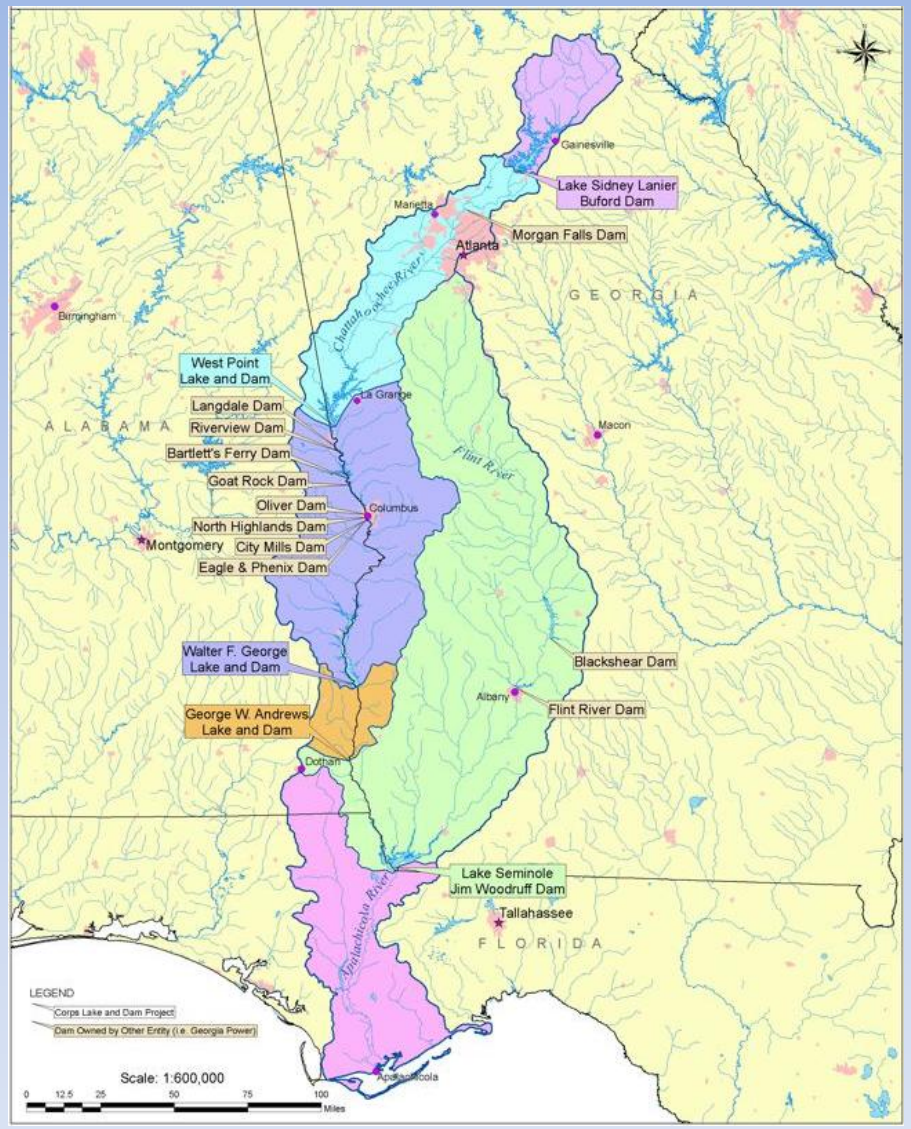
National Integrated Drought Information System

Southeast US Pilot for Apalachicola-Flint-Chattahoochee River Basin

15 November 2011



Current drought status from Drought Monitor

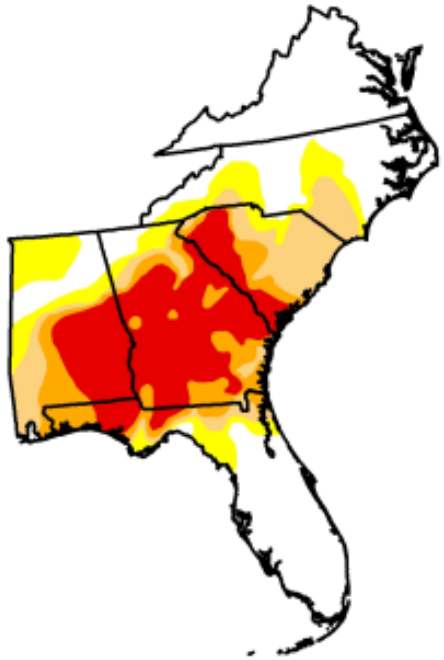
U.S. Drought Monitor

November 8, 2011
Valid 7 a.m. EST

Southeast

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:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

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

http://droughtmonitor.unl.edu

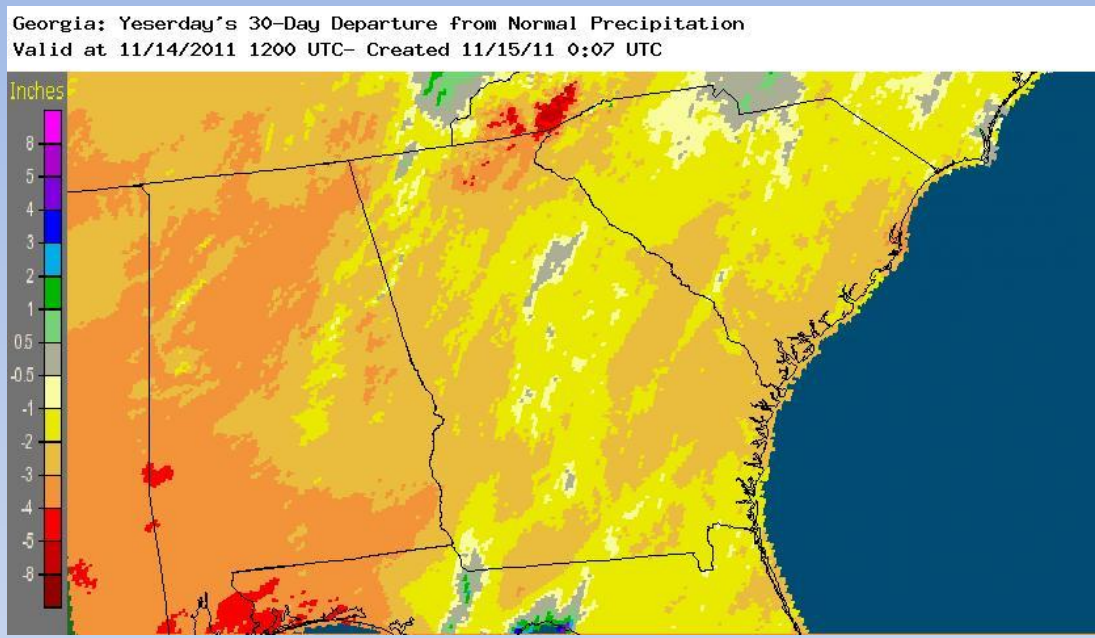
USDA National Drought Mitigation Center

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

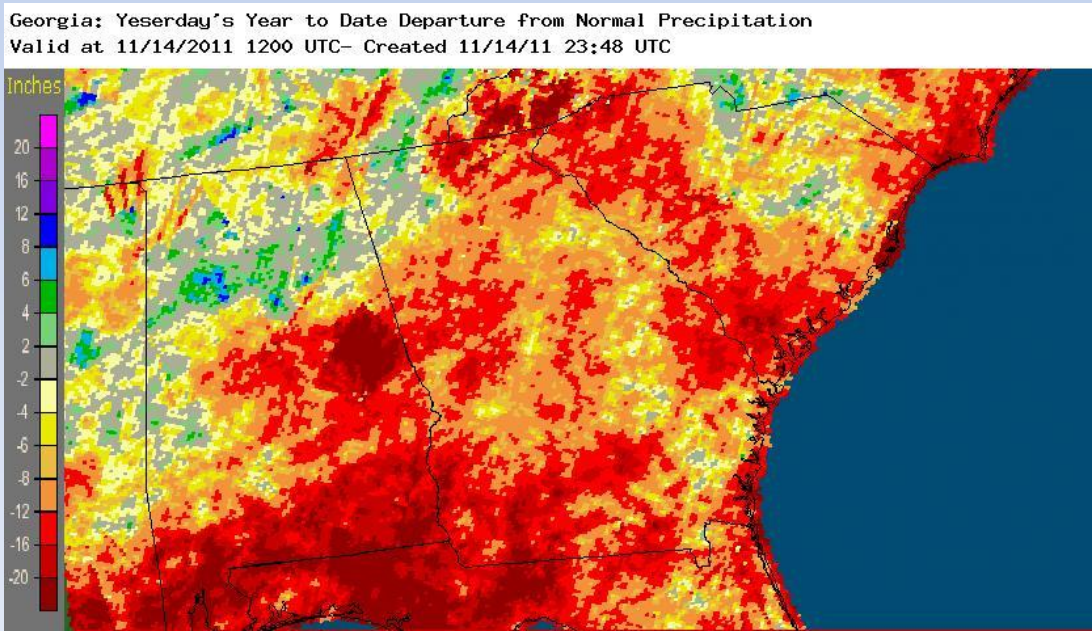
http://www.drought.unl.edu/dm/monitor.html

Cumulative Rainfall Deficits

Past 30 days

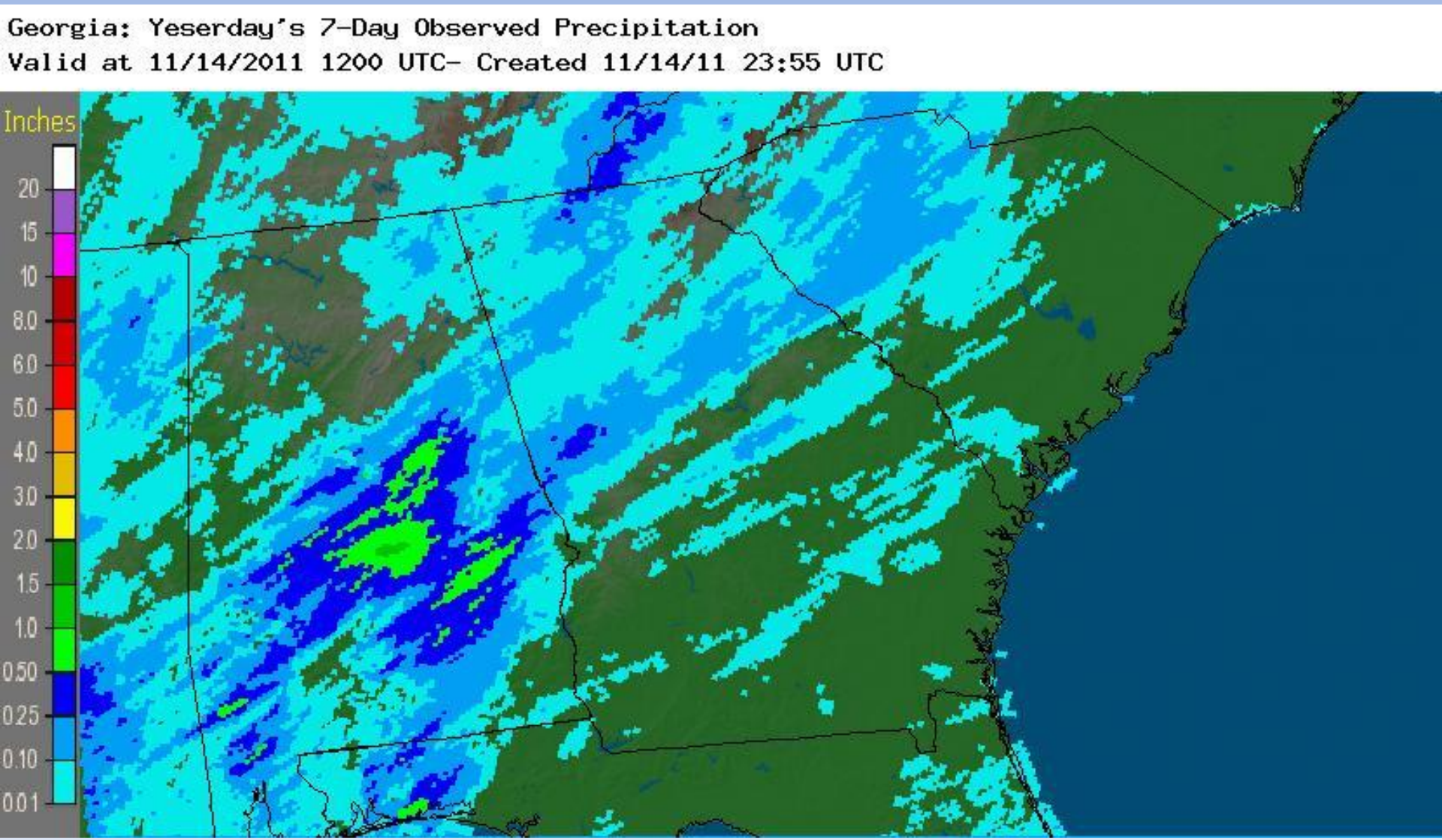


Since Jan. 1st



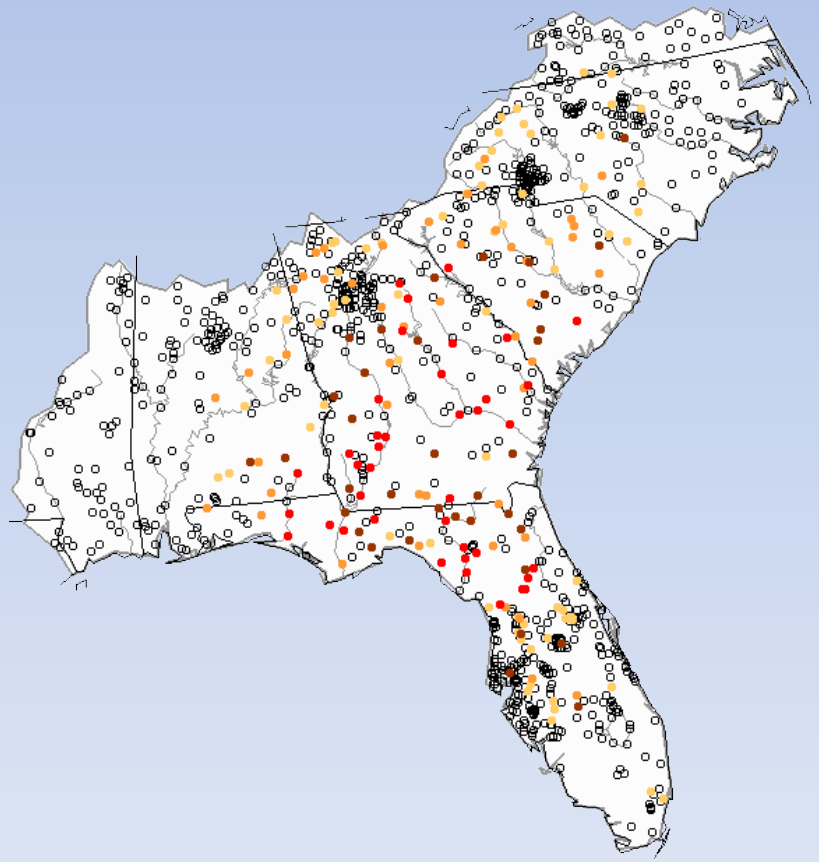
http://water.weather.gov/precip/

7-day Rainfall Totals

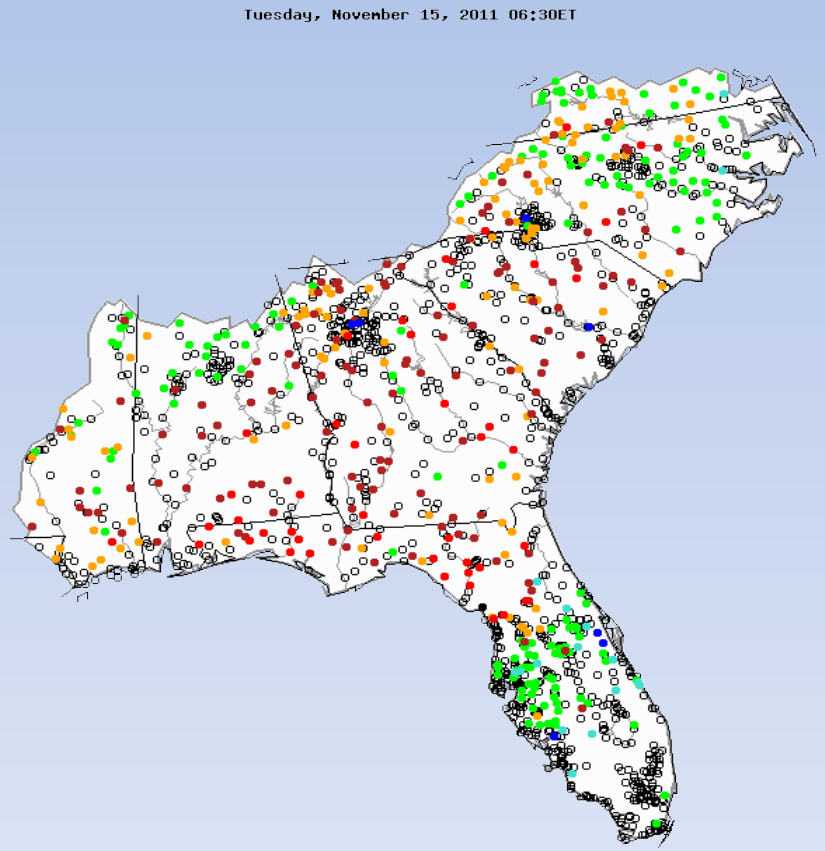


Realtime stream flow compared with historical monthly averages

Previous Month:



Current:



USGS

http://waterwatch.usgs.gov

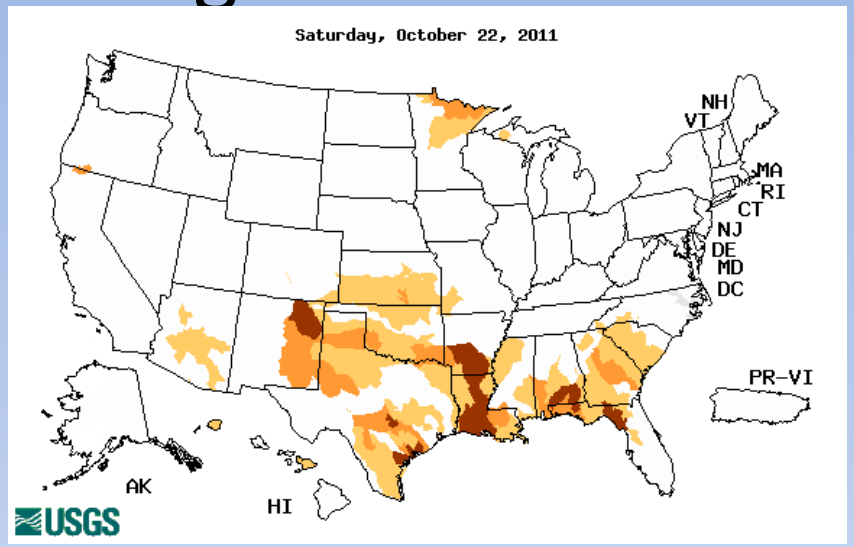
Below Normal 7-day Average Streamflows

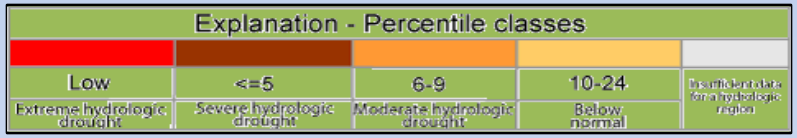
Previous month:

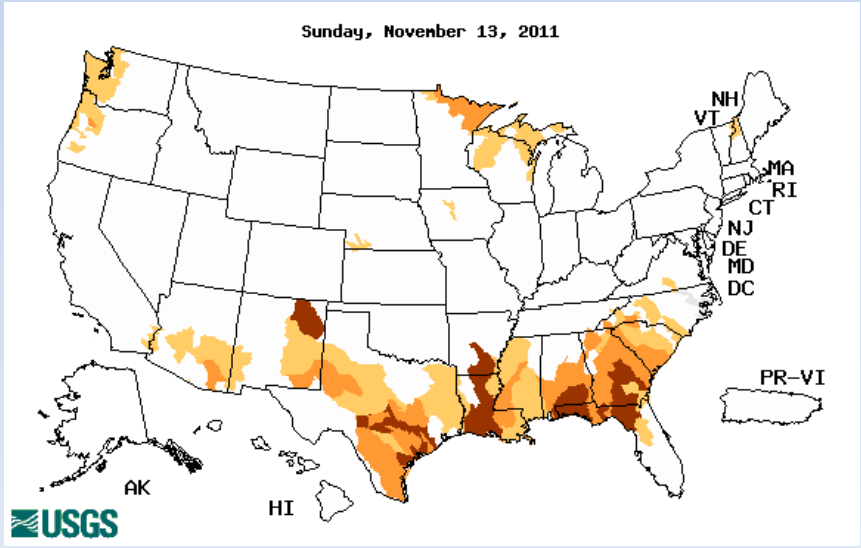
Below normal 7-day average streamflow as compared with historical streamflow for day shown

Current:

http://waterwatch.usgs.gov





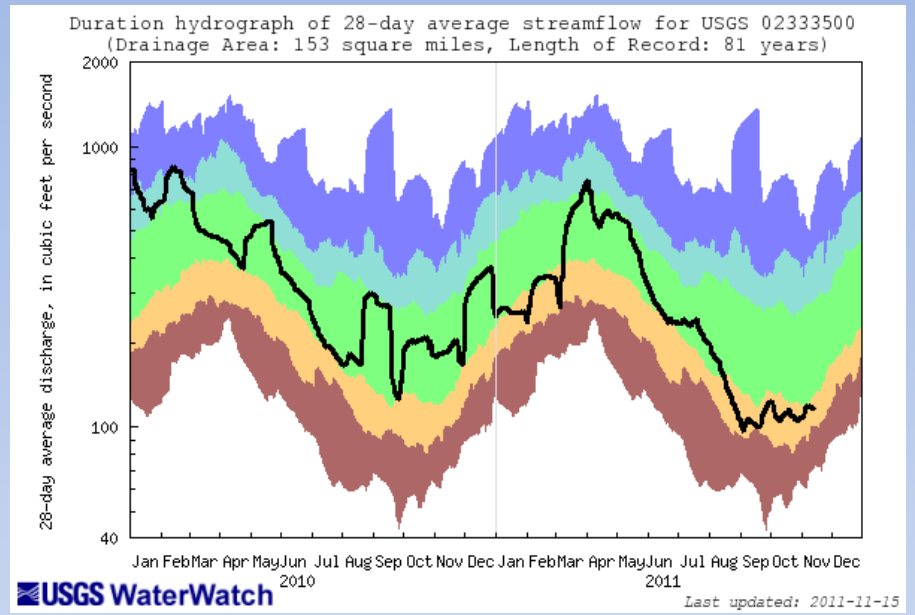


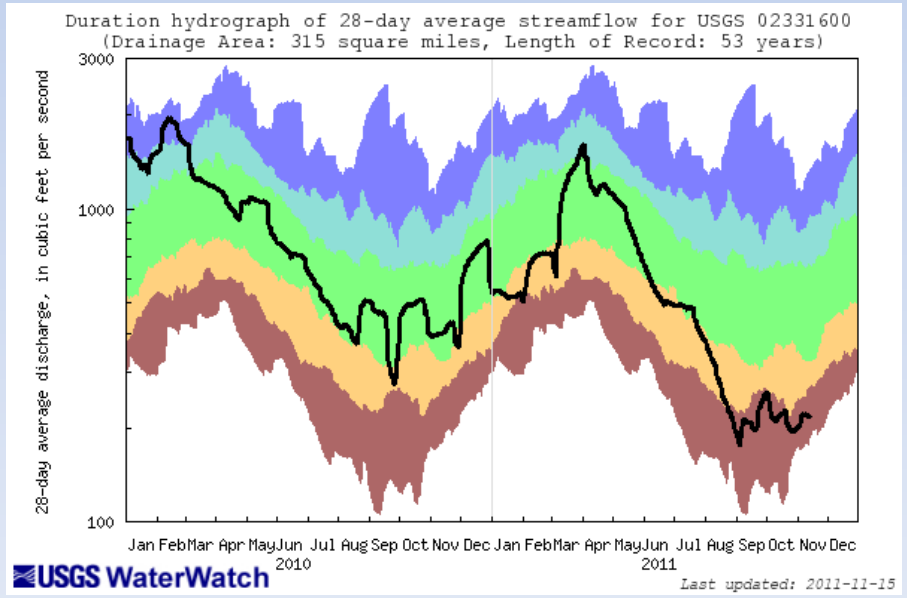
Lake Lanier Inflows

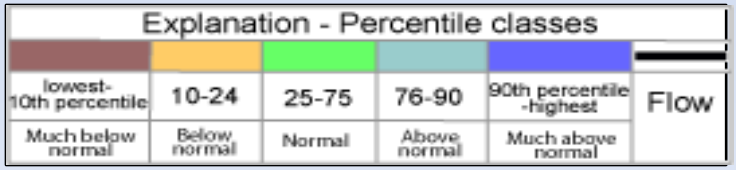
Chestatee near Dahlonega (02333500)

http://waterwatch.usgs.gov

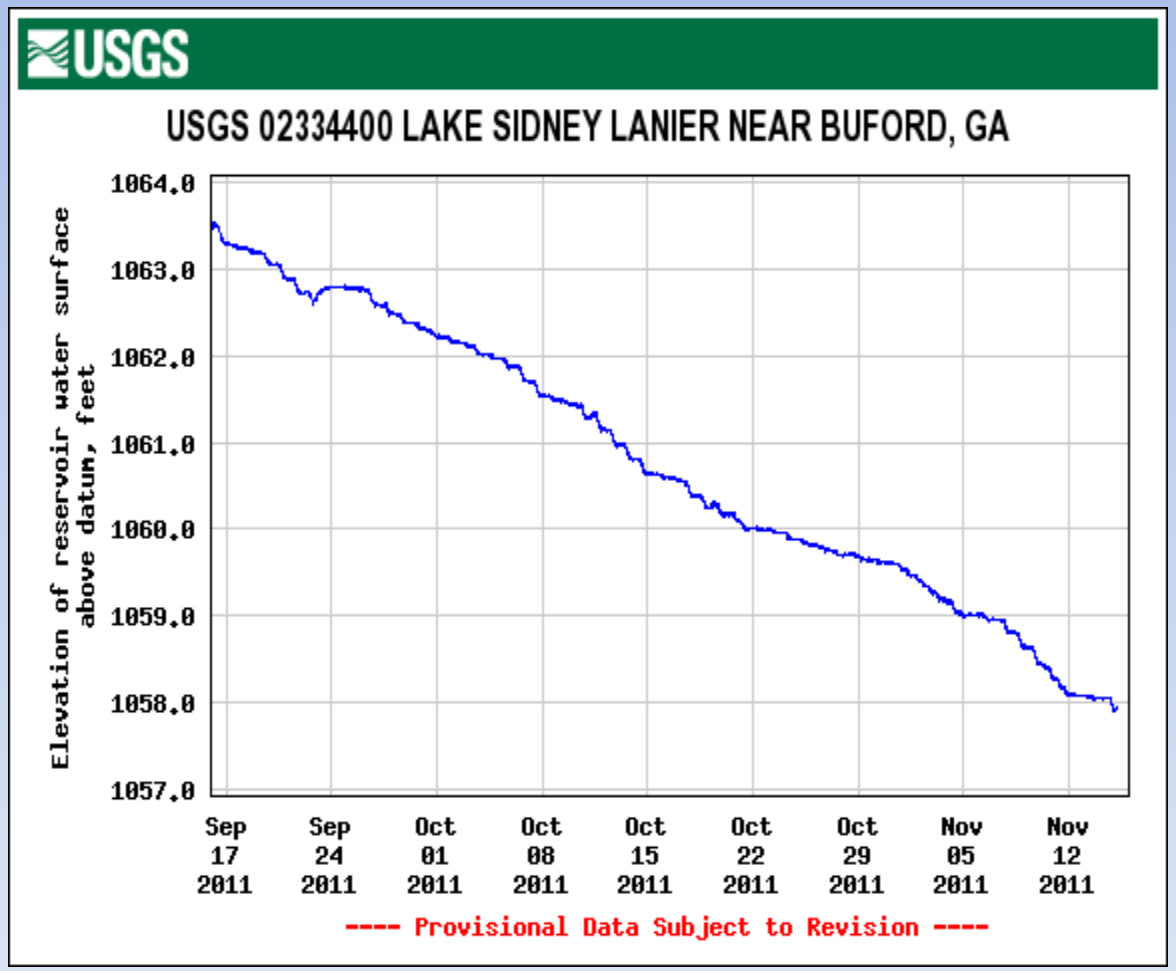
Chattahoochee near Cornelia (02331600)





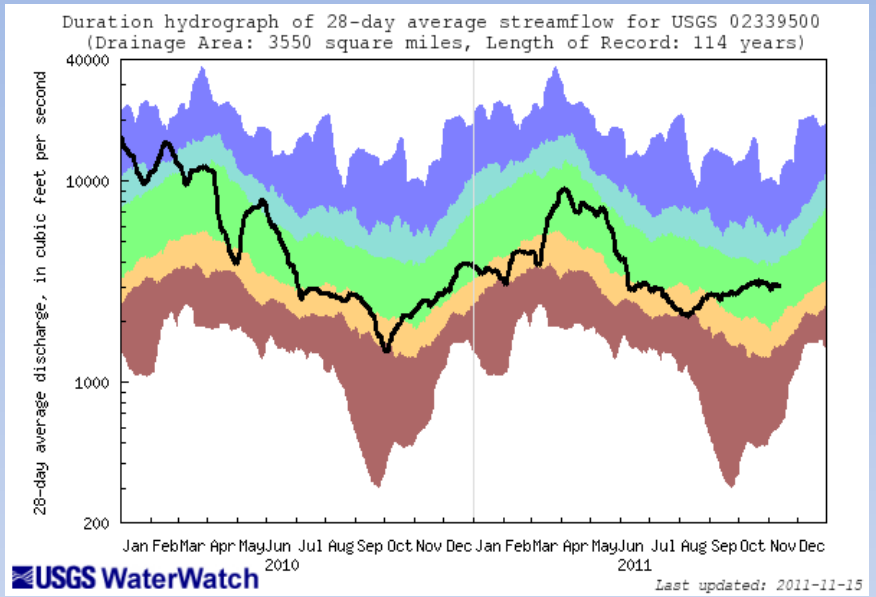


Lake Lanier Levels (02334400) for Previous 60 Days



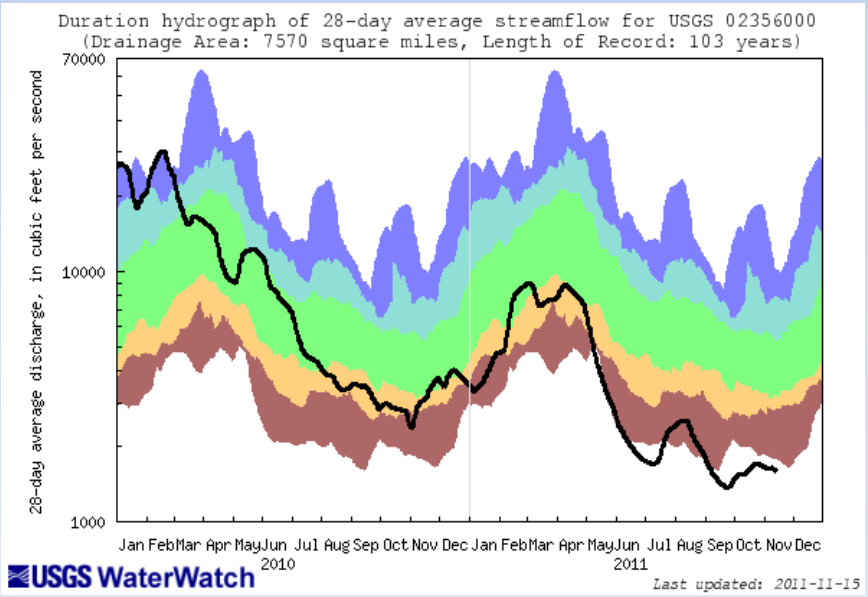
Current Streamflows

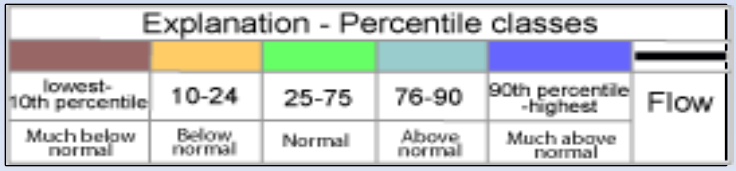
Chattahoochee at West Point (02339500)



http://waterwatch.usgs.gov

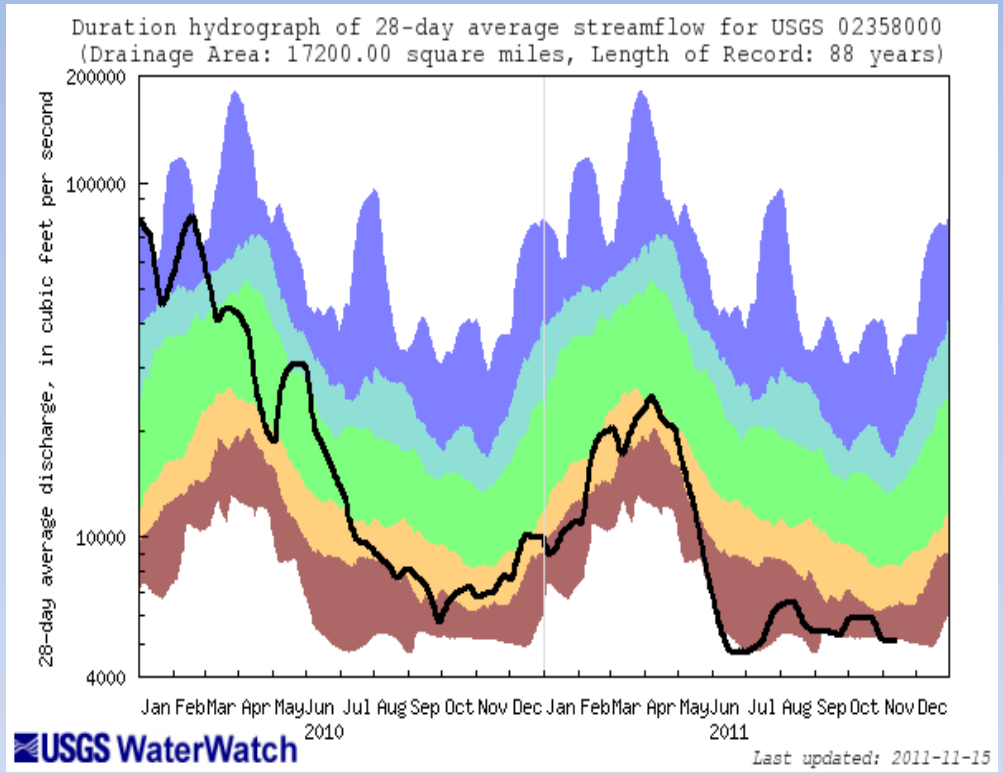
Flint at Bainbridge (02356000)

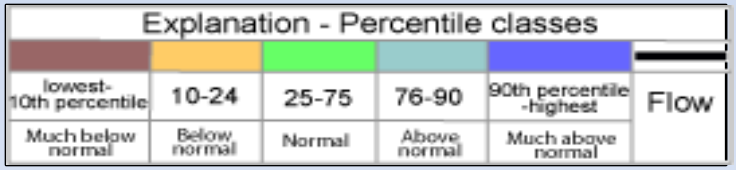




Streamflows

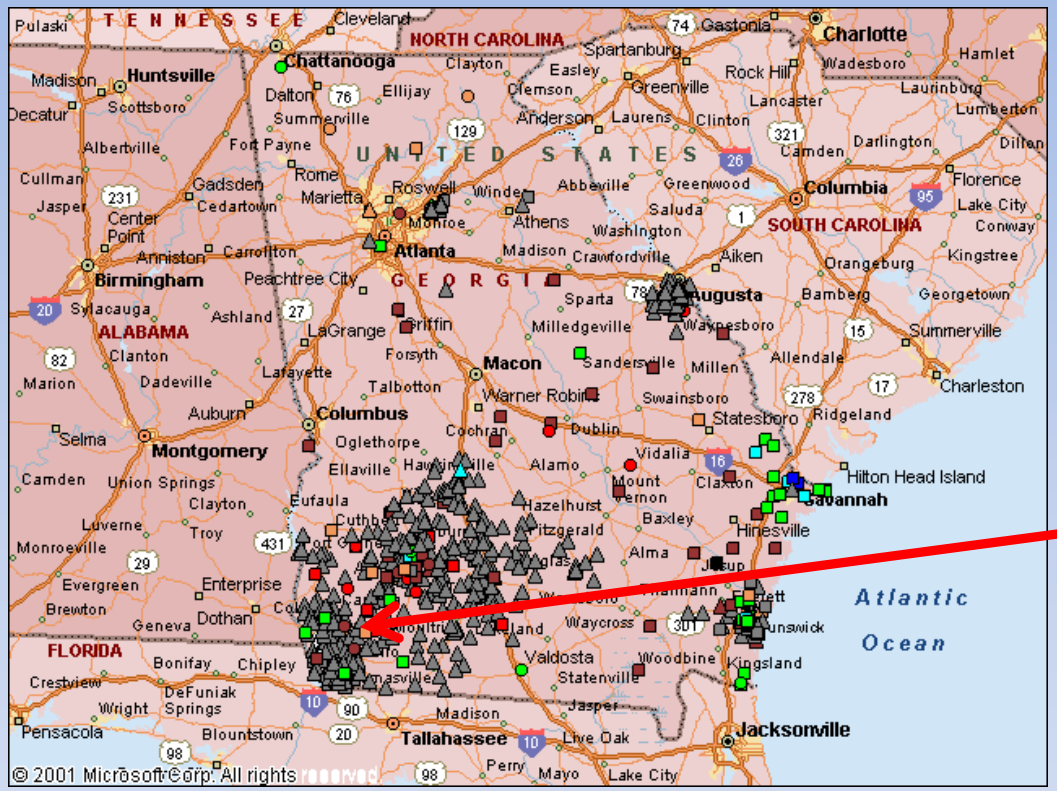
Apalachicola at Chattahoochee (02358000)

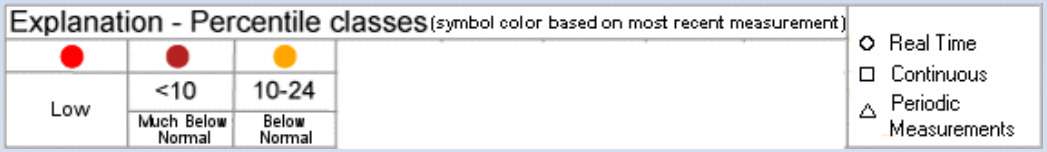


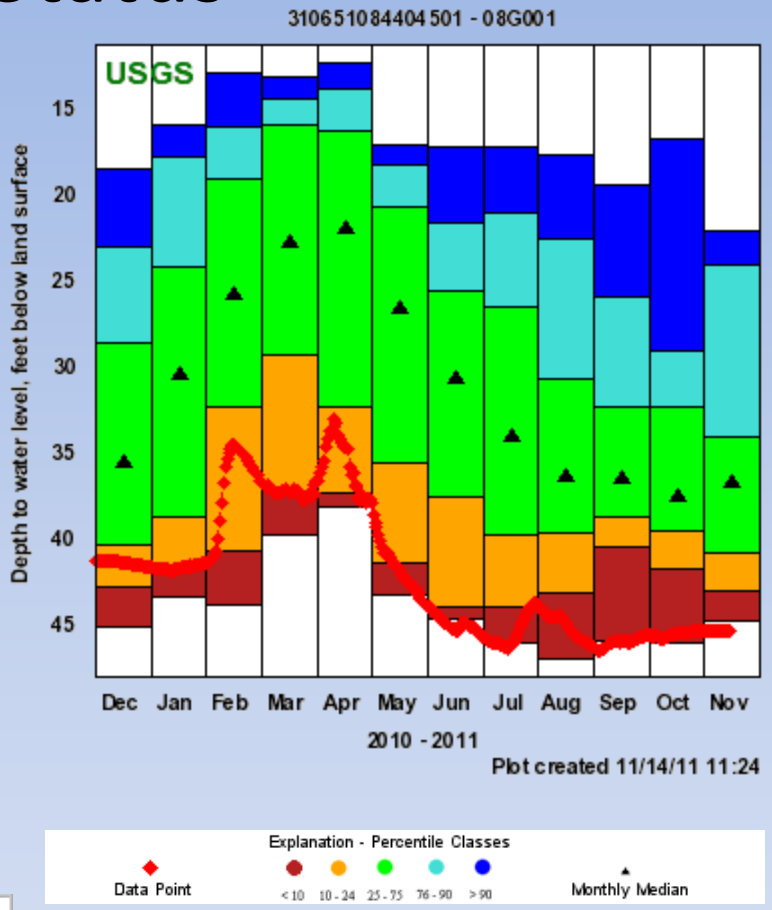


http://waterwatch.usgs.gov

Groundwater Status



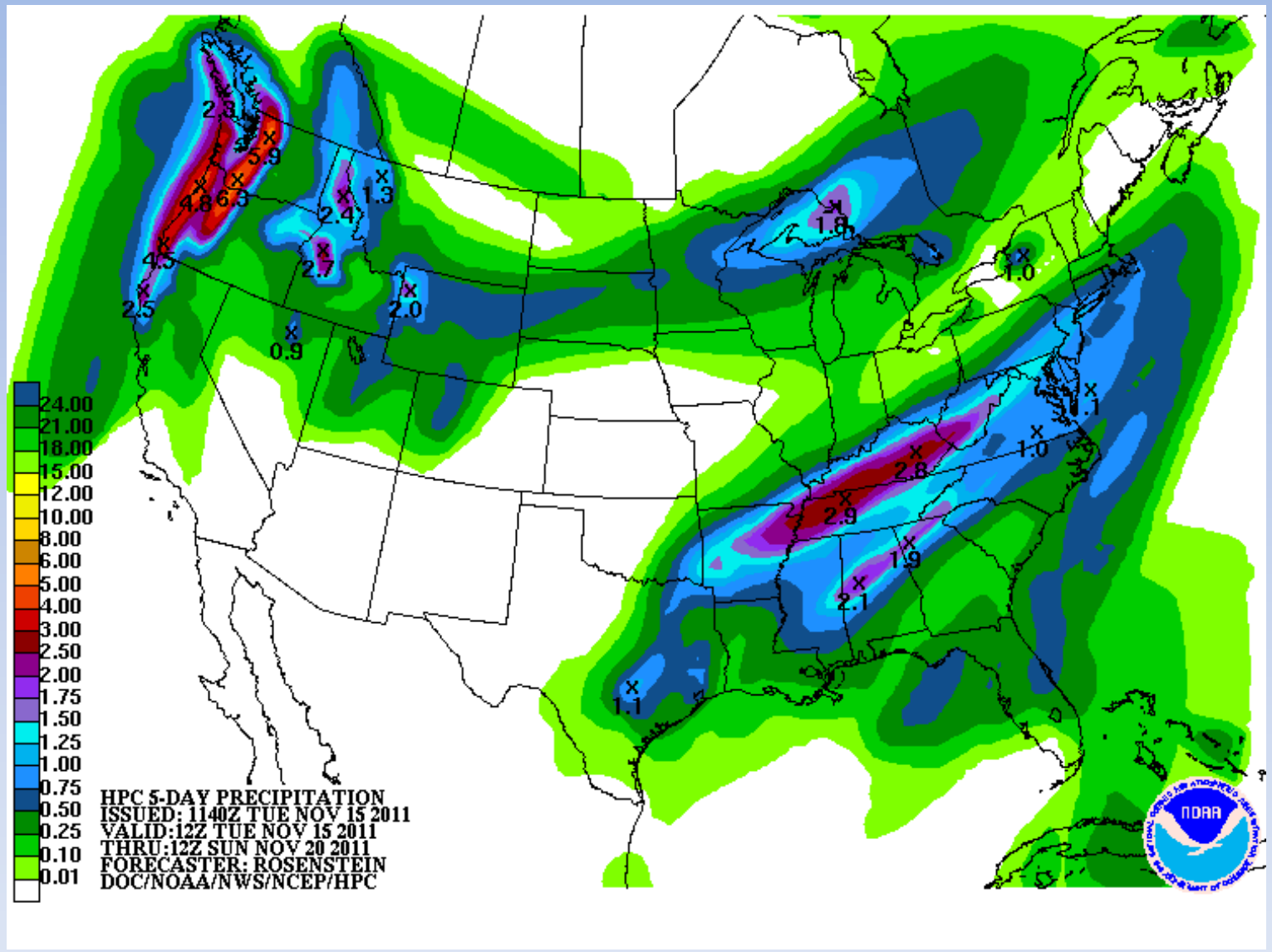




Miller County, GA
(Upper Floridan Aquifer)

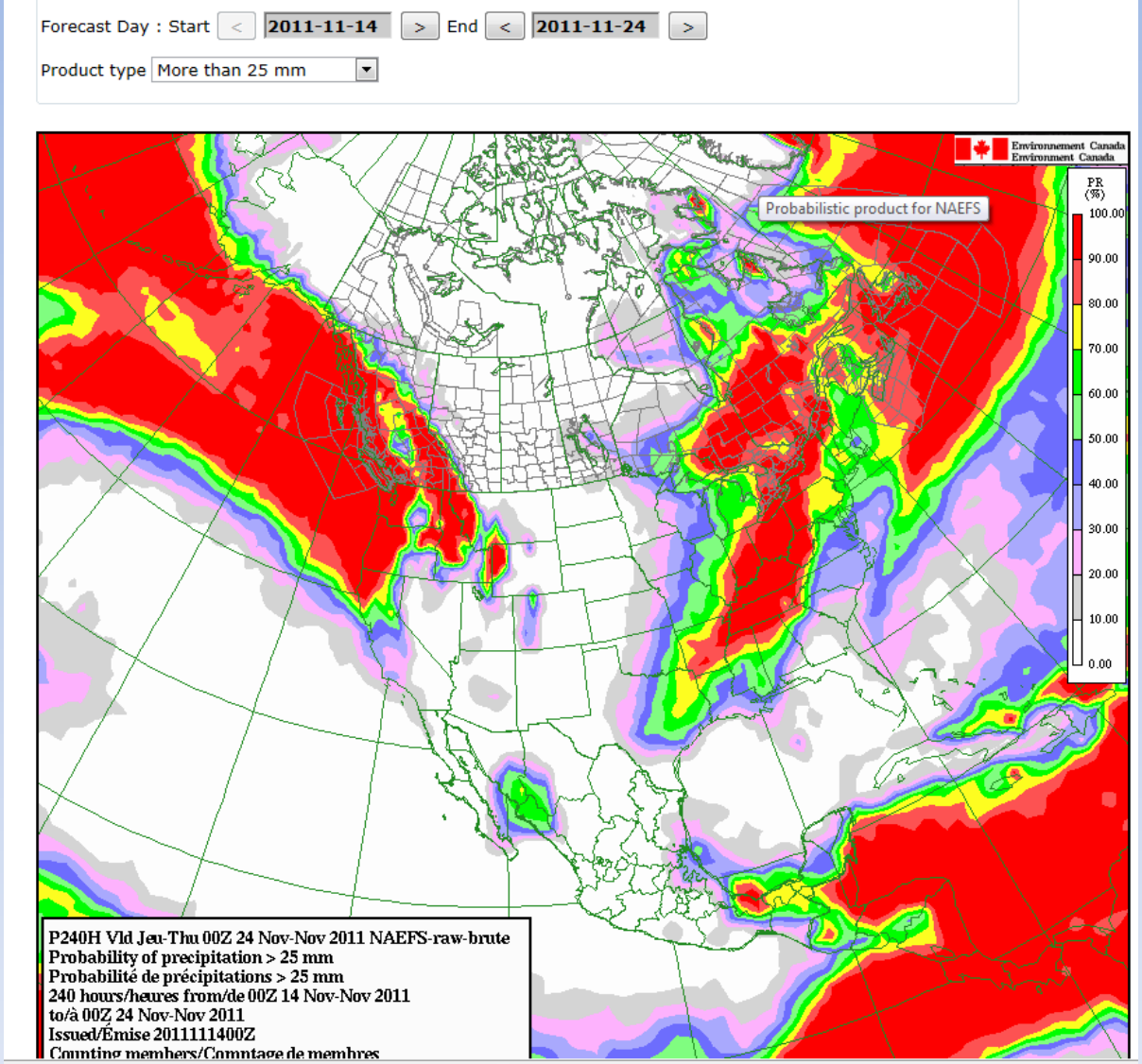
http://groundwaterwatch.usgs.gov

5-Day Precipitation Forecast

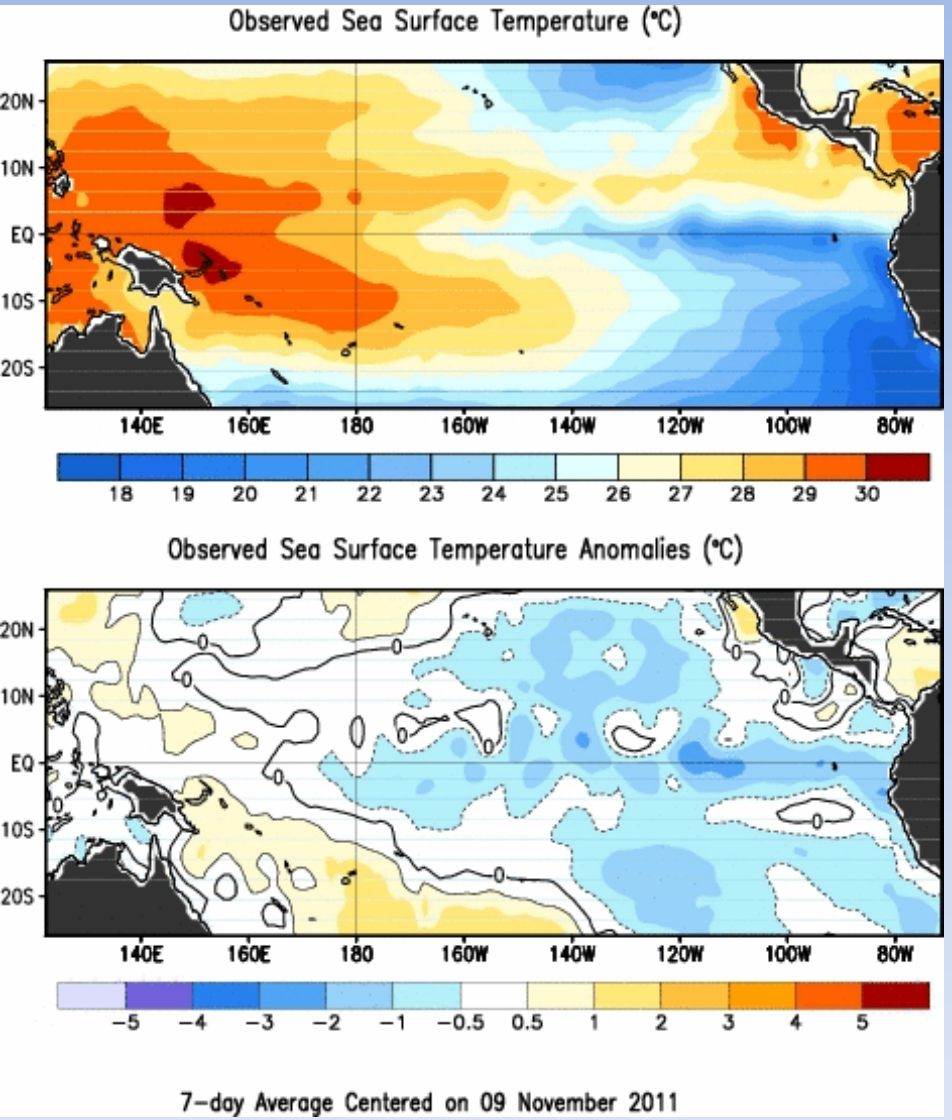


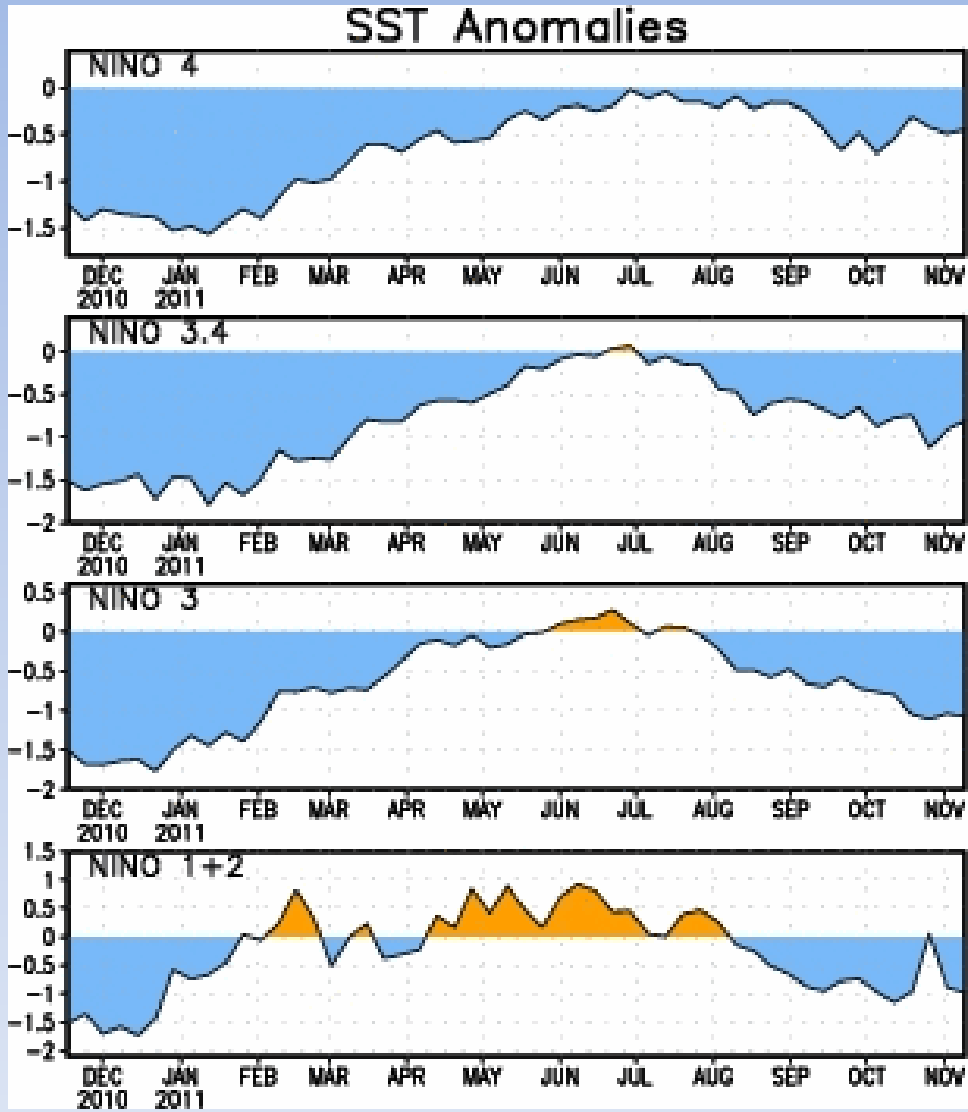
http://www.hpc.ncep.noaa.gov/qpf/day1-5.shtml

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



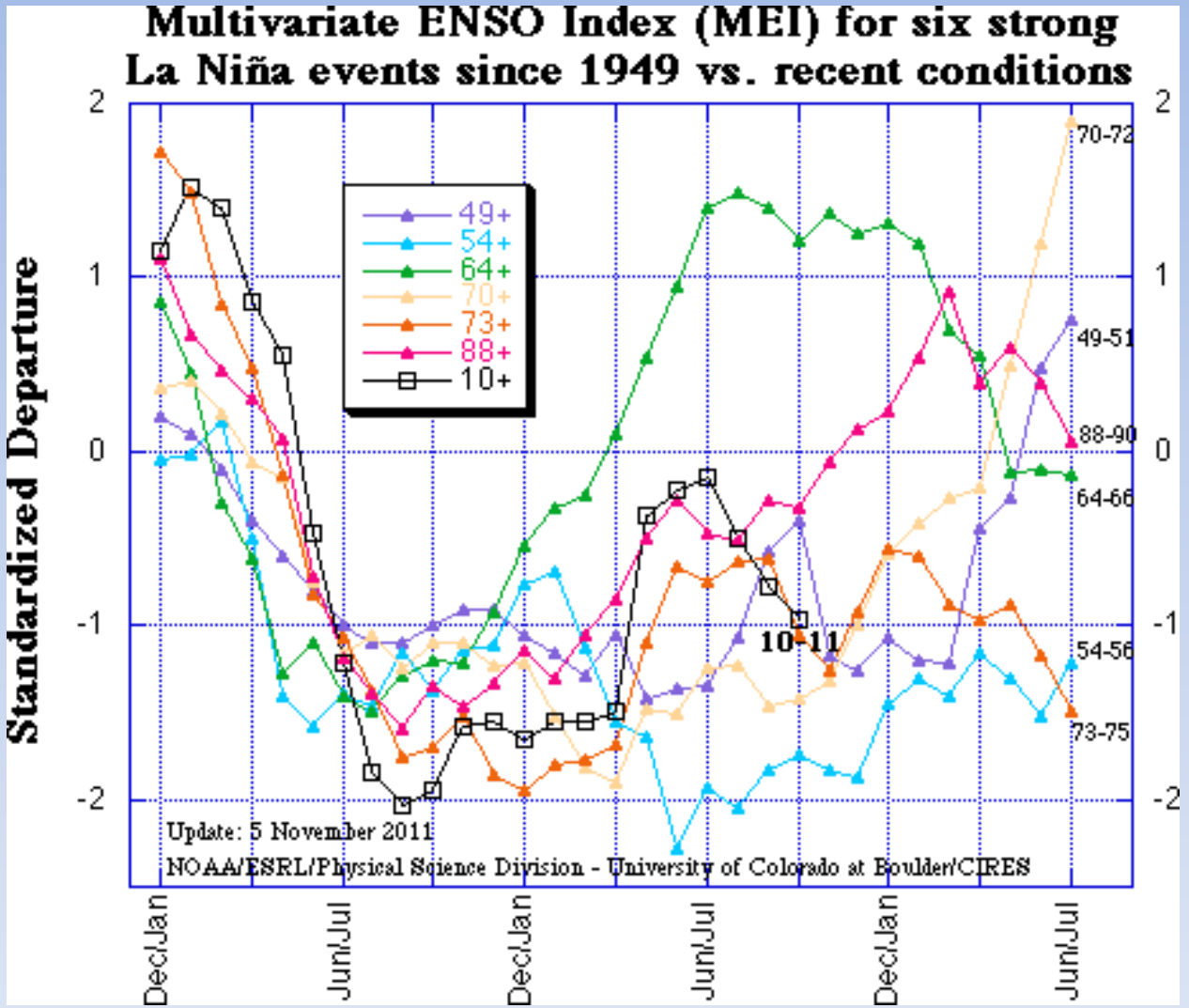
7-day average Pacific Ocean SST Anomalies





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

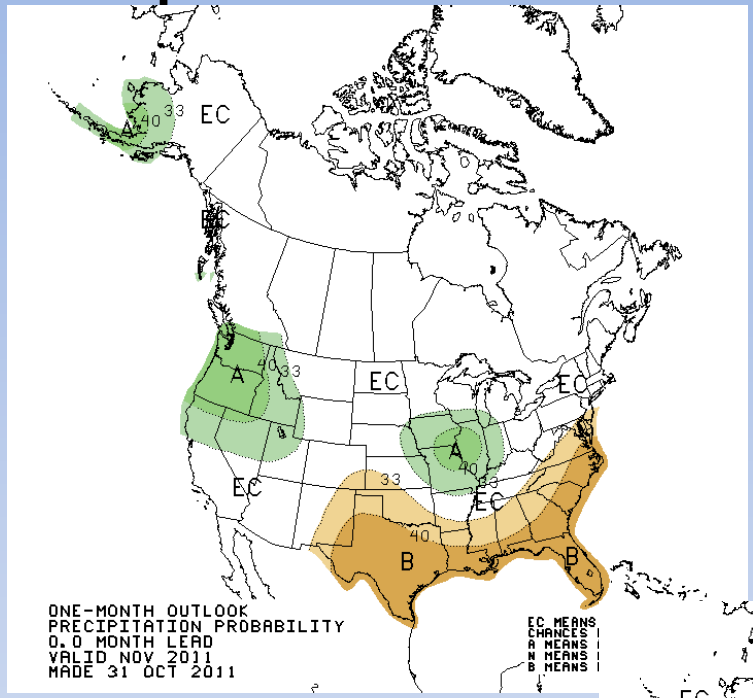
Multivariate ENSO Index: recent and six strong La Niña events



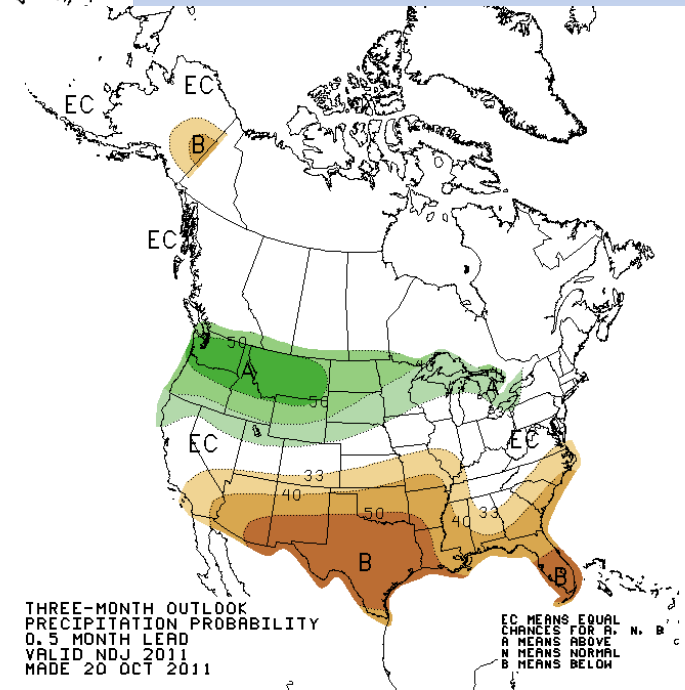
http://www.esrl.noaa.gov/psd/people/klaus.wolter/MEI/

Precipitation Outlook

1-month



3-month (NDJ)

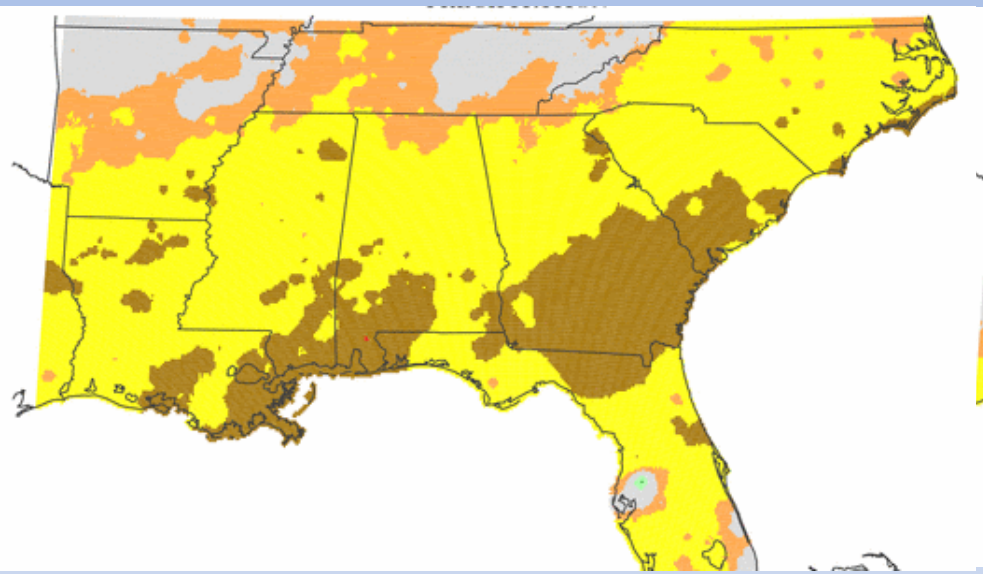


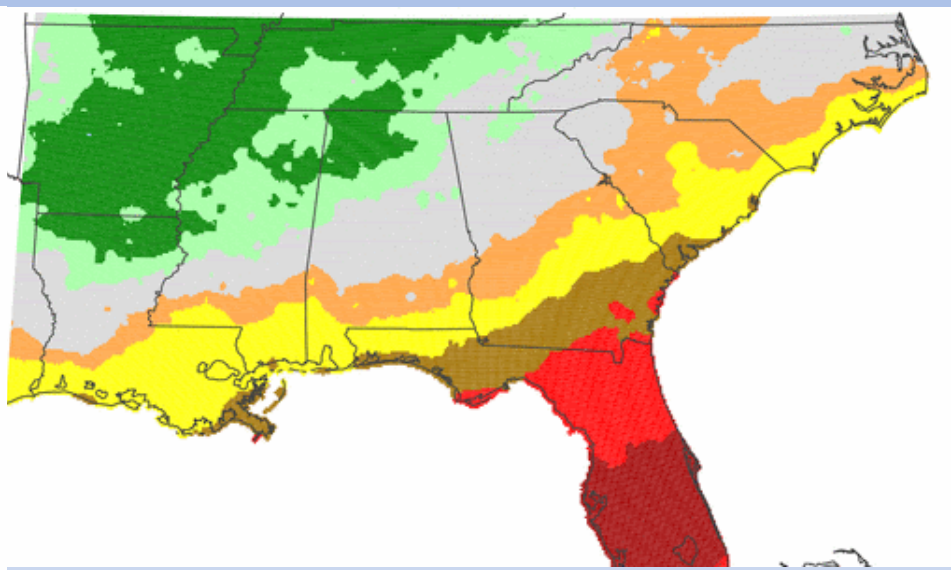
http://www.cpc.ncep.noaa.gov/products/predictions/30da

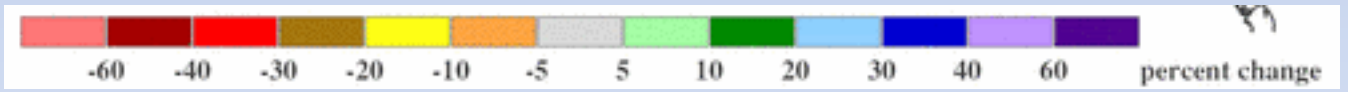
La Nina Composites

November

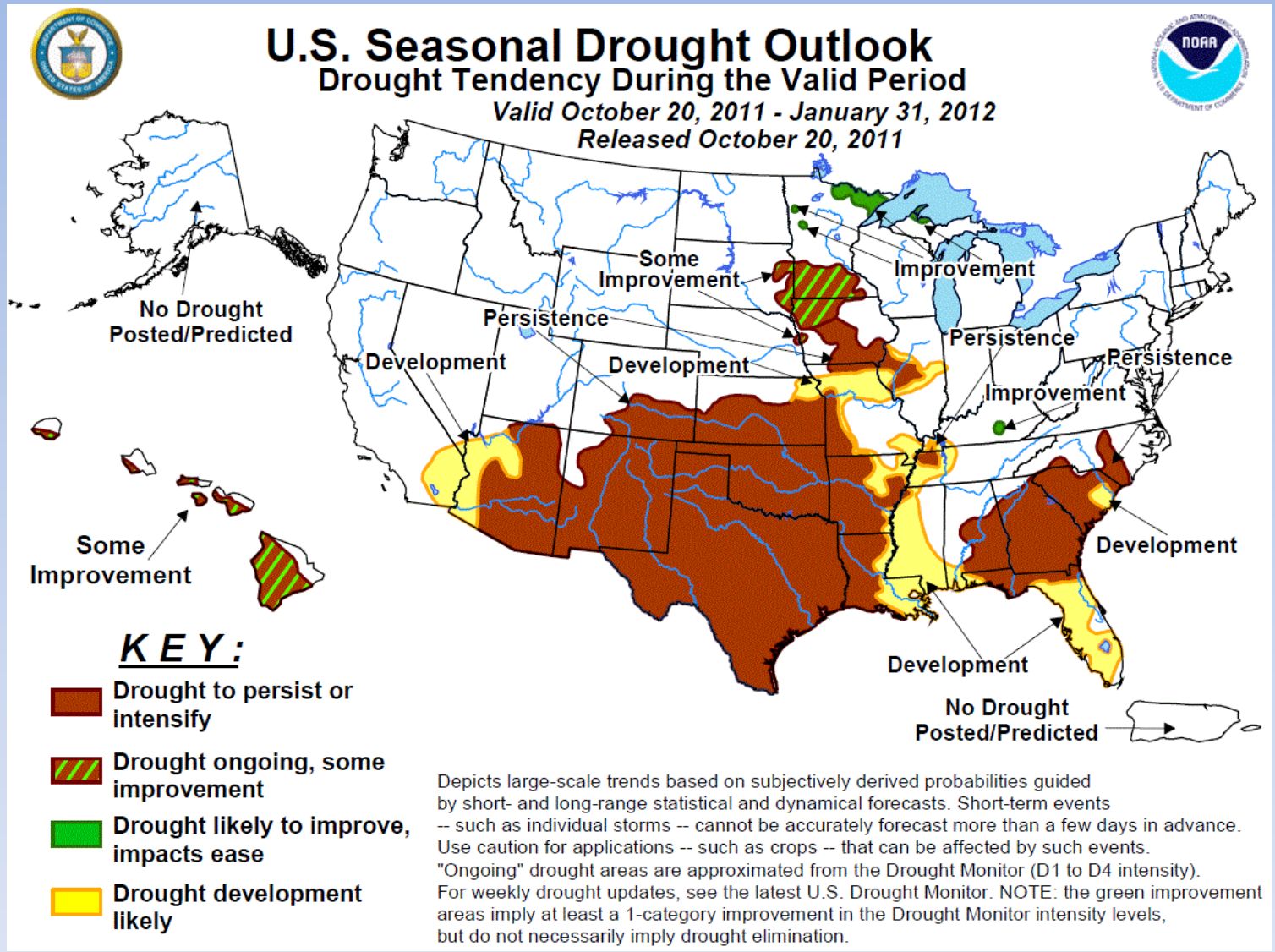
January

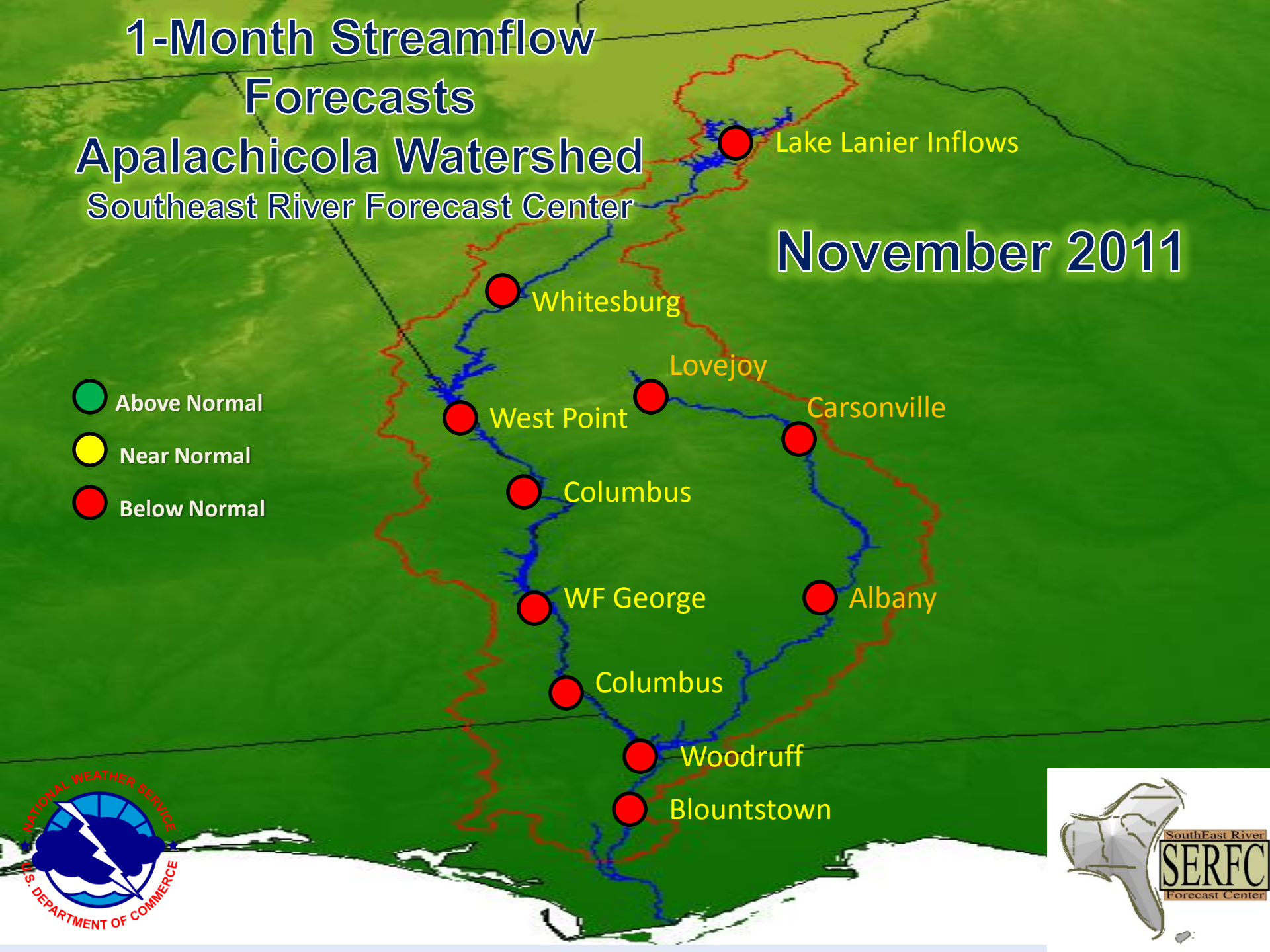






U.S. Drought Outlook

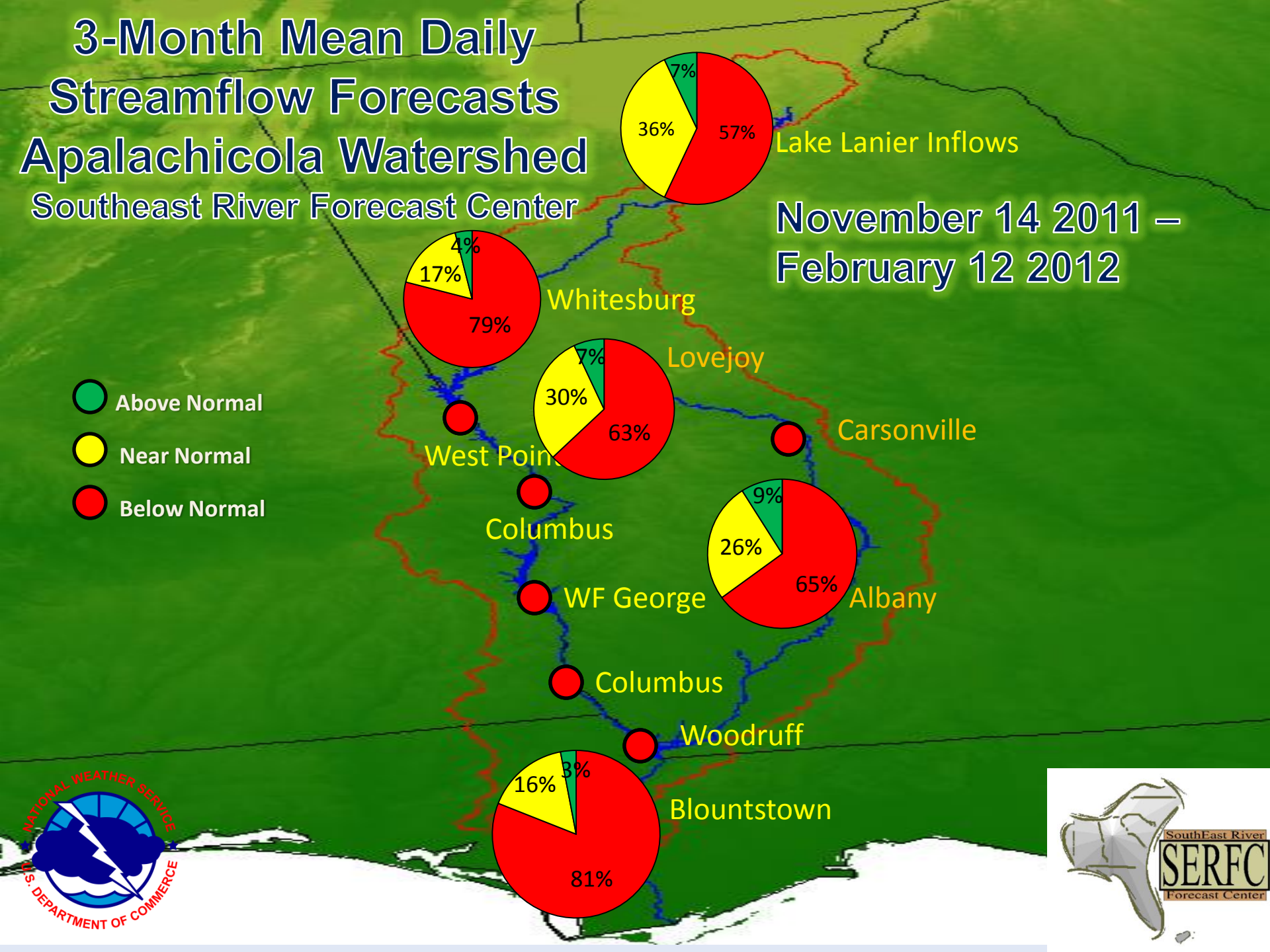



1-Month Streamflow Forecasts
Apalachicola Watershed
Southeast River Forecast Center
November 2011
Lake Lanier Inflows
Whitesburg
Lovejoy
West Point
Carsonville
Columbus
WF George
Albany
Columbus
Woodruff
Blountstown
Above Normal
Near Normal
Below Normal
NATIONAL WEATHER SERVICE
U.S. DEPARTMENT OF COMMERCE
SouthEast River
SERFC
Forecast Center

3-Month Mean Daily Streamflow Forecasts Apalachicola Watershed

Southeast River Forecast Center

November 14 2011 – February 12 2012



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