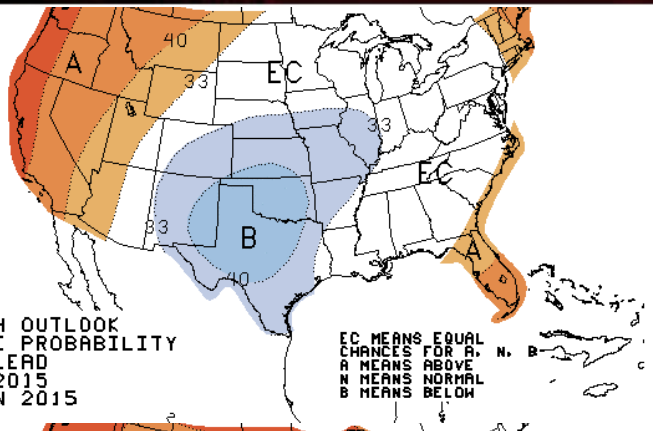
Drought Update, Forecast, and Implications

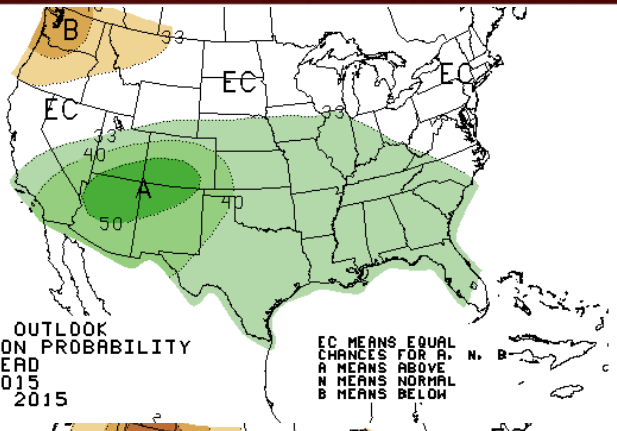
John W. Nielsen-Gammon, Texas A&M University
Texas State Climatologist

TEXAS A&M UNIVERSITY



THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
2.5 MONTH LEAD
VALID SON 2015
MADE 18 JUN 2015

EC MEANS EQUAL CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
2.5 MONTH LEAD
VALID SON 2015
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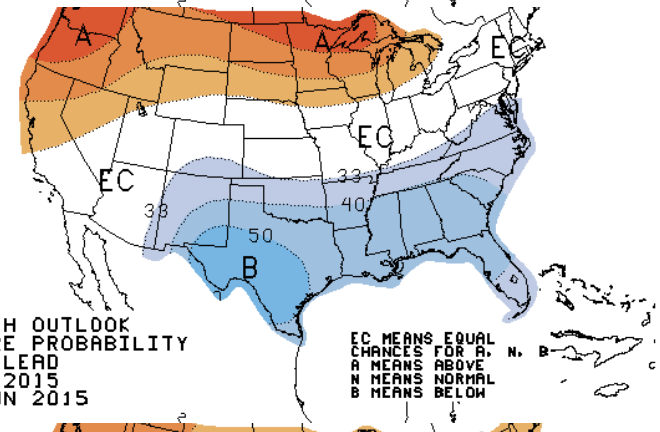

THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
5.5 MONTH LEAD
VALID DJF 2015
MADE 18 JUN 2015

EC MEANS EQUAL CHANCES FOR A, N, B
A MEANS ABOVE
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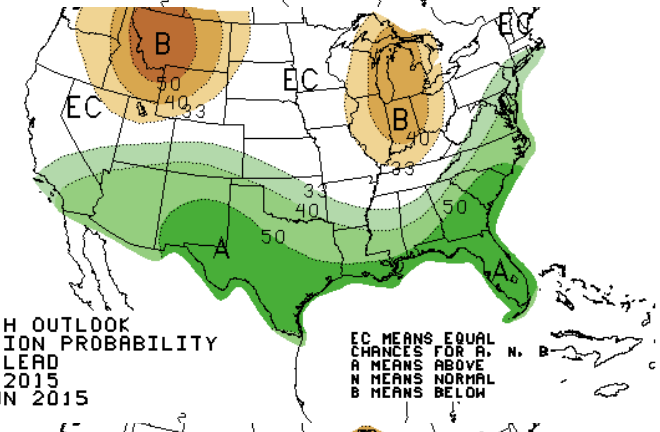
B MEANS BELOW



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PRECIPITATION PROBABILITY
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VALID DJF 2015
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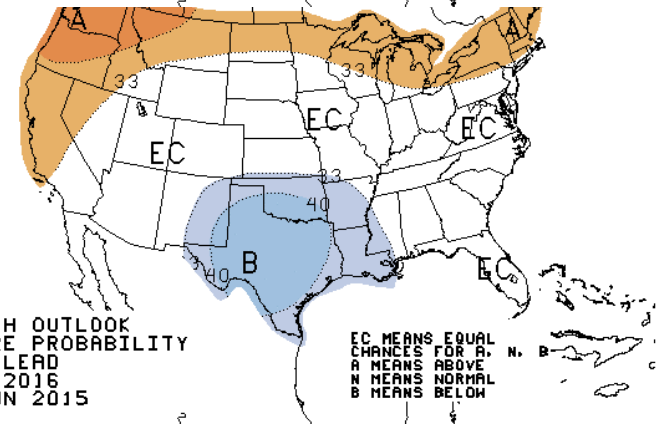

THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
8.5 MONTH LEAD
VALID MAM 2016
MADE 18 JUN 2015

EC MEANS EQUAL CHANCES FOR A, N, B
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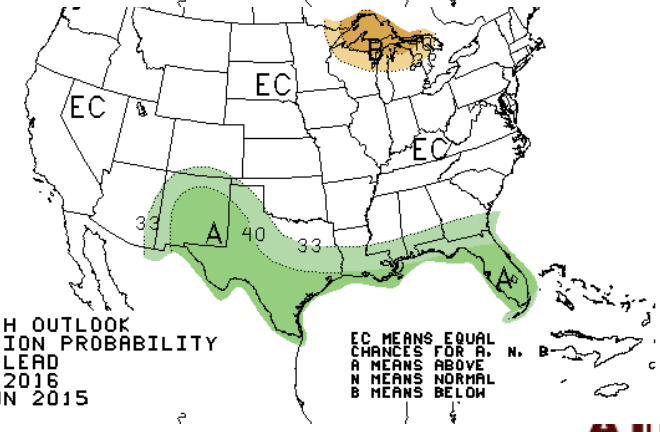
N MEANS NORMAL
B MEANS BELOW



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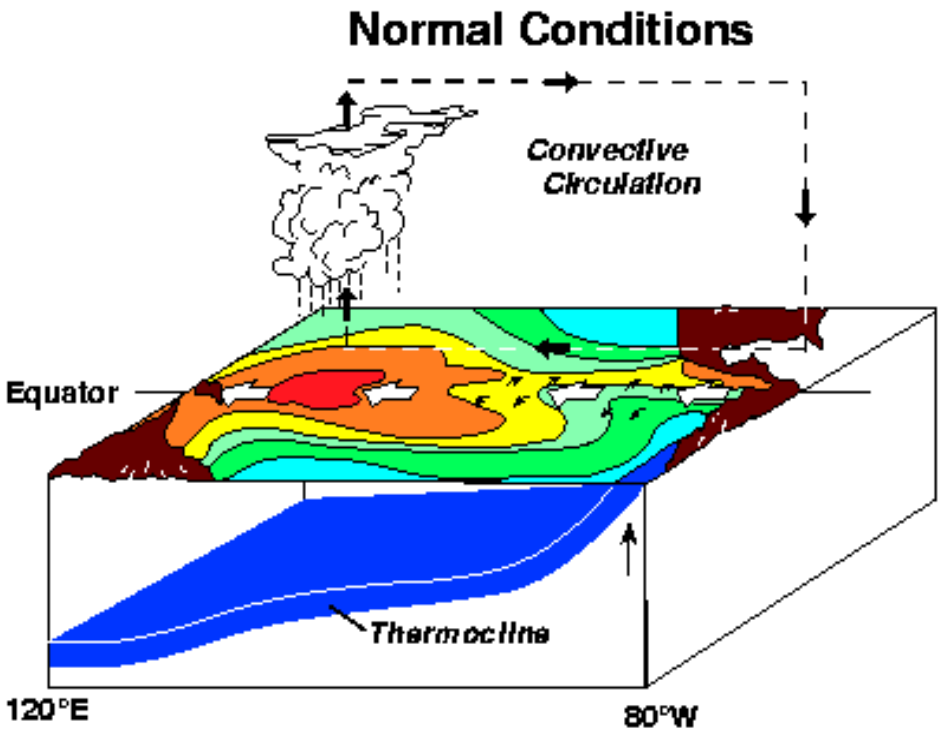
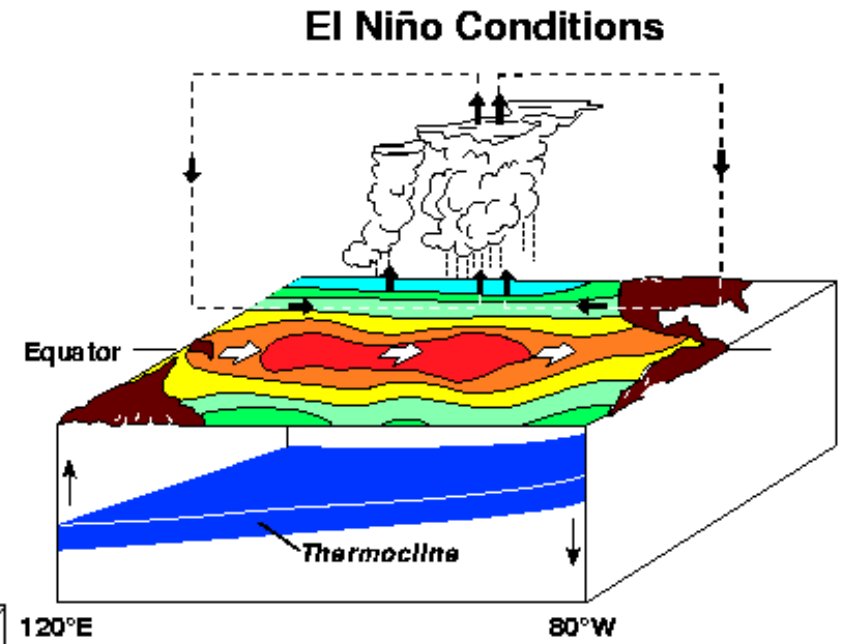
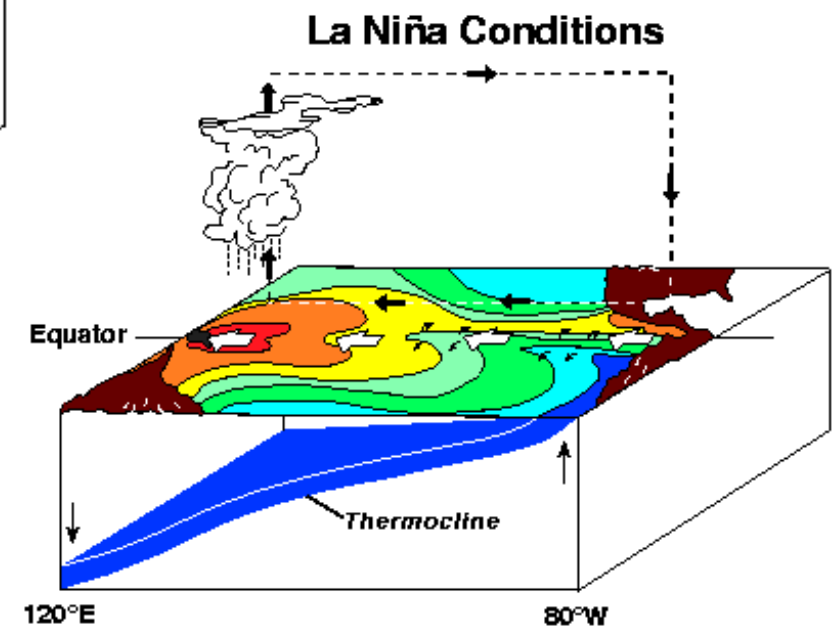
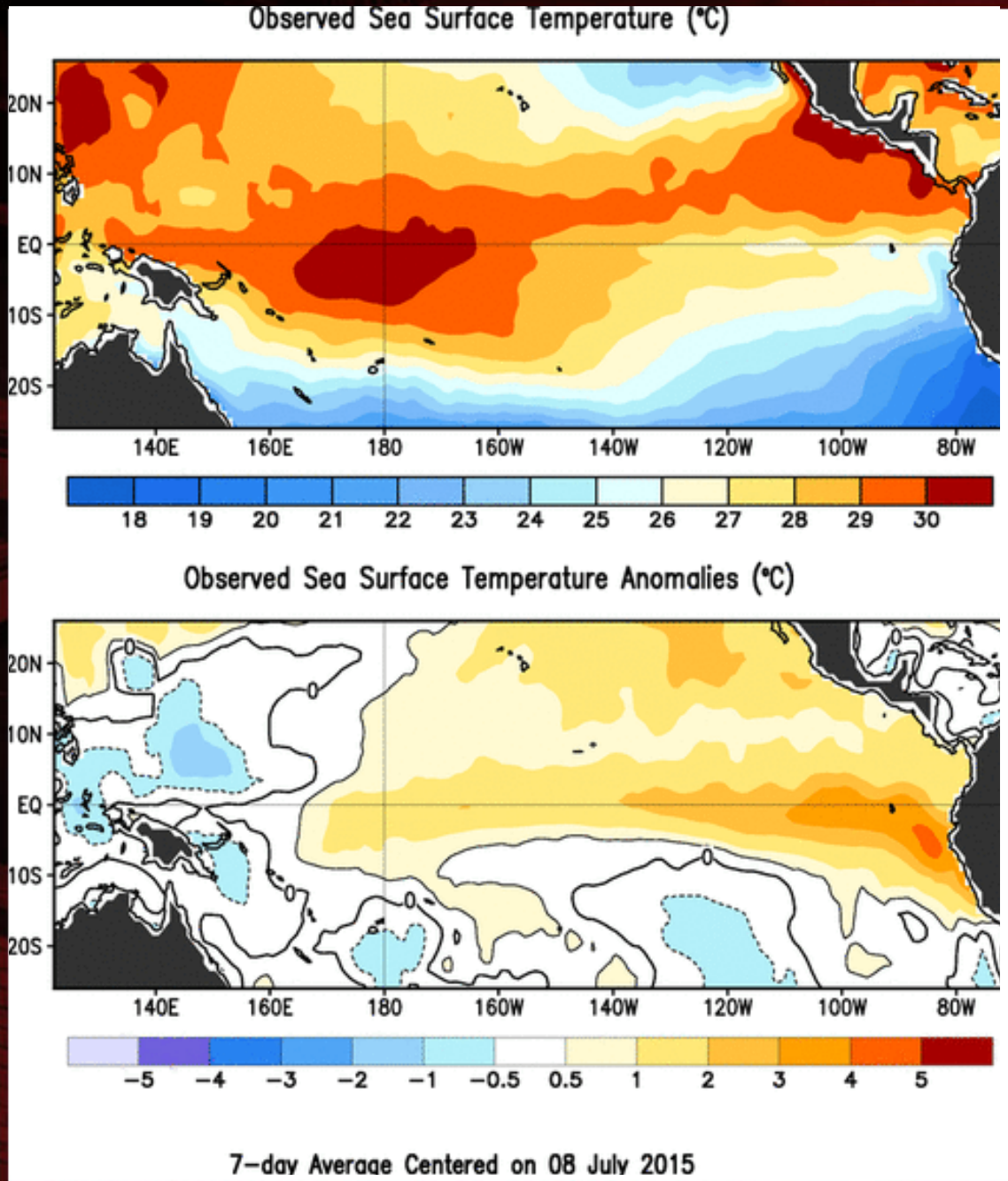






http://www.pmel.noaa.gov/tao/proj_over/diagrams/



http://
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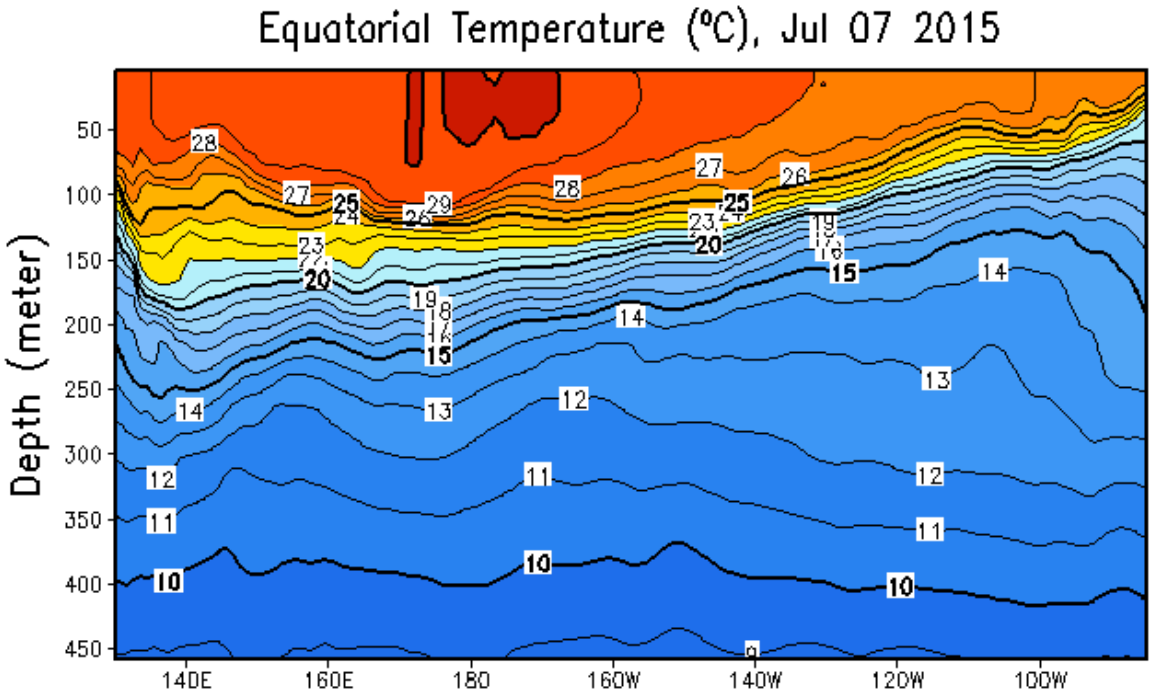

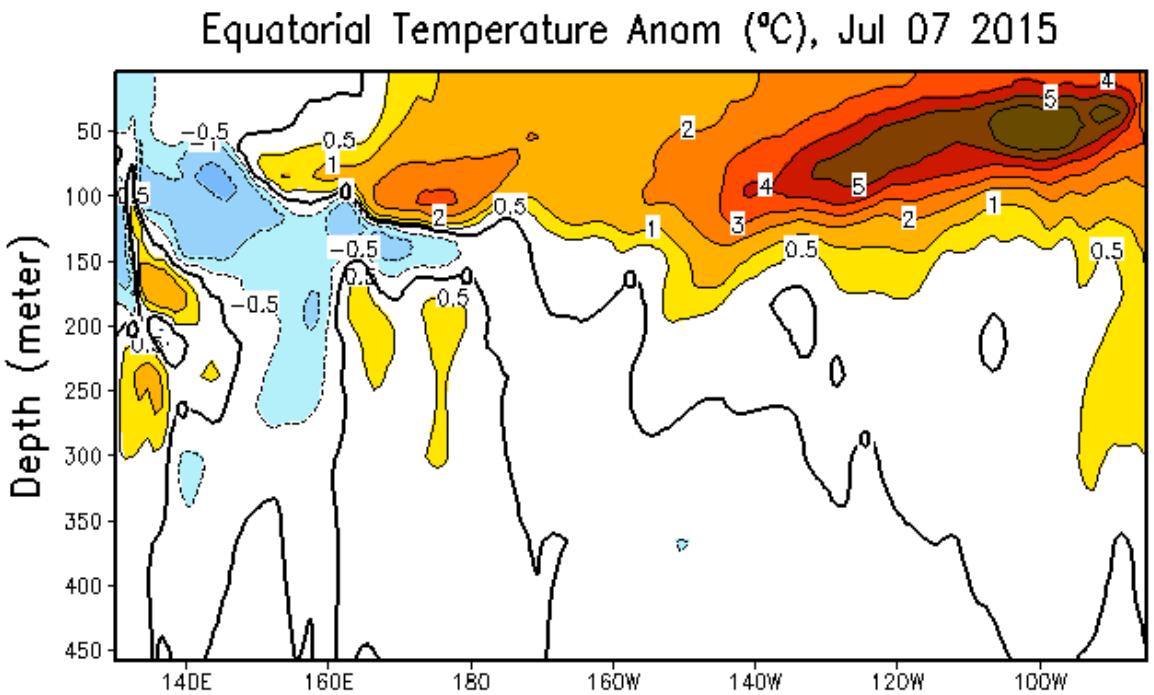

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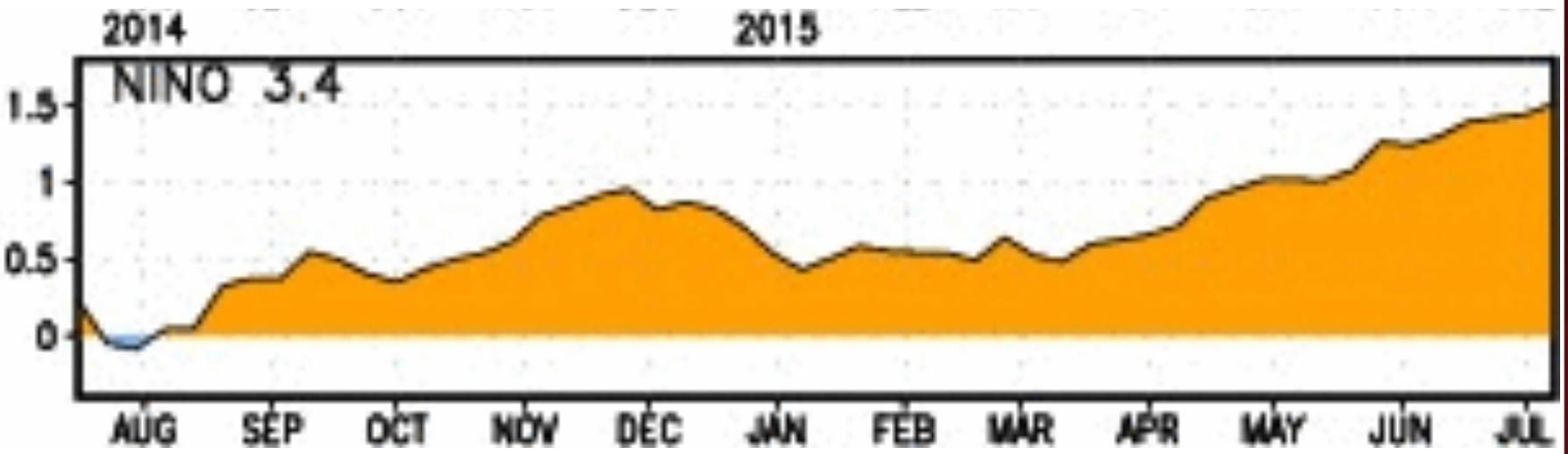

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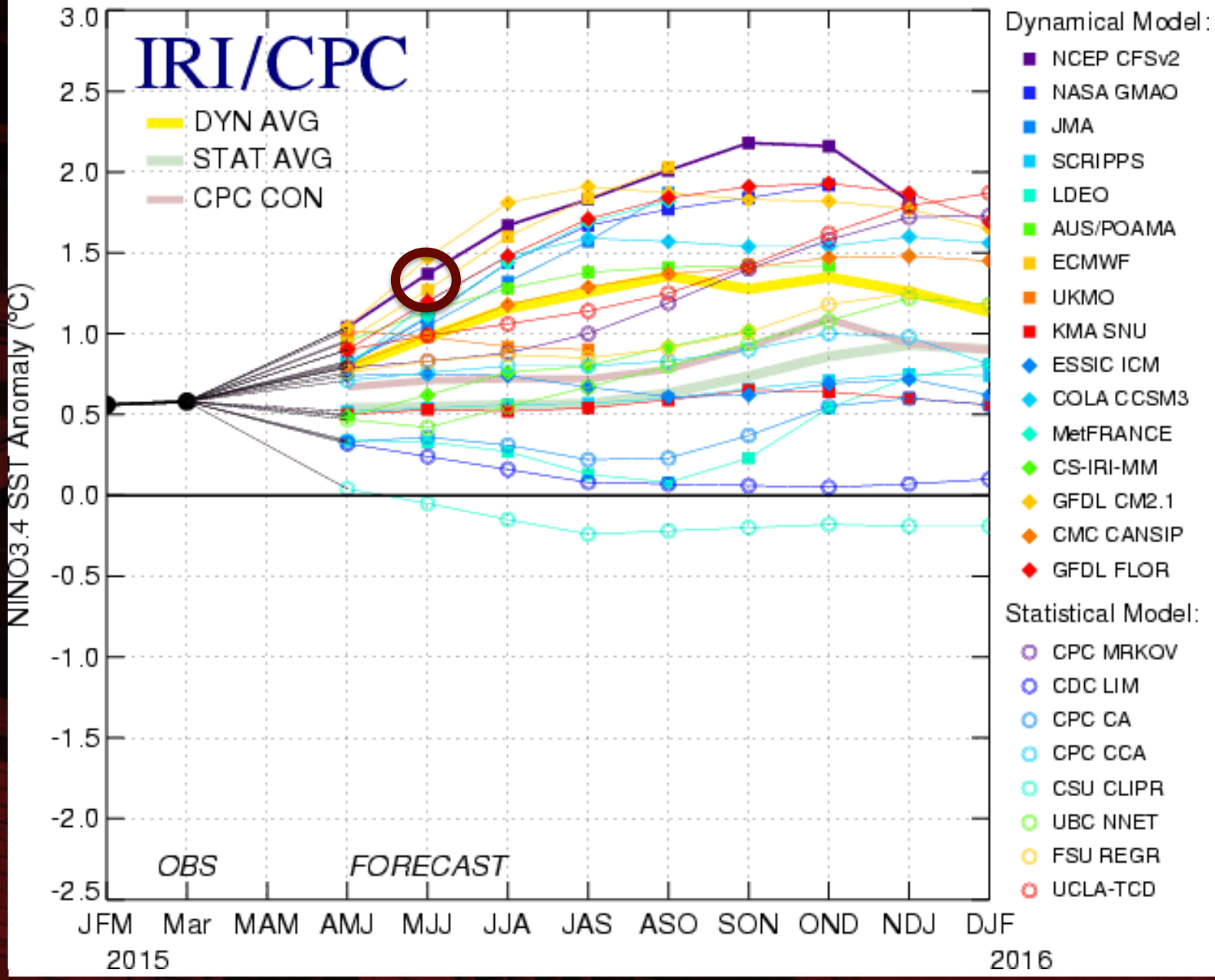
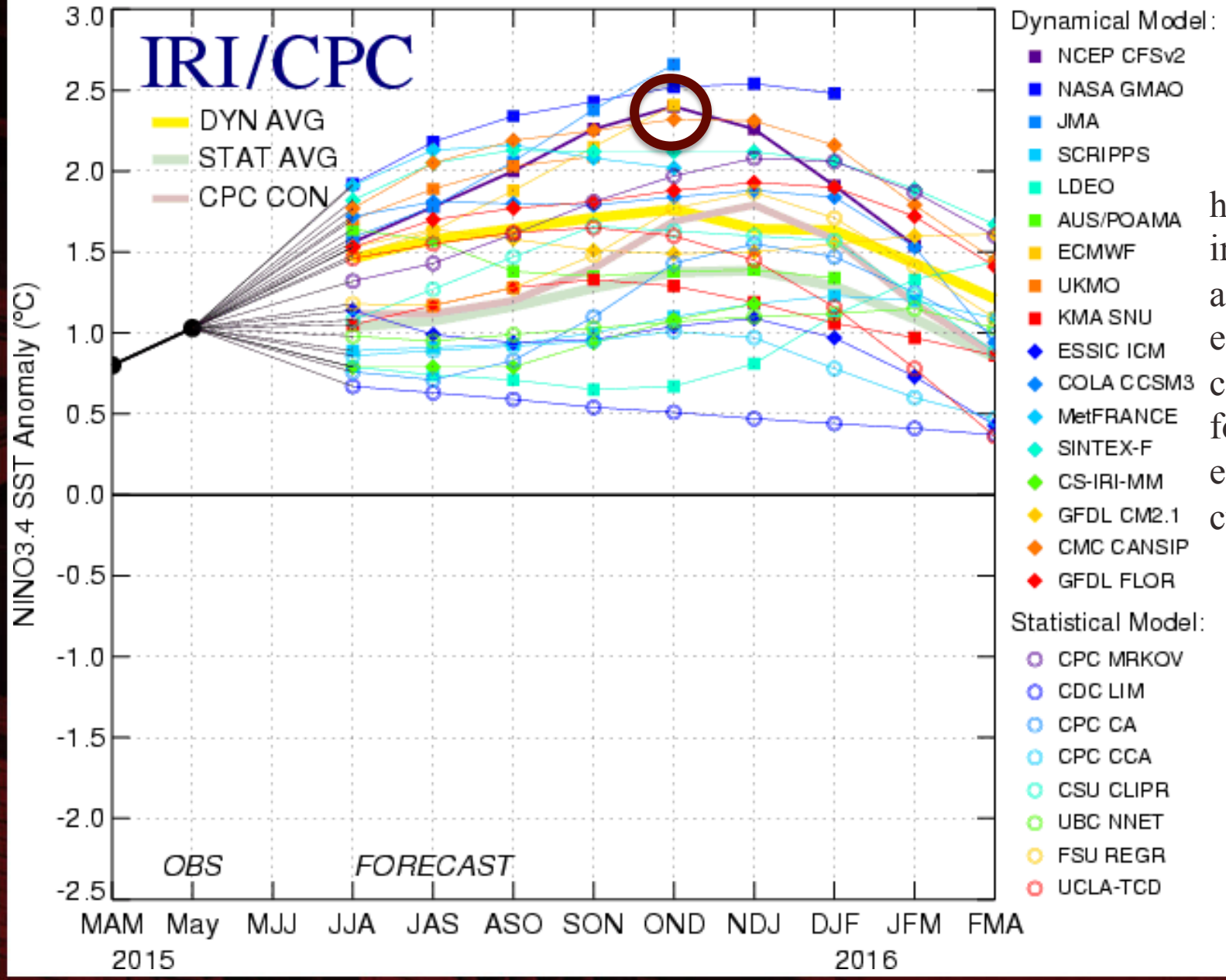
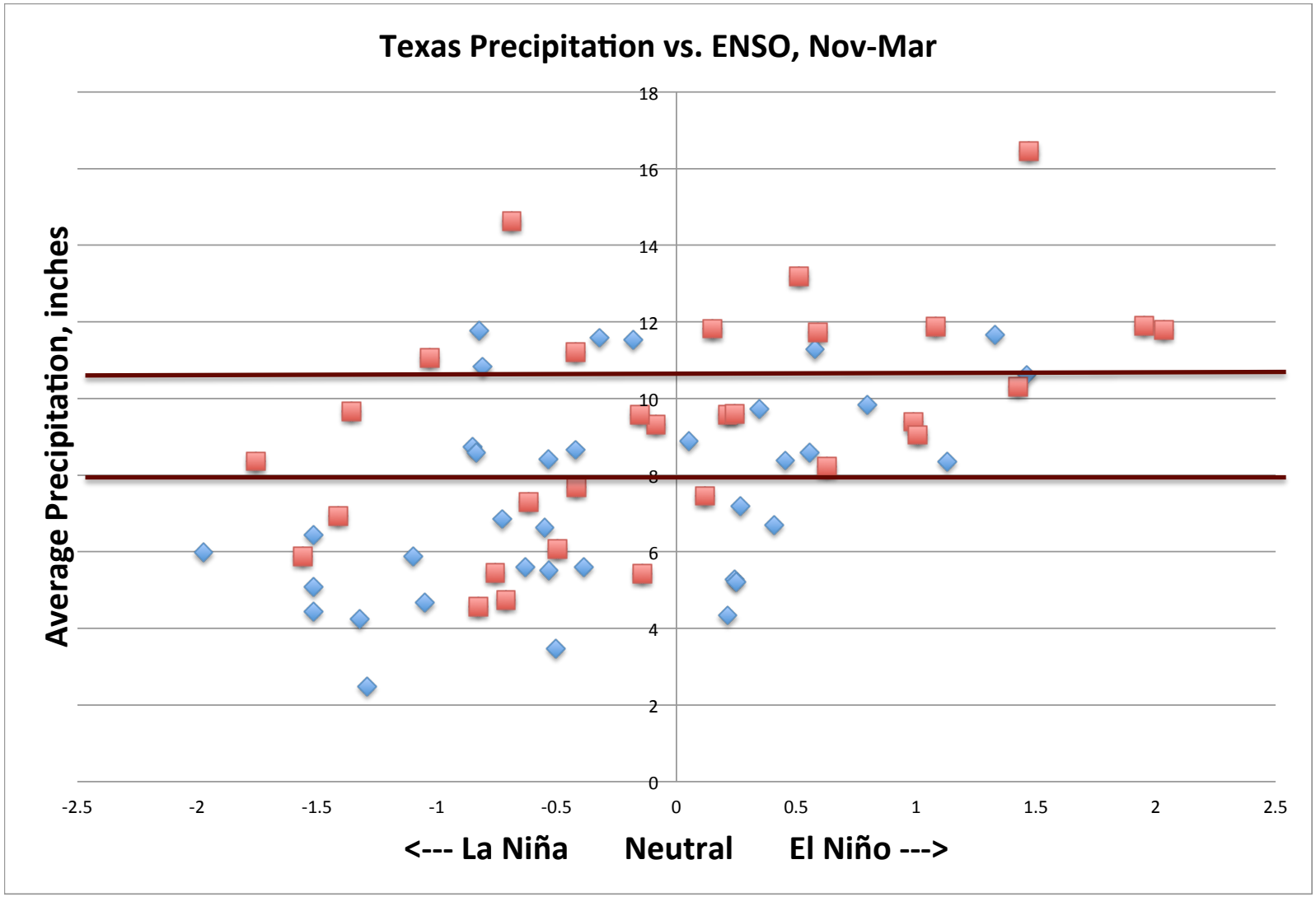
Mid-Apr 2015 Plume of Model ENSO Predictions



Mid-Jun 2015 Plume of Model ENSO Predictions



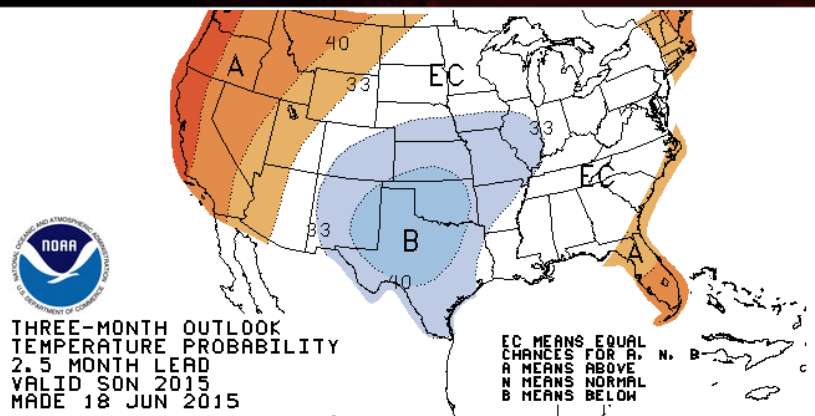
http://iri.columbia.edu/our-expertise/climate/forecasts/enso/current/

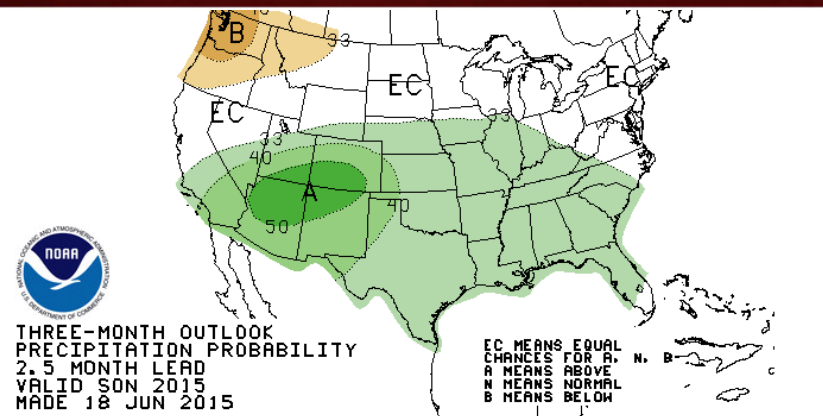

Texas Precipitation vs. ENSO, Nov-Mar
Average Precipitation, inches
18
16
14
12
10
8
6
4
2
0
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
<--- La Niña
Neutral
El Niño --->

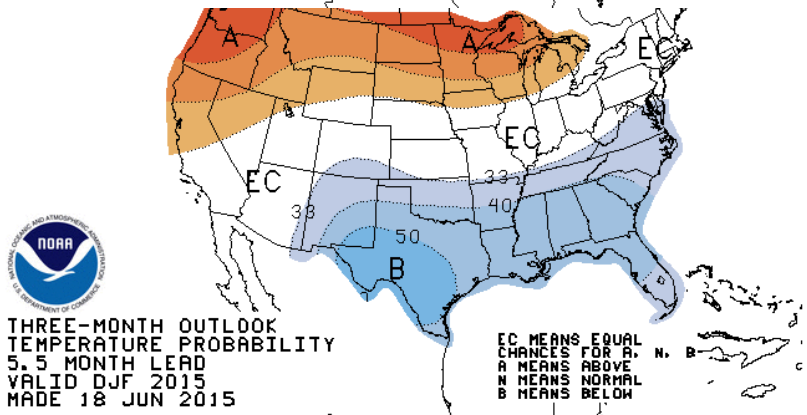
A

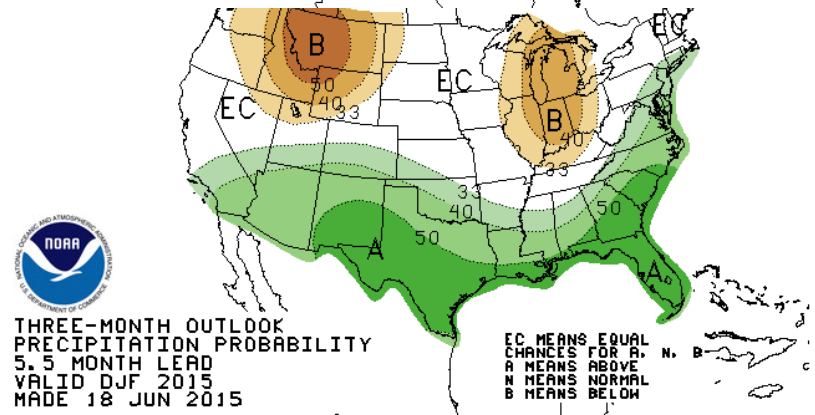
N

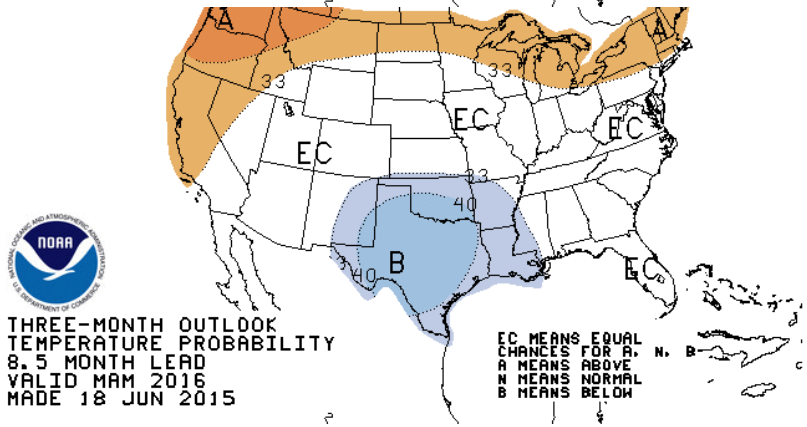
B

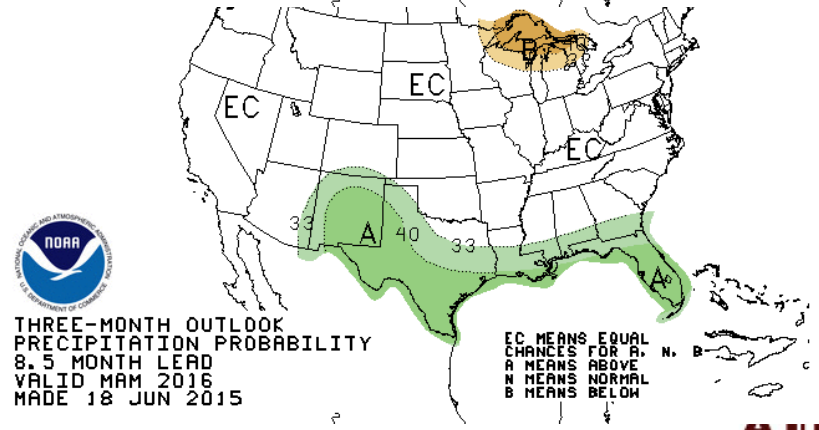












http://www.cpc.ncep.noaa.gov/products/predictions/90day/

Summary

- El Niño will persist through next winter
  - Might even be a record-setter
  - Strongly tilts Nov-Mar odds toward cool & wet
- People want to know what El Niño is
- People want to own the forecast

Contact Information and Resources

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- climatechangenationalforum.org