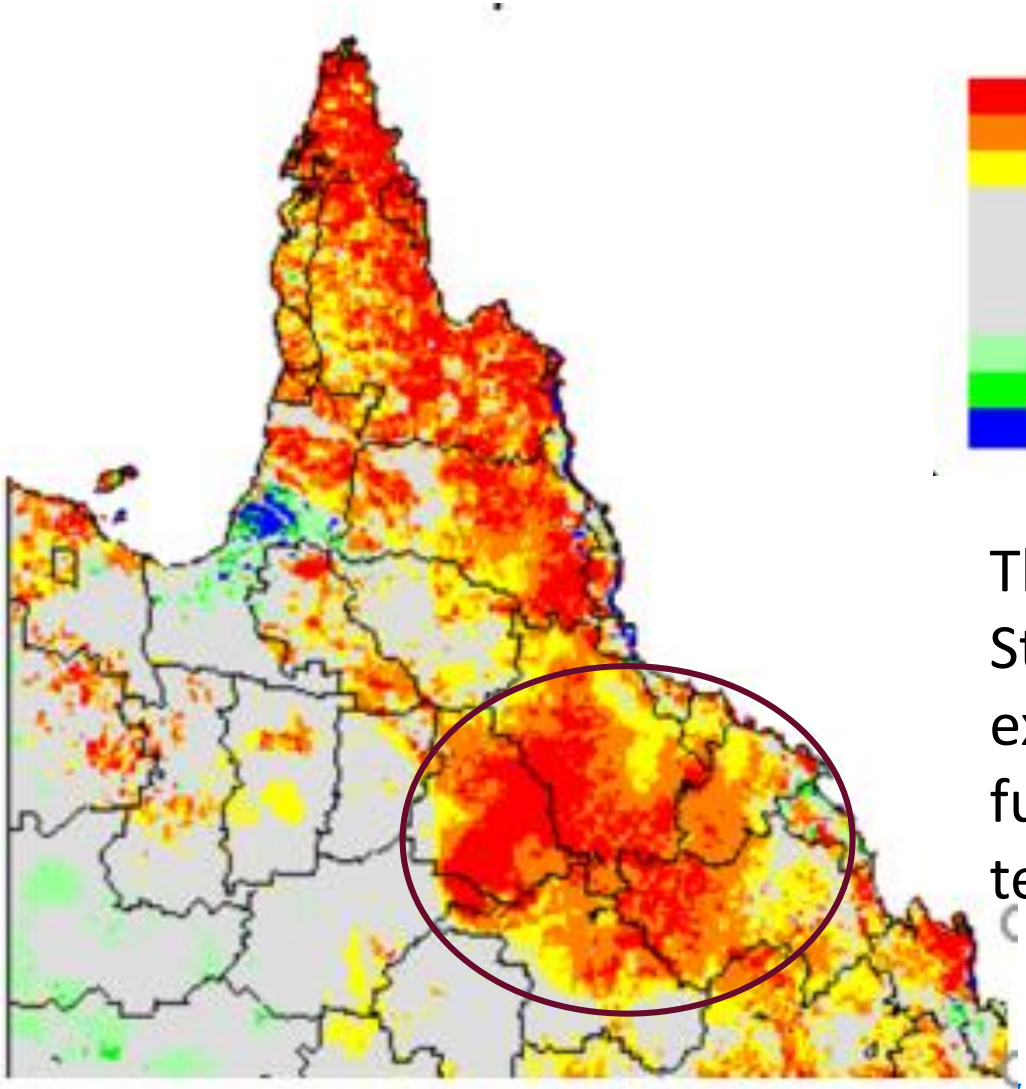
Depth (0-1m)

Soil Moisture Deficit in the top 10cm-1m





Relative Total Standing Dry Matter for **May,** compared to the long term record

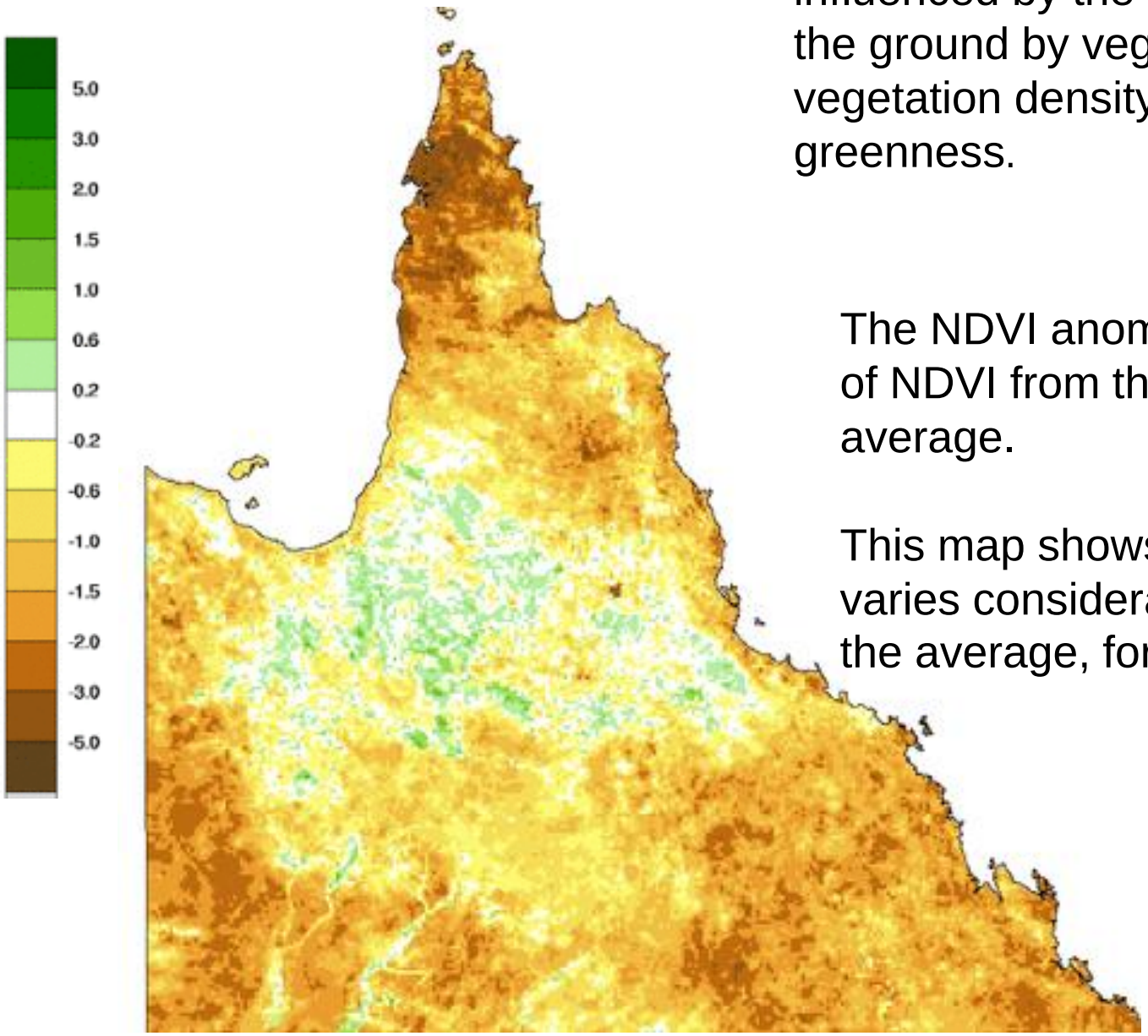


Range	(percentile)
Extremely low	(0-10)
Well below average	(10-20)
Below Average	(20-30)
Average	(30-70)
Above average	(70-80)
Well above average	(80-90)
Extremely high	(90-100)

This map shows about half of the State has average fuel loads and extensive areas have very low fuel loads compared to the long term average for May

https://www.longpaddock.qld.gov.au/aussiegrass/

Monthly NDVI Anomaly

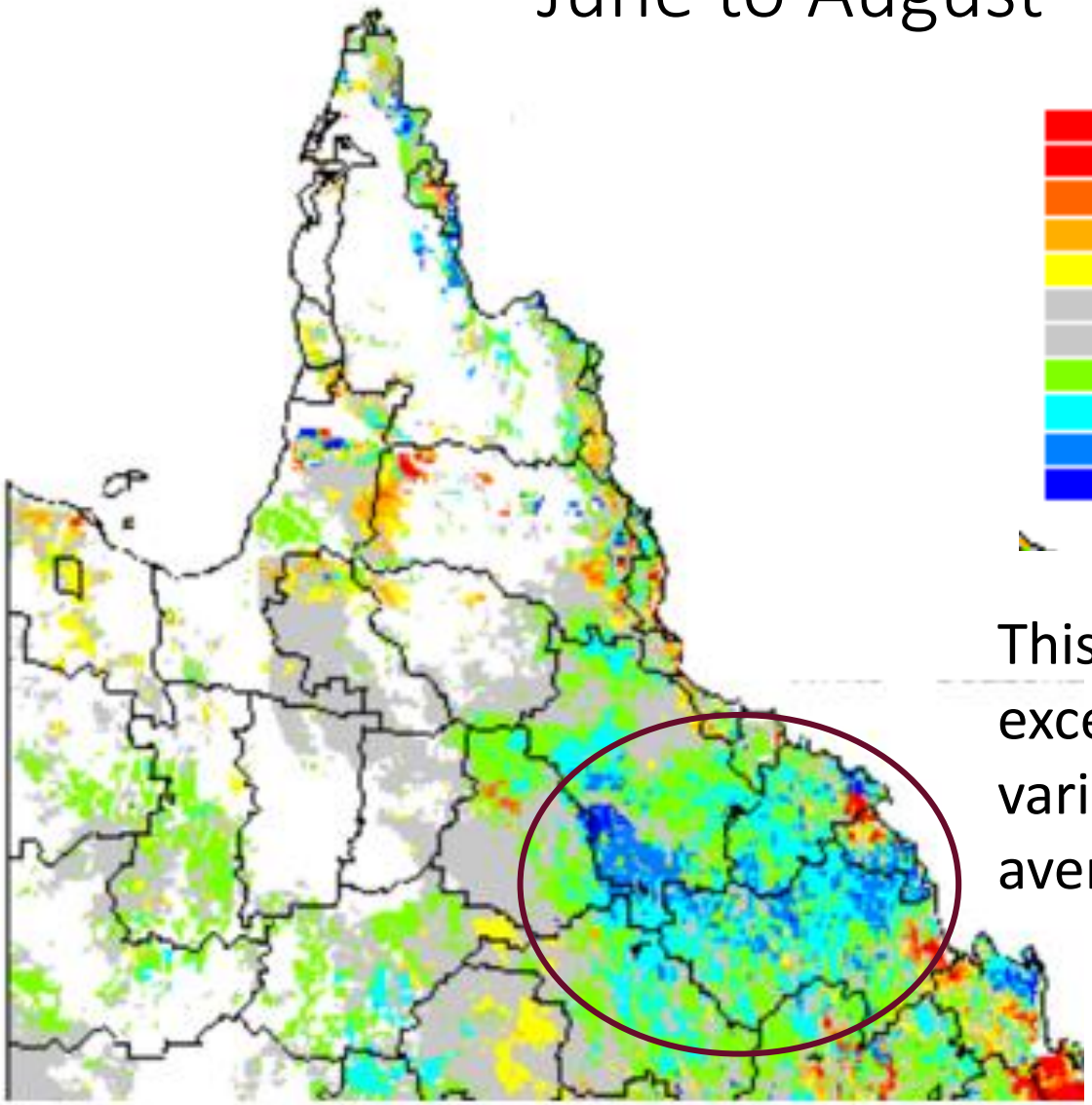


NDVI is an index which measures vegetation density and condition. It is influenced by the fractional cover of the ground by vegetation, the vegetation density and the vegetation greenness.

The NDVI anomaly is the departure of NDVI from the long-period average.

This map shows grass condition varies considerably compared to the average, for this time of year

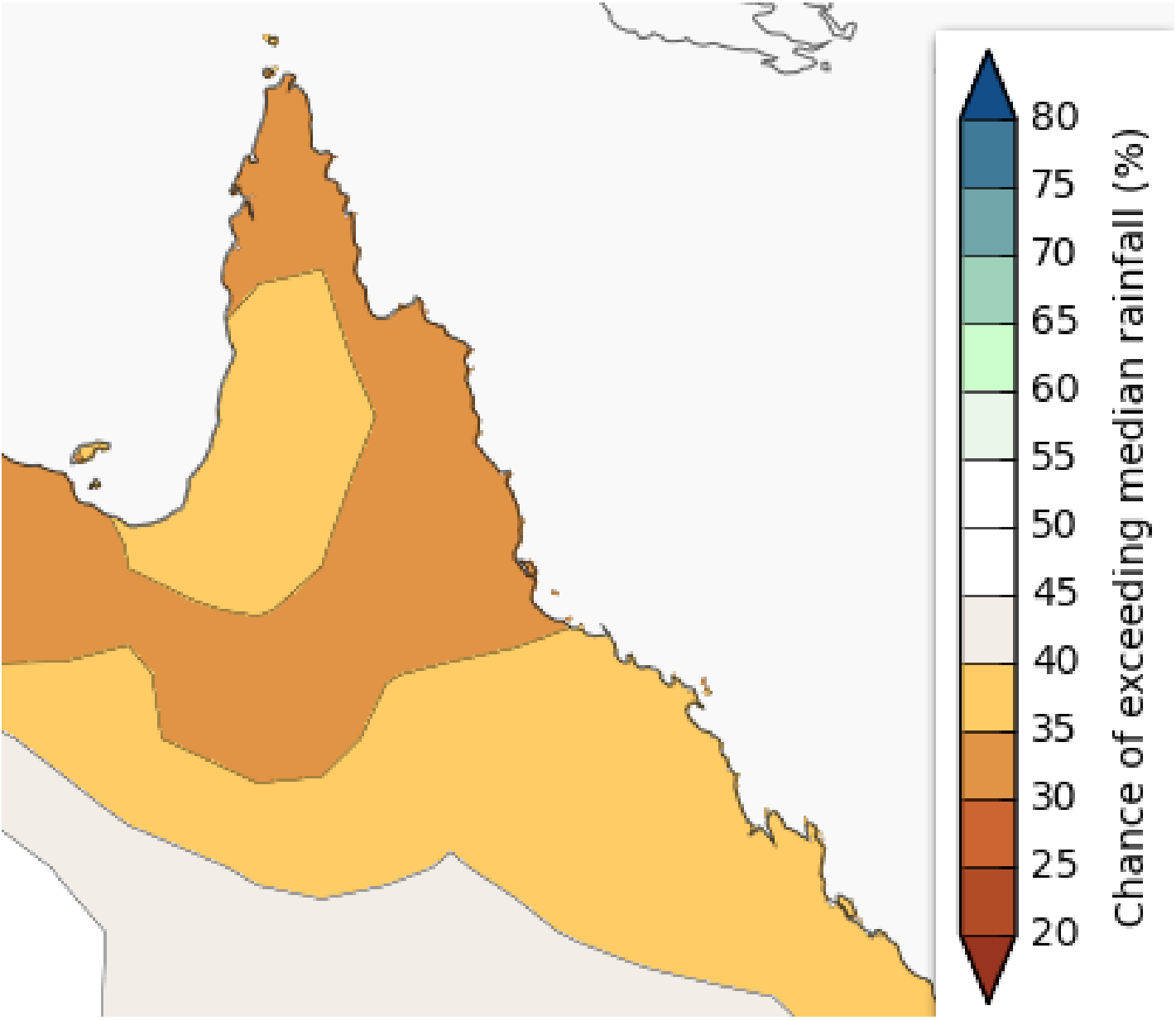
Chance of exceeding median growth June to August



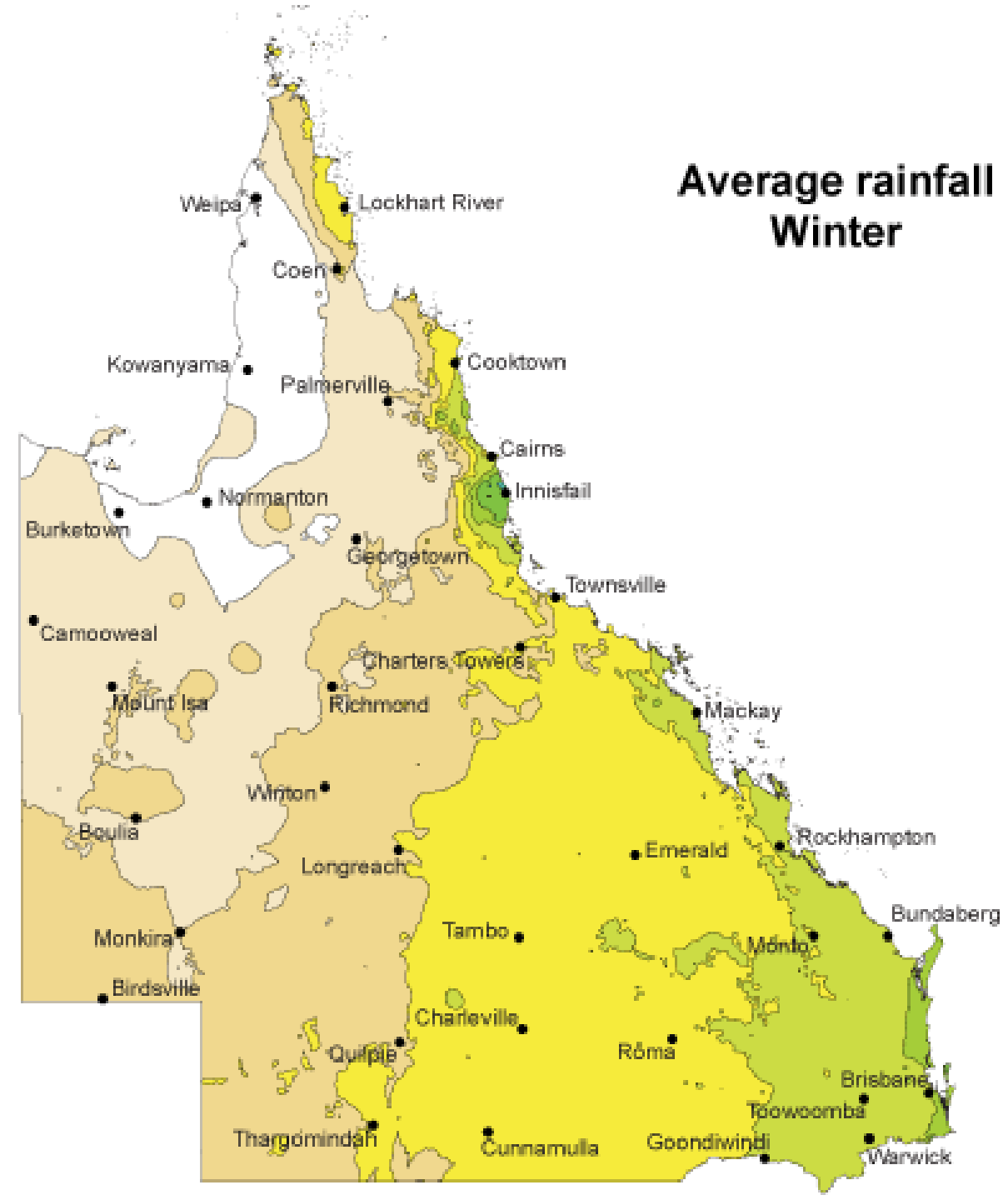
Nitrogen or water limited growth
0-10%
10-20%
20-30%
30-40%
40-60%
60-70%
70-80%
80-90%
90-100%
White = Seasonally low growth

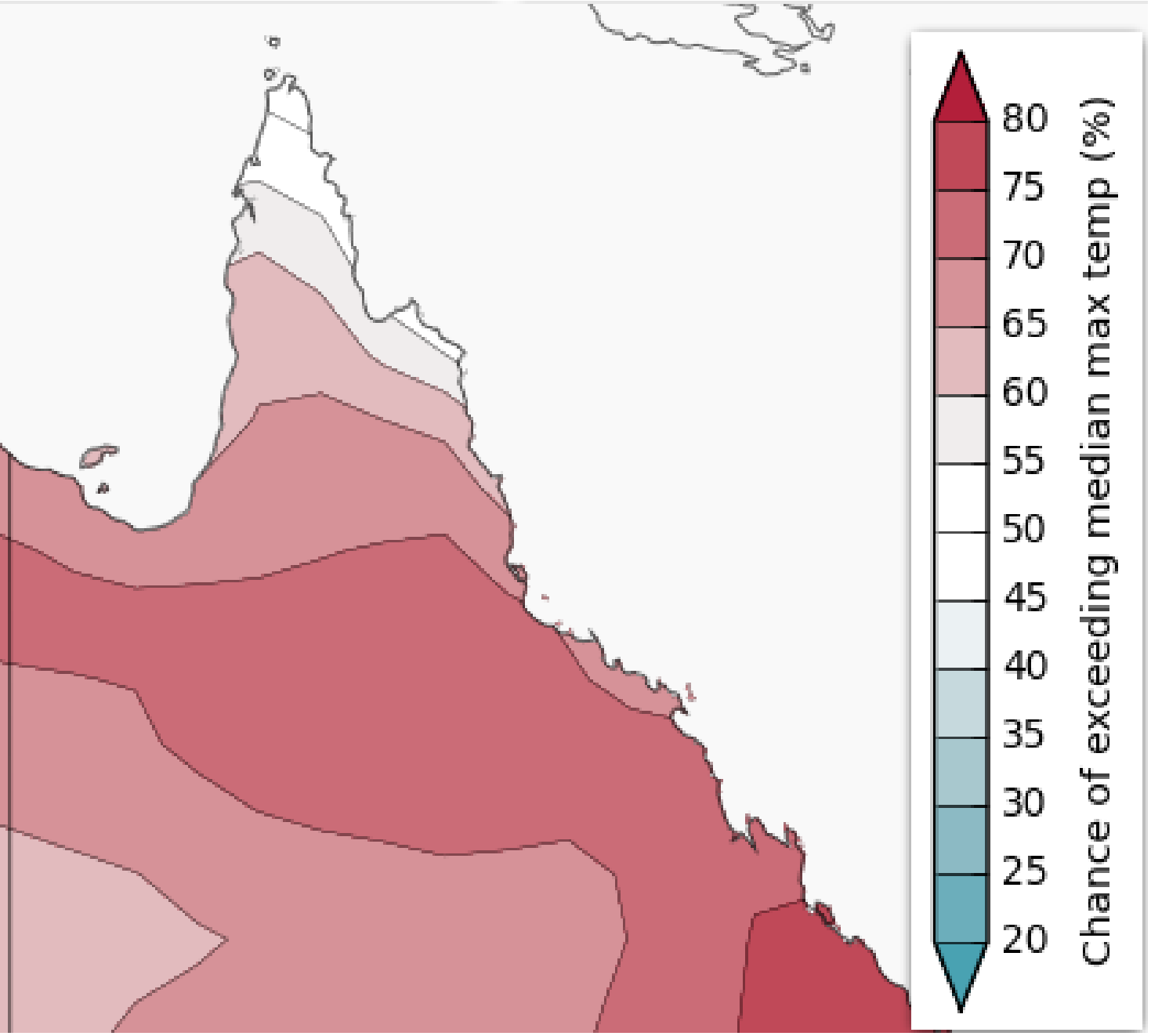
This map shows the chance of exceeding average growth is variable but generally around average

https://www.longpaddock.qld.gov.au/aussiegrass/

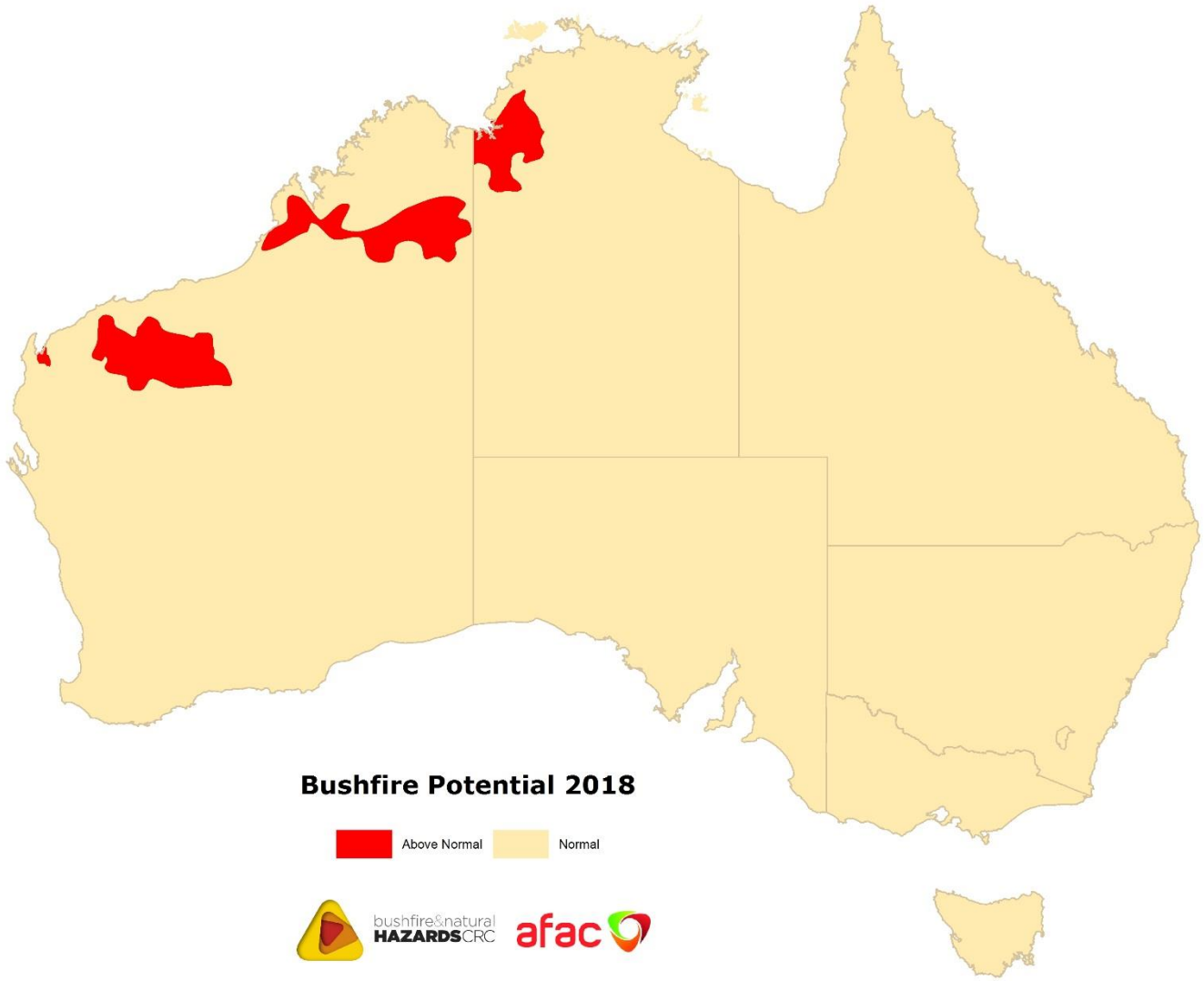


This map shows lower than average rainfall is likely this Winter


Average rainfall
Winter
Millimetres
1200
800
600
400
300
200
100
50
25
10
0
Weipa
Lockhart River
Coen
Kowanyama
Cooktown
Palmerville
Cairns
Innisfail
Normanton
Burketown
Georgetown
Townsville
Camooweal
Charters Towers
Mount Isa
Richmond
Mackay
Winton
Boulia
Rockhampton
Emerald
Longreach
Bundaberg
Tambo
Monto
Monkira
Birdsville
Charleville
Roma
Quilpie
Brisbane
Toowoomba
Thargomindah
Cunnamulla
Goondiwindi
Warwick



This map shows a high likelihood of above average max. temp this Winter


Bushfire Potential 2018
Above Normal
Normal
bushfire&natural
HAZARDSCRC
afac

Conclusions

- There are currently no strong climate drivers, currently at El Nino Watch. An El Nino year typically has a delayed start to the wet season
  - Average grass fuel loads
  - Widespread areas with very much below average grass fuel loads have above average growth forecast
  - Variable curing values compared to average for this time of year
  - The effects of TC Debbie on the fuels inland from Mackay mean that bushfire potential is still elevated in some of these areas
  - Lower than average rainfall and hotter temperatures in the preceding months- dryer than average soil moisture, particularly along the coast making more of the forest fuels available
  - It is likely the winter will be hotter and drier than average
- The outlook for Northern Queensland is generally for average fire potential. Patches of above average potential TBA