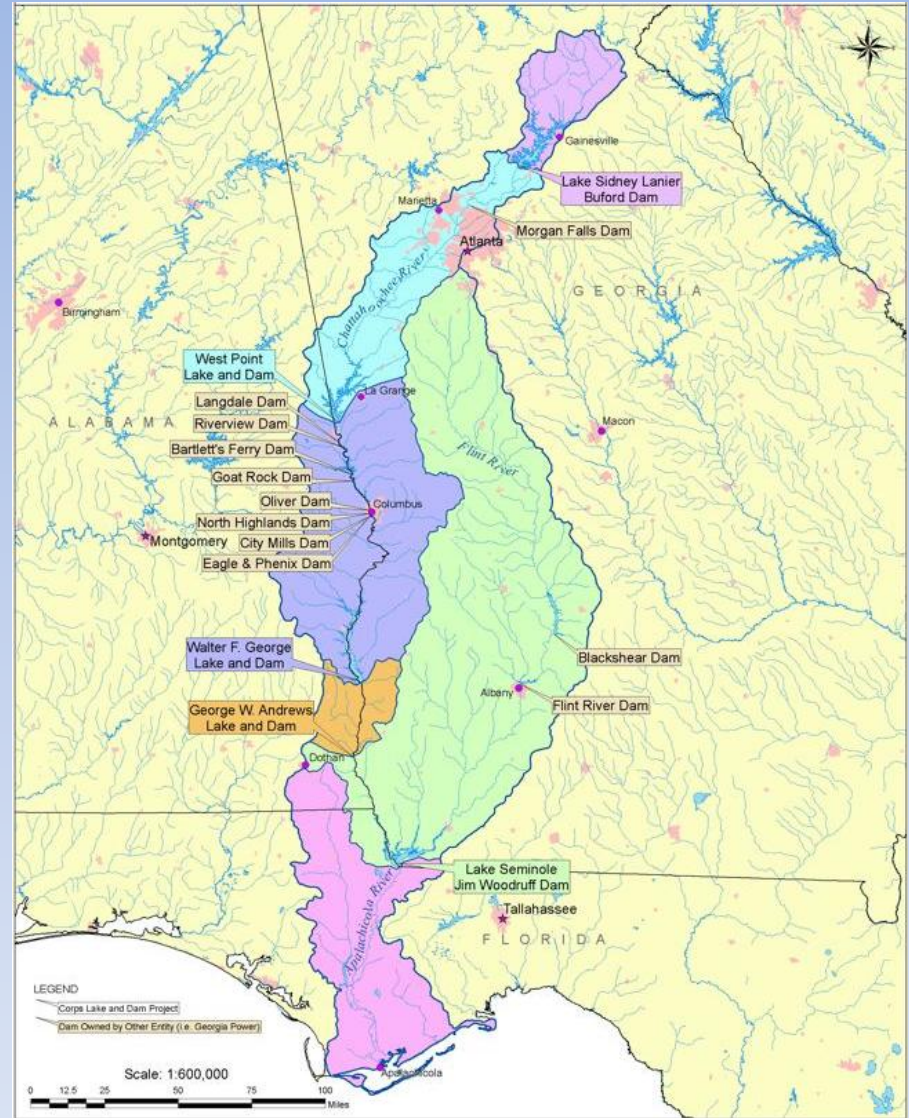
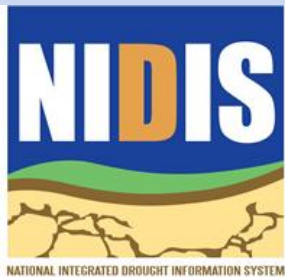


National Integrated Drought Information System

Southeast US Pilot for Apalachicola-Flint-Chattahoochee River Basin

15 November 2011



Current drought status from Drought Monitor

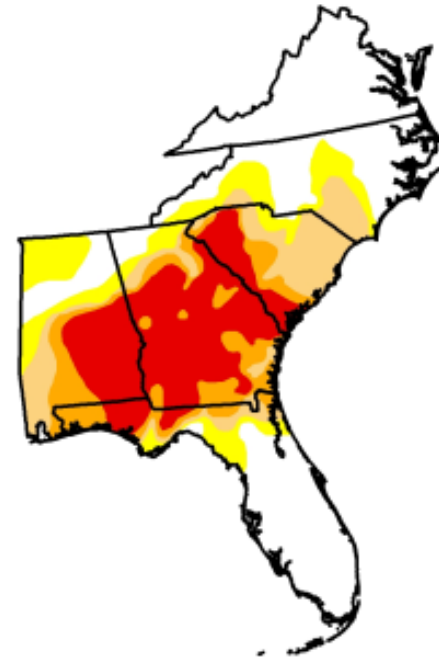
U.S. Drought Monitor Southeast

November 8, 2011

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	40.77	59.23	46.58	34.06	22.99	0.00
Last Week (11/01/2011 map)	41.84	58.16	44.93	32.80	21.45	0.00
3 Months Ago (08/09/2011 map)	16.71	83.29	59.83	40.33	19.21	0.89
Start of Calendar Year (12/28/2010 map)	23.01	76.99	51.84	23.55	5.63	0.00
Start of Water Year (09/27/2011 map)	42.24	57.76	41.82	31.77	23.48	0.00
One Year Ago (11/02/2010 map)	25.10	74.90	39.22	16.44	3.08	0.00



Intensity:



The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.

<http://droughtmonitor.unl.edu>



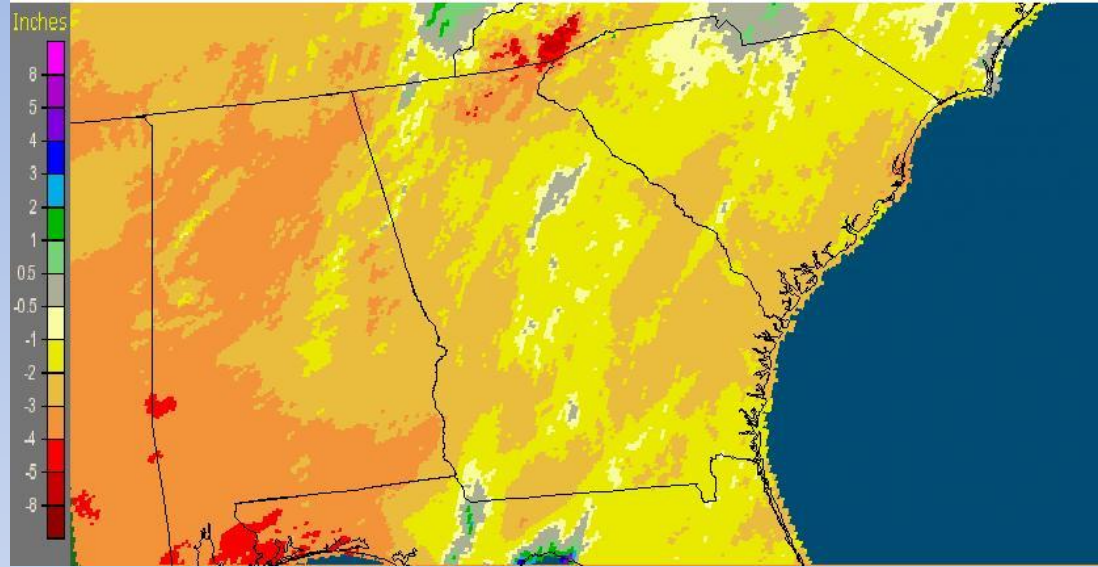
Released Thursday, November 10, 2011
Brian Fuchs, National Drought Mitigation Center

<http://www.drought.unl.edu/dm/monitor.html>

Cumulative Rainfall Deficits

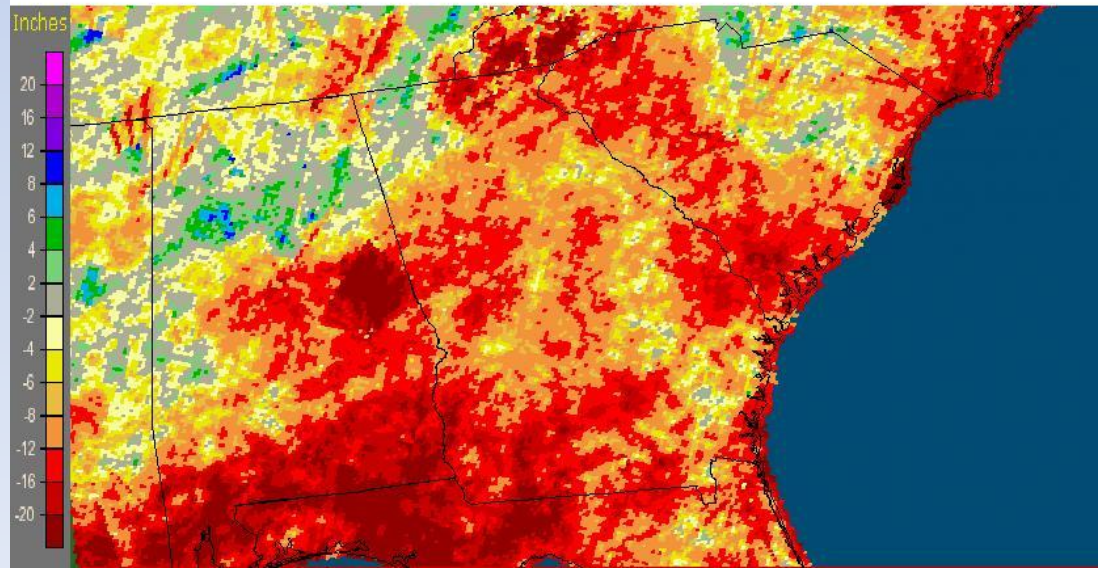
Past 30 days

Georgia: Yesterday's 30-Day Departure from Normal Precipitation
Valid at 11/14/2011 1200 UTC- Created 11/15/11 0:07 UTC



Since Jan. 1st

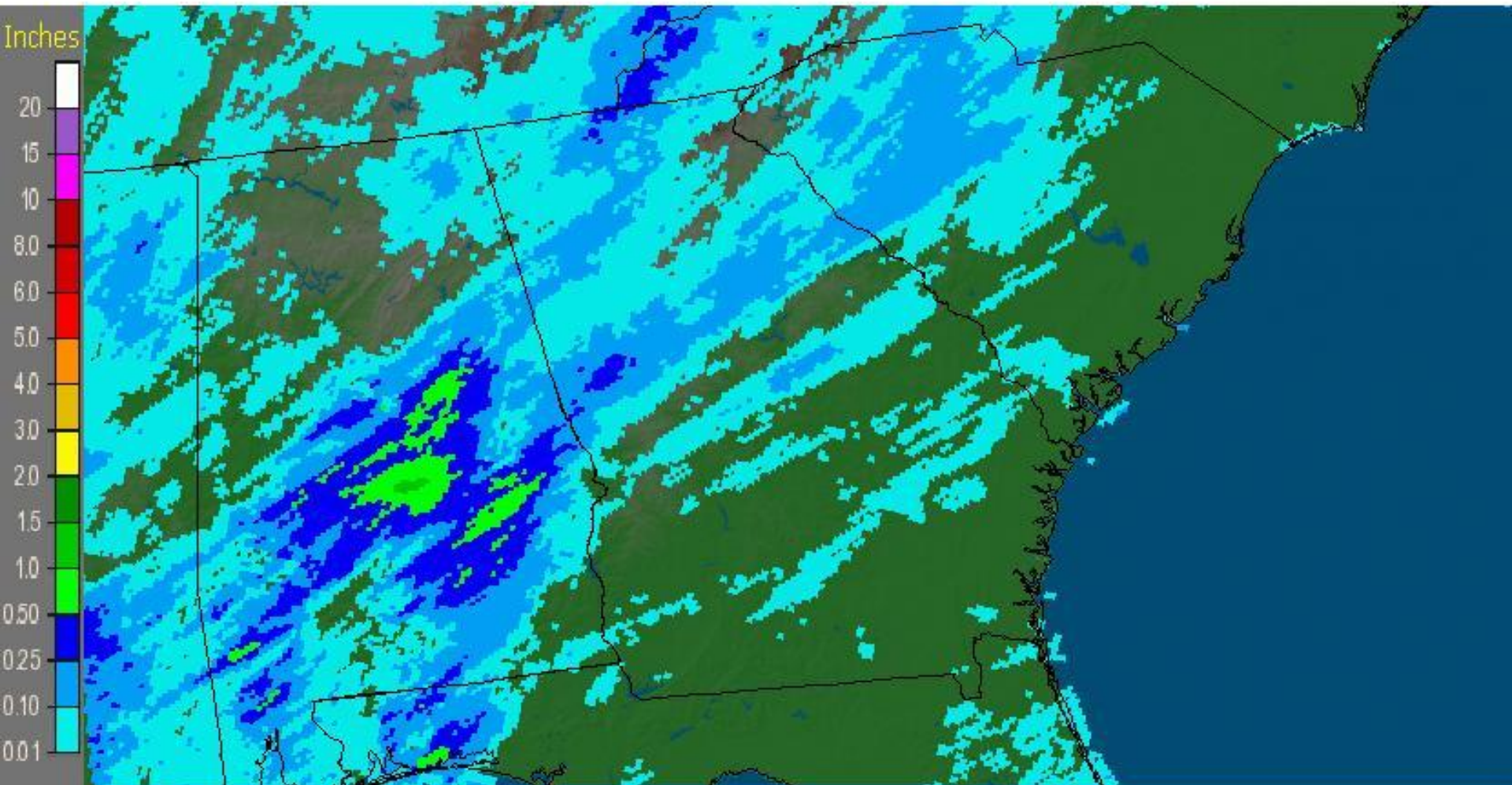
Georgia: Yesterday's Year to Date Departure from Normal Precipitation
Valid at 11/14/2011 1200 UTC- Created 11/14/11 23:48 UTC



<http://water.weather.gov/precip/>

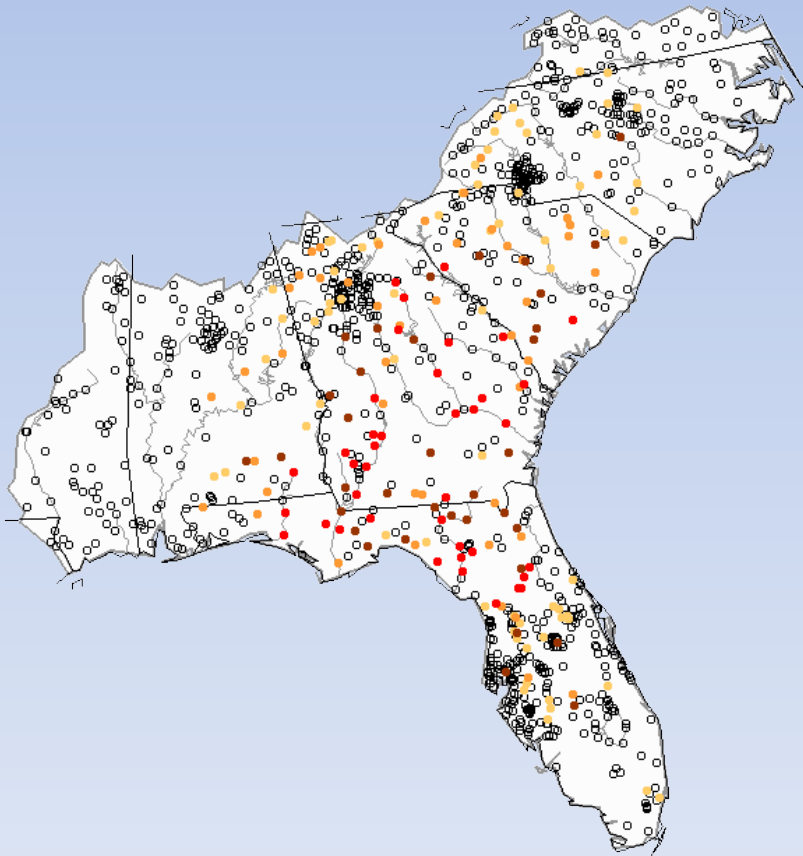
7-day Rainfall Totals

Georgia: Yesterday's 7-Day Observed Precipitation
Valid at 11/14/2011 1200 UTC- Created 11/14/11 23:55 UTC



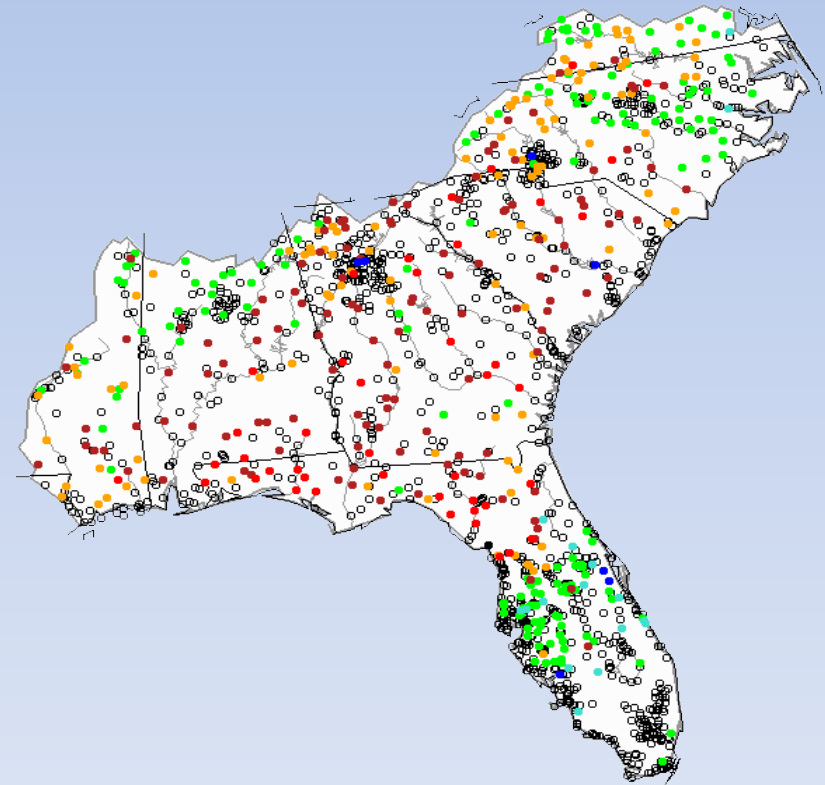
Realtime stream flow compared with historical monthly averages

Previous Month:



Current:

Tuesday, November 15, 2011 06:30ET



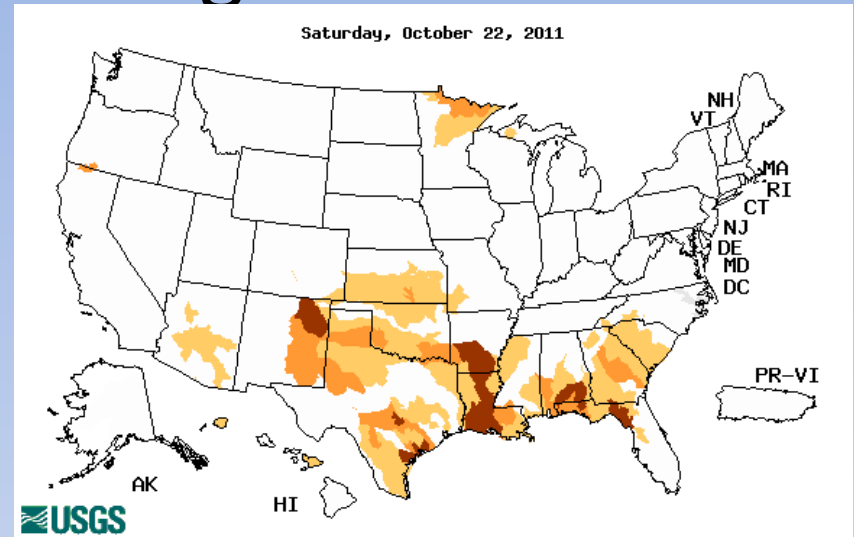
Below Normal 7-day Average Streamflows

Previous month:

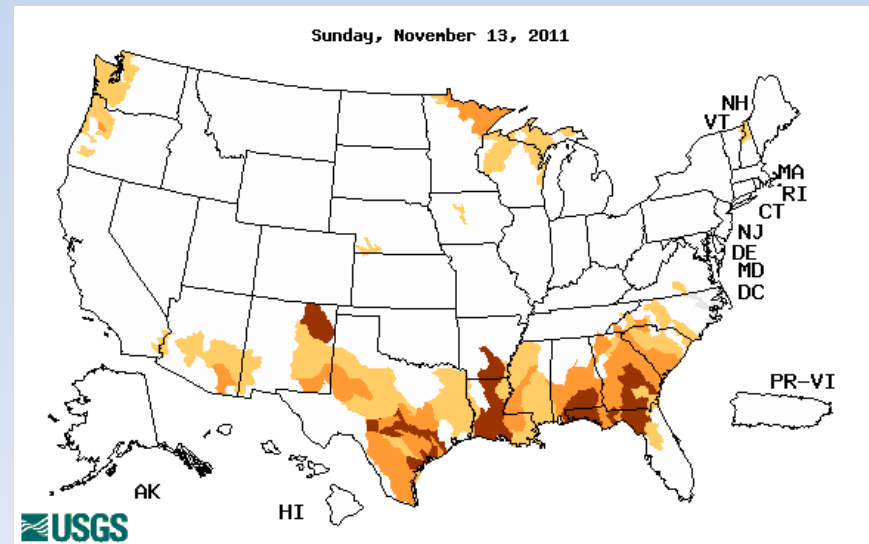
Below normal 7-day average streamflow as compared with historical streamflow for day shown

Current:

<http://waterwatch.usgs.gov>



Explanation - Percentile classes				
Low	<=5	6-9	10-24	Insufficient data for a hydrologic rating
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	



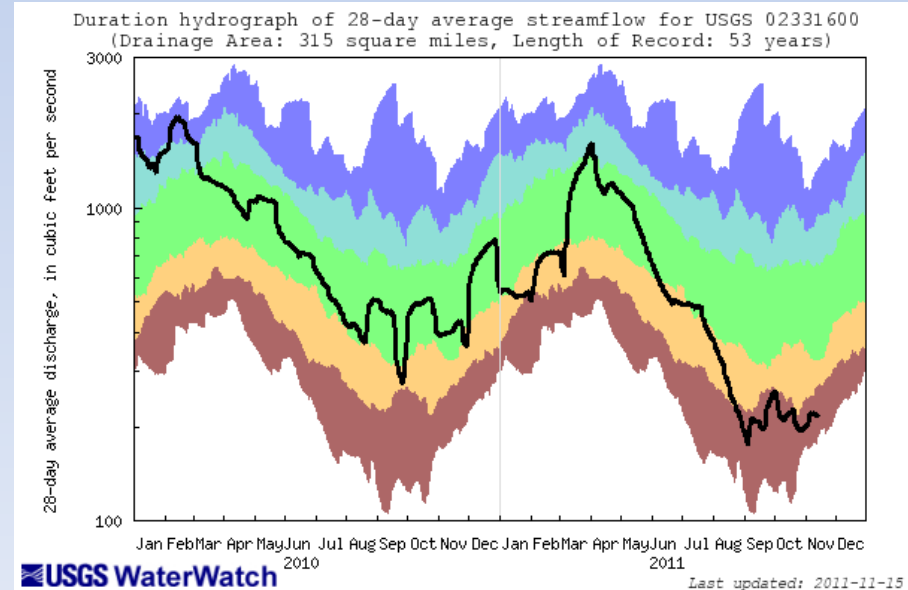
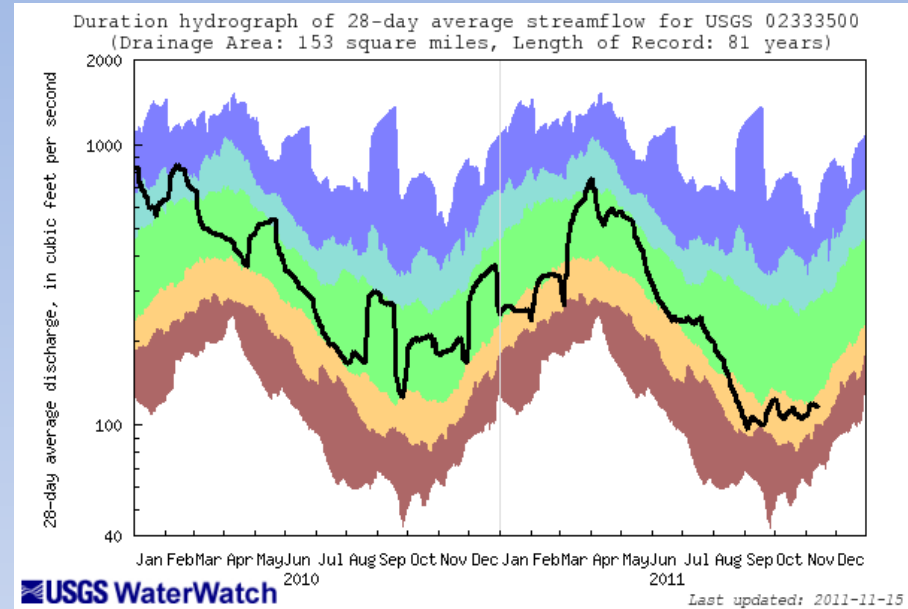
Lake Lanier Inflows

Chestatee near
Dahlonega
(02333500)

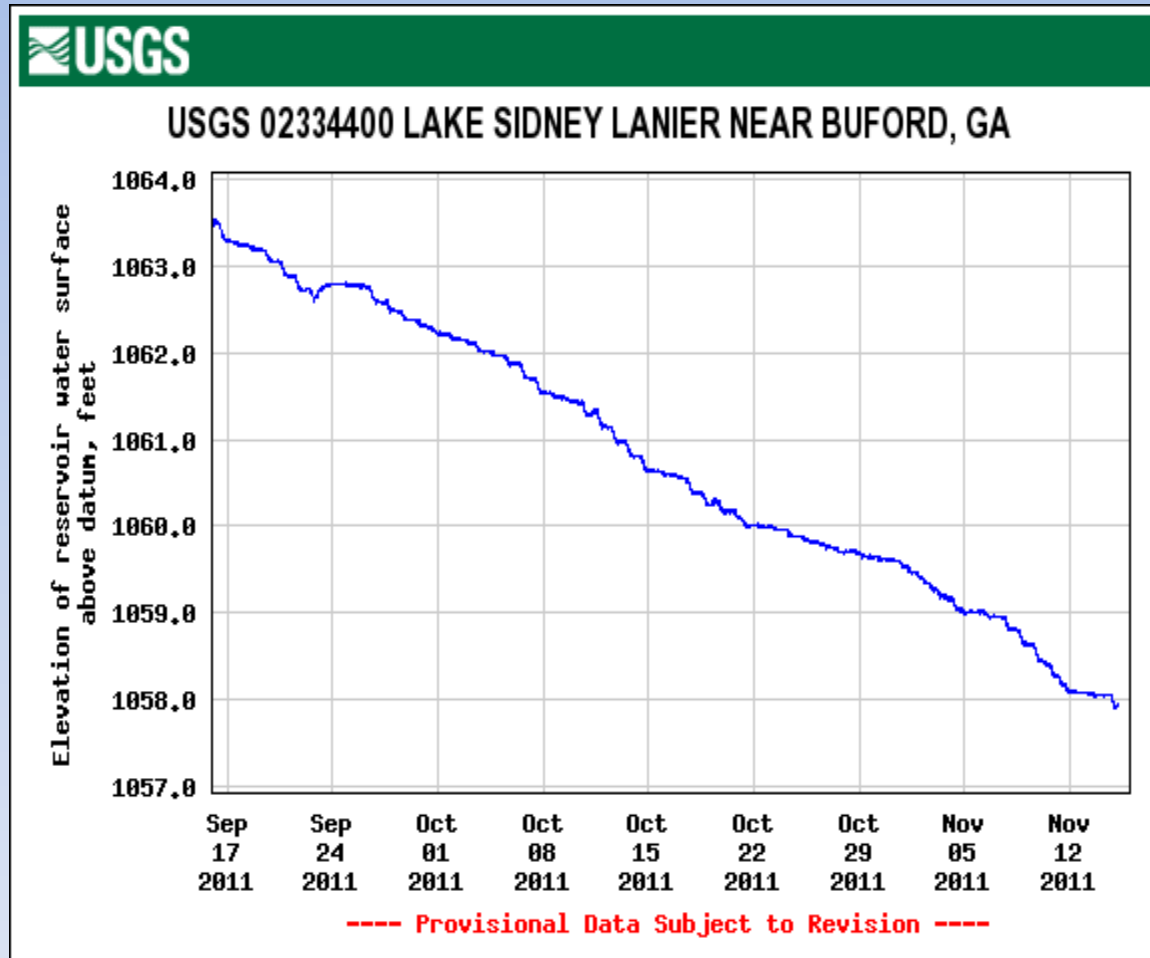
<http://waterwatch.usgs.gov>

Chattahoochee near
Cornelia (02331600)

Explanation - Percentile classes					FLOW
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	
Much below normal	Below normal	Normal	Above normal	Much above normal	



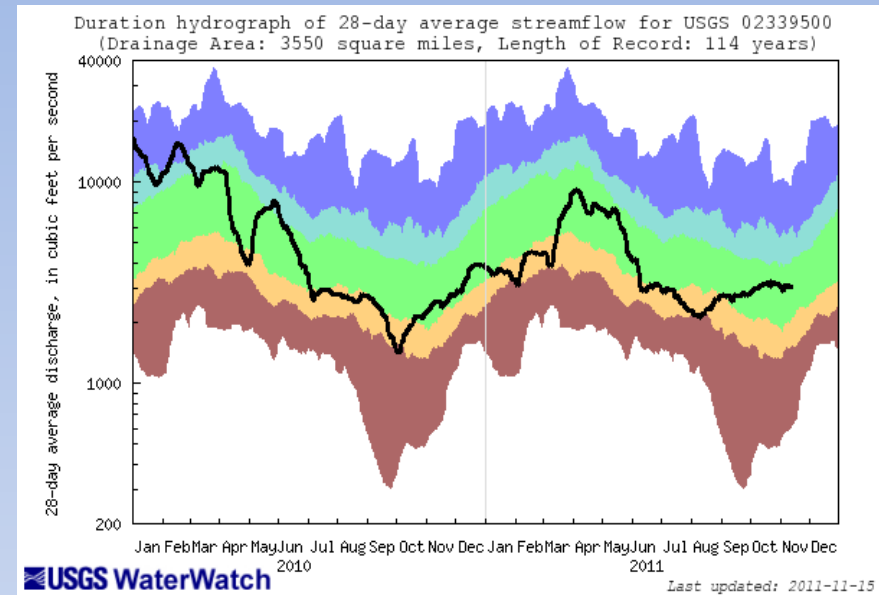
Lake Lanier Levels (02334400) for Previous 60 Days



Current Streamflows

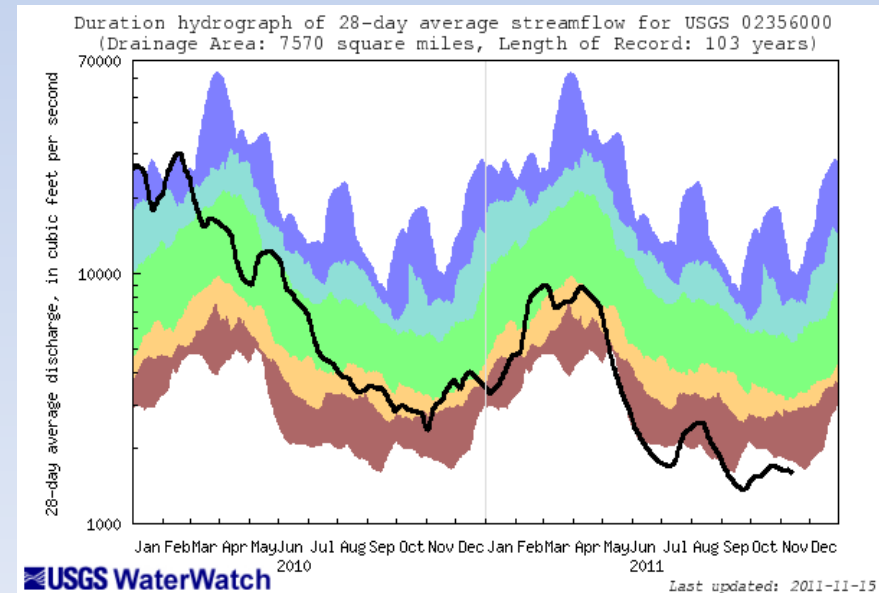
Chattahoochee at West Point (02339500)

<http://waterwatch.usgs.gov>



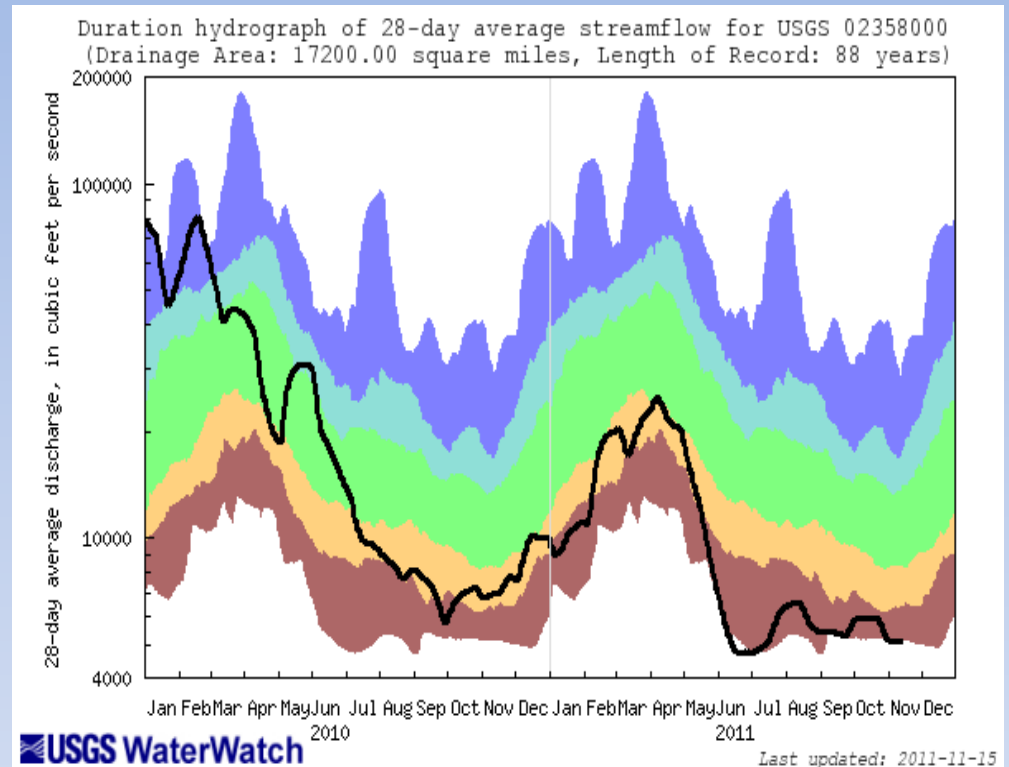
Flint at Bainbridge (02356000)

Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	



Streamflows

Apalachicola at Chattahoochee (02358000)

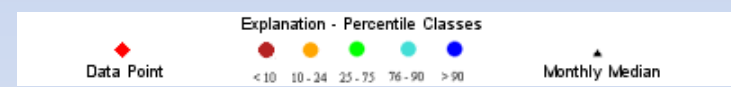
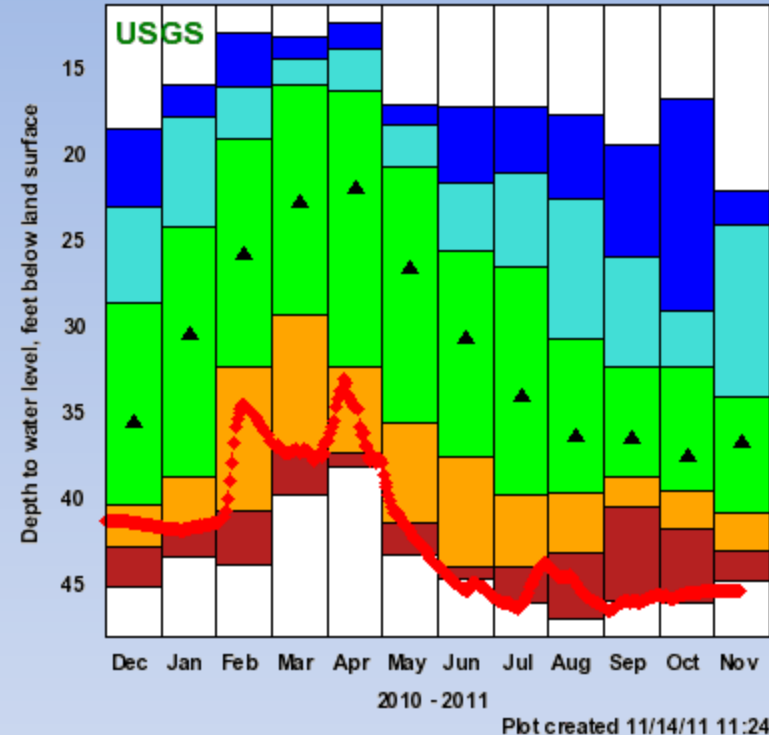
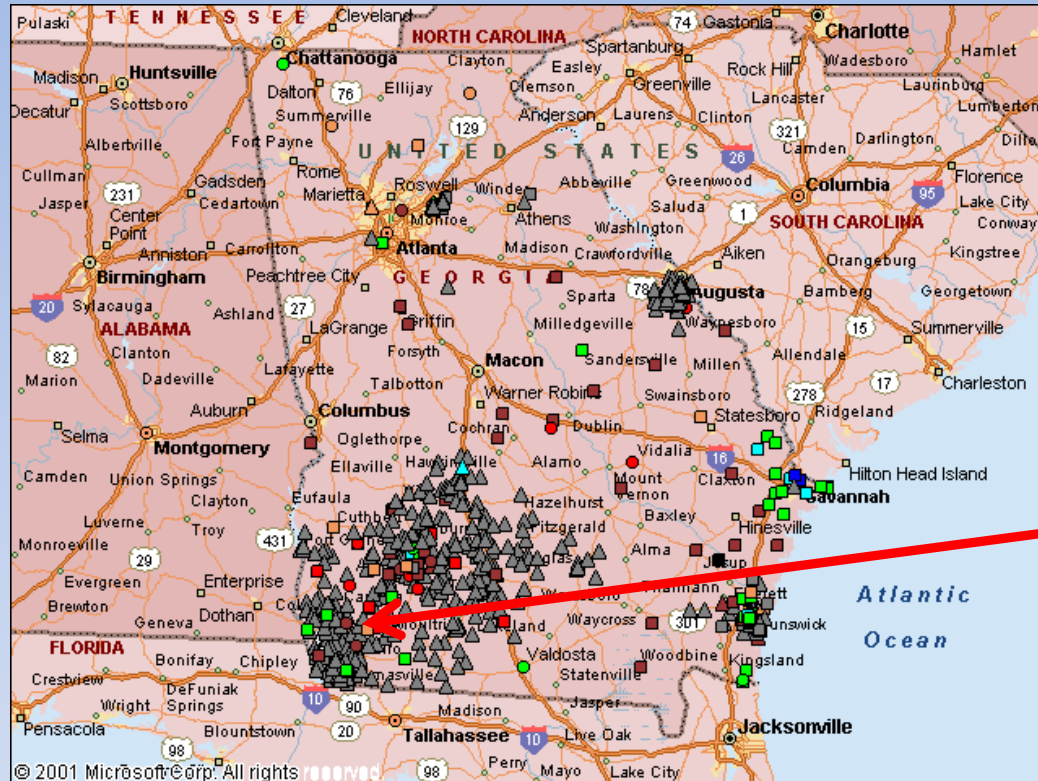


<http://waterwatch.usgs.gov>

Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

Groundwater Status

310651084404501 - 08G001



Explanation - Percentile classes (symbol color based on most recent measurement)

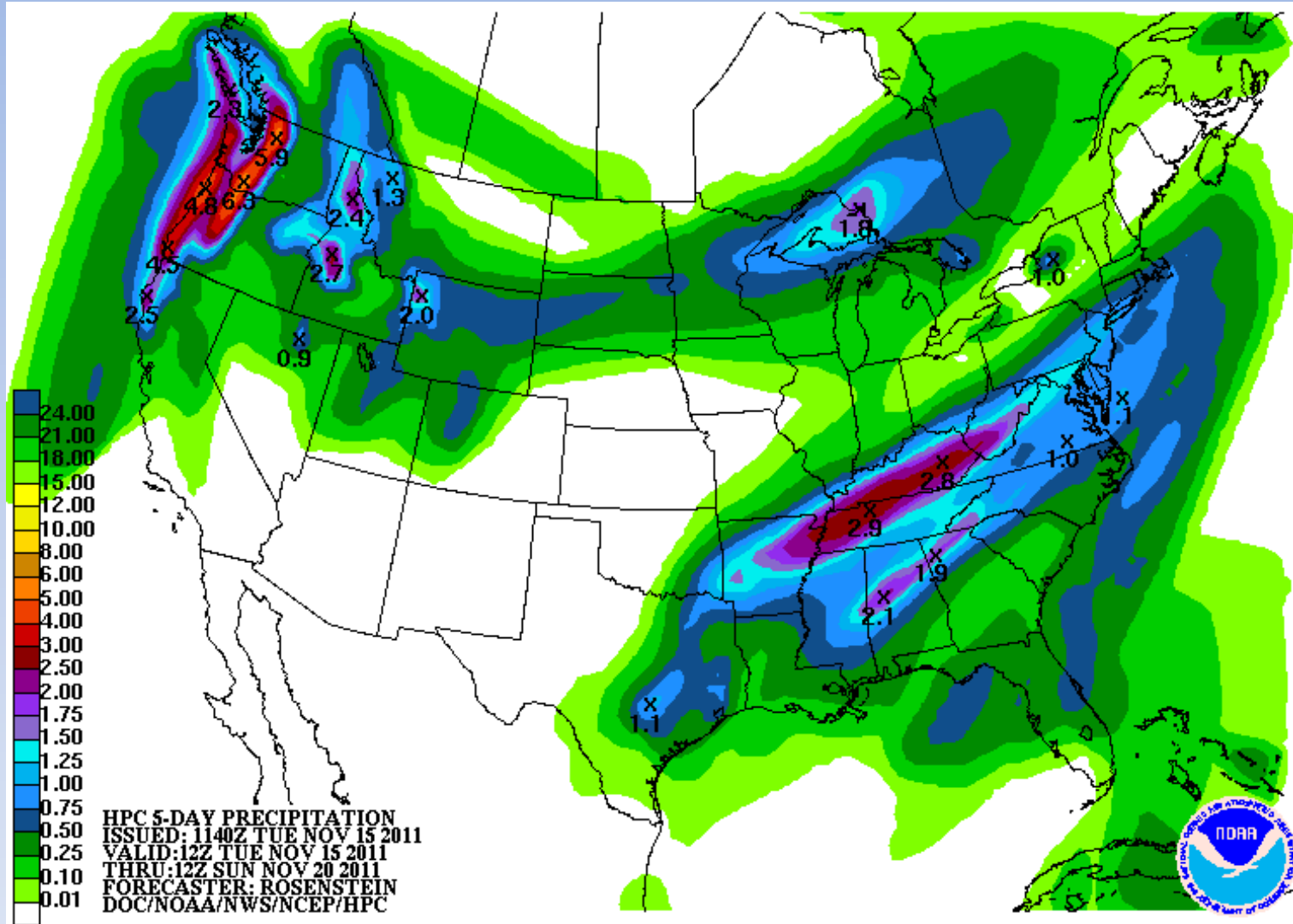
● Low	● <10	● 10-24
	● Much Below Normal	● Below Normal

- Real Time
- Continuous
- △ Periodic Measurements

Miller County, GA
(Upper Floridan Aquifer)

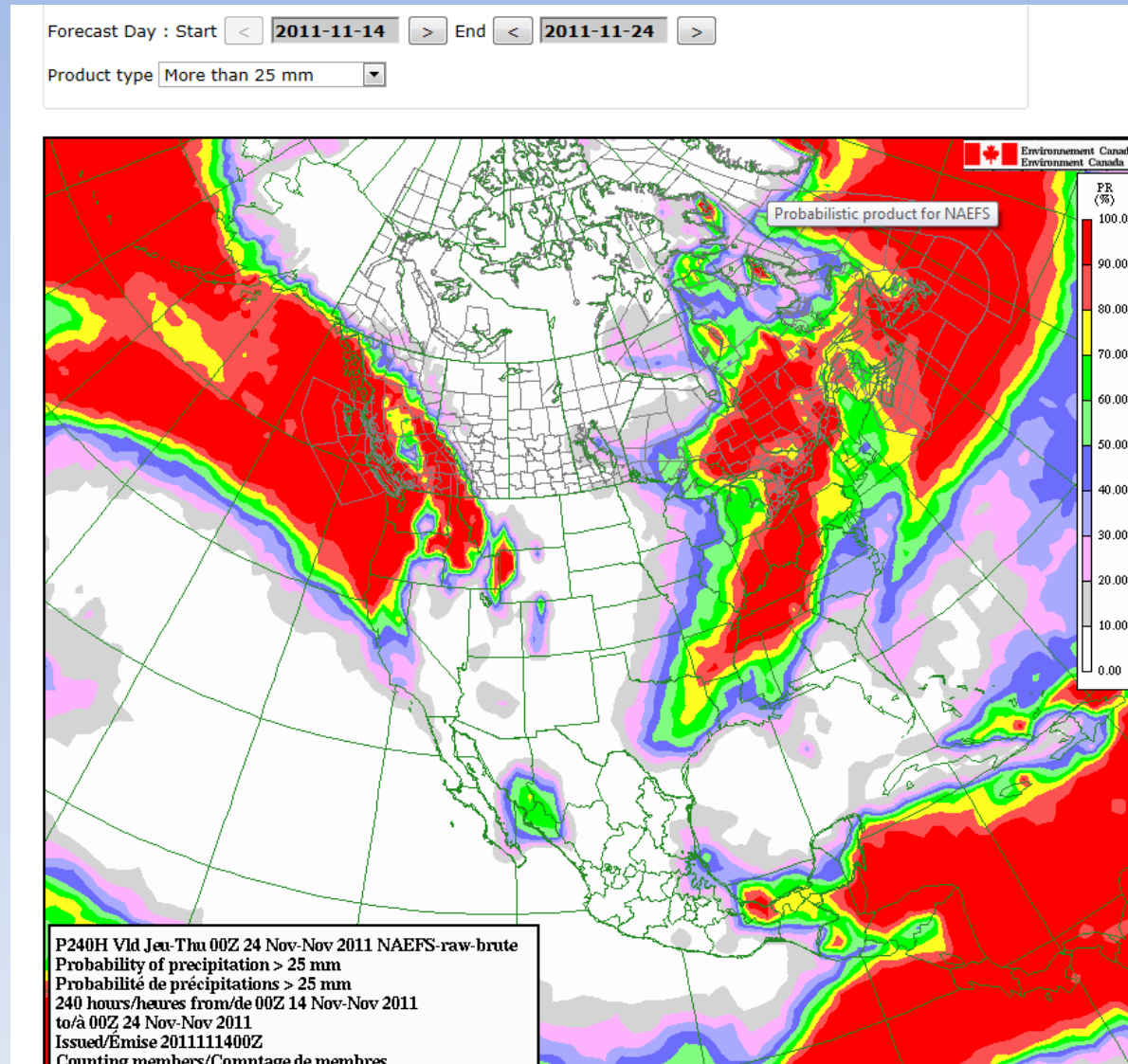
<http://groundwaterwatch.usgs.gov>

5-Day Precipitation Forecast



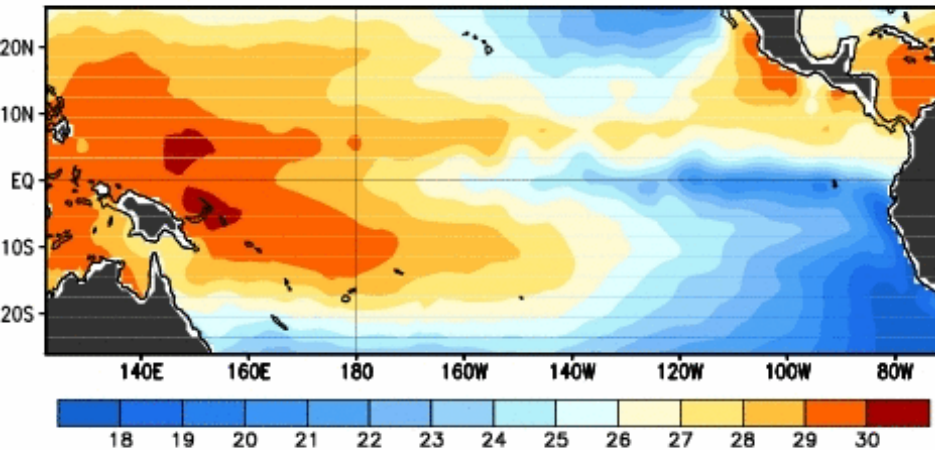
<http://www.hpc.ncep.noaa.gov/qpf/day1-5.shtml>

Probability of more than 1 inch rain in next 10 days, 14-24 Nov 2011

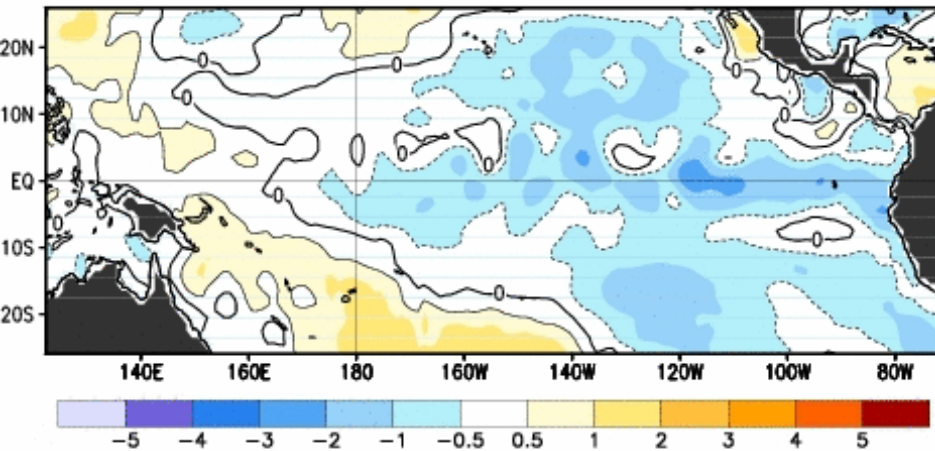


7-day average Pacific Ocean SST Anomalies

Observed Sea Surface Temperature (°C)

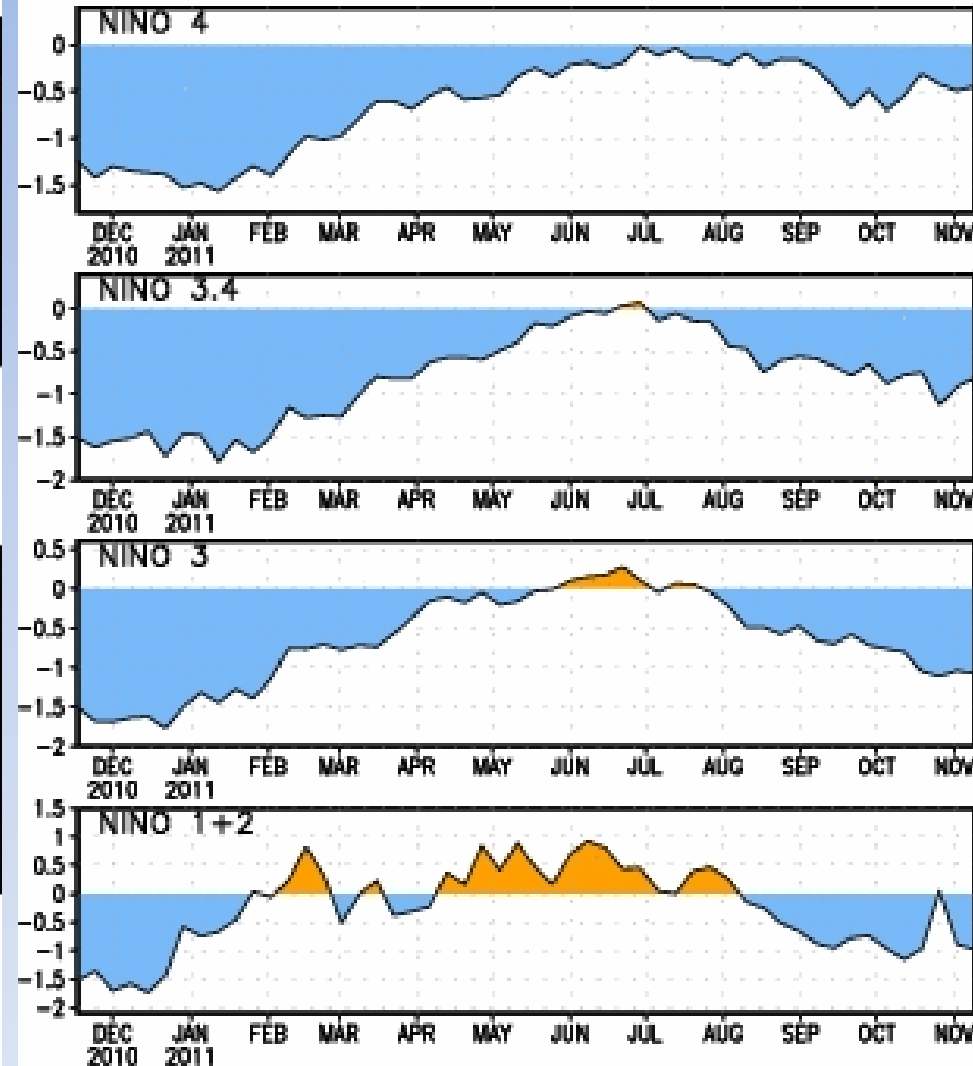


Observed Sea Surface Temperature Anomalies (°C)



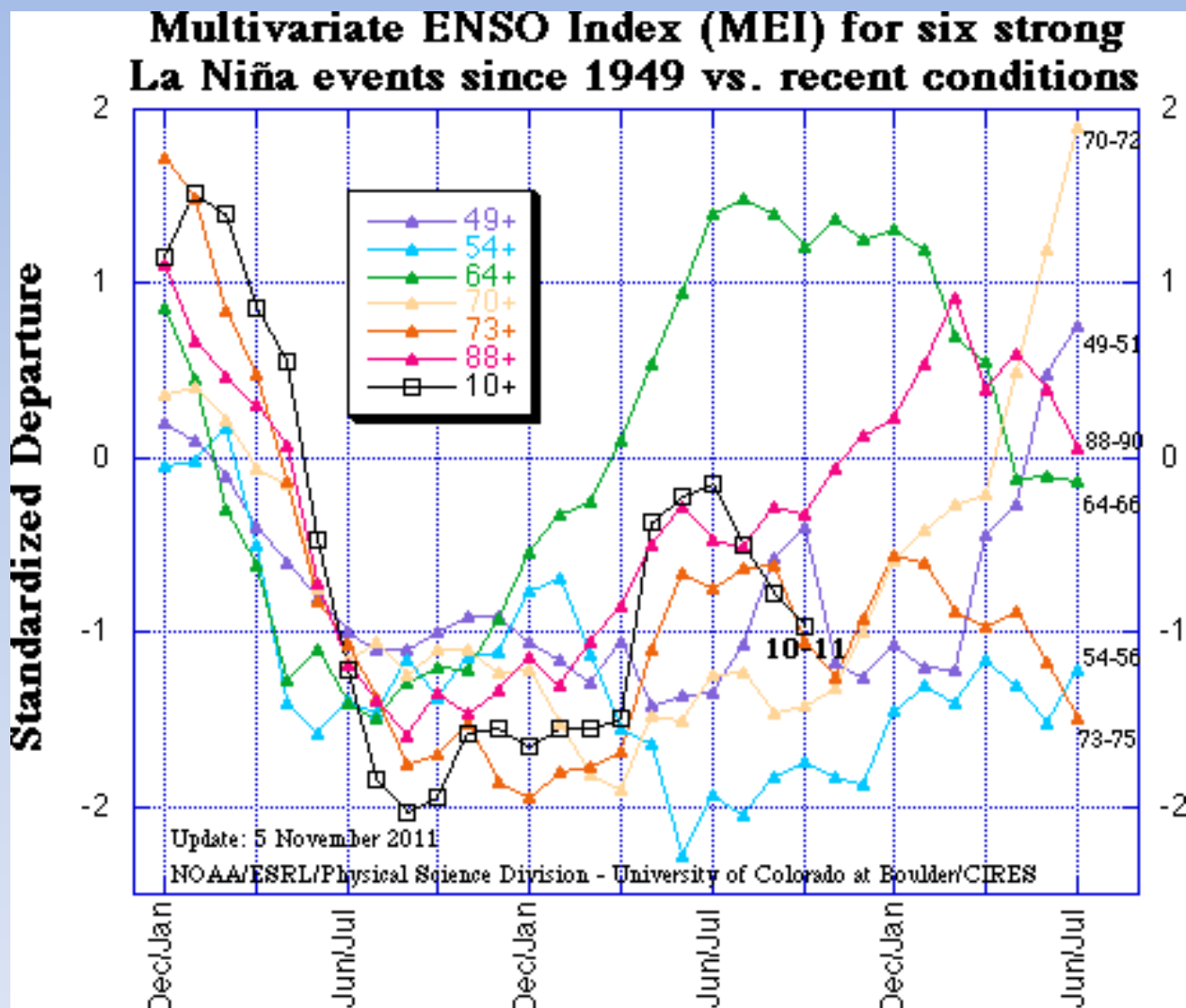
7-day Average Centered on 09 November 2011

SST Anomalies



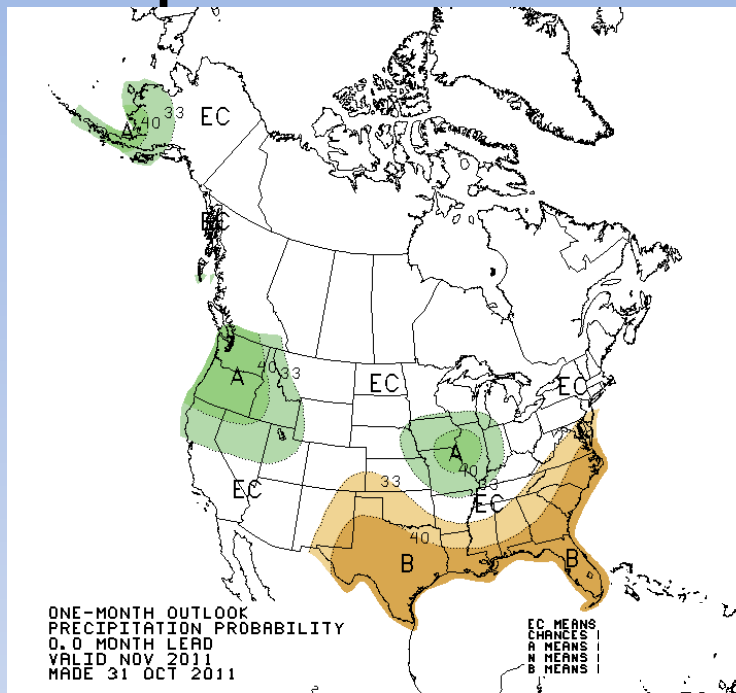
<http://www.cpc.ncep.noaa.gov/products/precip/CWlink/MJO/enso.shtml>

Multivariate ENSO Index: recent and six strong La Niña events

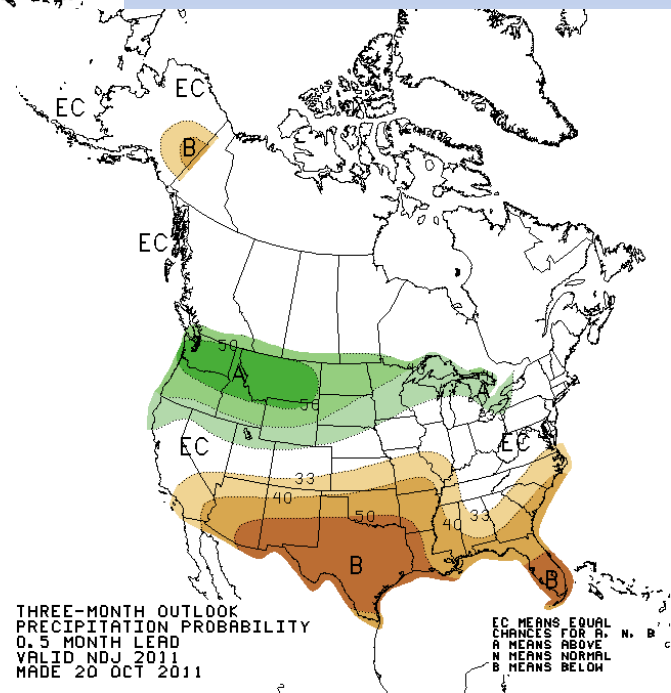


Precipitation Outlook

1-month



3-month (NDJ)

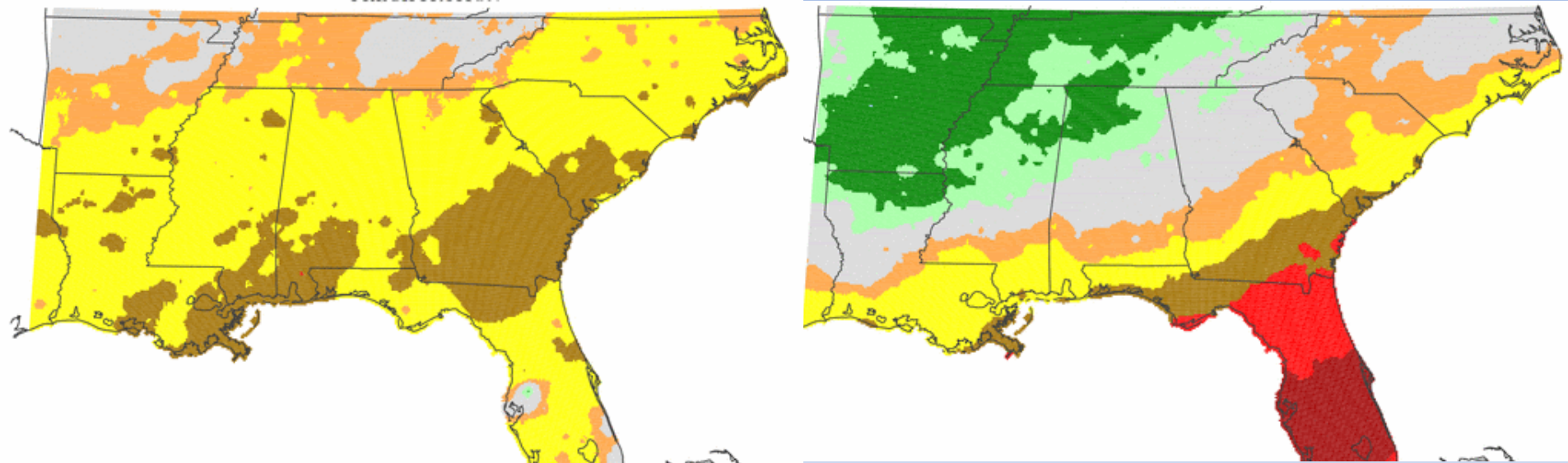


<http://www.cpc.ncep.noaa.gov/products/predictions/30da>

La Nina Composites

November

January



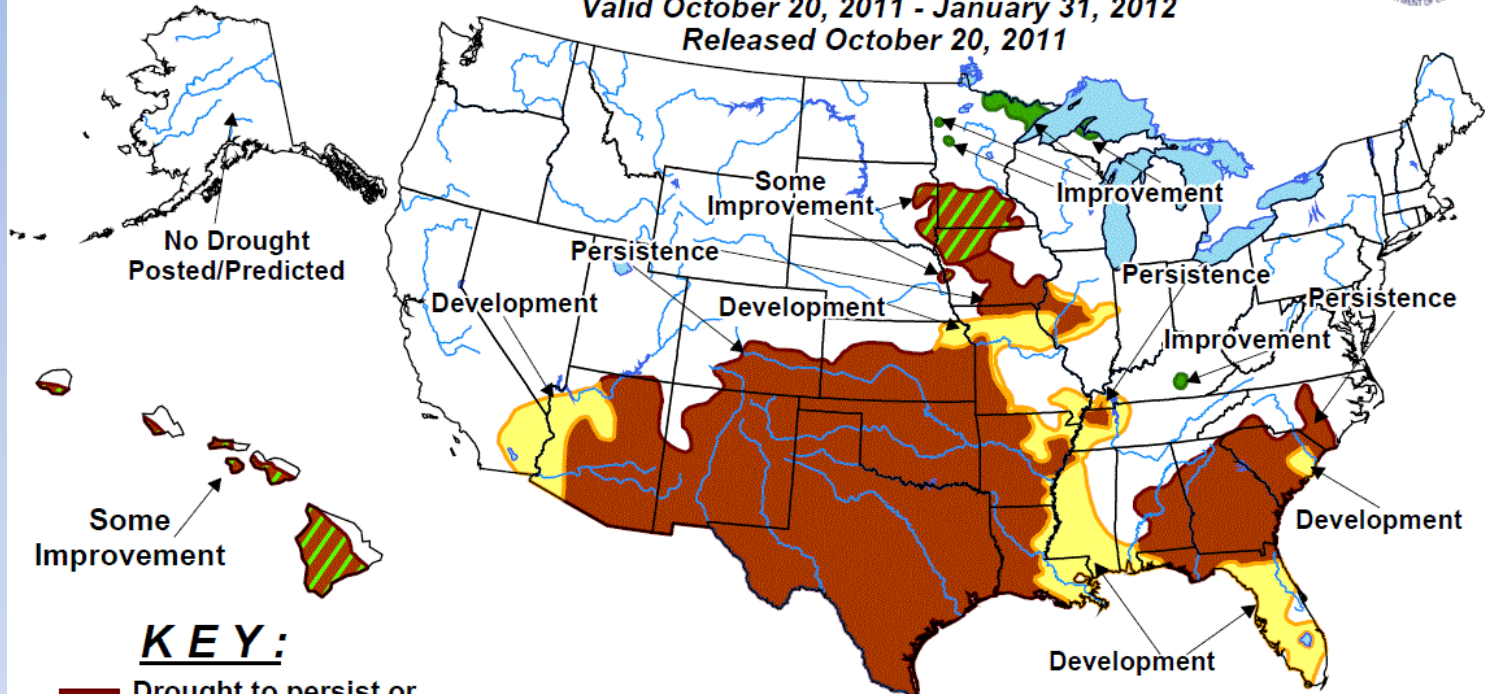
U.S. Drought Outlook







U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid October 20, 2011 - January 31, 2012

Released October 20, 2011



KEY:

-  Drought to persist or intensify
-  Drought ongoing, some improvement
-  Drought likely to improve, impacts ease
-  Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events.

"Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity).

For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

1-Month Streamflow

Forecasts

Apalachicola Watershed

Southeast River Forecast Center

November 2011

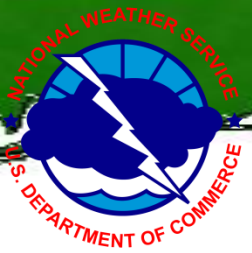
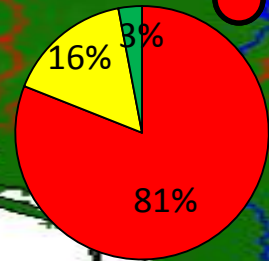
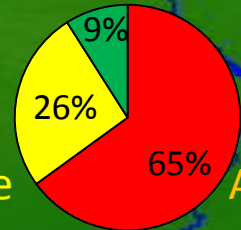
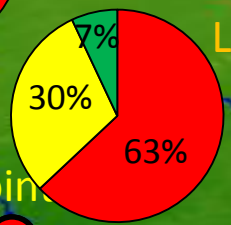
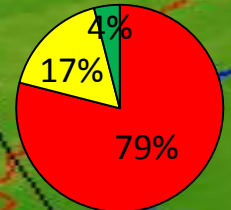
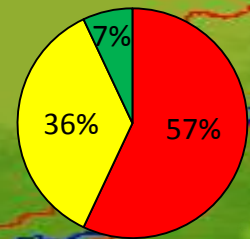
-  Above Normal
-  Near Normal
-  Below Normal



3-Month Mean Daily Streamflow Forecasts Apalachicola Watershed Southeast River Forecast Center

November 14 2011 –
February 12 2012

-  Above Normal
-  Near Normal
-  Below Normal



Summary

- Extreme drought conditions continue through much of the basin
- Streamflows continue to be low and are below historic record lows in the southern part of the basin
- Depth to ground water is near historic record levels in the southern part of the basin
- No precipitation is forecast in the near term
- Streamflows are forecast to be below normal through the next three months
- La Niña conditions continue to strengthen, so drought is likely to continue over the next several months

Announcements

What: ACF Outlook Forum
When: 1-2 December 2011
Where: Lake Lanier Islands Resort
Contact: Lisa Darby [lisa.darby@noaa.gov]

What: Prototype website for water managers
Where: <http://sewater.engr.uga.edu/>
Contact: Pam Knox [pknox@engr.uga.edu]

References

Speakers

David Zierden, FSU

Tony Gotvald, USGS

Robert Allen, USACE

Jeffrey Dobur, SERFC

Moderator

Keith Ingram, SECC/UF

Additional information

General drought information

<http://drought.gov>

<http://www.drought.unl.edu>

General climate and El Niño information

<http://agroclimate.org/climate/>

Streamflow monitoring

<http://waterwatch.usgs.gov>

Groundwater monitoring

<http://groundwaterwatch.usgs.gov>

