

# El Niño Update

## Eastern Region

Michelle L'Heureux  
Climate Prediction Center / NCEP/ NOAA  
24 November 2015

# Summary

ENSO Alert System Status: El Niño Advisory

El Niño conditions are present.\*

Positive equatorial sea surface temperature (SST) anomalies continue across most of the Pacific Ocean.

El Niño will likely peak during the Northern Hemisphere winter 2015-16, with a transition to ENSO-neutral anticipated during the late spring or early summer 2016.\*

Is expected to be among the top 3 strongest El Niños going back to 1950.

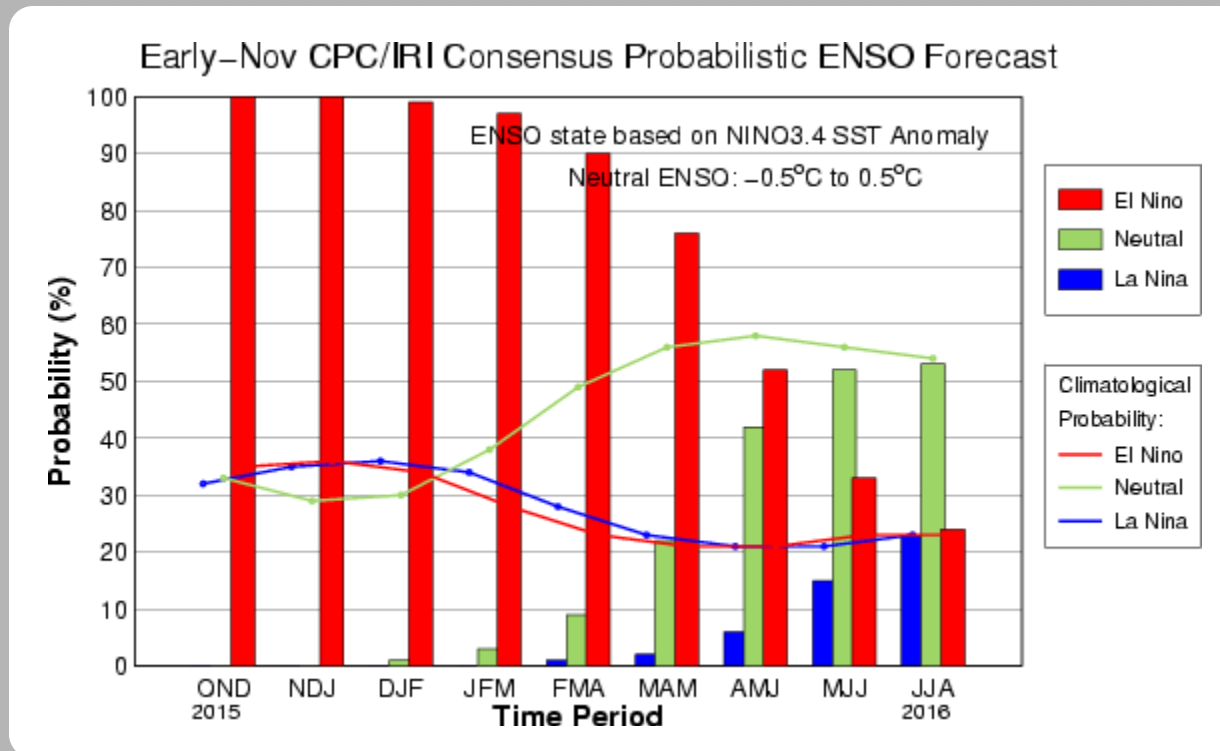
**ENSO Diagnostics Discussion** [http://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/enso\\_advisory/ensodisc.html](http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/ensodisc.html)

**ENSO Blog** <http://www.climate.gov/news-features/department/enso-blog>

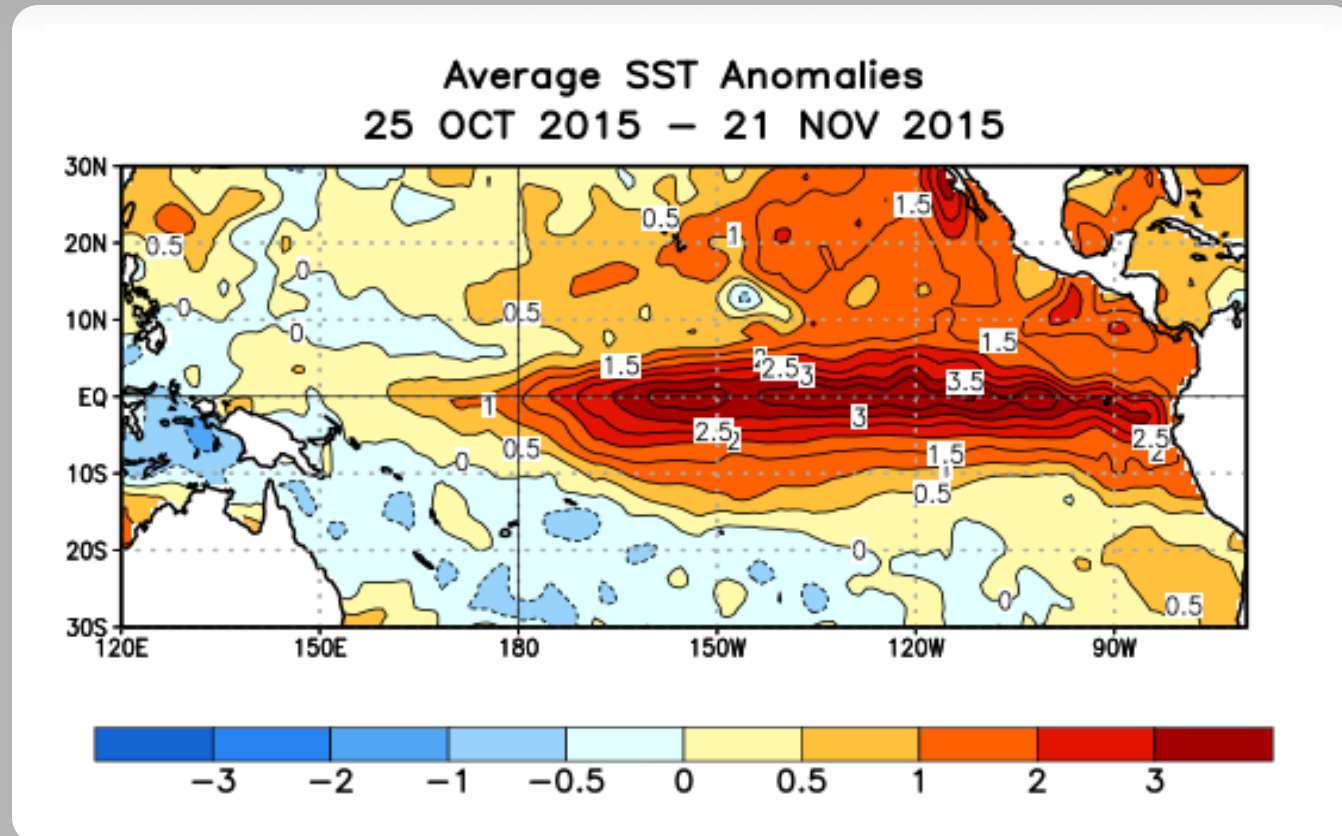
# Current Niño-3.4 SST Probabilities

Updated: 12 November 2015

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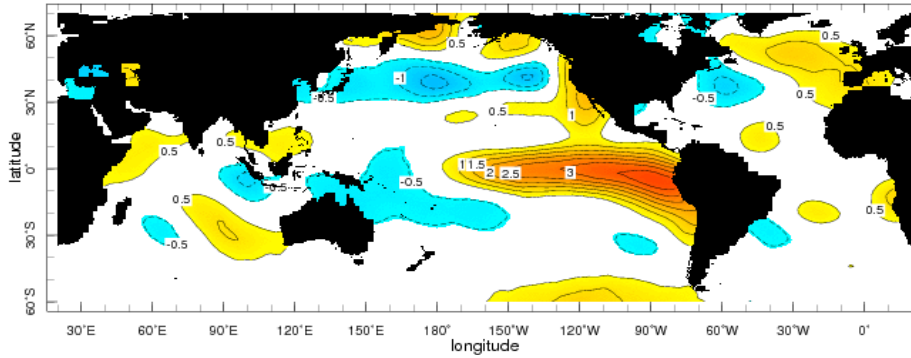
# SST Departures (°C) in the Tropical Pacific During the Last Four Weeks



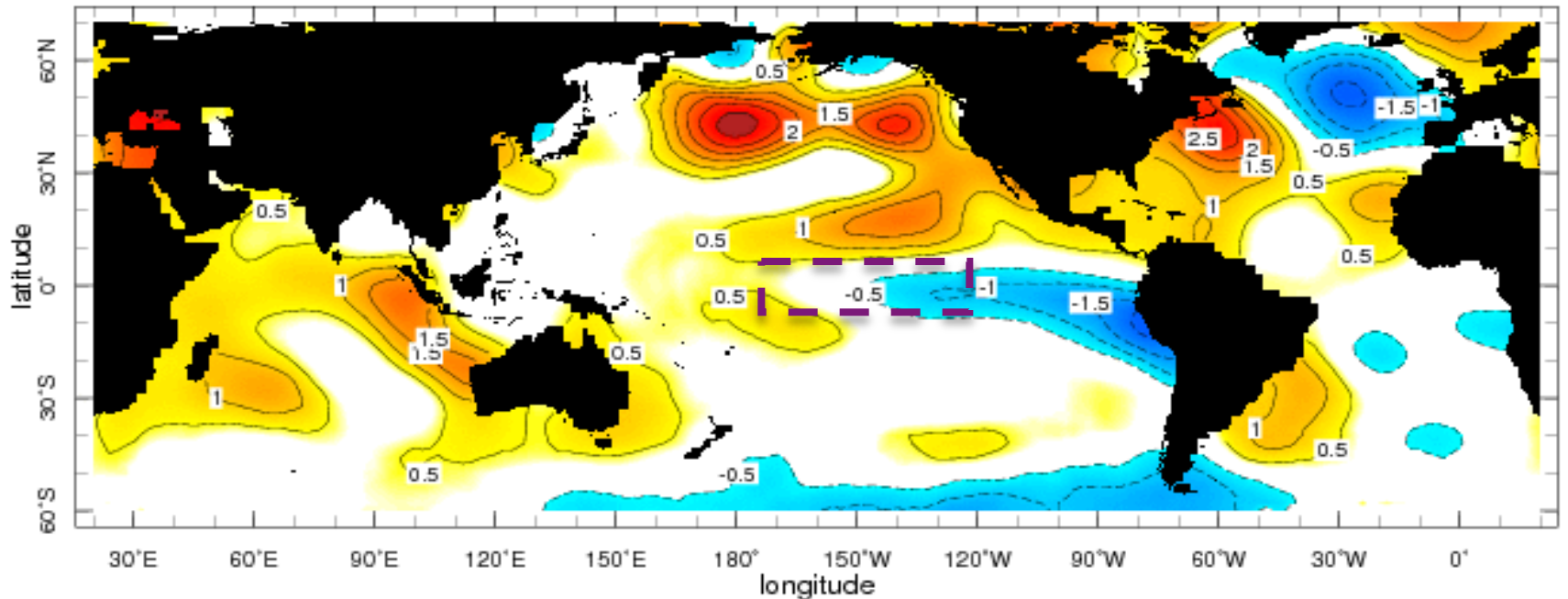
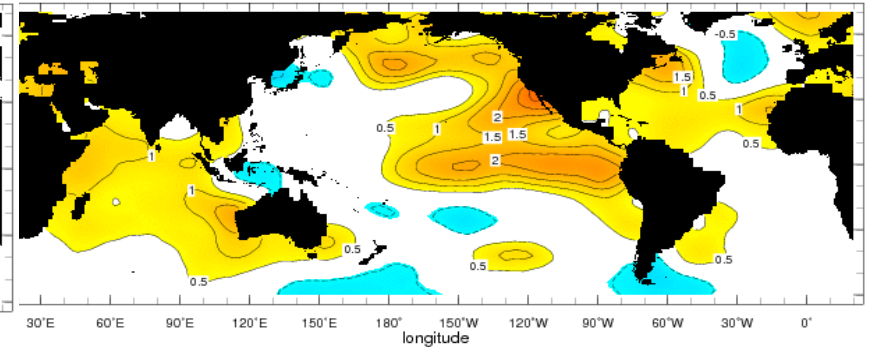


# How October 2015 is Different from 1997 (ERSSTv4)

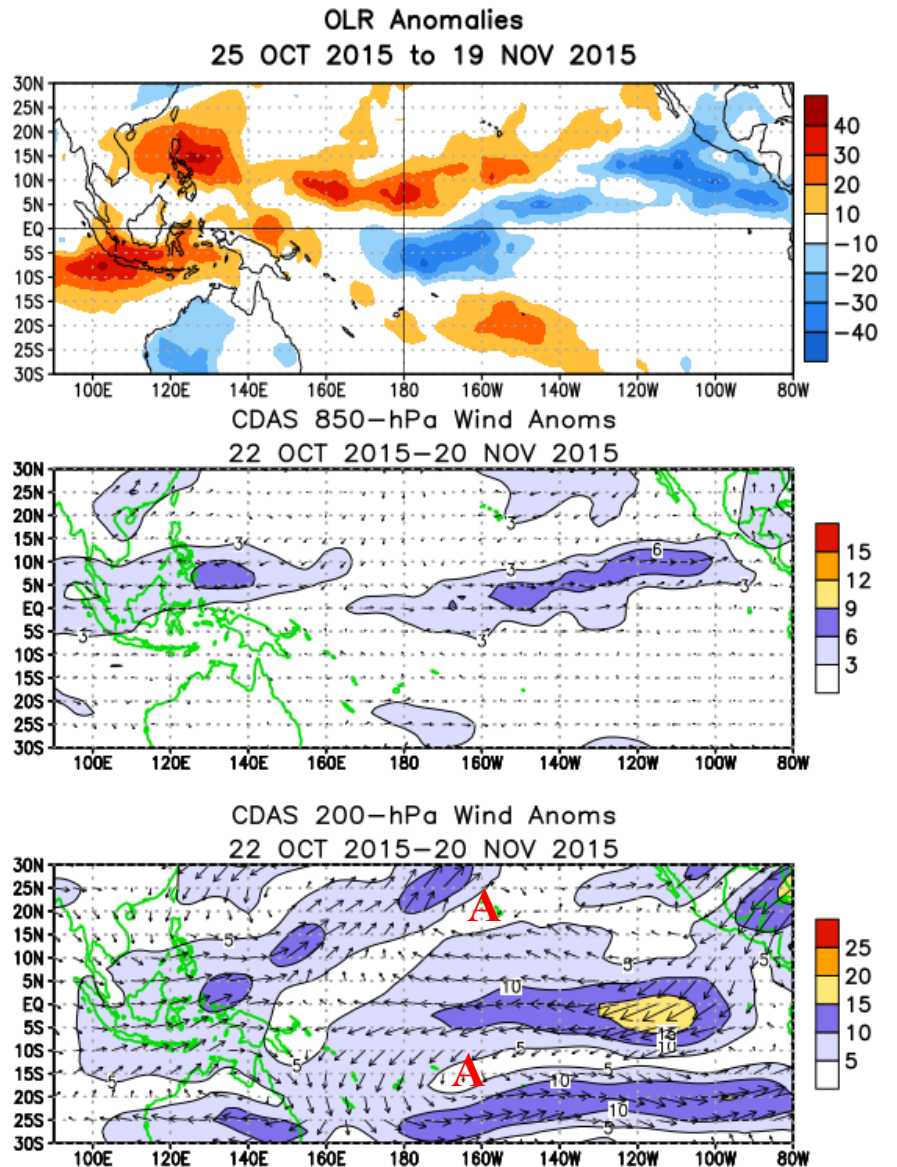
Oct 1997



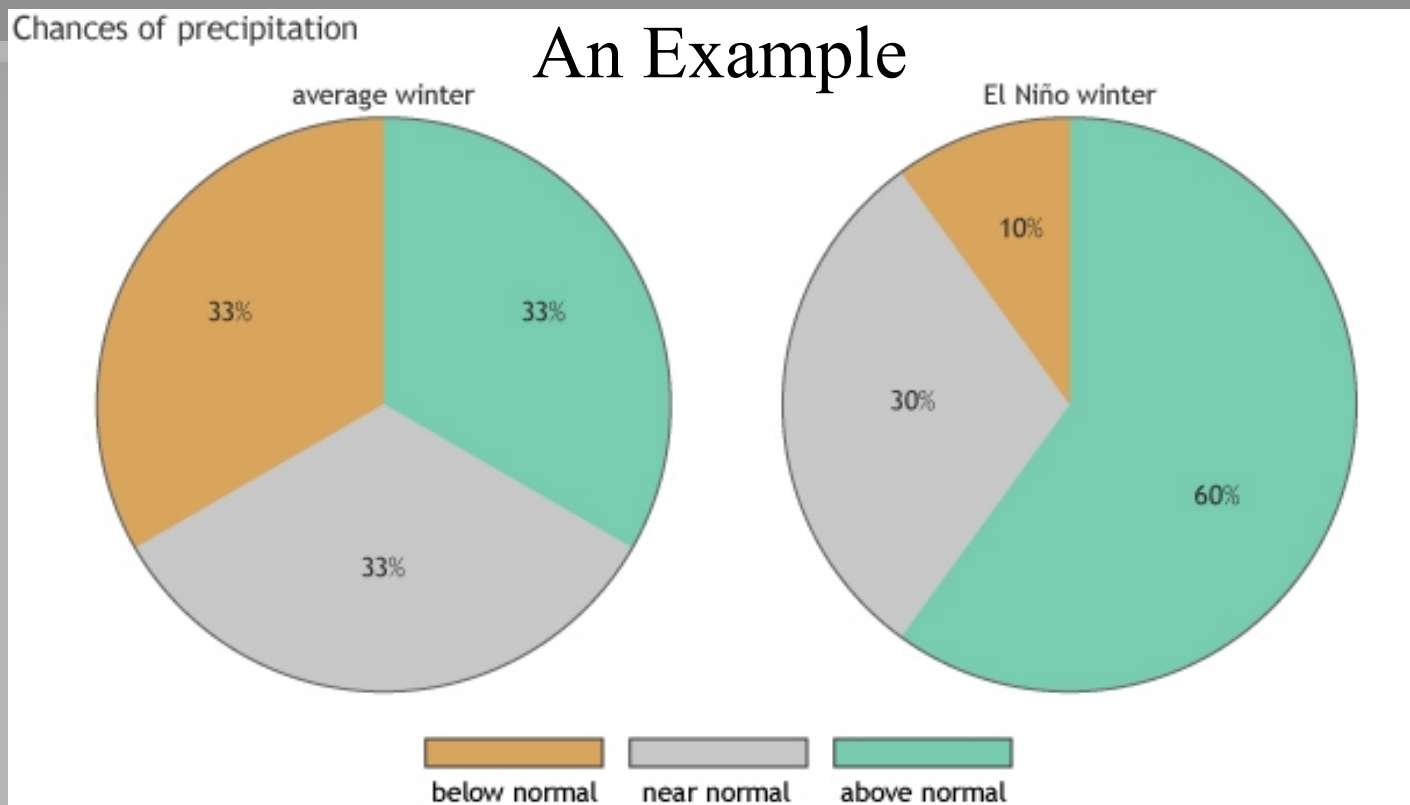
Oct 2015



# Tropical OLR and Wind Anomalies During the Last 30 Days



El Niño changes the odds for certain impacts.  
The % shift tends to be larger for stronger El Niño events.

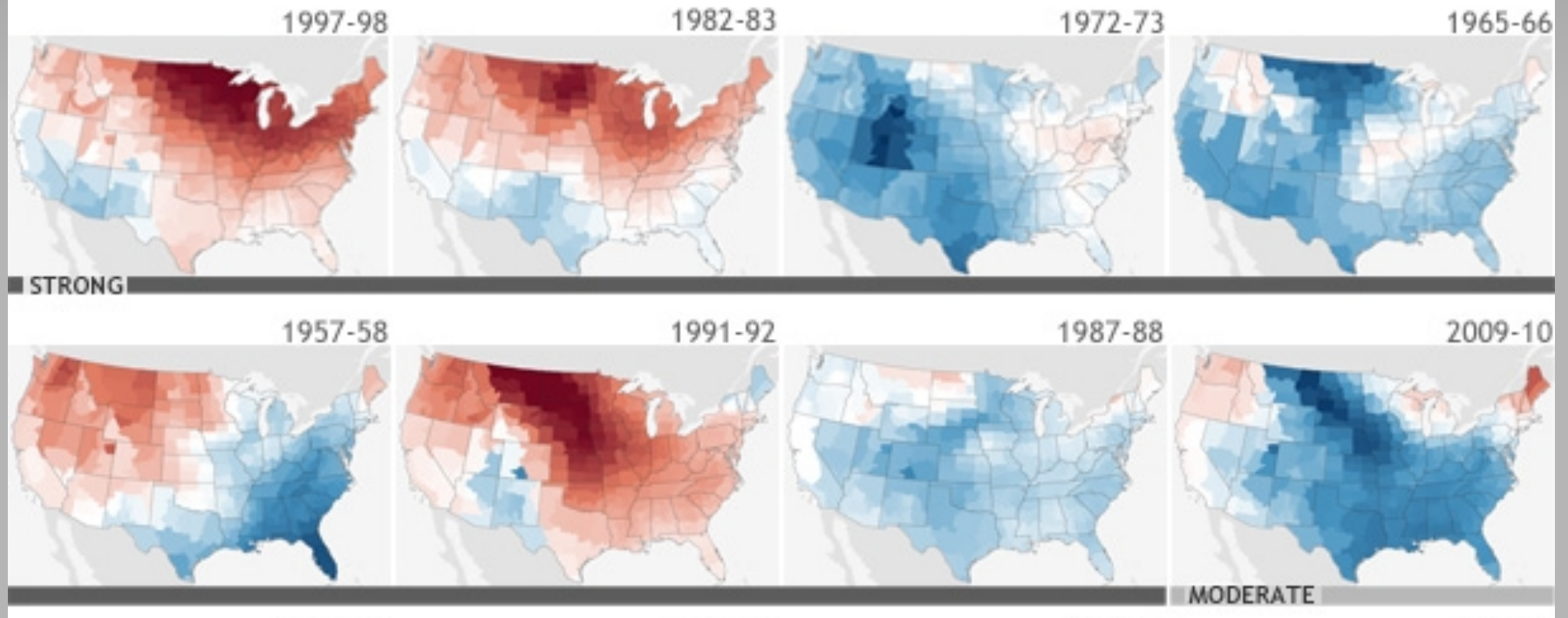


... but, impacts are never guaranteed in seasonal climate prediction because there are unpredictable elements that influence the result.



# December-February Temperature & Precipitation Impacts are not identical even with a Strong El Niño

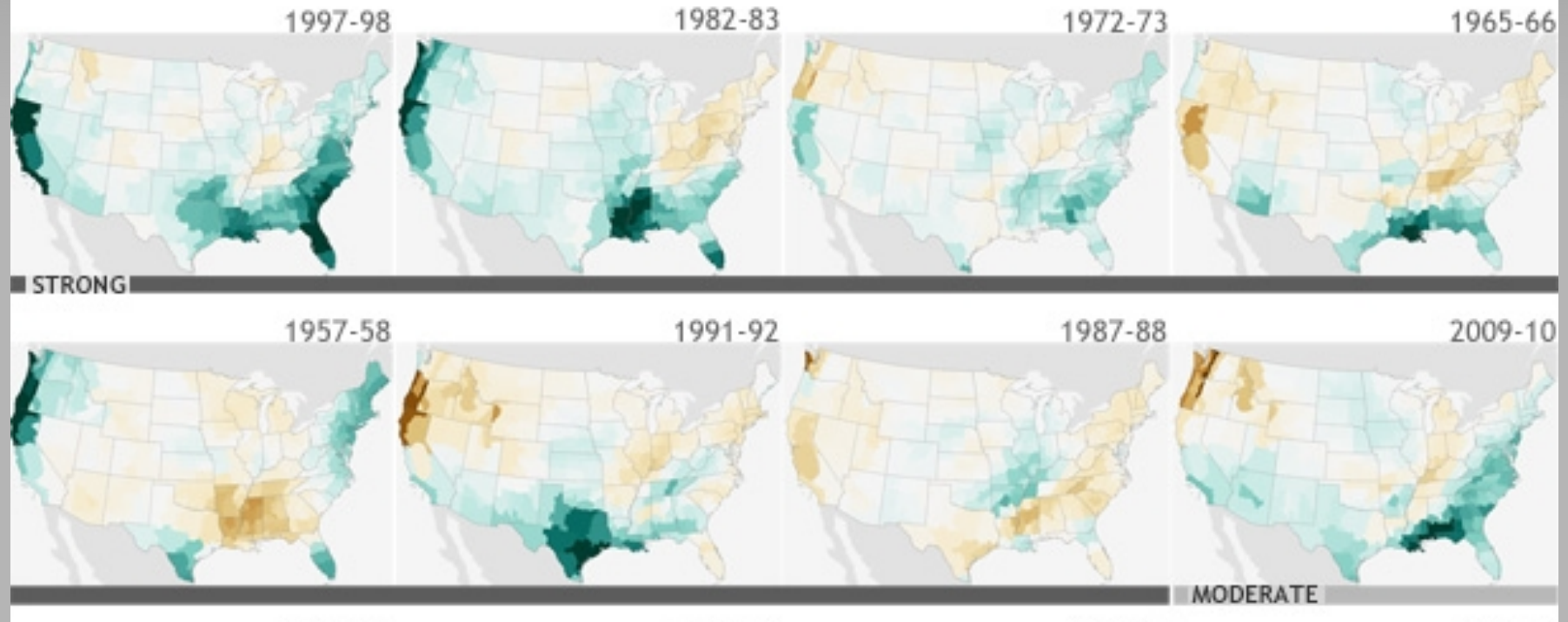
Winter temperature patterns during strong, moderate, and weak El Niño events since 1950



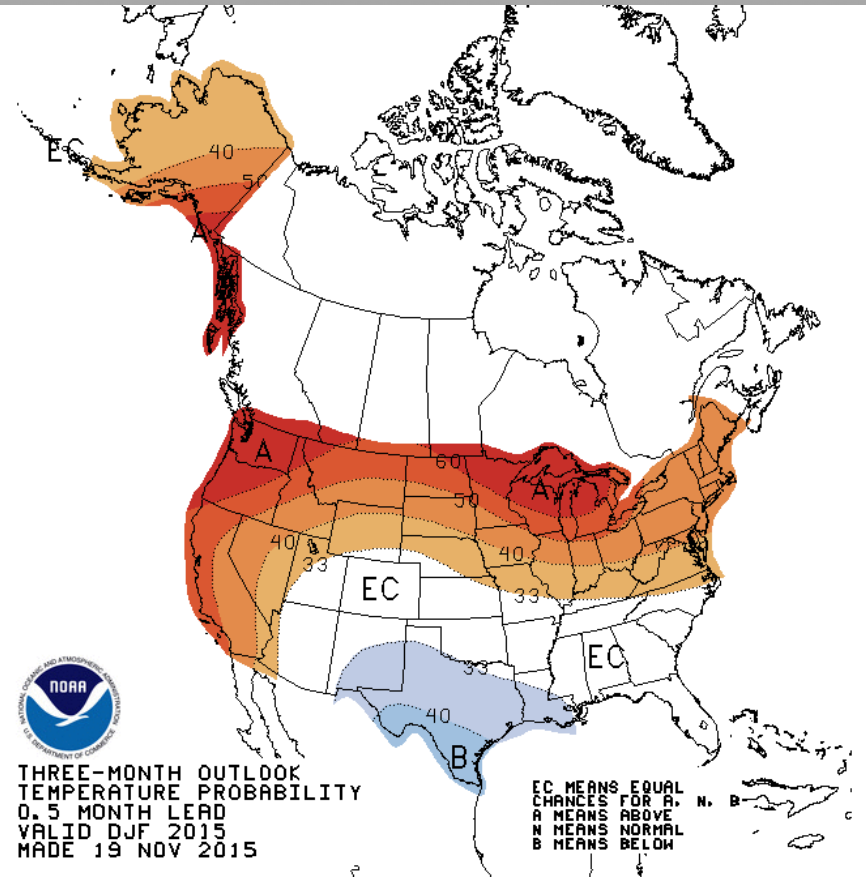
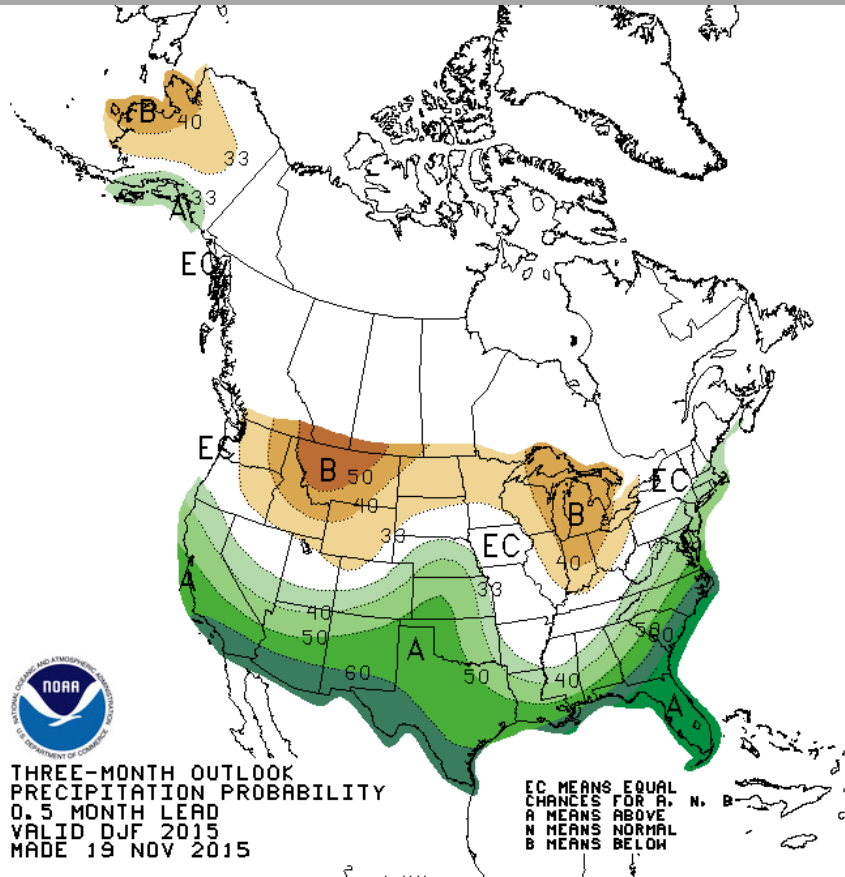
# December-February Temperature & Precipitation

## Impacts are not identical even with a Strong El Niño

Winter precipitation patterns during strong, moderate, and weak El Niño events since 1950



# December-January-February (DJF) Outlook (similar in JFM and FMA)



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