

Welcome <state> HRWS preparedness briefing During this briefing

- 1. Overview of the 2020/21 HRWS
- 2. Overview of COVID RFAs for 2020/21
- 3. BOM update for the 21/22 HRWS
- 4. ADF update inc JTG arrangements
- 5. NRRA update
- 6. Enhanced EMA (\$92 million on the federal budget)
- 7. National Emergency Declaration
- 8. AGCMF update



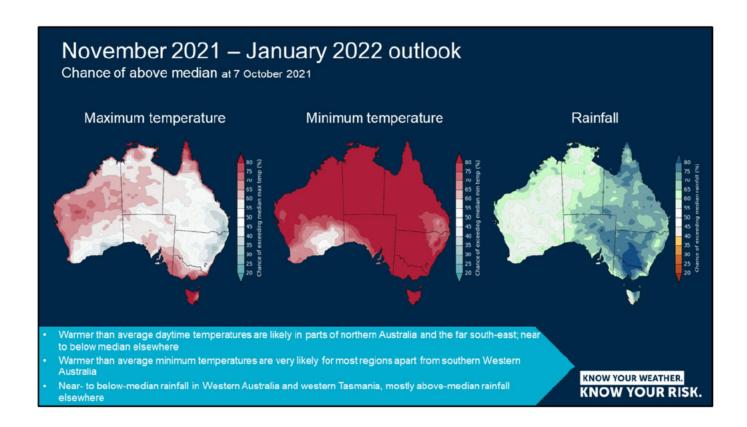
Summary of selected hazards from a broadscale, seasonal perspective (based on most likely, relevant climate conditions and drivers). Updated 6 October 2021

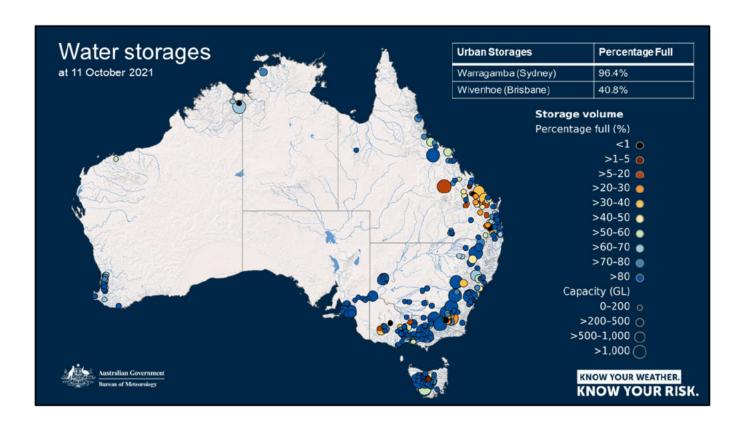
Climate influences for coming months

- El Niño-Southern Oscillation (ENSO)
 - A La Niña ALERT has been issued, meaning around 70% chance of La Nina in 2021
 - La Niña is likely to develop in November
- Indian Ocean Dipole (IOD)
 - A weak negative IOD is currently underway
- · Sea surface temperature (SST)
- Water temperatures around northern Australia are currently above-average
- Sustained warm waters can significantly influence the local climate
- · Long-term trends
 - Australia's climate has warmed by ~1.44°C over the 1910–2019 period. Rainfall across northern
 Australia during its wet season (October–April) has increased since the late 1990s. In recent
 decades there has been a trend towards a greater proportion of rainfall from high intensity short
 duration rainfall events especially in northern Australia.
 - These trends can become more apparent in the outlooks when other climate drivers are neutral

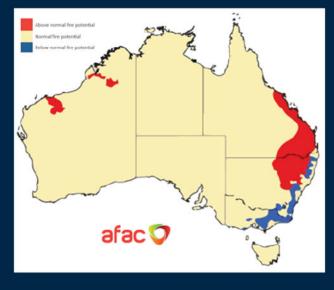


KNOW YOUR WEATHER.
KNOW YOUR RISK.





Australian Seasonal Bushfire Outlook: September-November 2021



- In areas that receive above-average rainfall during spring, enhanced grass growth is likely
- This may lead to above-normal grassfire risk during summer, if weather conditions are favourable for vegetation curing
- Lower risk is expected for parts of the east coast with lower fuel loads due to 2019–20 fires
- Normal fire risk does not mean there is no risk, and areas designated as normal fire potential may still experience fire



KNOW YOUR WEATHER.
KNOW YOUR RISK.

Bushfire Seasonal Outlook for Spring 2021

Tropical cyclone seasonal outlook 2021–22 Northern region Warm waters around northern Australia Average: 3 TCs and the sea surface temperature pattern Chance of more: 57% across the tropical Pacific Ocean, means North-west subregion average to slightly above-average tropical Average: 5 TCs cyclone numbers (tropical cyclones and Chance of more: 62 Eastern region tropical lows) are expected in 2021-22 Average: 4 TCs Western region Chance of more: 66% The average number of tropical cyclones Average: 7 TCs Chance of more: 61% per season since 1969-70 is 11, but with fewer tropical cyclones (~9 per season) in Australia recent decades Average: 11 TCs Chance of more: 65% An increasing proportion of severe tropical cyclones and associated high rainfall intensity has been observed in recent decades. Note: a single tropical cyclone can cross several regions being Around 65% chance of an above-average number of tropical cyclones across the Australian Region Based on the 8 negative IOD years since 1970 the average date of the first TC (18 November) is 3 weeks earlier than usual (5 December) KNOW YOUR WEATHER. KNOW YOUR RISK.

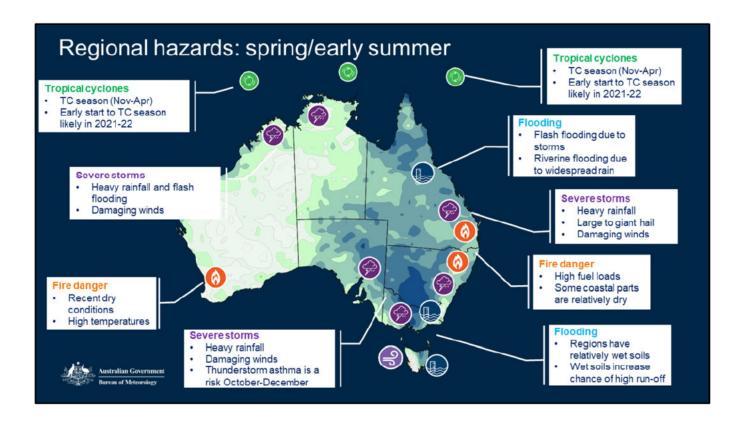
La Niña and negative IOD both have correlations with the following across northern Australia:

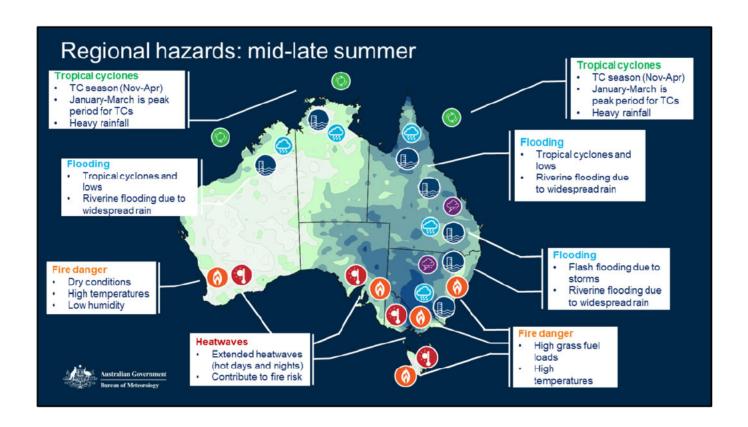
- Earlier than normal monsoon onset (at Darwin)
- Above average total rainfall averaged across northern Australia during the northern wet season (October-April)
- Above average number of seasonal TCs across Australian region

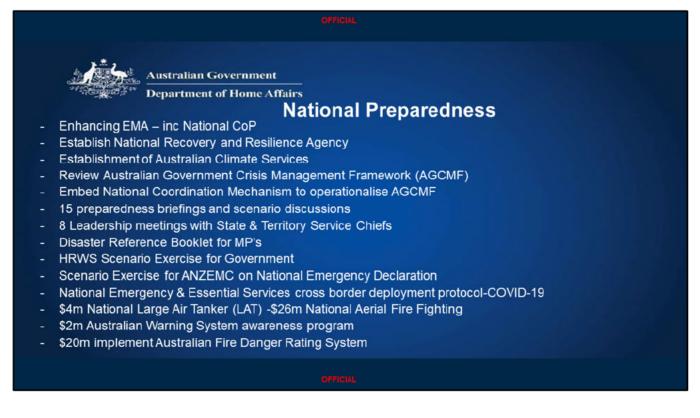
In La Niña years, the first Australian landfall typically occurs early December, ~3 weeks earlier than usual

- Earlier than average occurrence of first TC of season
- Earlier than average occurrence of first landfalling TC of season
- Only times multiple severe TCs have made landfall on Queensland was during La Niña

1982 Department of Home Affairs Act reedom PV Released B







Welcome <state> HRWS preparedness briefing During this briefing

- 1. Overview of the 2020/21 HRWS
- 2. Overview of COVID RFAs for 2020/21
- 3. BOM update for the 21/22 HRWS
- 4. ADF update inc JTG arrangements
- 5. NRRA update
- 6. Enhanced EMA (\$92 million on the federal budget)
- 7. National Emergency Declaration
- 8. AGCMF update