

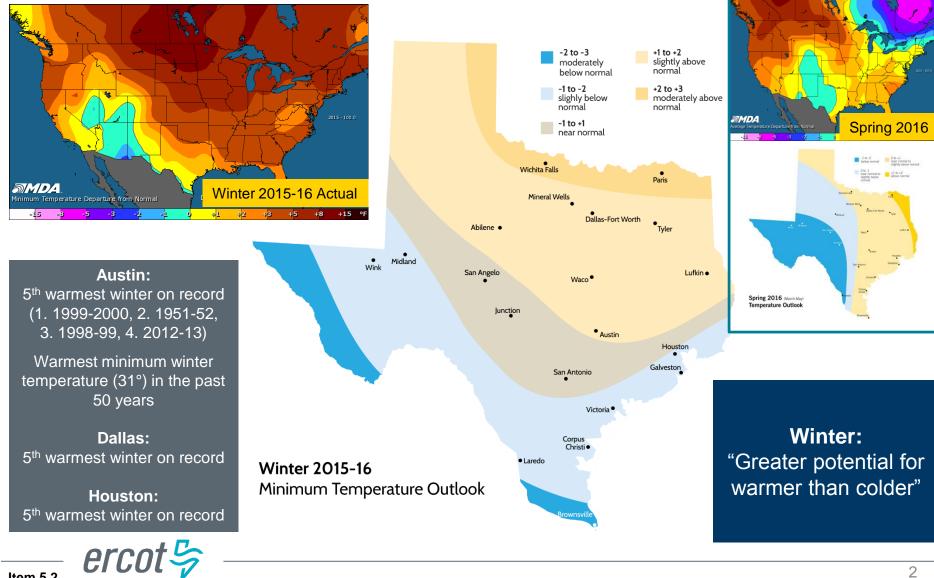
Item 5.2: 2016 Summer Weather Outlook

Chris Coleman ERCOT Sr. Meteorologist

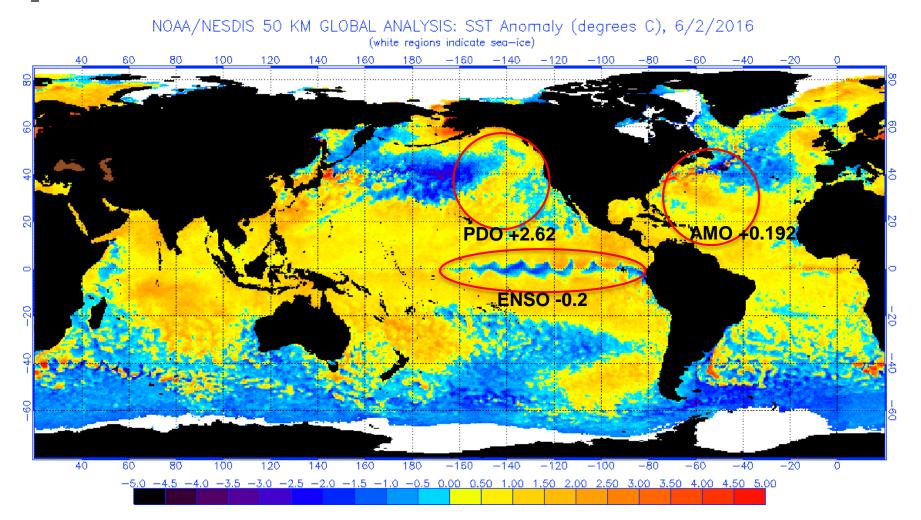
Board of Directors Meeting

ERCOT Public June 14, 2016

Winter and Spring 2016 Temperature Review



The Oceans



The oceans drive our weather patterns more than any other influence

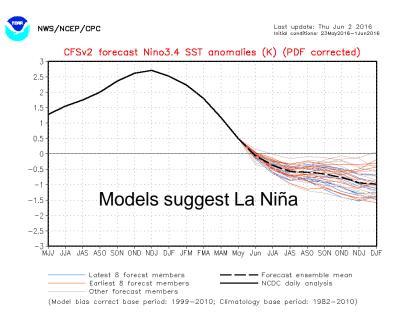
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Item 5.2

ENSO/PDO

Strong El Niño events; the following <u>summer-fall-winter</u>

1957-58: Weak El Niño (PDO+) 1965-66: Neutral (PDO+/-) 1972-73: Strong La Niña (PDO-) 1982-83: Weak La Niña (PDO+) 1991-92: Neutral (PDO+) 1997-98: Strong La Niña (→PDO-) 2009-10: Strong La Niña (PDO-)

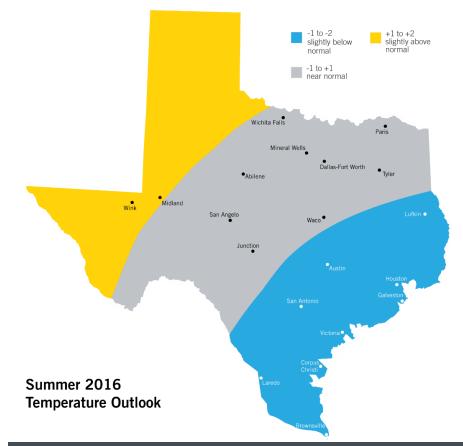


To follow a strong El Niño with a strong La Niña likely requires a switch to PDO-(Pacific Decadal Oscillation)



Summer 2016 Temperature Outlook

- Using a 10-15 year normal
- Very little historical precedence.
 Best historical match is 1992, which must be thrown out
- Unlikely not as warm as last summer, (17th hottest of past 121 summers)
- Most indicators suggest a milder (cooler) summer
- Strong PDO+ in spring rarely results in a hot, much abovenormal summer (3 in 10)
- Late-summer shows more abovenormal potential than earlysummer



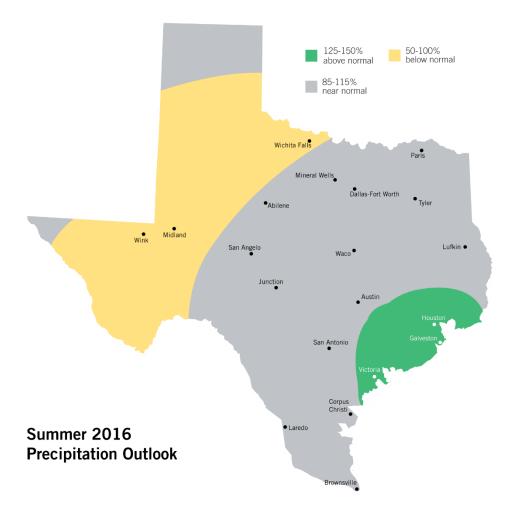
Greater potential for cooler summer rather than hotter.

Pattern could flip, moving the below normal area to the West region.



Summer 2016 Precipitation Outlook

- The majority of the state will experience nearnormal or drier-thannormal conditions
- Above-normal potential may depend on tropical activity
- Very unlikely to be as dry as last summer, (second driest of the past 15 years)





2016 Hurricane Forecast

Total Named Storms: 12 Total Hurricanes: 5 Major Hurricanes: 2

Gulf activity very likely. Can't rule out a more active season

Named Storms in Gulf: 3-4+

Hurricane in Gulf: 1-2

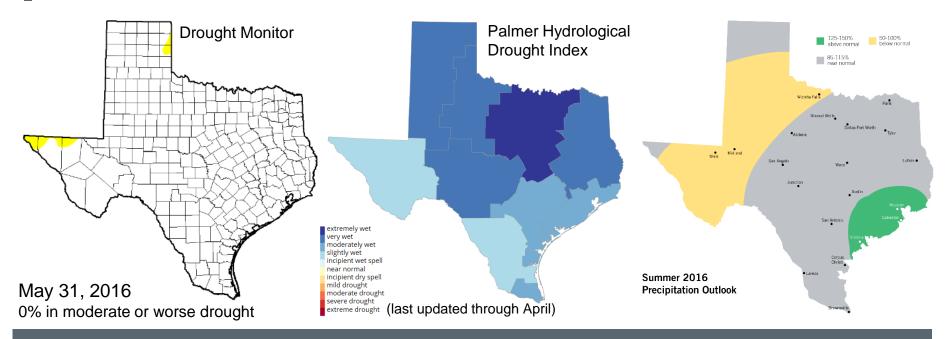
Named Storms with Texas Landfall: 0-1-2 Hurricanes with Texas Landfall: 0-1

	2016 Hurricane Season Analogs			
1958		10	7	5
1959		11	7	2
1977		6	5	1
1978		12	5	2
1983		4	3	1
1985		11	7	3
1986		6	4	(
1987		7	3	1
1994		7	3	(
1998		14	10	
2003		16	7	:
2004		15	9	(
2005		28	15	
2015		11	4	1

8 of 11 analogs had a Texas landfall, but all had at least 1 Gulf storm.



2016 Drought Outlook



- ENSO will help determine any future 2016 drought concerns
- Hurricane season holds a potential impact
- Could see increasing drought concerns in the Panhandle and West Texas
- Not currently seeing potential for a widespread, exceptional hydrological drought returning in 2016

