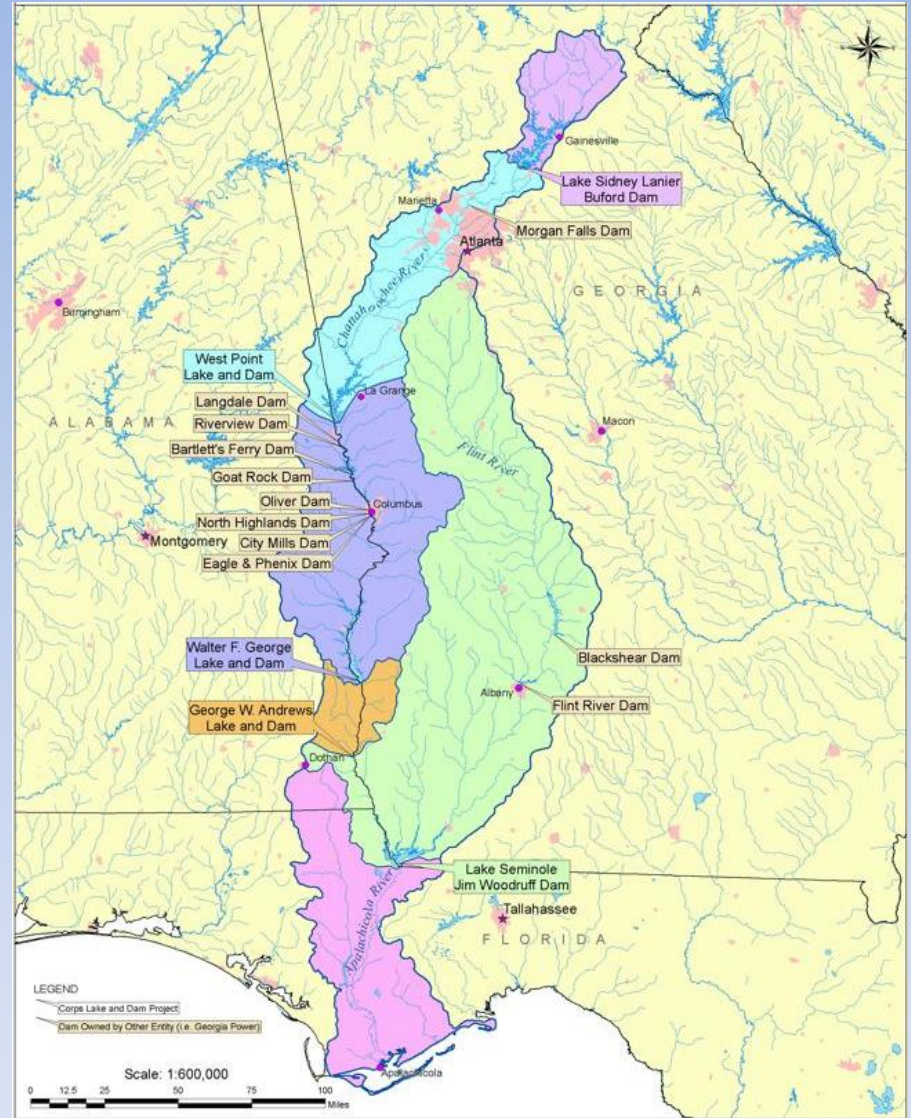
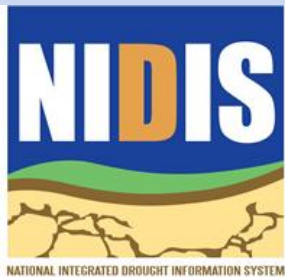


National Integrated Drought Information System

Southeast US Pilot for Apalachicola-Flint-Chattahoochee River Basin

17 January 2012



Current drought status from Drought Monitor

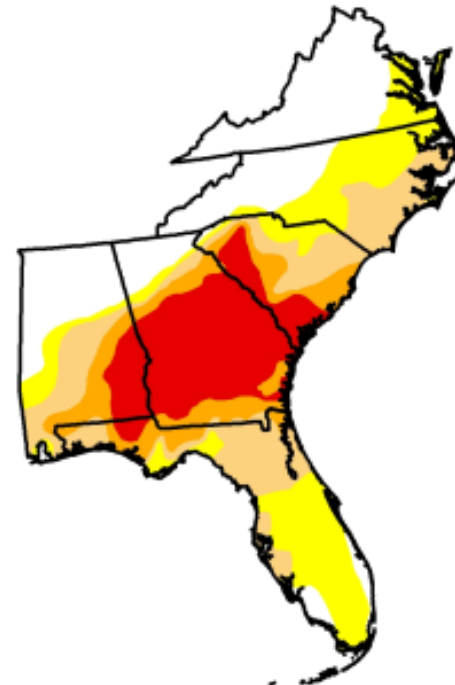
U.S. Drought Monitor Southeast

January 10, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	29.06	70.94	49.45	29.88	19.21	0.00
Last Week (01/03/2012 map)	33.81	66.19	45.62	28.62	18.71	0.00
3 Months Ago (10/11/2011 map)	41.95	58.05	43.40	32.59	23.08	0.00
Start of Calendar Year (12/27/2011 map)	40.38	59.62	43.05	28.62	18.71	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 (01/04/2011 map)	24.87	75.13	52.19	24.10	5.91	0.00



Intensity:



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



Released Thursday, January 12, 2012

<http://droughtmonitor.unl.edu>

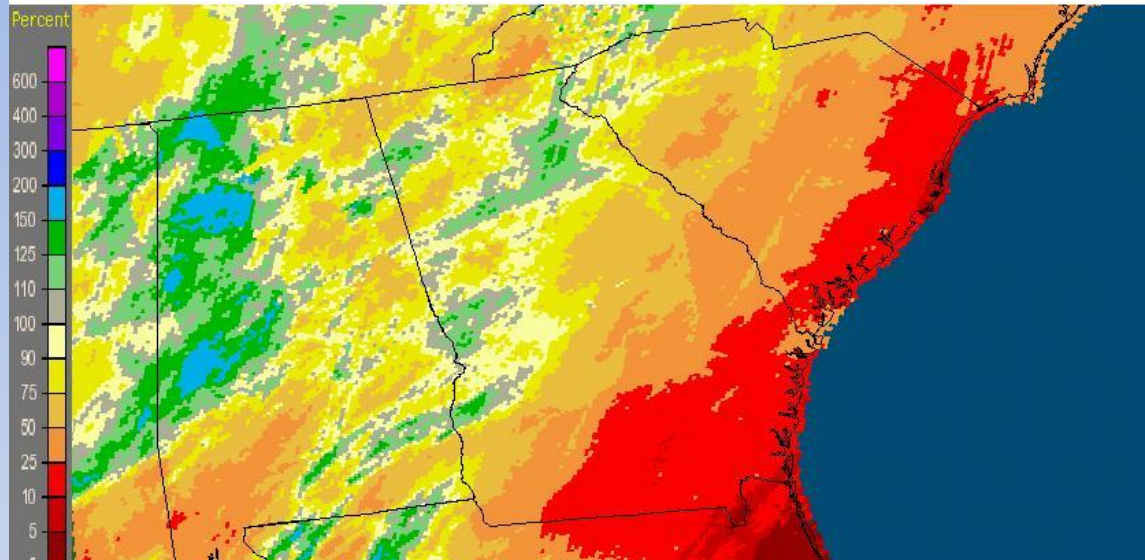
Laura Edwards, Western Regional Climate Center and South Dakota S

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

Cumulative Rainfall Deficits

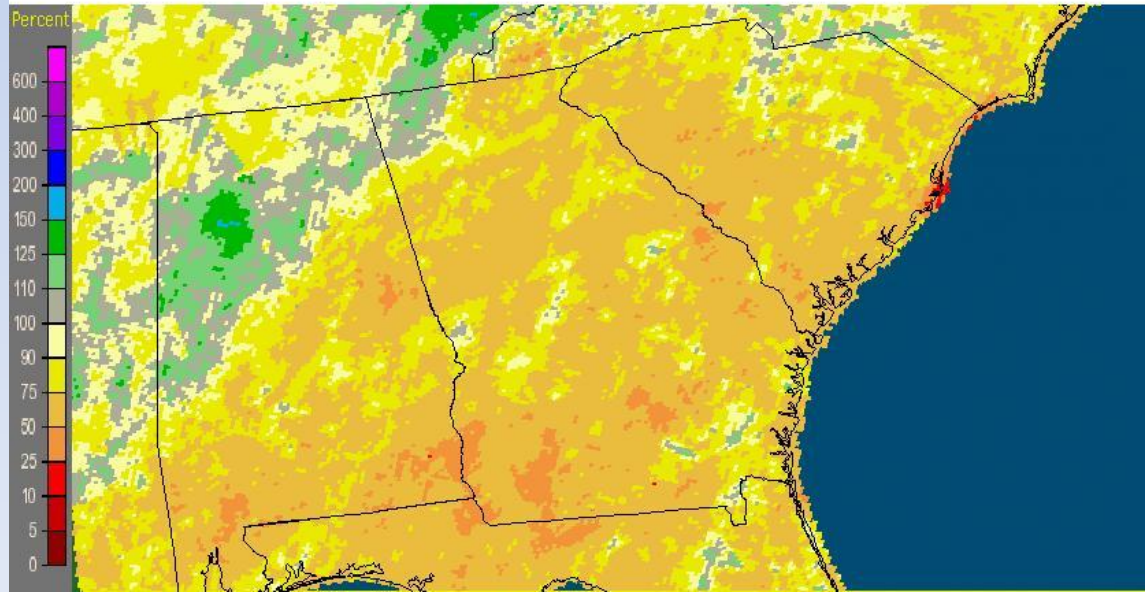
Past 30 days

Georgia: Current 30-Day Percent of Normal Precipitation
Valid at 1/17/2012 1200 UTC- Created 1/17/12 14:07 UTC



Past 180 days

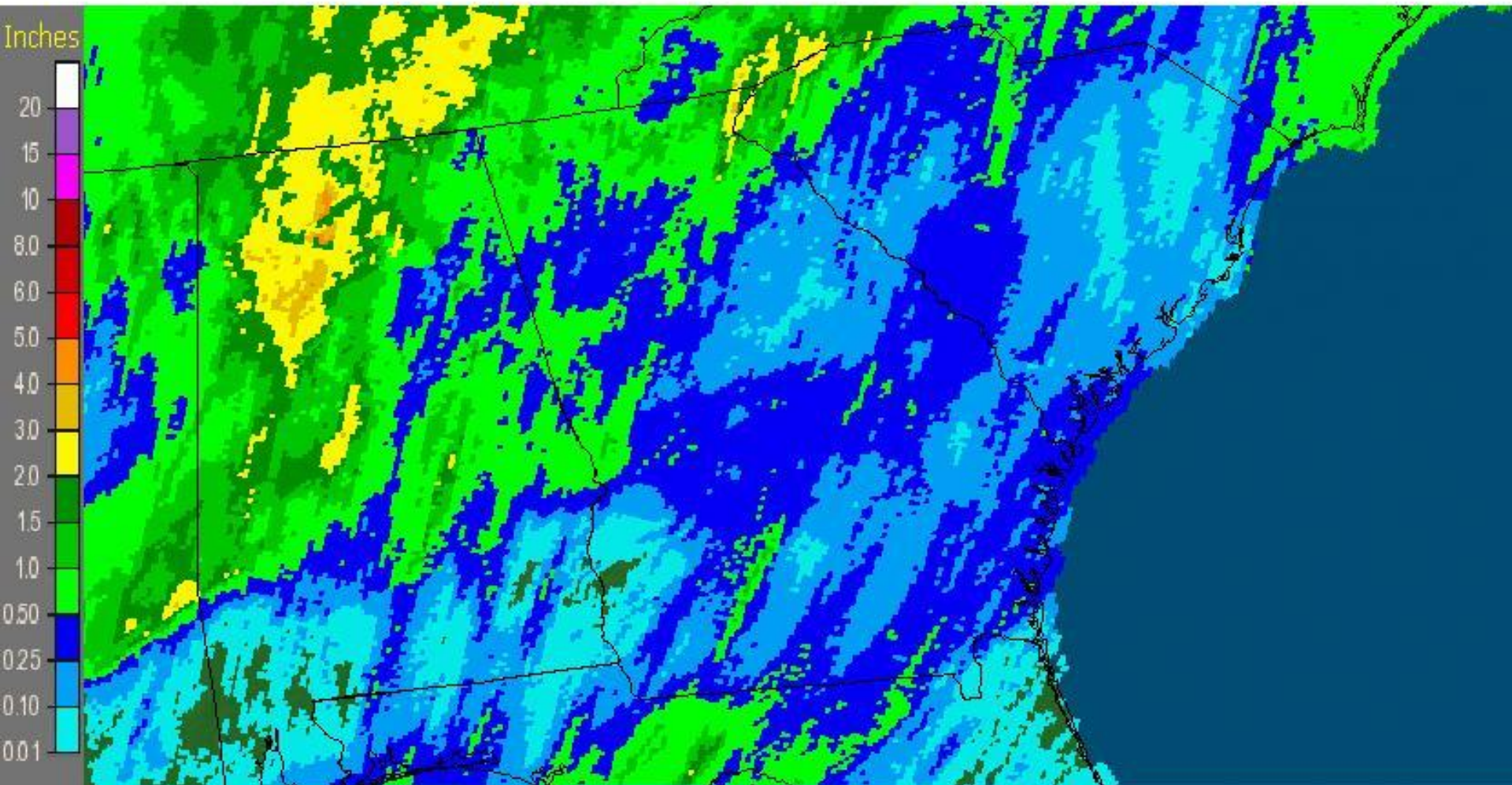
Georgia: Current 180-Day Percent of Normal Precipitation
Valid at 1/17/2012 1200 UTC- Created 1/17/12 14:21 UTC



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

7-day Rainfall Totals

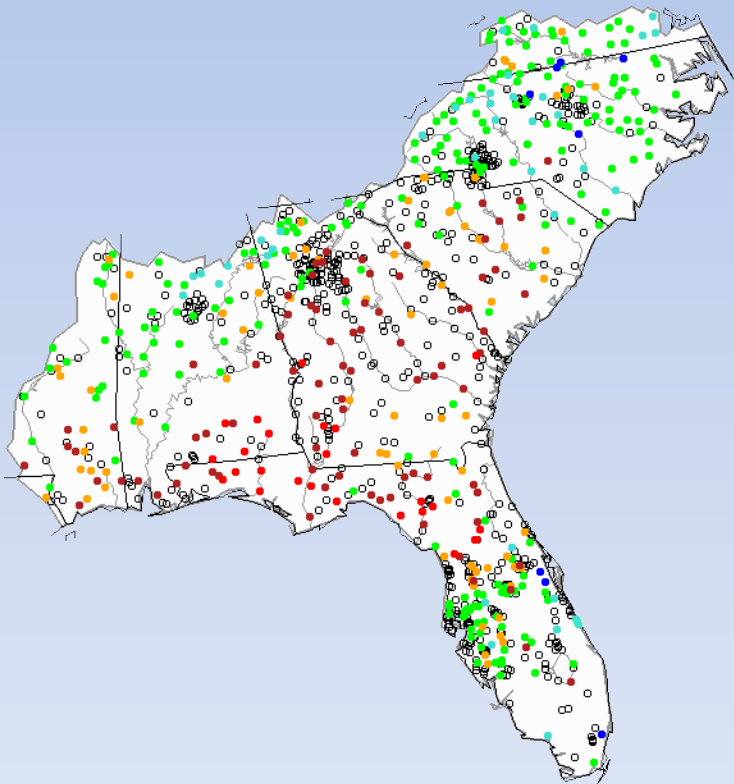
Georgia: Current 7-Day Observed Precipitation
Valid at 1/17/2012 1200 UTC- Created 1/17/12 15:55 UTC



Realtime stream flow compared with historical monthly averages

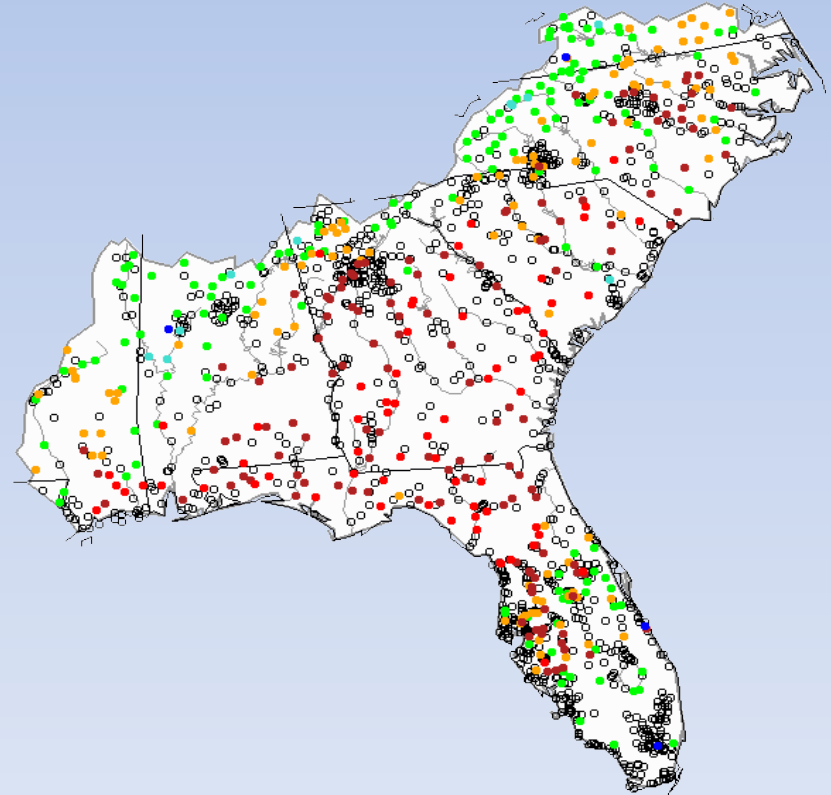
Previous Month:

Sunday, December 04, 2011



Current:

Tuesday, January 17, 2012 07:30ET



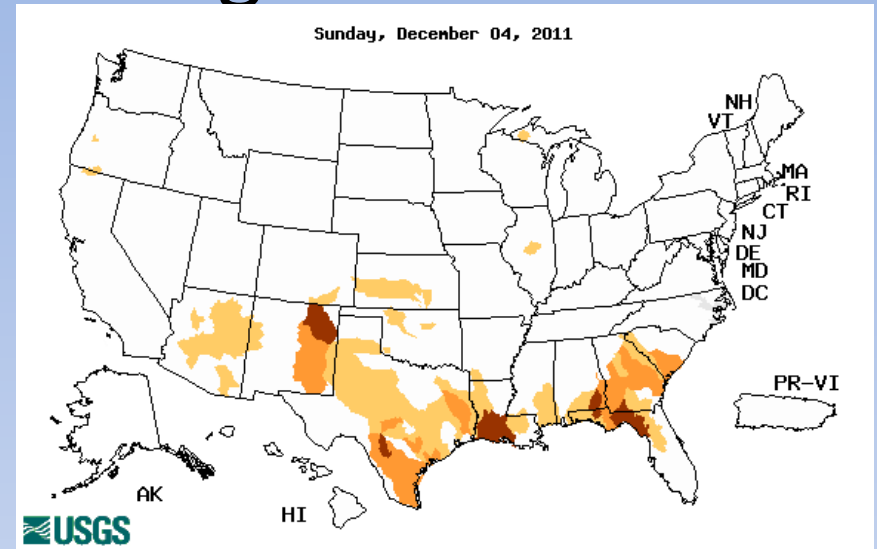
Below Normal 7-day Average Streamflows

Previous month:

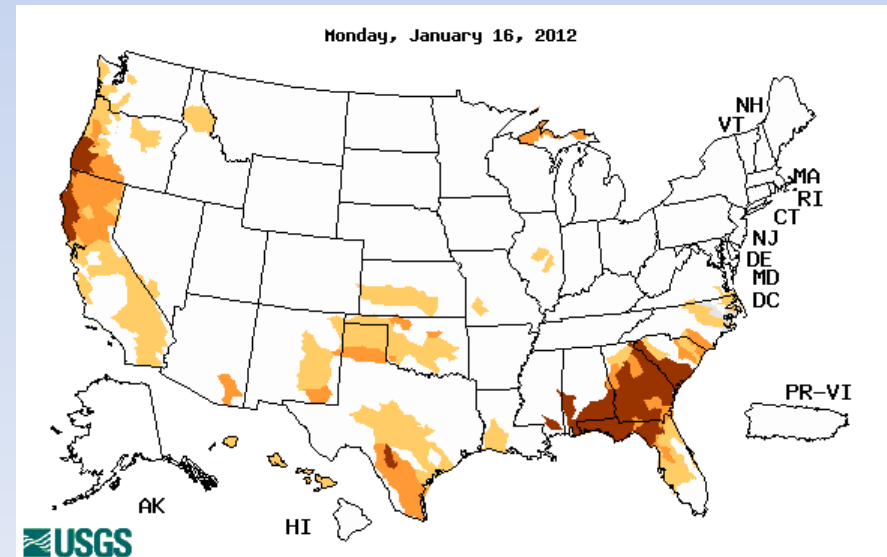
Below normal 7-day average streamflow as compared with historical streamflow for day shown

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	



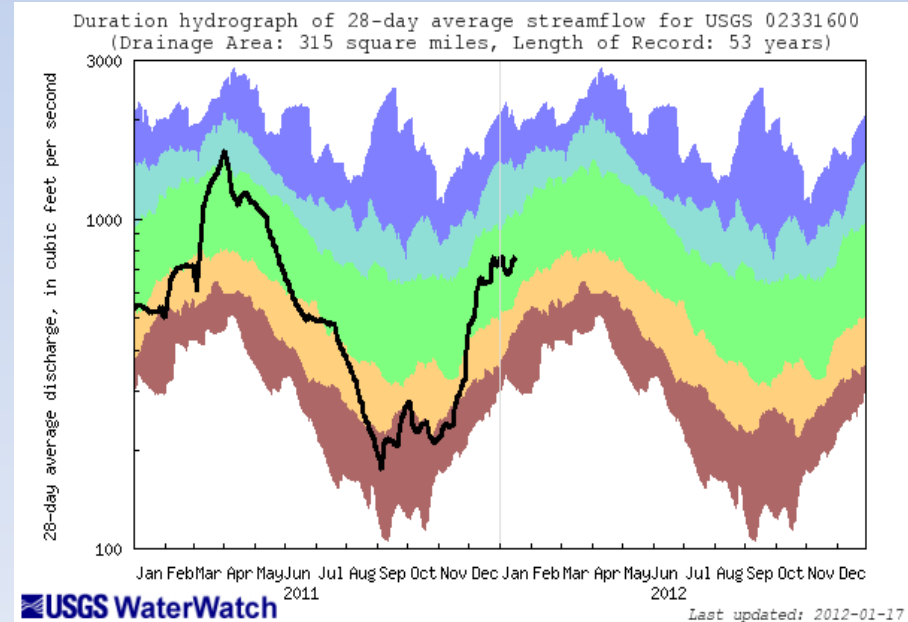
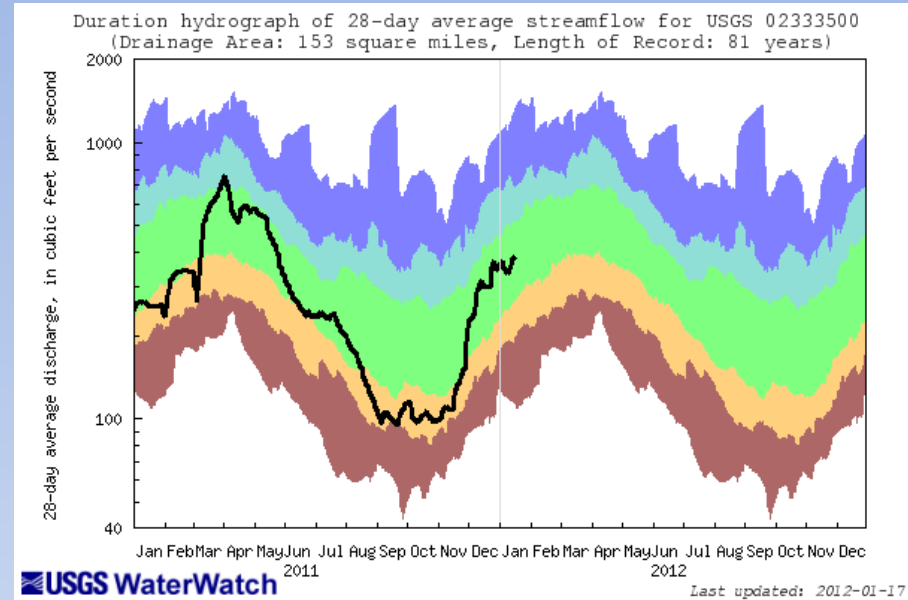
Lake Lanier Inflows

Chestatee near
Dahlonega
(02333500)

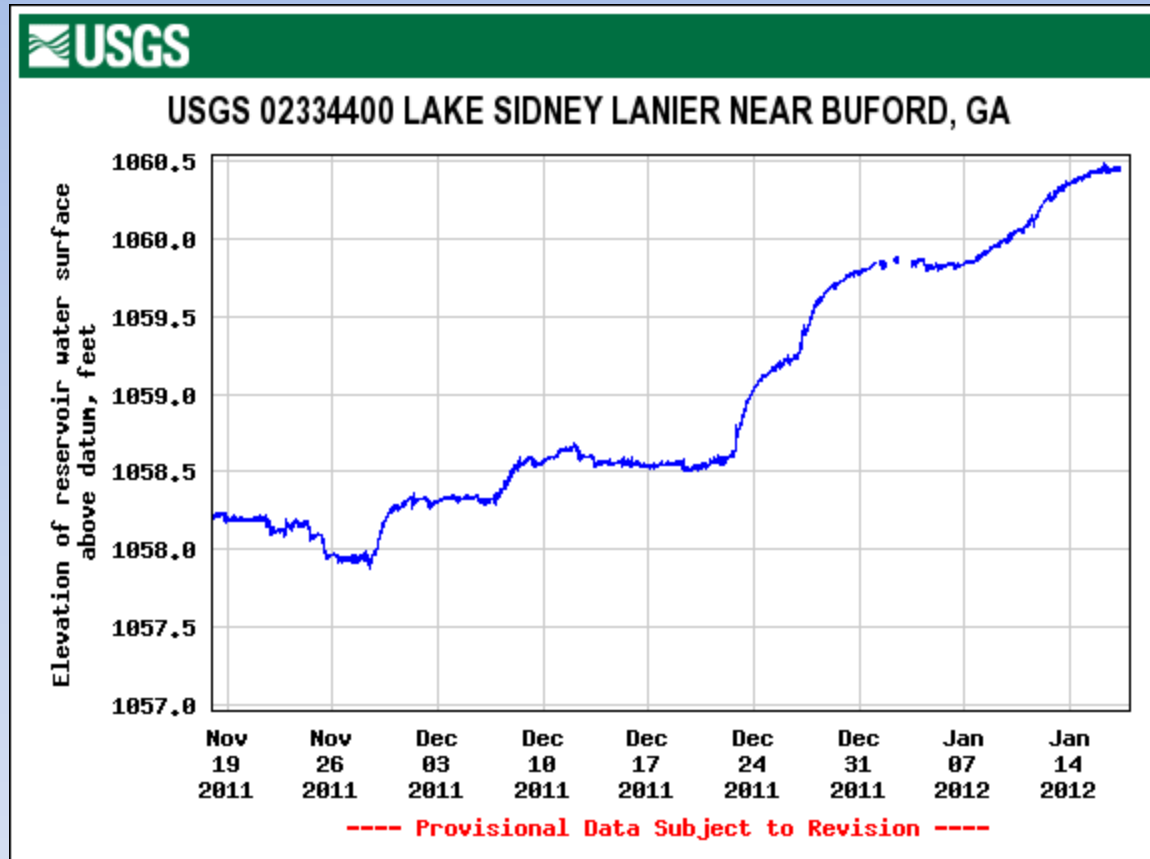
<http://waterwatch.usgs.gov>

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	



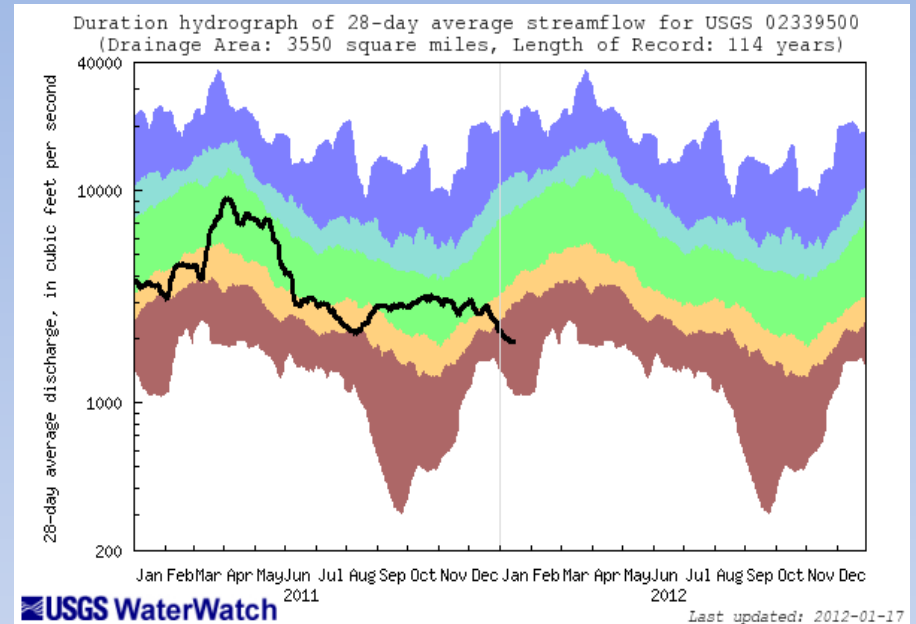
Lake Lanier Levels (02334400) for Previous 60 Days



Current Streamflows

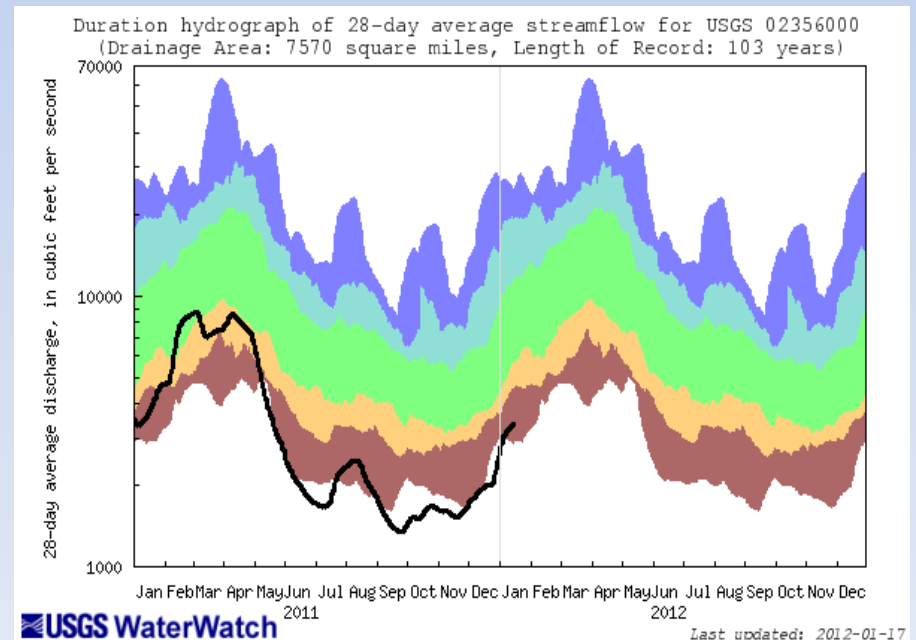
Chattahoochee at West Point (02339500)

<http://waterwatch.usgs.gov>



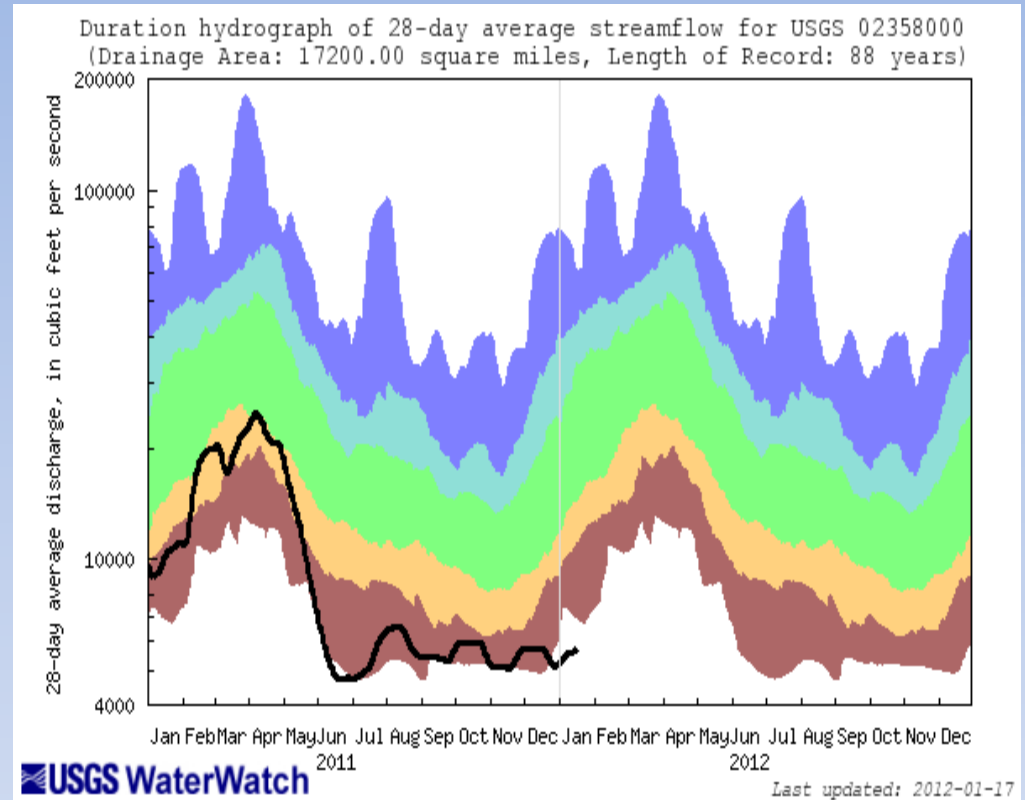
Flint at Bainbridge (02356000)

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



Streamflows

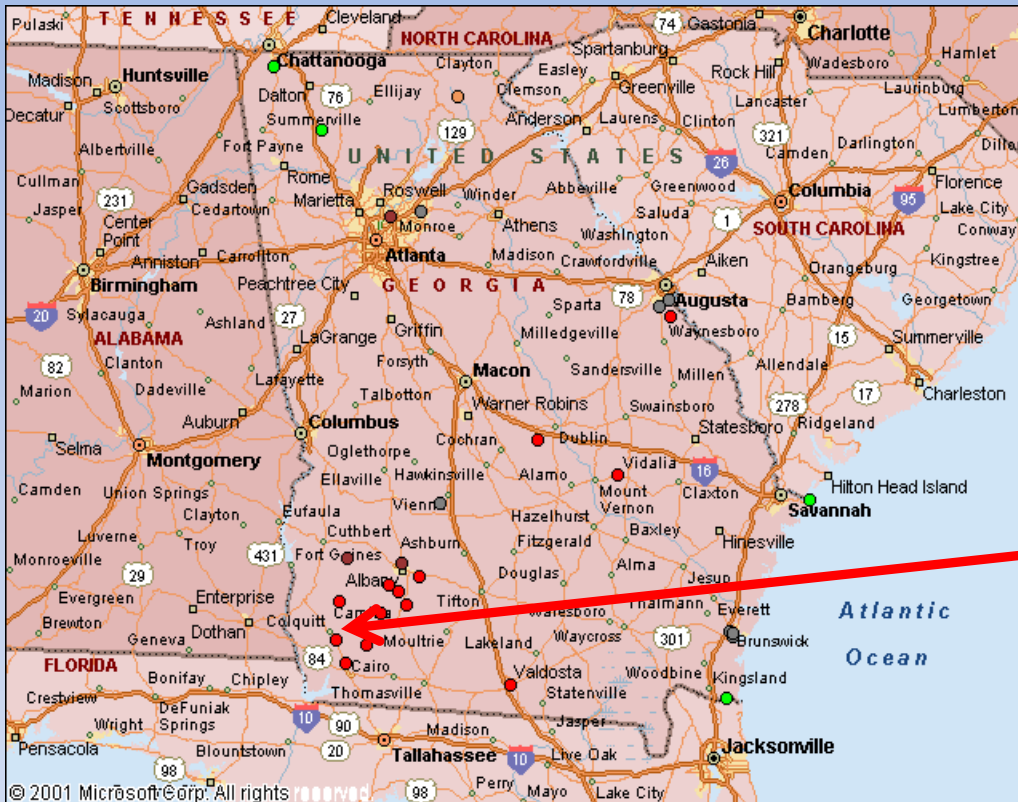
Apalachicola at
Chattahoochee
(02358000)



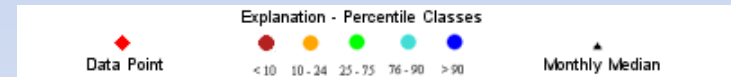
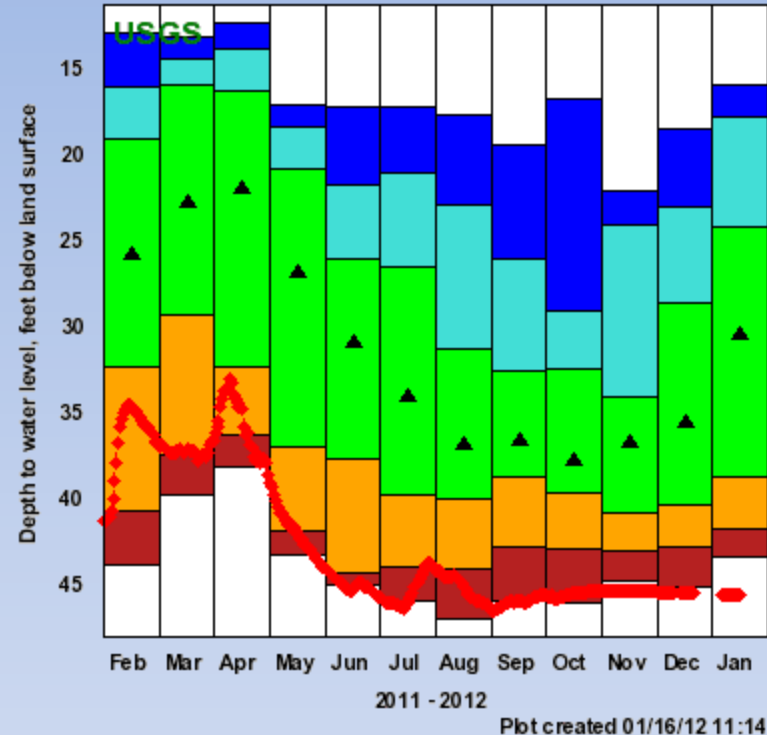
<http://waterwatch.usgs.gov>

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



310651084404 501 - 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>

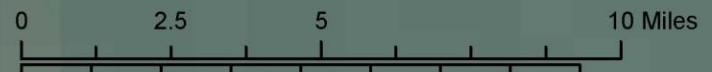
Apalachicola National Estuarine Research Reserve

East Bay

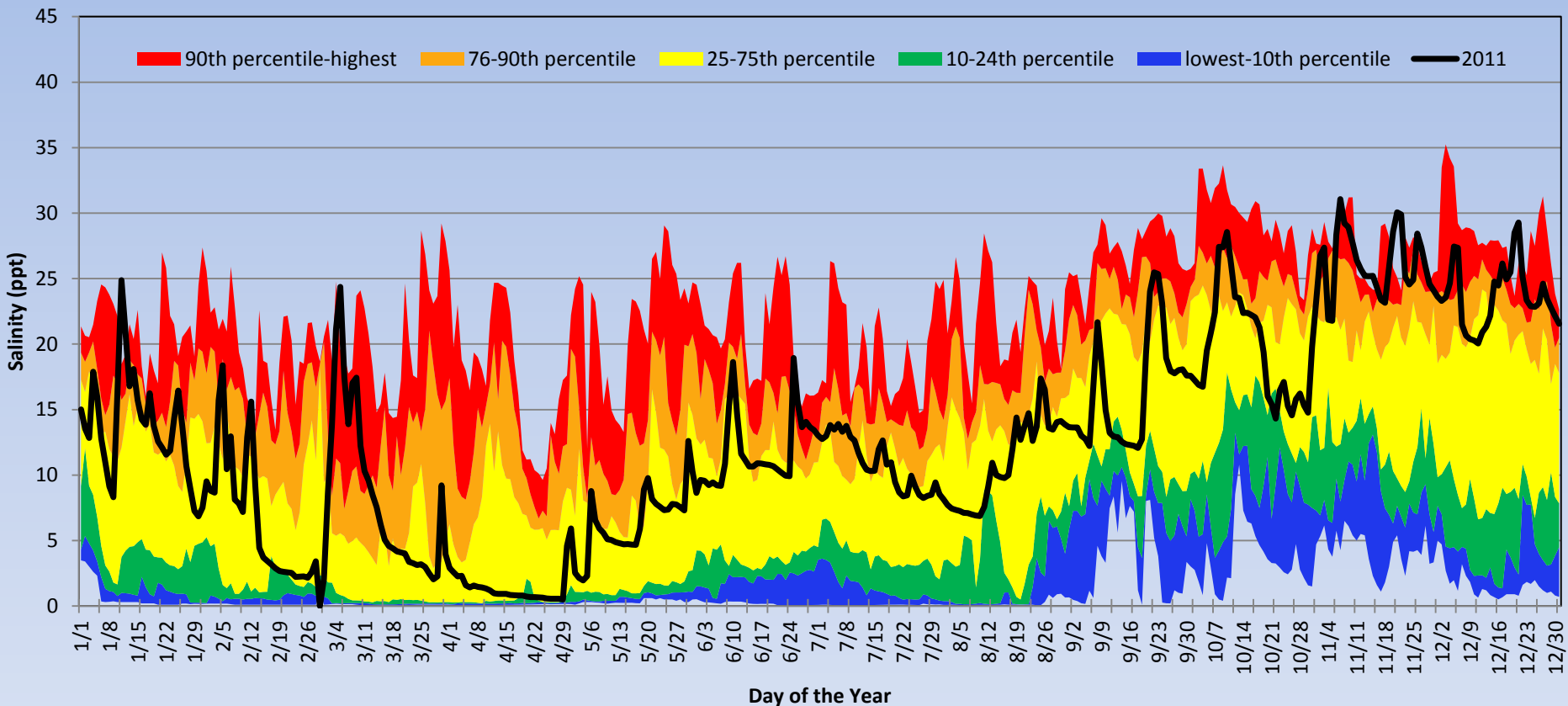
Cat Point

Dry Bar

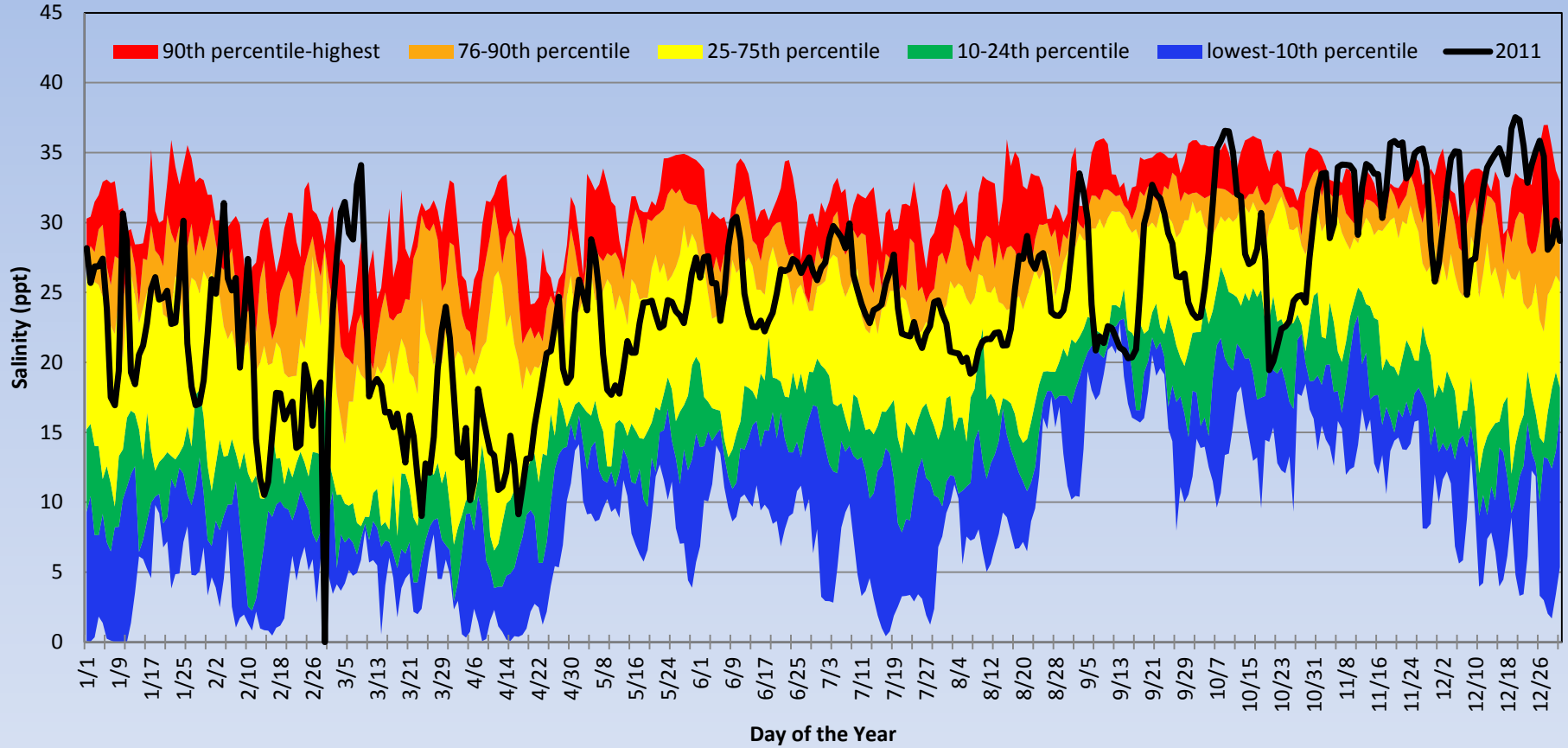
-  Trawling
-  Oysters
-  Sea Turtles
-  Shore Birds
-  Water Quality
-  Erosion
-  Nutrients
-  Weather Station



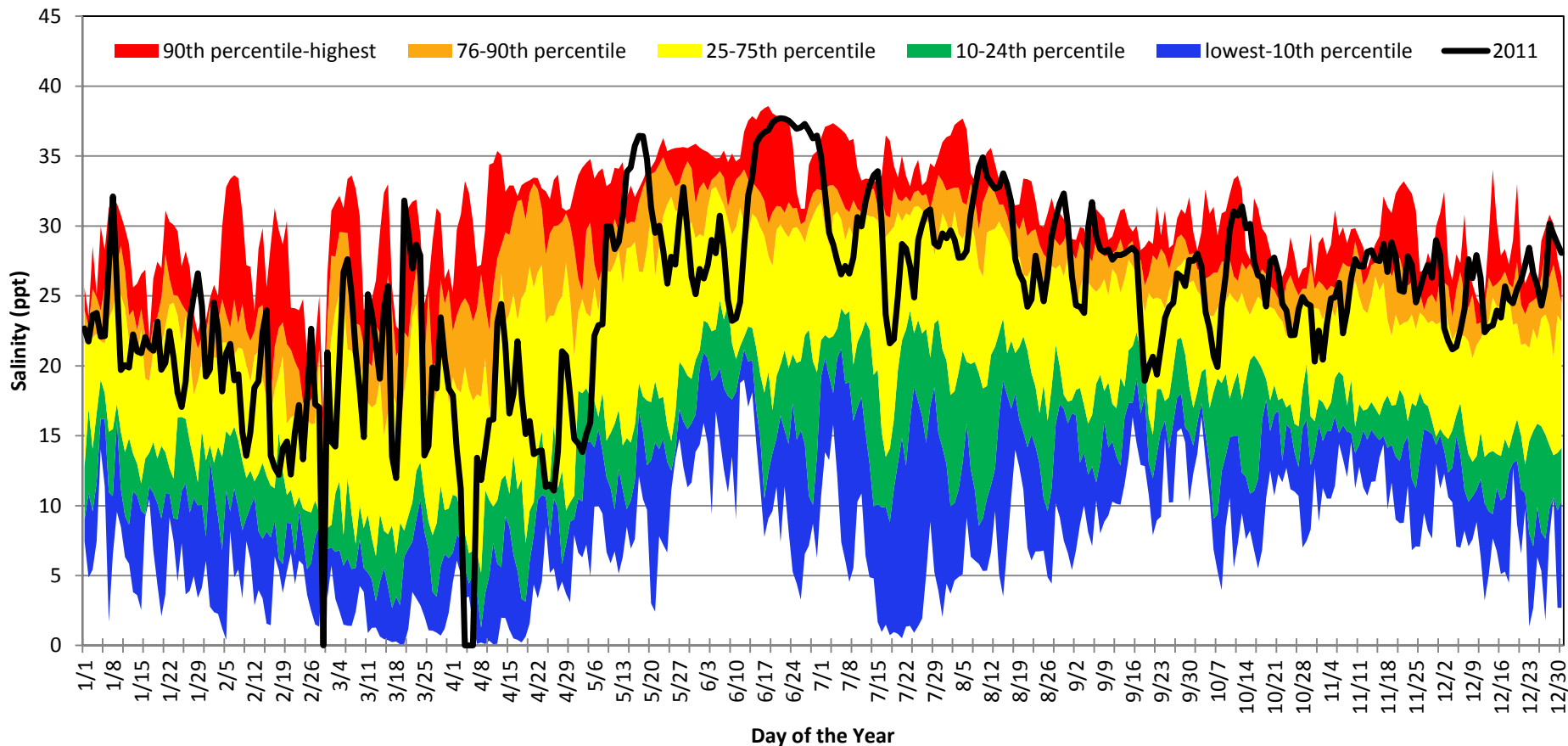
Daily Salinity at East Bay Bottom



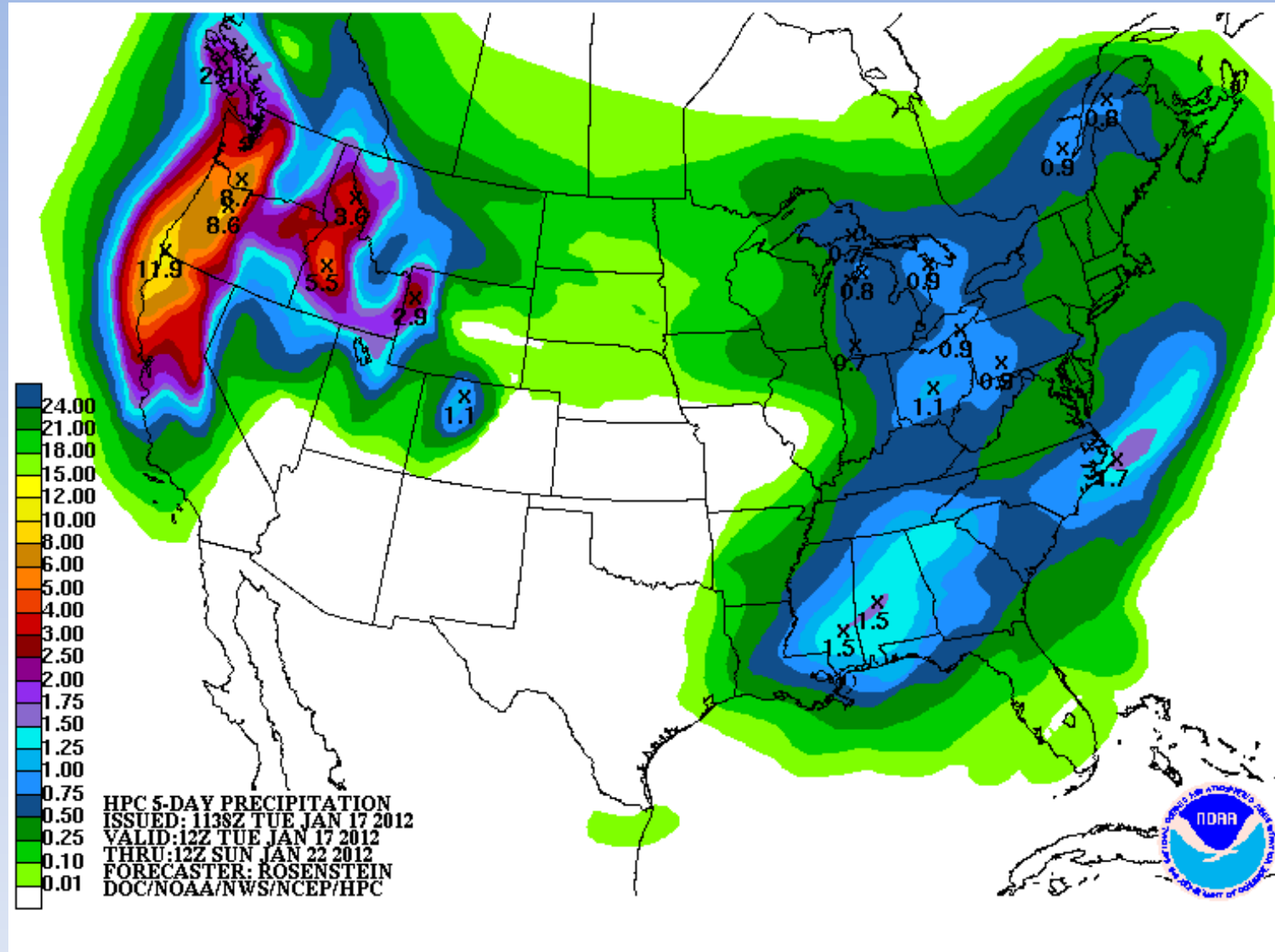
Daily Salinity at Cat Point



Daily Salinity at Dry Bar



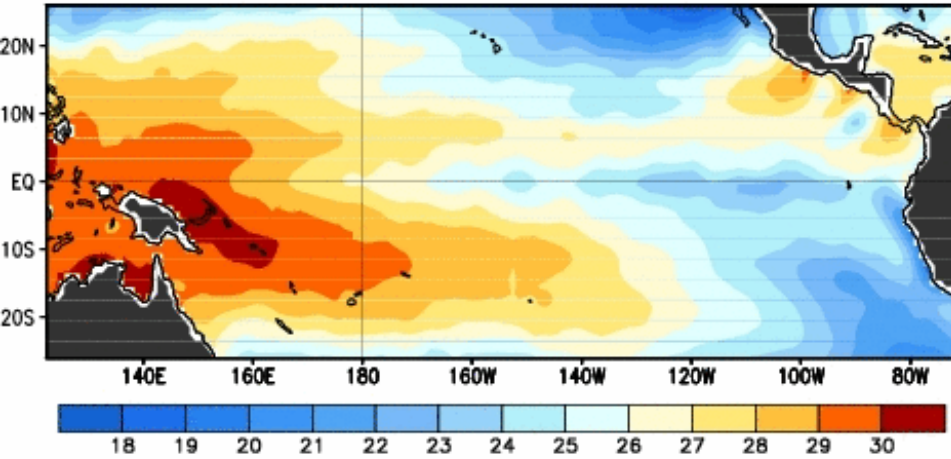
5-Day Precipitation Forecast



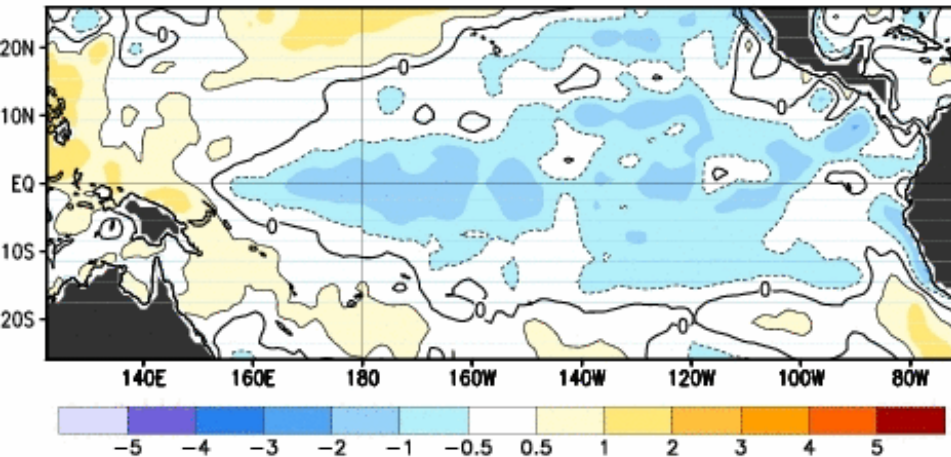
<http://www.hpc.ncep.noaa.gov/qpf/day1-5.shtml>

7-day average Pacific Ocean SST Anomalies

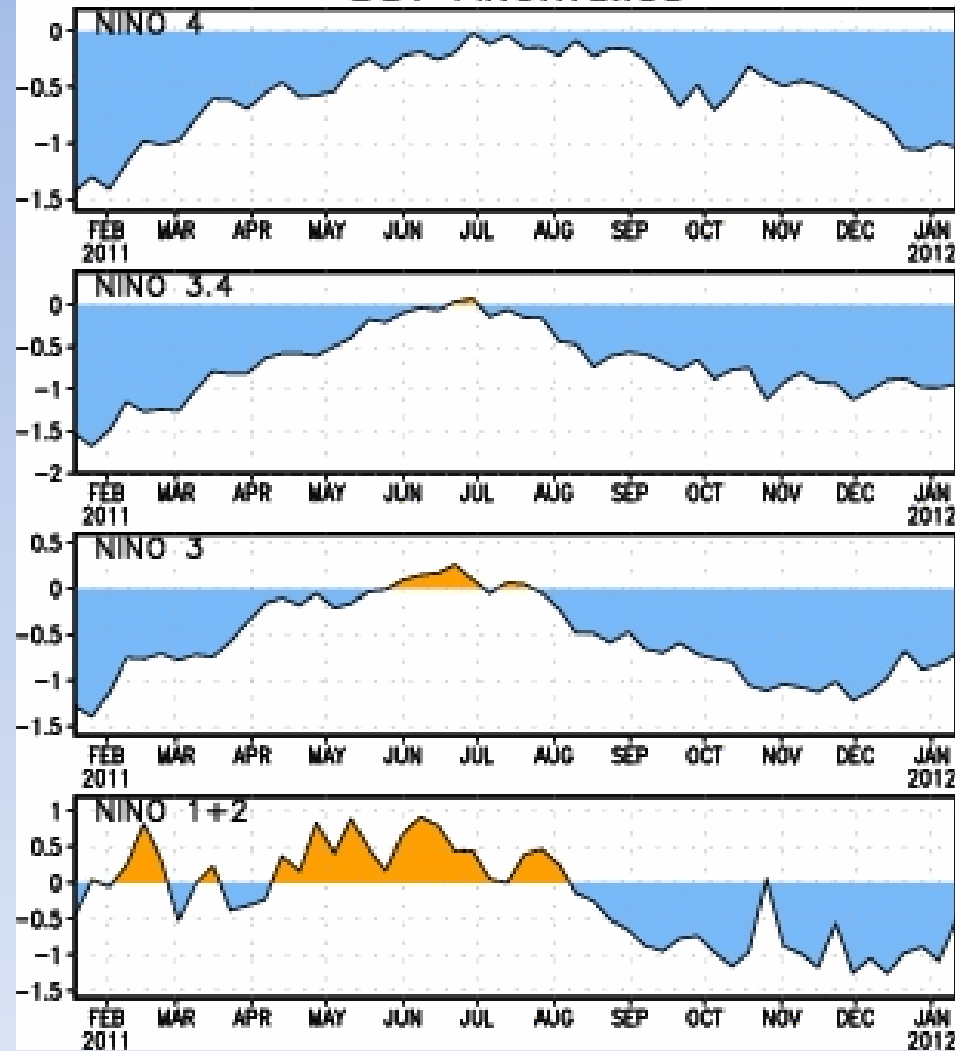
Observed Sea Surface Temperature (°C)



Observed Sea Surface Temperature Anomalies (°C)



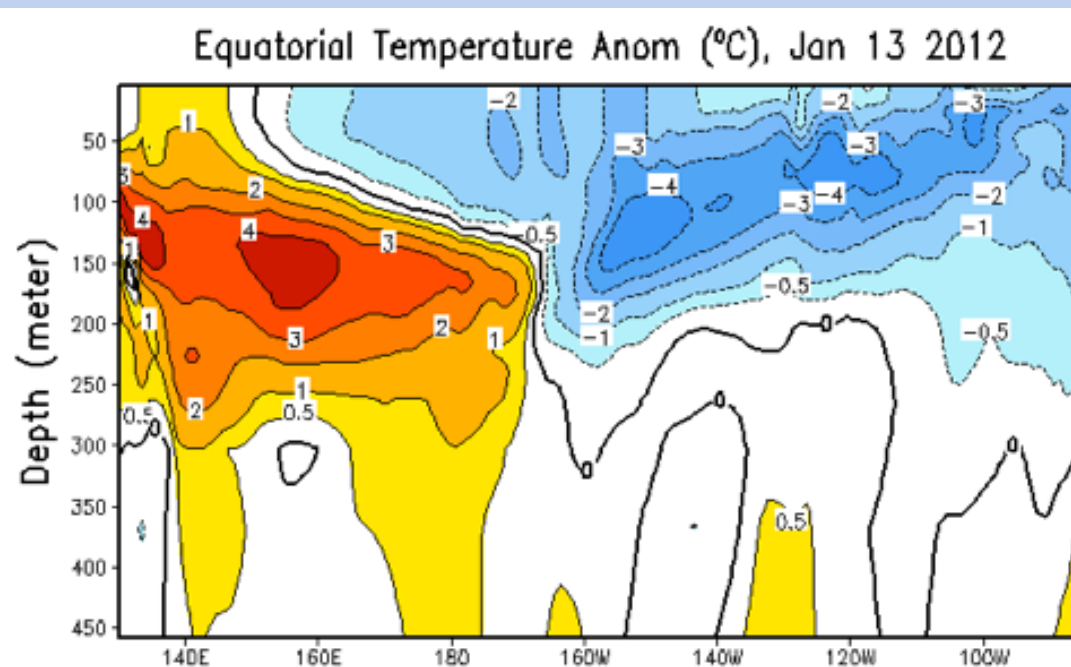
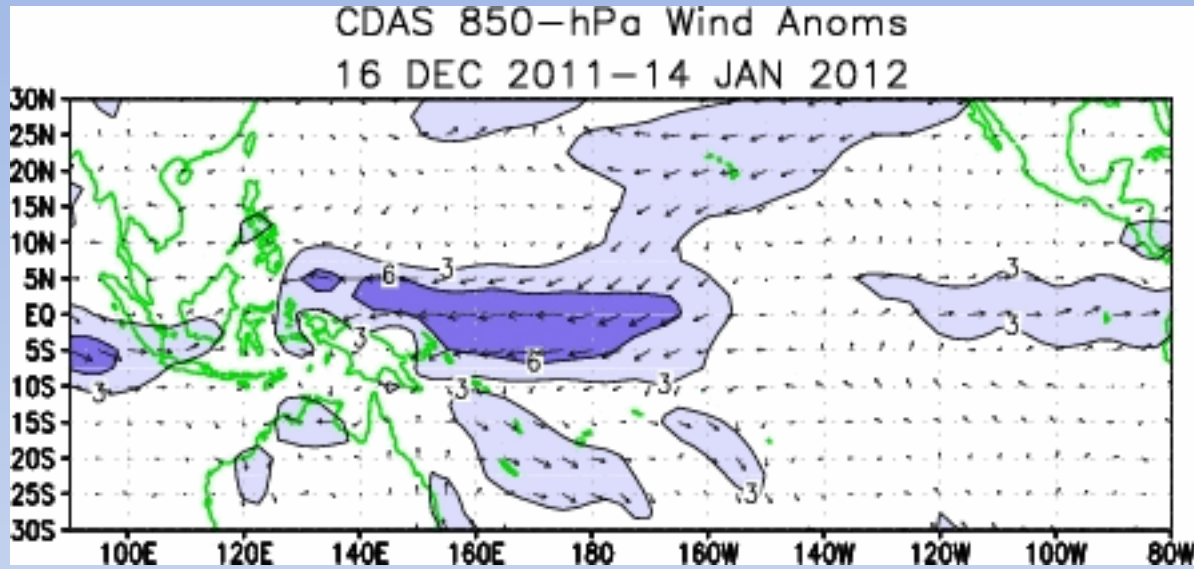
SST Anomalies



7-day Average Centered on 11 January 2012

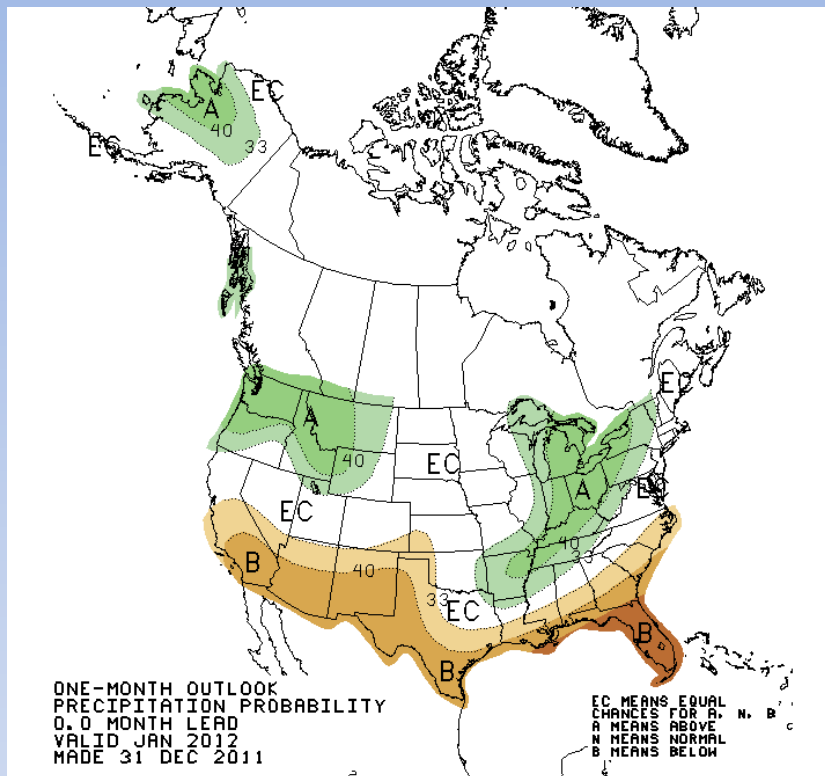
<http://www.cpc.ncep.noaa.gov/products/precip/CWlink/MJO/enso.shtml>

850 Mb winds and subsurface temperatures

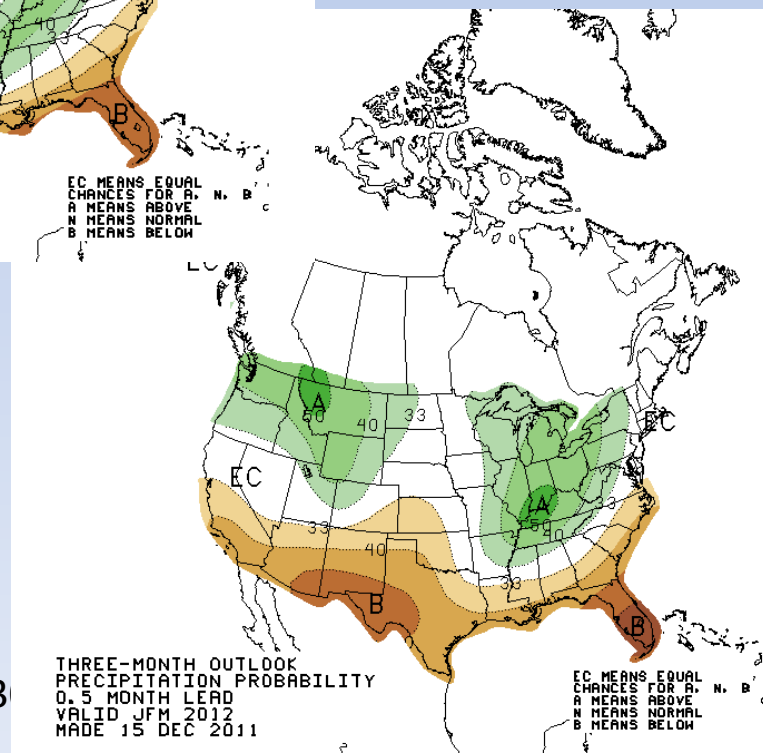


Precipitation Outlook

1-month



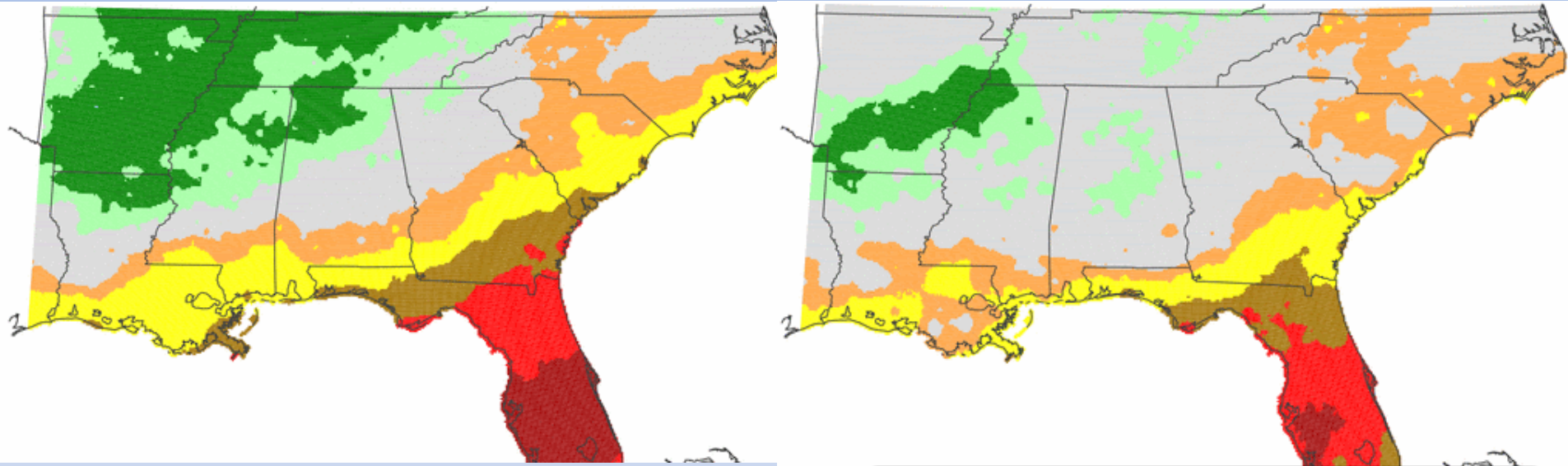
3-month (JFM)



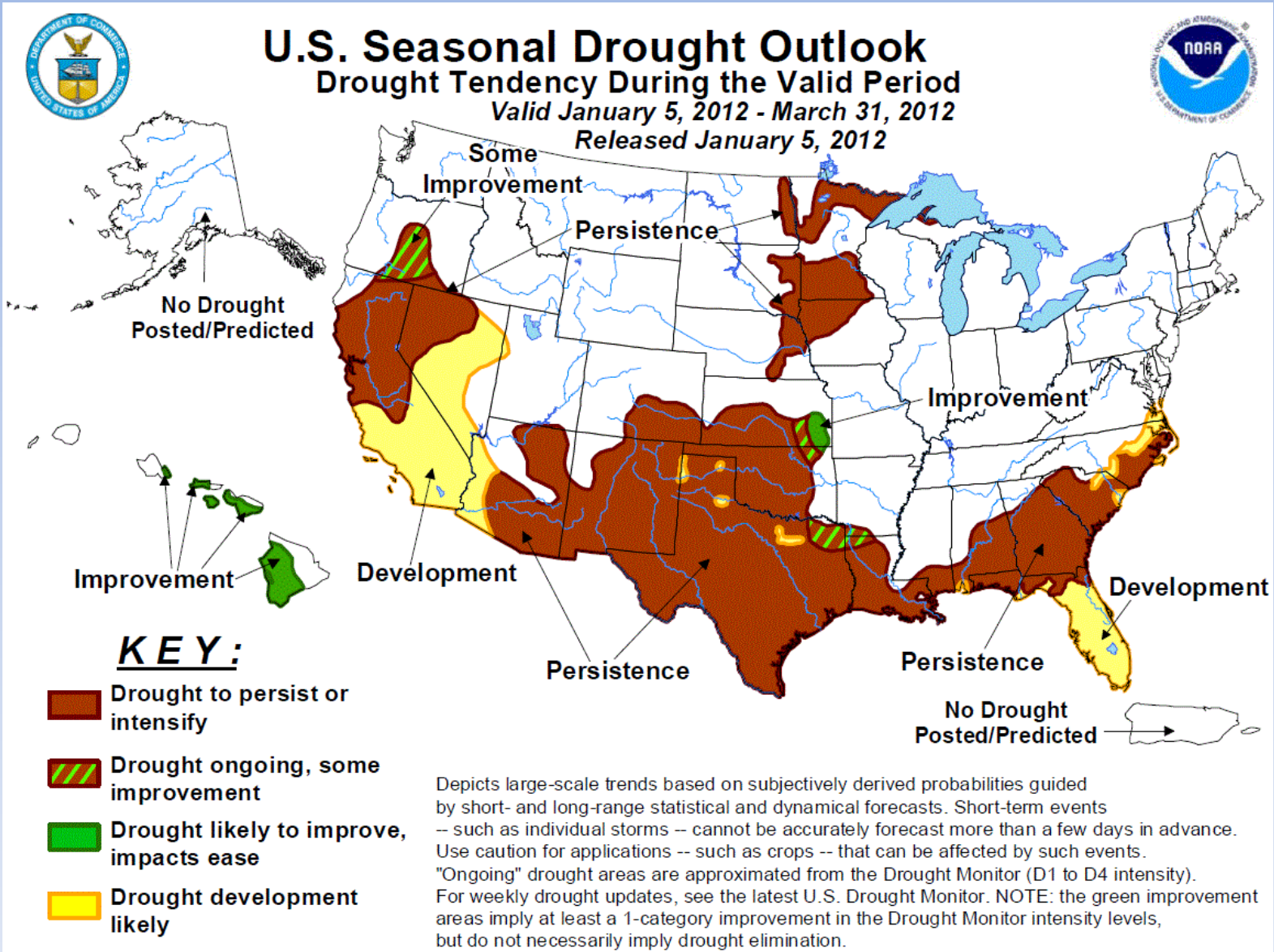
La Nina Composites

January

March



U.S. Drought Outlook



1-Month Streamflow

Forecasts

Apalachicola Watershed

Southeast River Forecast Center

January 16 2012 –
February 16 2012

-  Above Normal
-  Near Normal
-  Below Normal

 Lake Lanier Inflows

 Whitesburg

Lovejoy

 West Point

 Carsonville

 Columbus

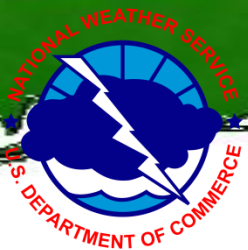
 WF George

 Albany

 Columbus

 Woodruff

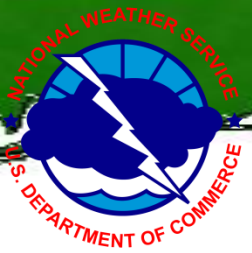
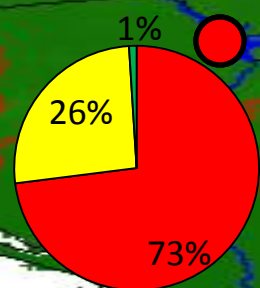
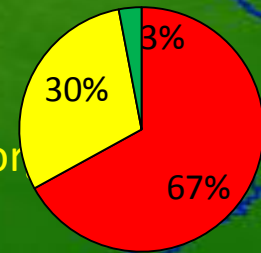
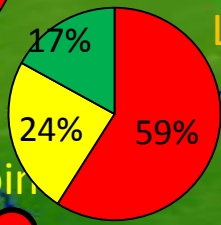
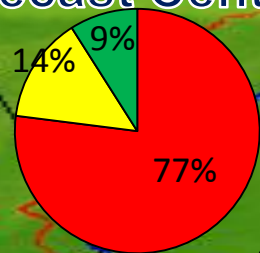
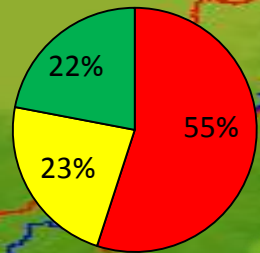
 Blountstown



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

January 16 2012 –
April 16 2012

-  Above Normal
-  Near Normal
-  Below Normal



Summary

- Drought continues through much of the basin
- Streamflows in the northern part of the basin are near normal, but remain very low in the southern part of the basin
- Ground water levels remain at historic lows in the southern part of the basin
- Salinity levels in Apalachicola Bay are very high
- While there is some rain forecast, projections are for continued drought and below normal streamflows

References

Speakers

David Zierden, FSU

Christopher Smith,
USGS

Jennifer Wanat, FDEP

Jeffry Dobur, SERFC

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>

Calendar of Briefings

7 February

28 February

20 March