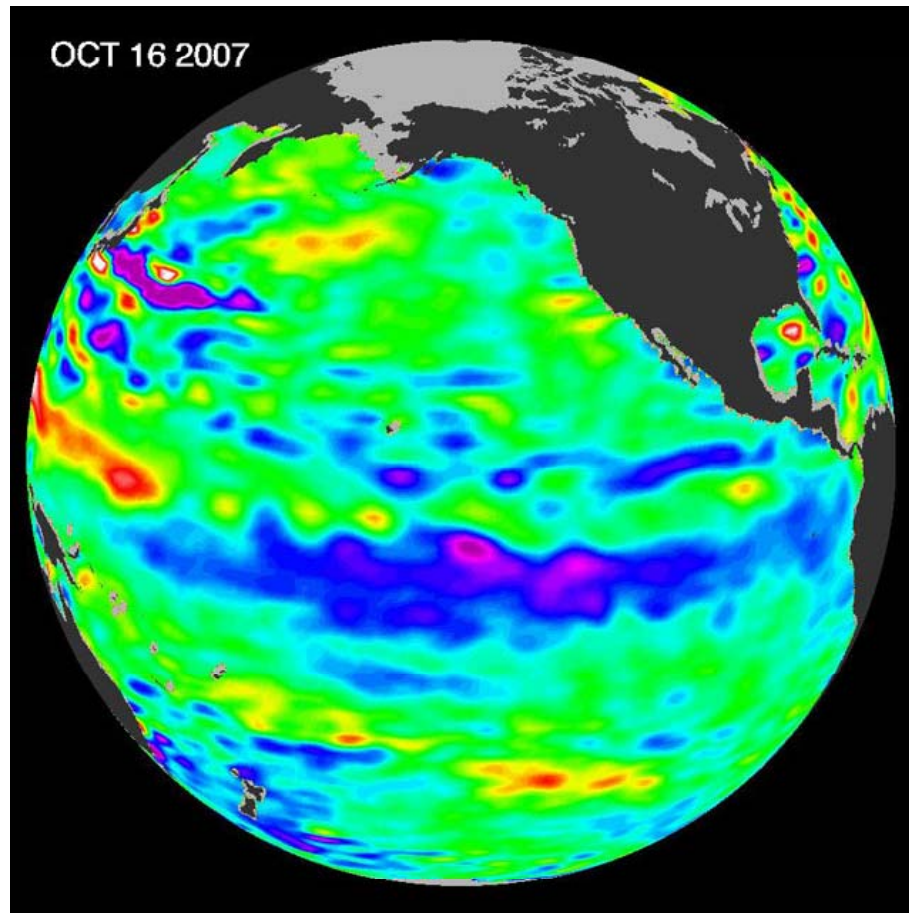




Southeast Climate Outlook



NIDIS Southeast Pilot
Project Workshop

April 29-30, 2008

Peachtree City, GA

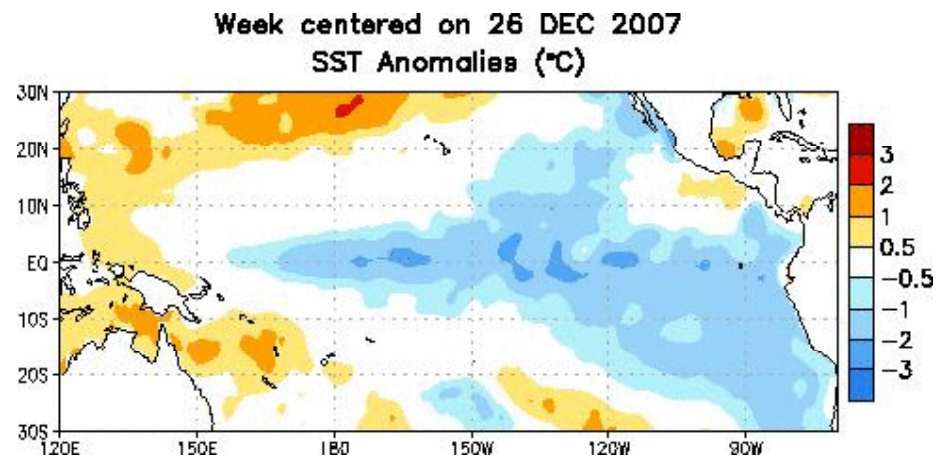
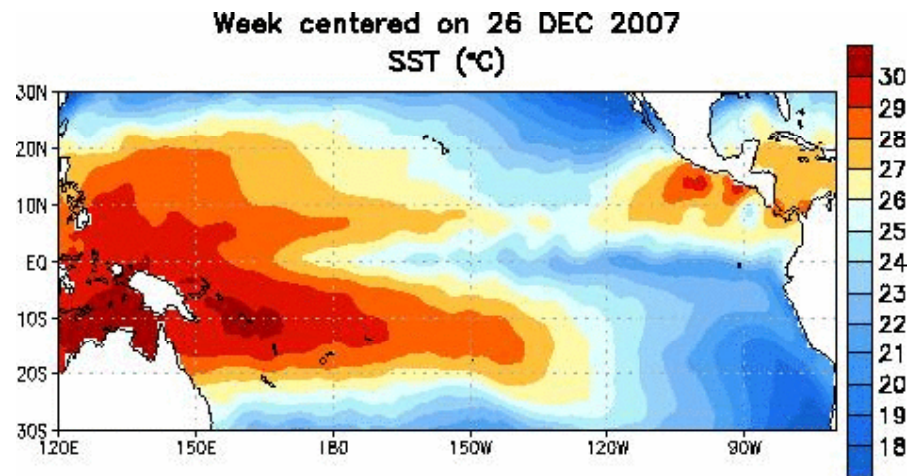
Southeast Climate Consortium

*David Stooksbury, David Zierden, and
John Christy*



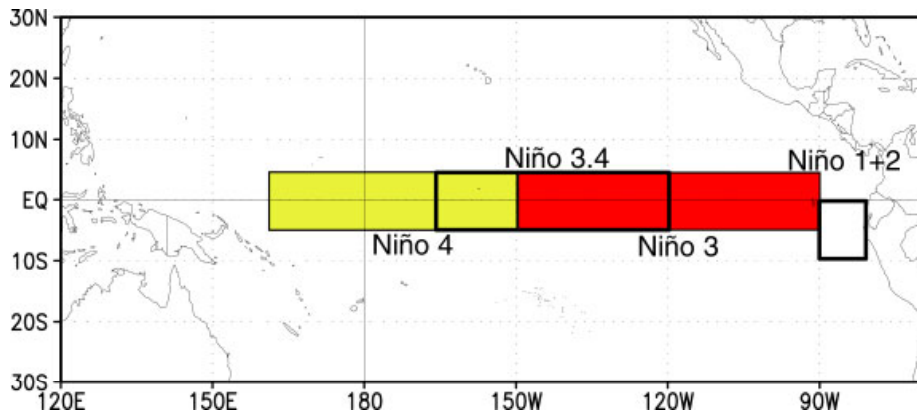


Strong La Niña Developed last Fall

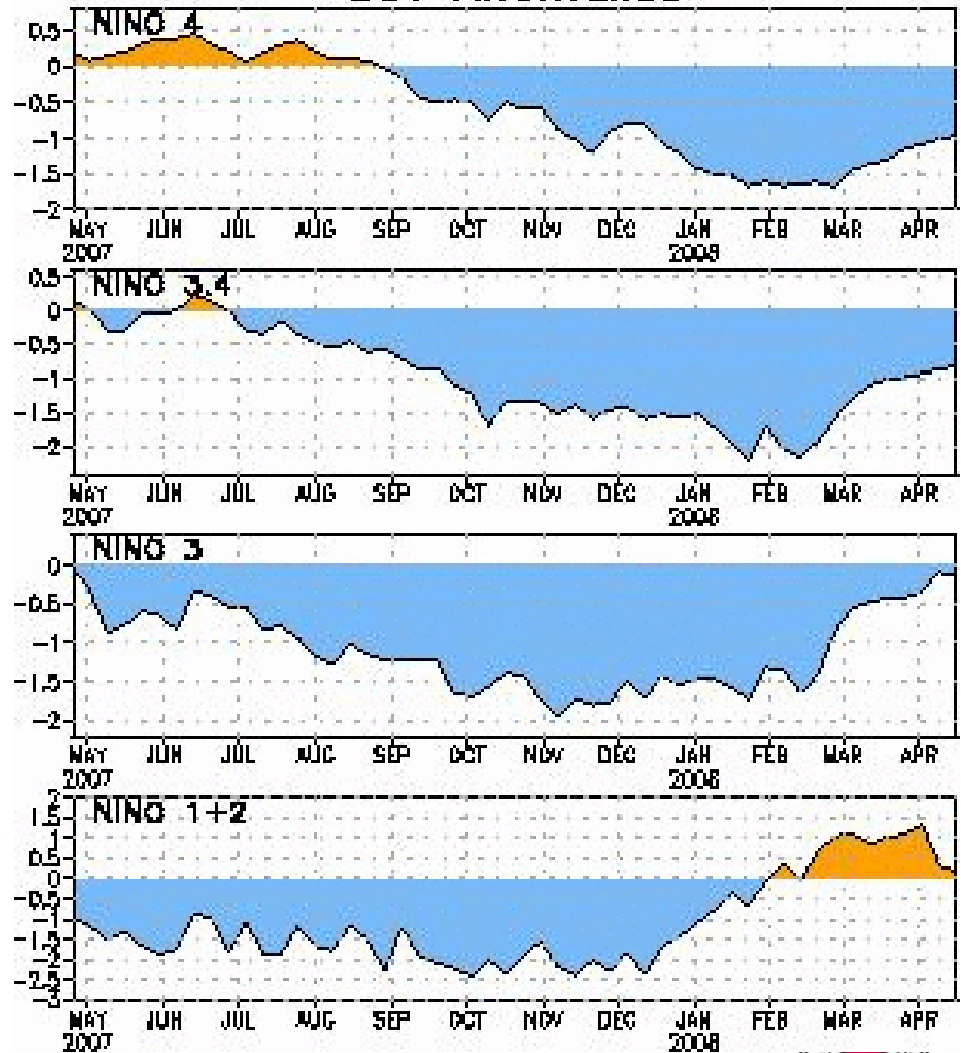




La Niña reached peak intensity in February



SST Anomalies





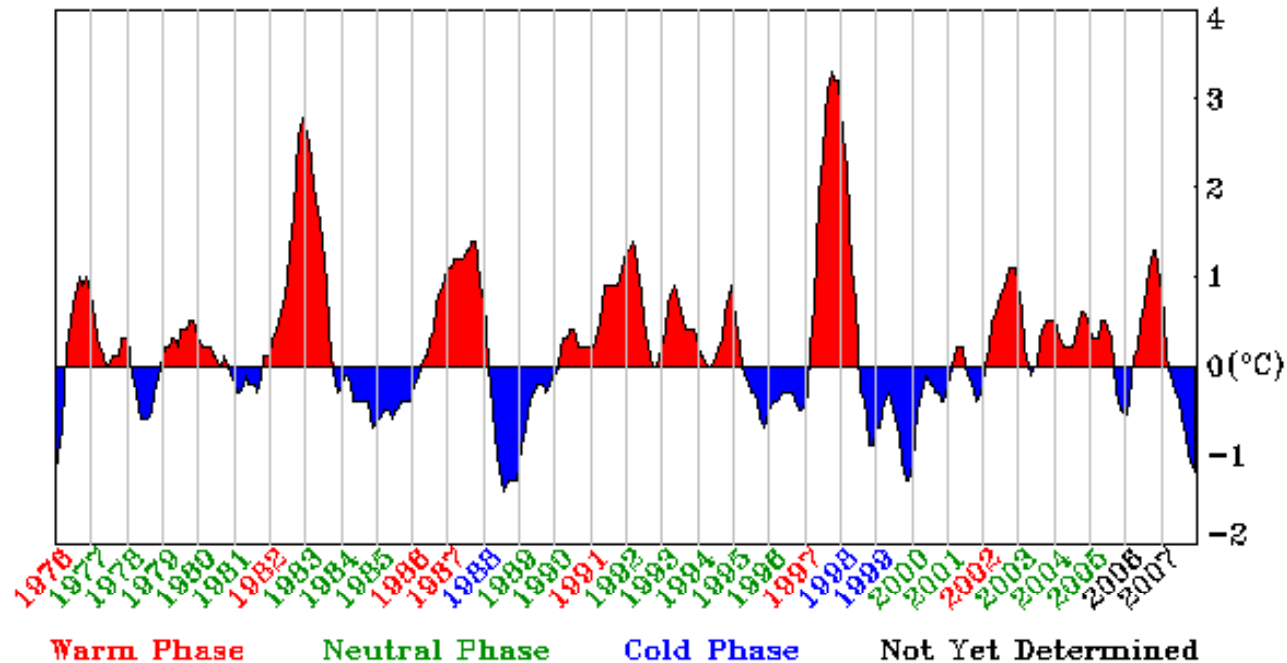
Multi-year La Niña?



JMA Index



(Last Updated 03/13/08)



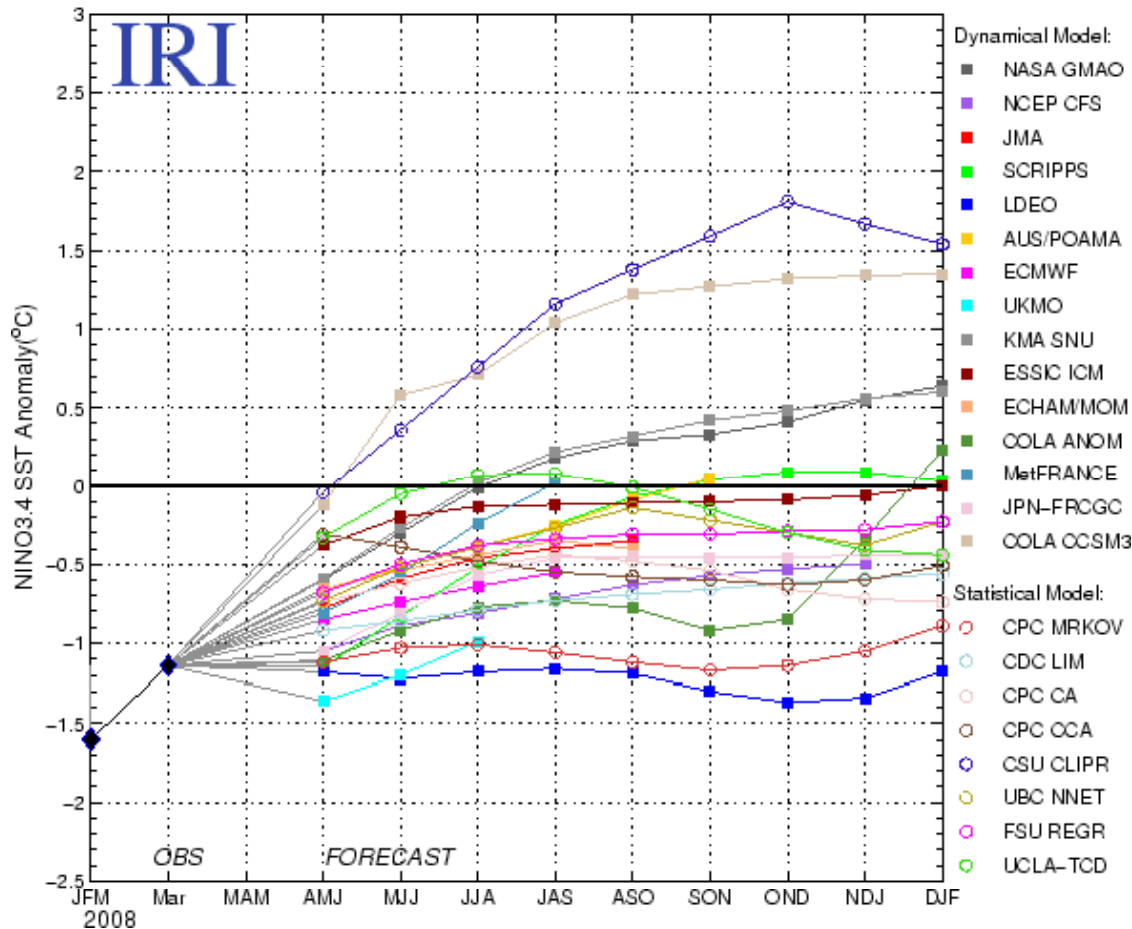
Multi-year La Niña events coincide with extended drought in 1954-1956 and 1998-2001.





La Niña Forecasts

Model Forecasts of ENSO from Apr 2008



Earlier this year most of the forecast models were predicting a continuation of La Niña through the end of 2008.

Now, models show a considerable spread.

Spring is a notoriously difficult season to predict ENSO phase.





Recent and Projected Climate Impacts

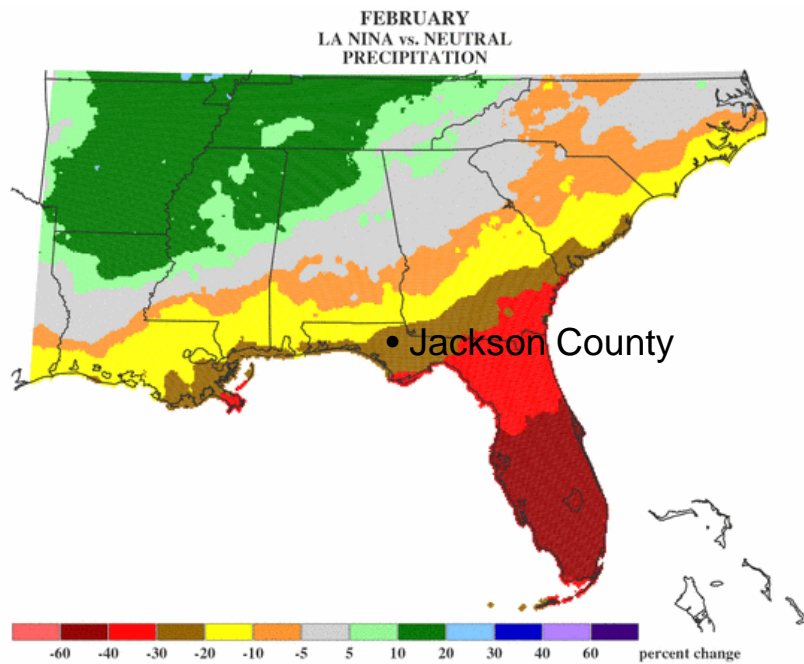
- Winter rainfall patterns somewhat atypical for La Nina in Florida, Southeast Alabama, and South Georgia, temperatures typically warm.
- Water shortages persist in North GA, AL and South FL.
- Winter recharge is period is over in North GA and AL.
- La Nina may persist for the next 1-3 months, uncertain for the remainder of 2008.
- Early summer rainfall can be enhanced by La Nina, but limited confidence in this forecast.
- Rains in recent months have reduced wildfire risk in Florida, potential for higher risk as peak season approaches.
- If La Nina persists or reintensifies in late summer, look for enhanced tropical activity.



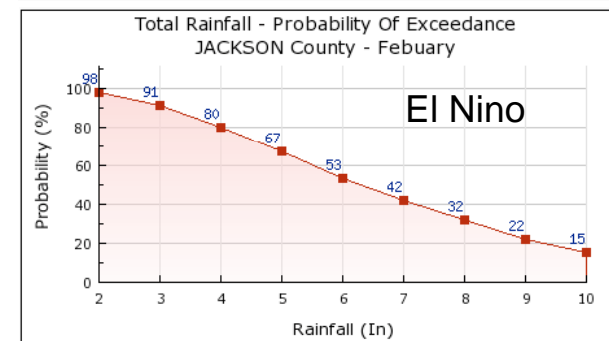
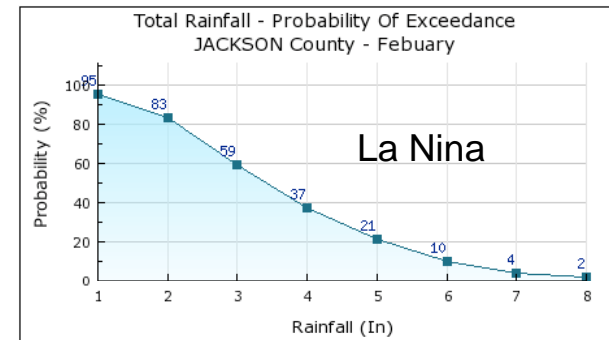
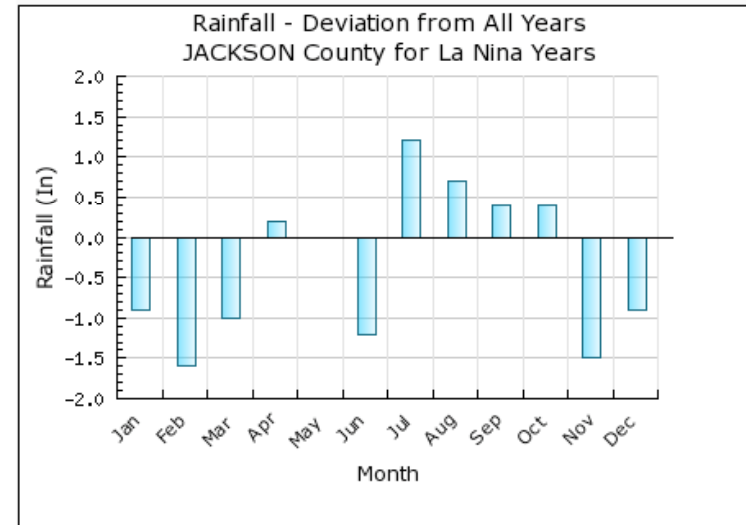


Winter La Niña Rainfall Patterns

La Niña Composite



Rainfall departures in percent of normal

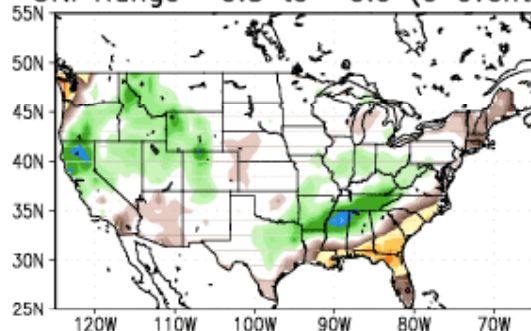




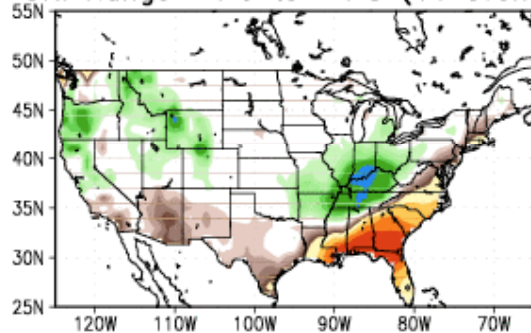
Strong La Niña versus moderate

DJF Prec. + Trend

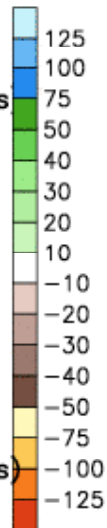
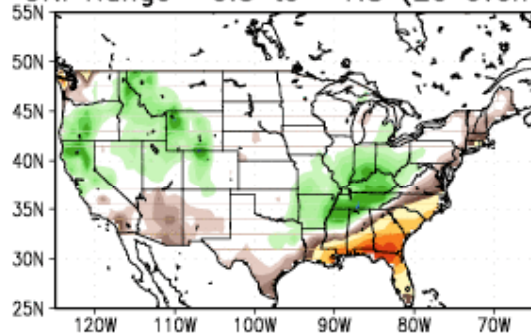
ONI Range -0.5 to -0.9 (9 events)



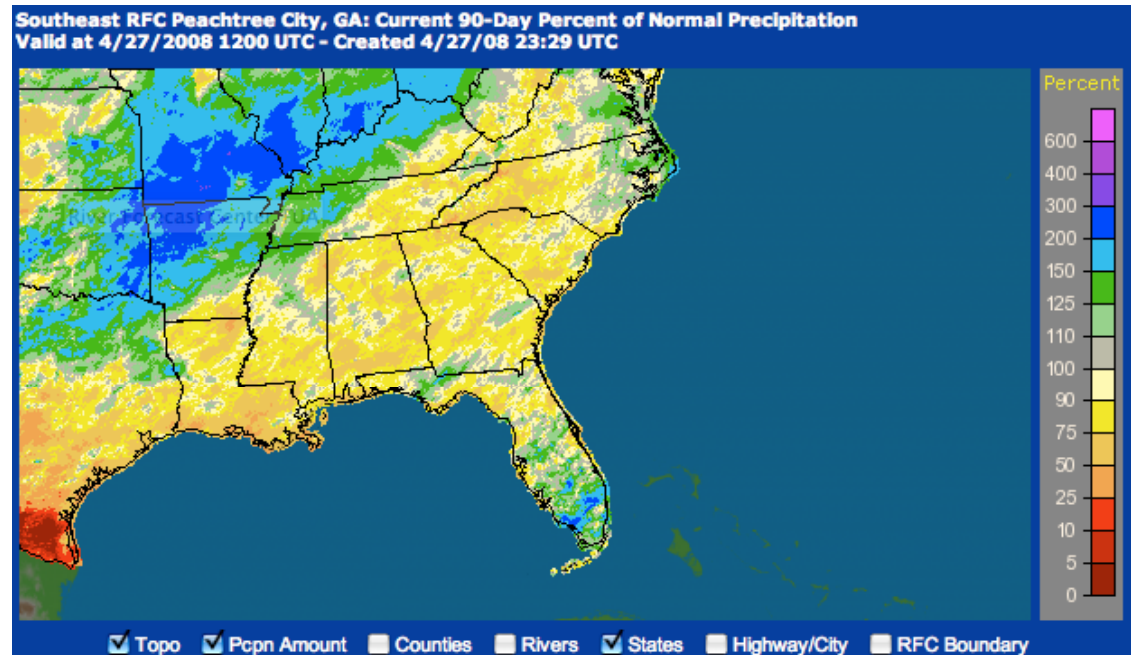
ONI Range -1.0 to -1.8 (11 events)



ONI Range -0.5 to -1.8 (20 events)

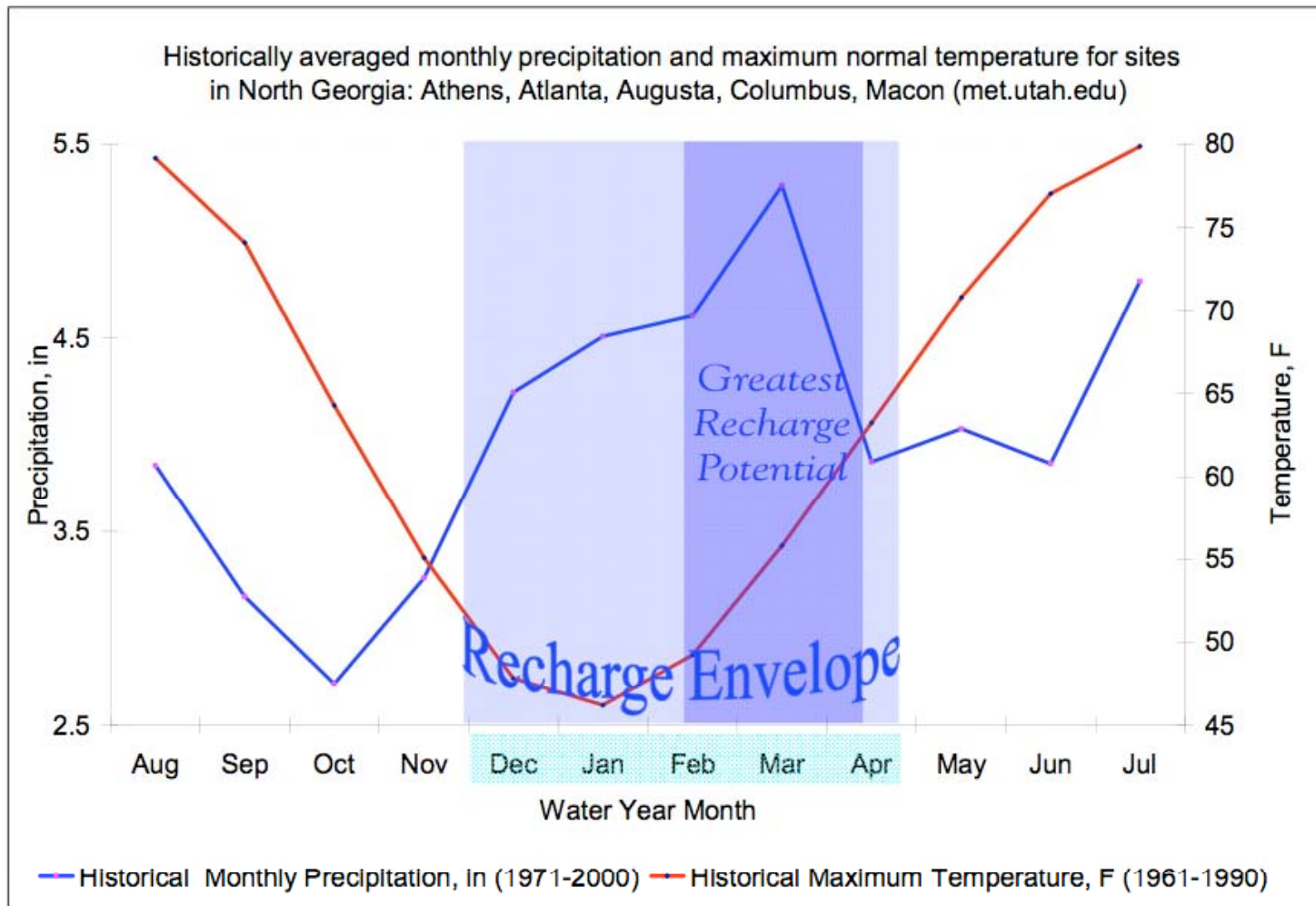


Last 90 days (percent of normal)





Typical Recharge in North Georgia



- Courtesy SERFC





Response of Hydrologic Systems

Apalachicola at Chattahoochee

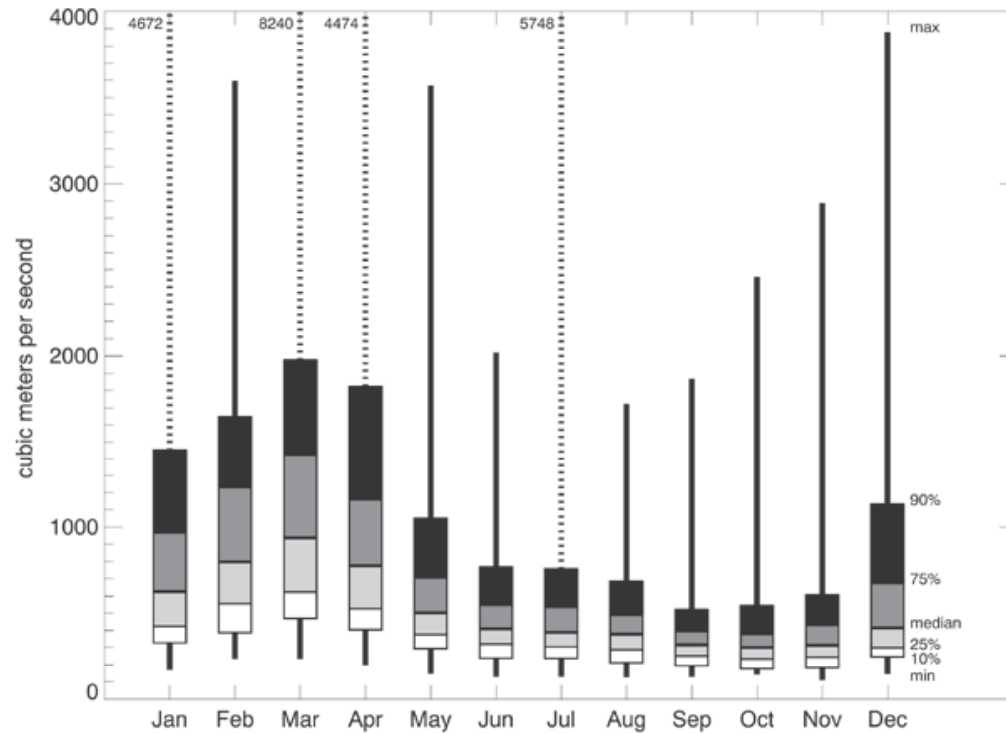


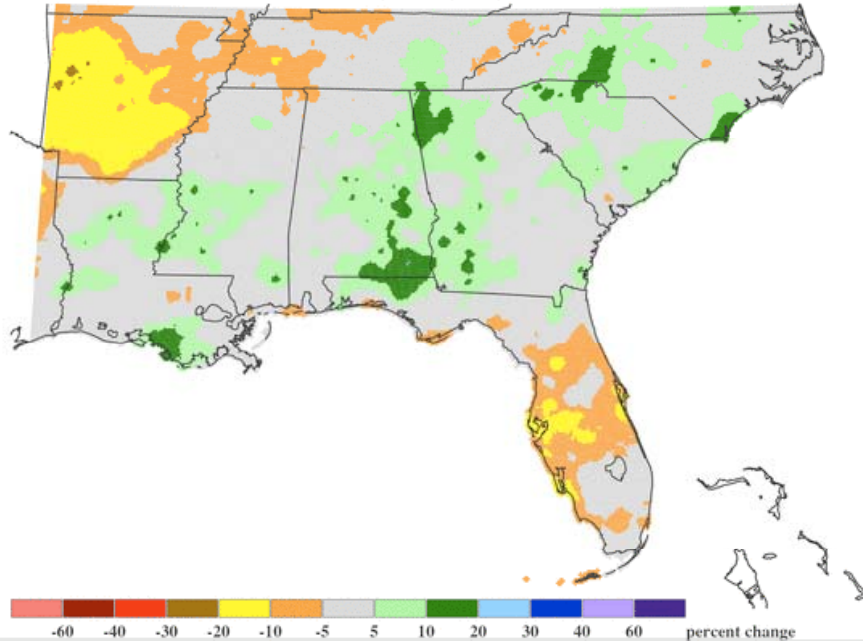
Figure 2



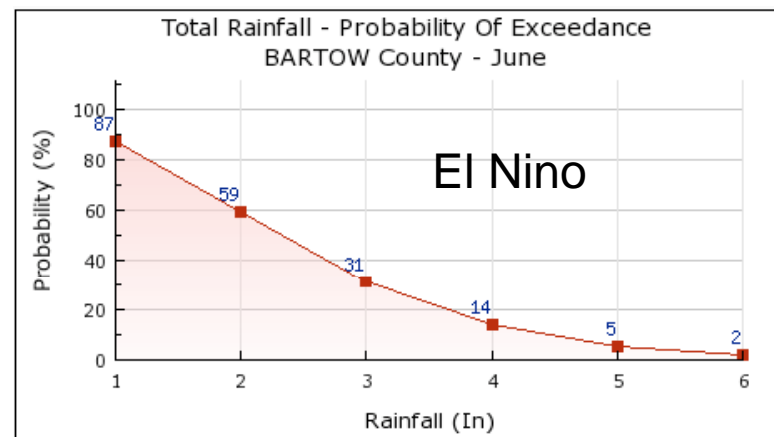
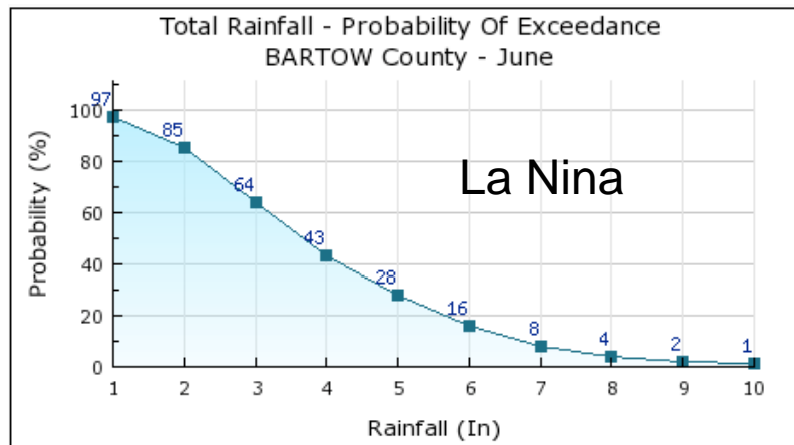
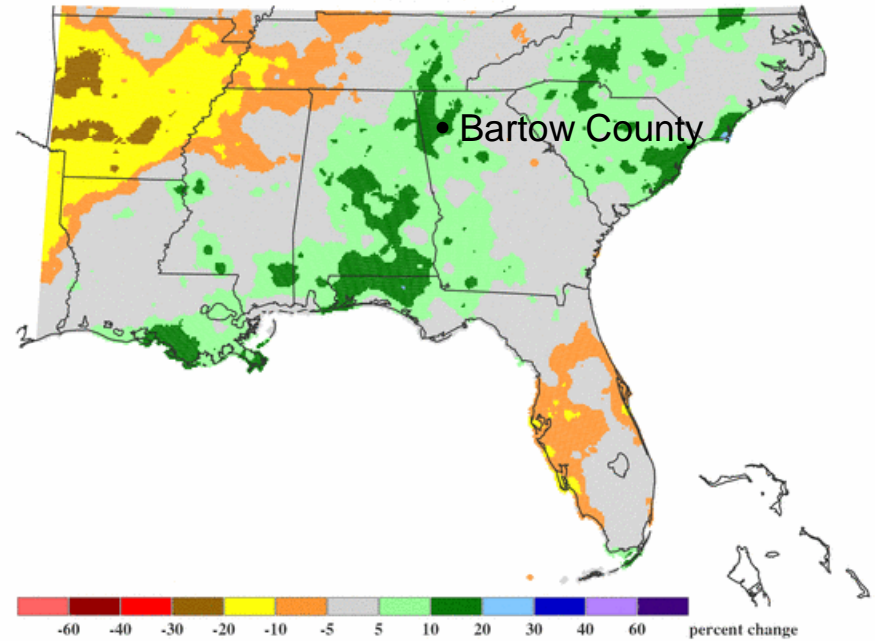


Spring/Summer La Nina Impacts on Rainfall

MAY
LA NINA vs. NEUTRAL
PRECIPITATION



JUNE
LA NINA vs. NEUTRAL
PRECIPITATION

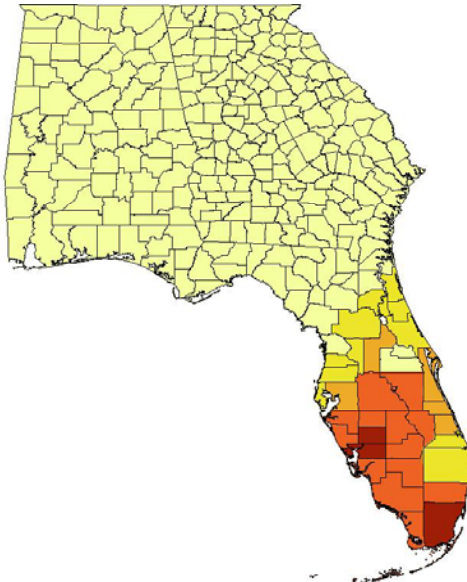




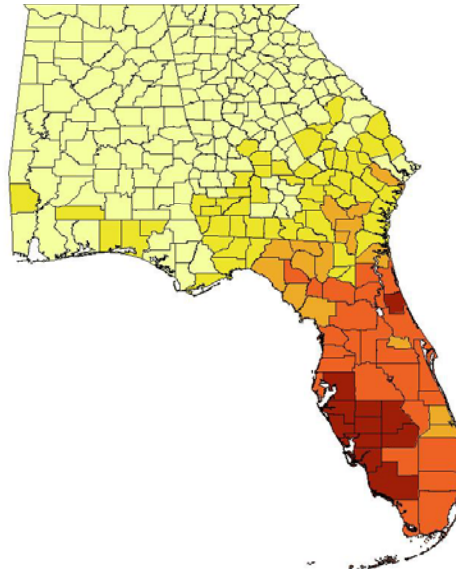
Wildfire Risk

Probability of KBDI at 500 or more

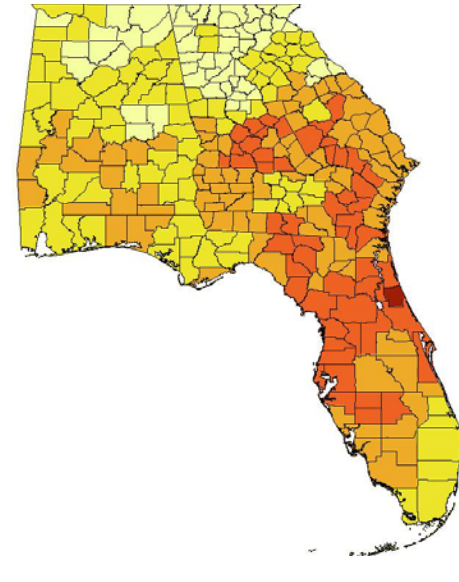
April



May



June



Probability



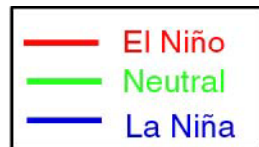
+ Above Normal Risk

- Below Normal Risk

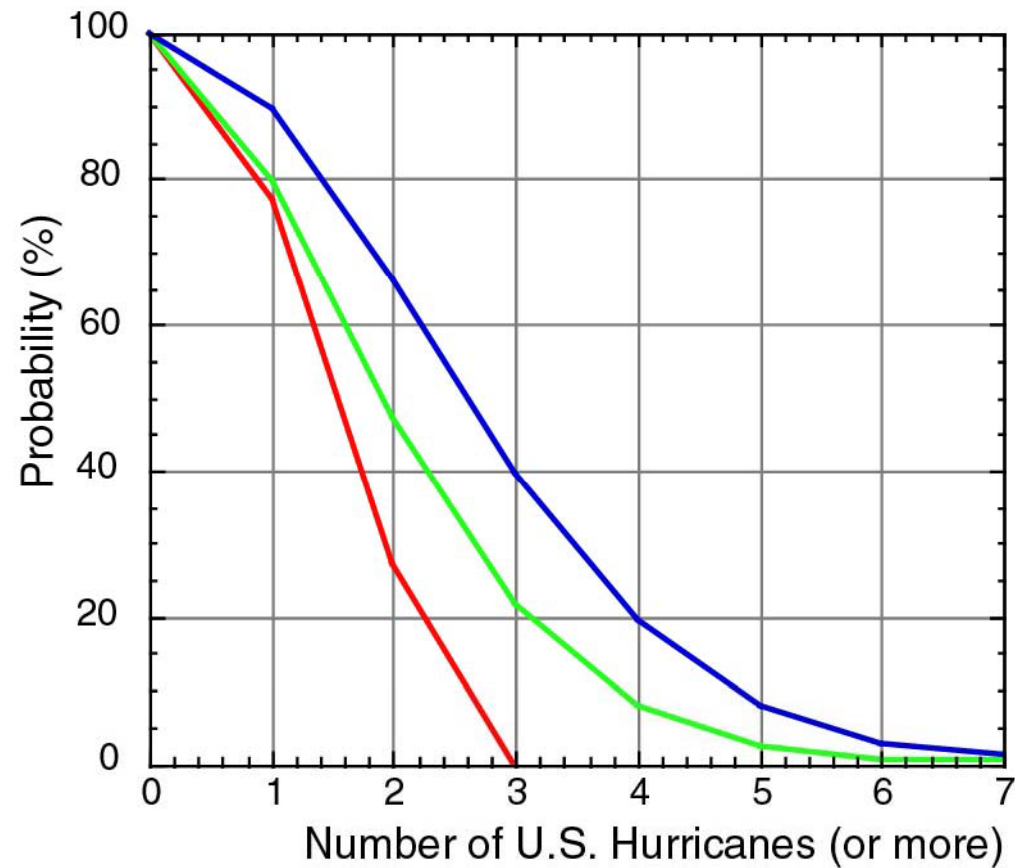




Probability of Hurricane Strikes



U.S. Landfalling Hurricane Probabilities





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www.agclimate.org

www.coastalclimate.org

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http://www.agclimate.org/Development/apps/agClimate/control

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AgClimate

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- Climate Phase Forecast
- Hay, Forage, and Weather Updates for Florida
- Fall Agricultural Outlook: La Niña Impacts

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- Chance of Midwest Drought
- Conditions for Flint River Basin Drought Declaration Not Present
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Climate is a major factor in agricultural production and marketing. AgClimate gives the latest seasonal climate forecasts and provides tools to help producers understand and plan for climatic variation in the Southeast.

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