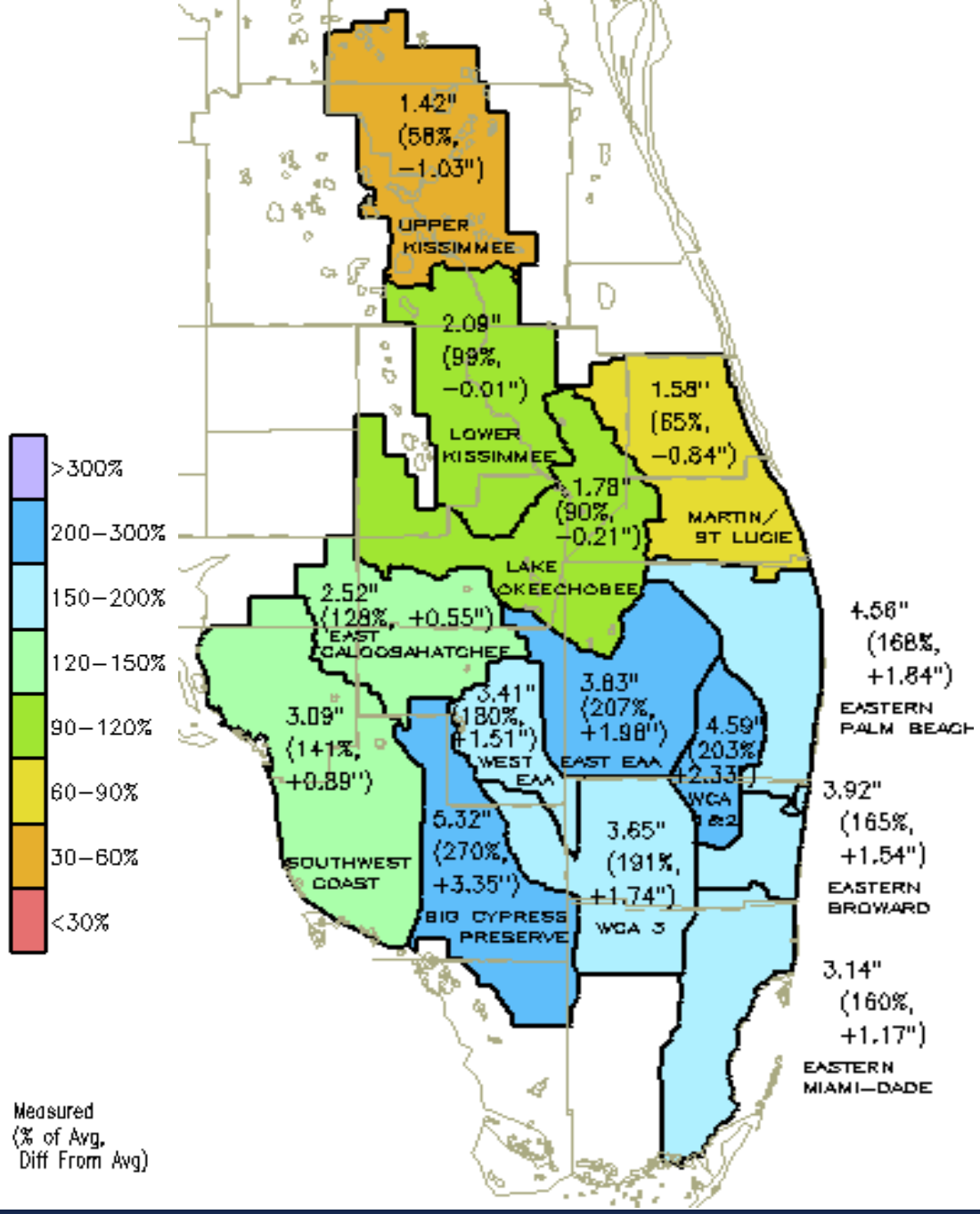
Water Conditions Summary

Governing Board Meeting
March 13, 2008

Susan Sylvester, Director
Operations Control and Vegetation Management Department



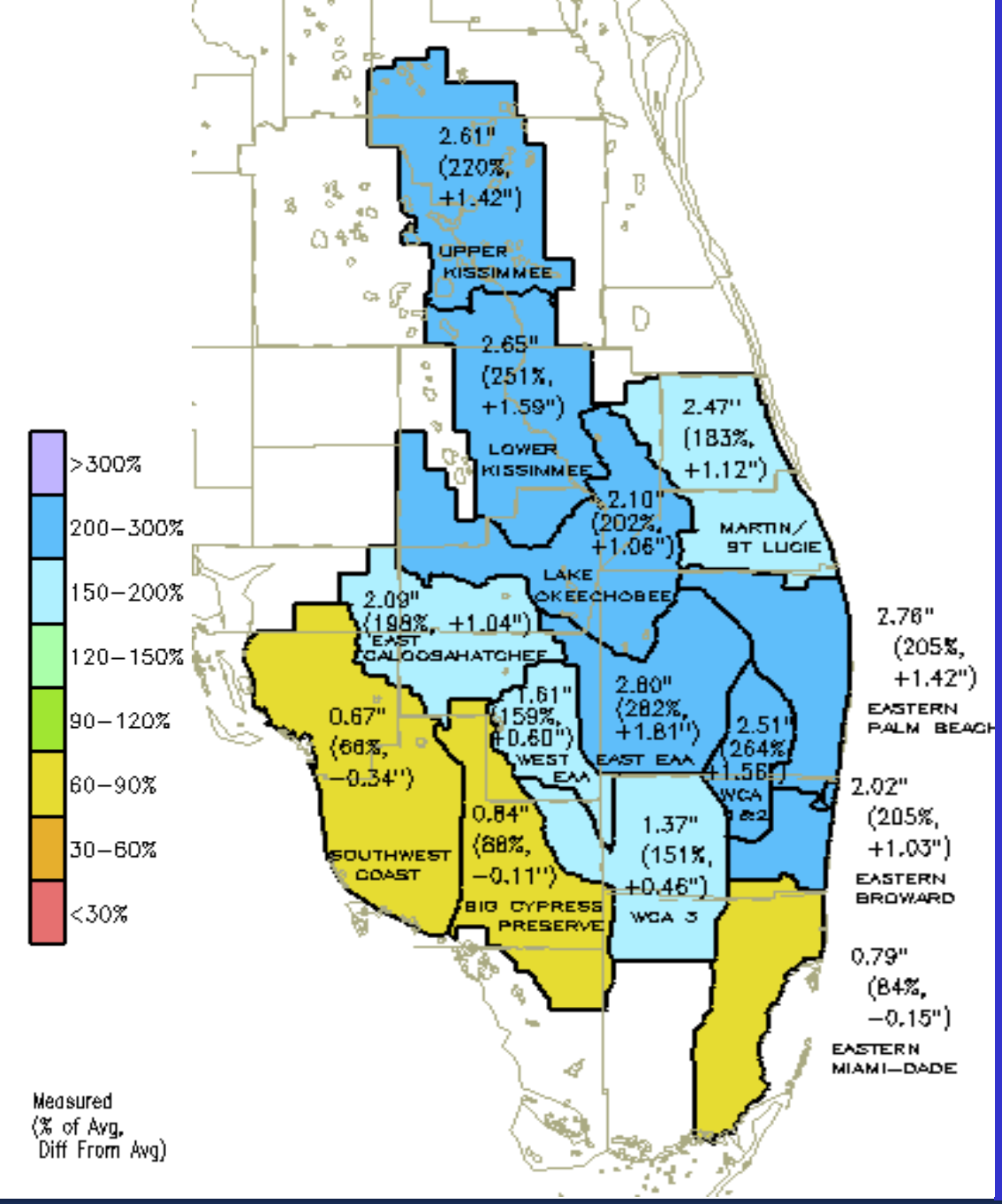
SFWMD 2008
February Rainfall
Feb 2nd – 28th

DISTRICT-WIDE:
2.99" (142%, +0.88")

Average February
= 2.19"

Stats for February-2008:

- *Most basins south of L.Okee are 1"-2" > average*
- *EAA WCAs & Big Cypress are about 2"-3" > average*
- *Upper Kissimmee & Martin/ StLucie basins are ~1" < avg*



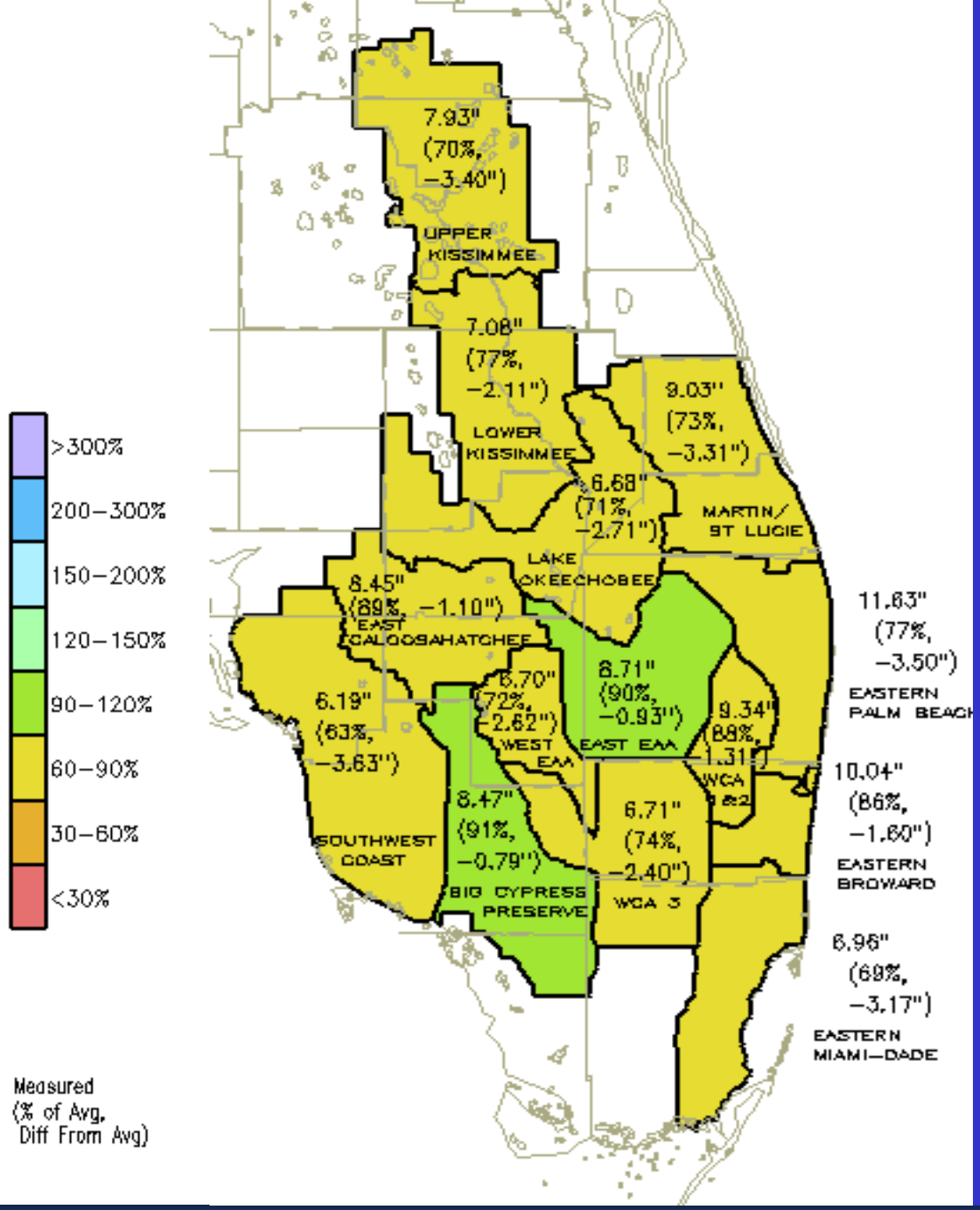
SFWMD 2008
March Rainfall
Mar 2 - 12

DISTRICT-WIDE:
1.89” (177%, +0.8”)

Average March
= 3.01”

Stats for March -2008:

- *Basins both north and south of L.Okee are 1”-2” > average*
- *SWC, Miami-Dade & Big Cypress are below > average*



SFWMD 2007-08
Dry Season Rainfall
02-Nov-07 to 12-Mar-08

DISTRICT-WIDE:
7.83" (76%, -2.41")

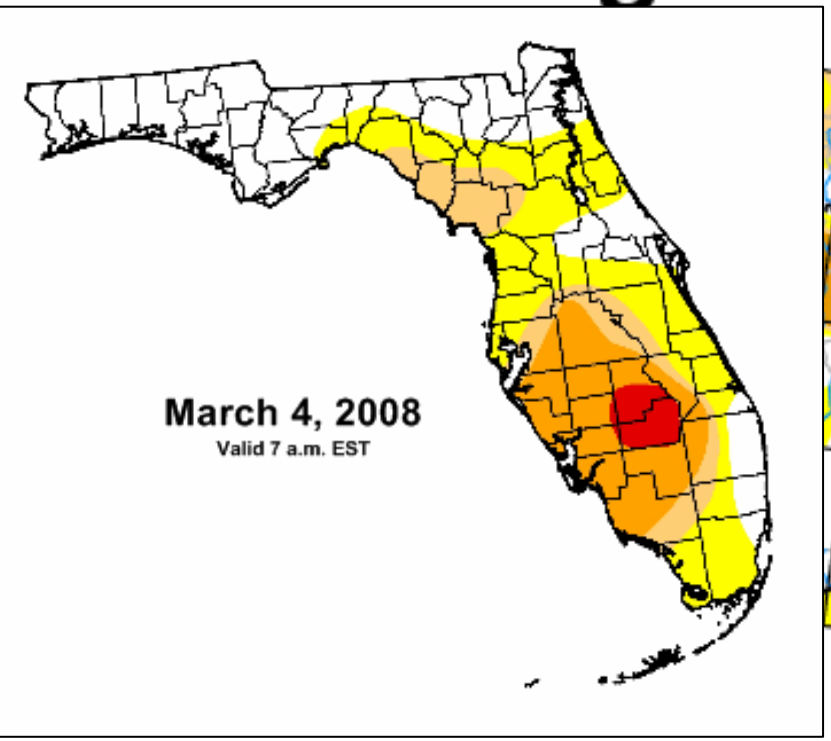
Average Dry Season
= 18.8"

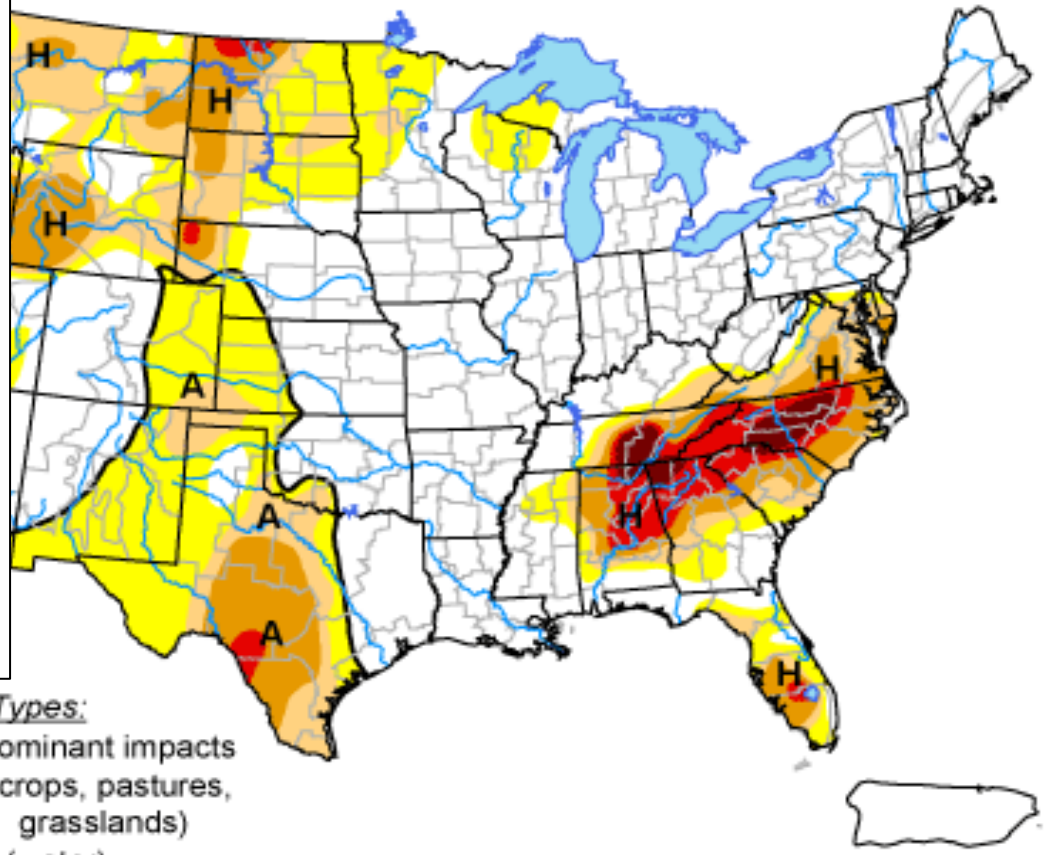
- *All basins are below average*
- *Most basins are 2"-3" < avg*
- *Upper & Lower Kissimmee & Lake O deficits ~ 2 - 3" < avg*

2007 stats:
- *9th driest year since 1932*
- *2006-2007 set a new record-low 2 calendar-yr total (83.6") (1955-56: 84.6")*

U.S. Drought Monitor

March 4, 2008
Valid 7 a.m. EST





Intensity:

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

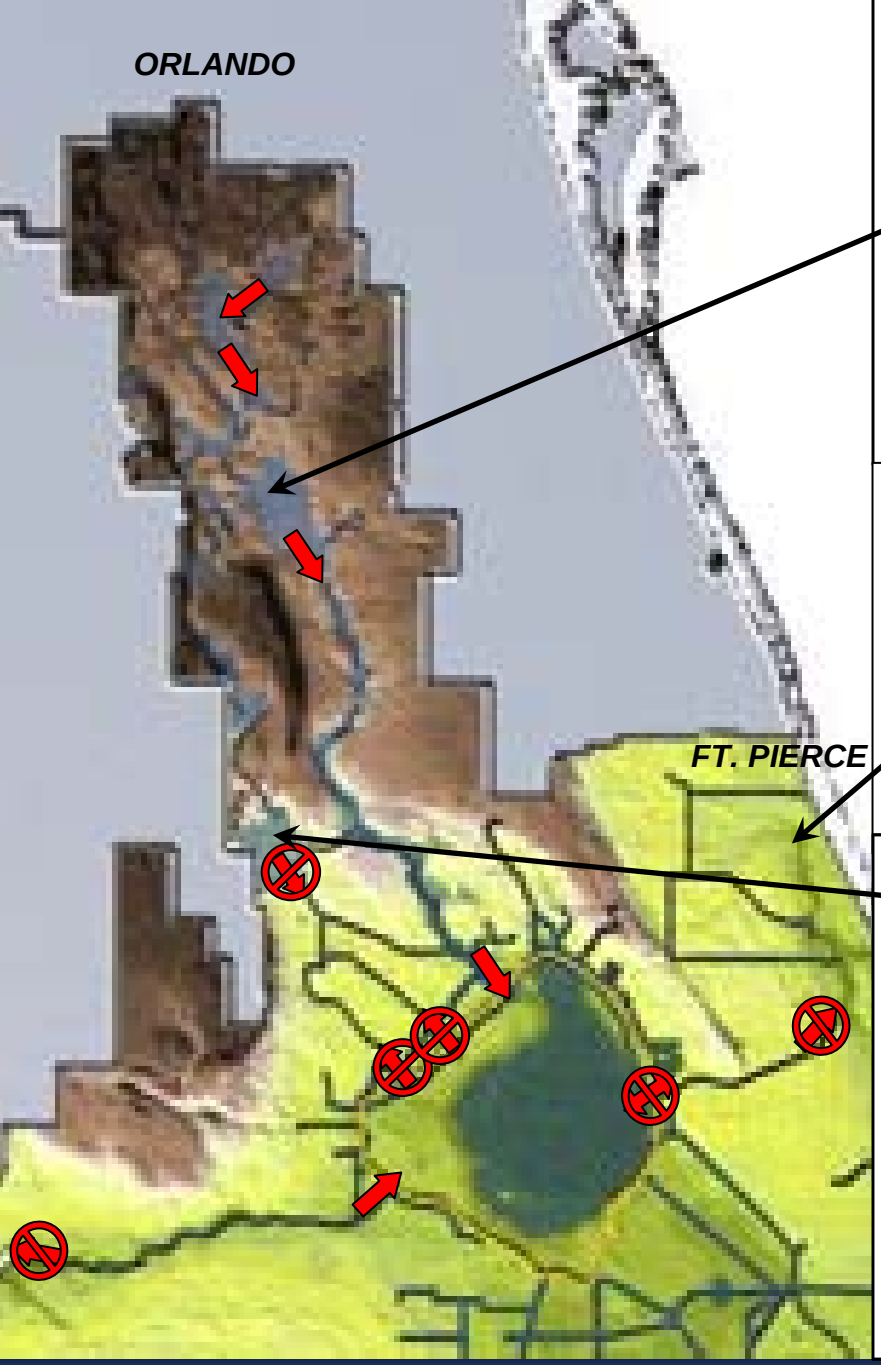
Drought Impact Types:

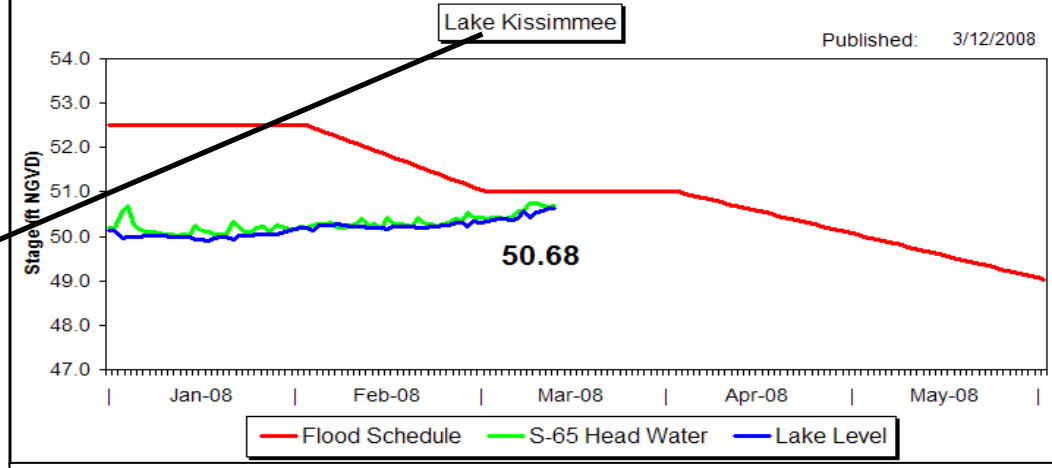
~ Delineates dominant impacts
A = Agricultural (crops, pastures, grasslands)
H = Hydrological (water)

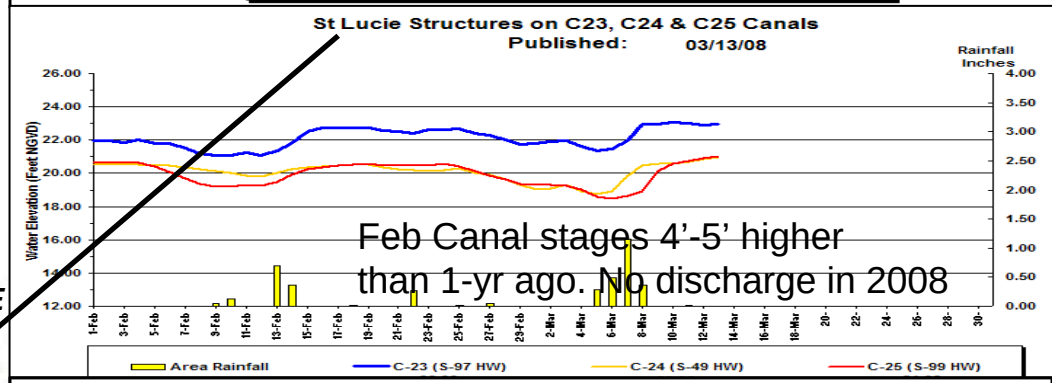
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm

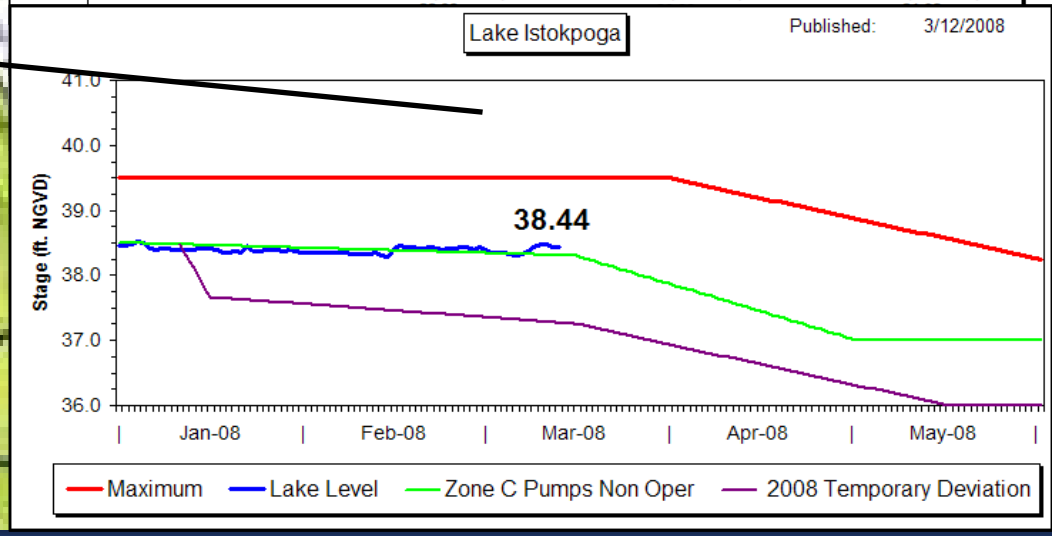
Released Thursday, March 6, 2008
Author: Brian Fuchs, National Drought Mitigation Center

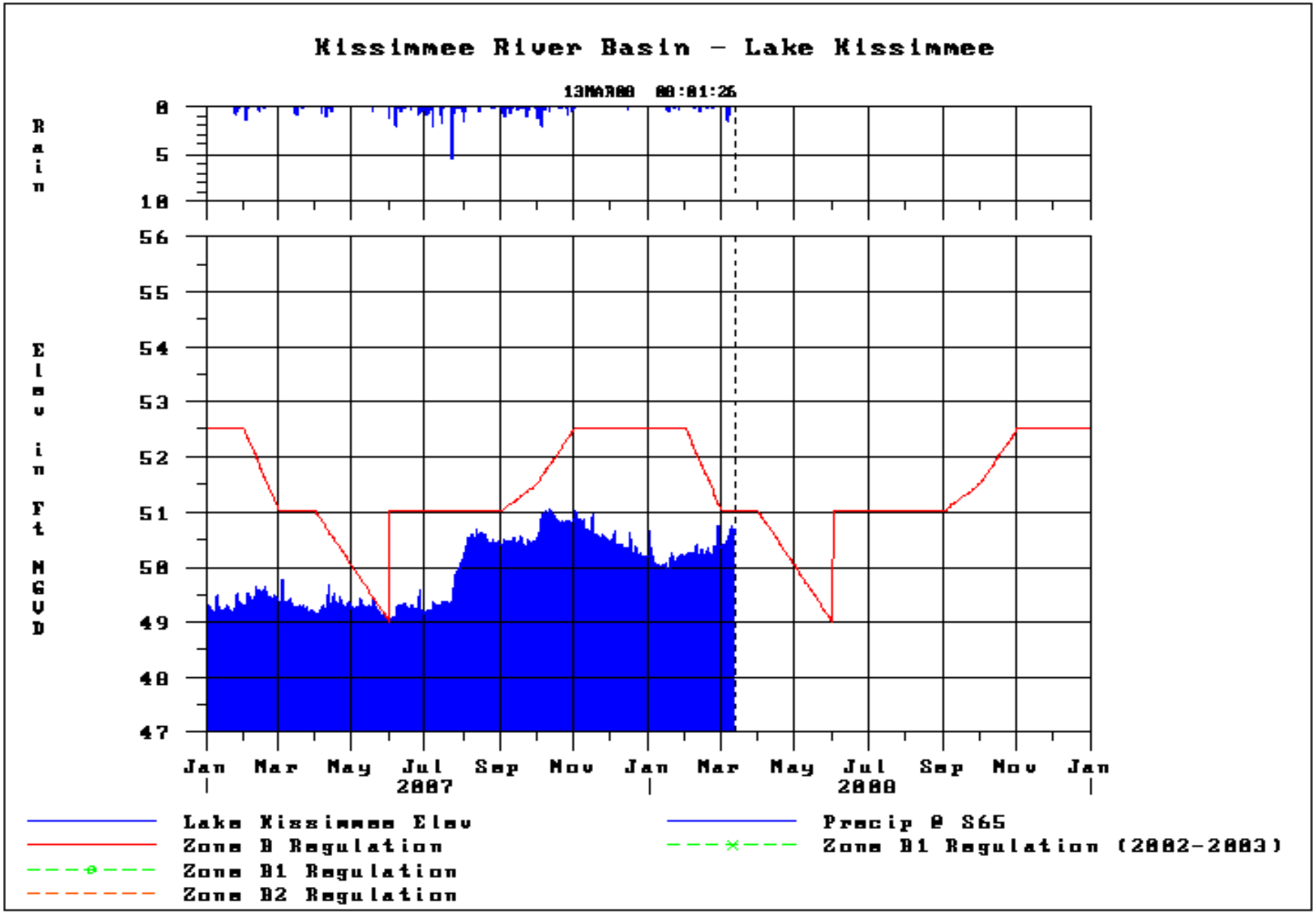


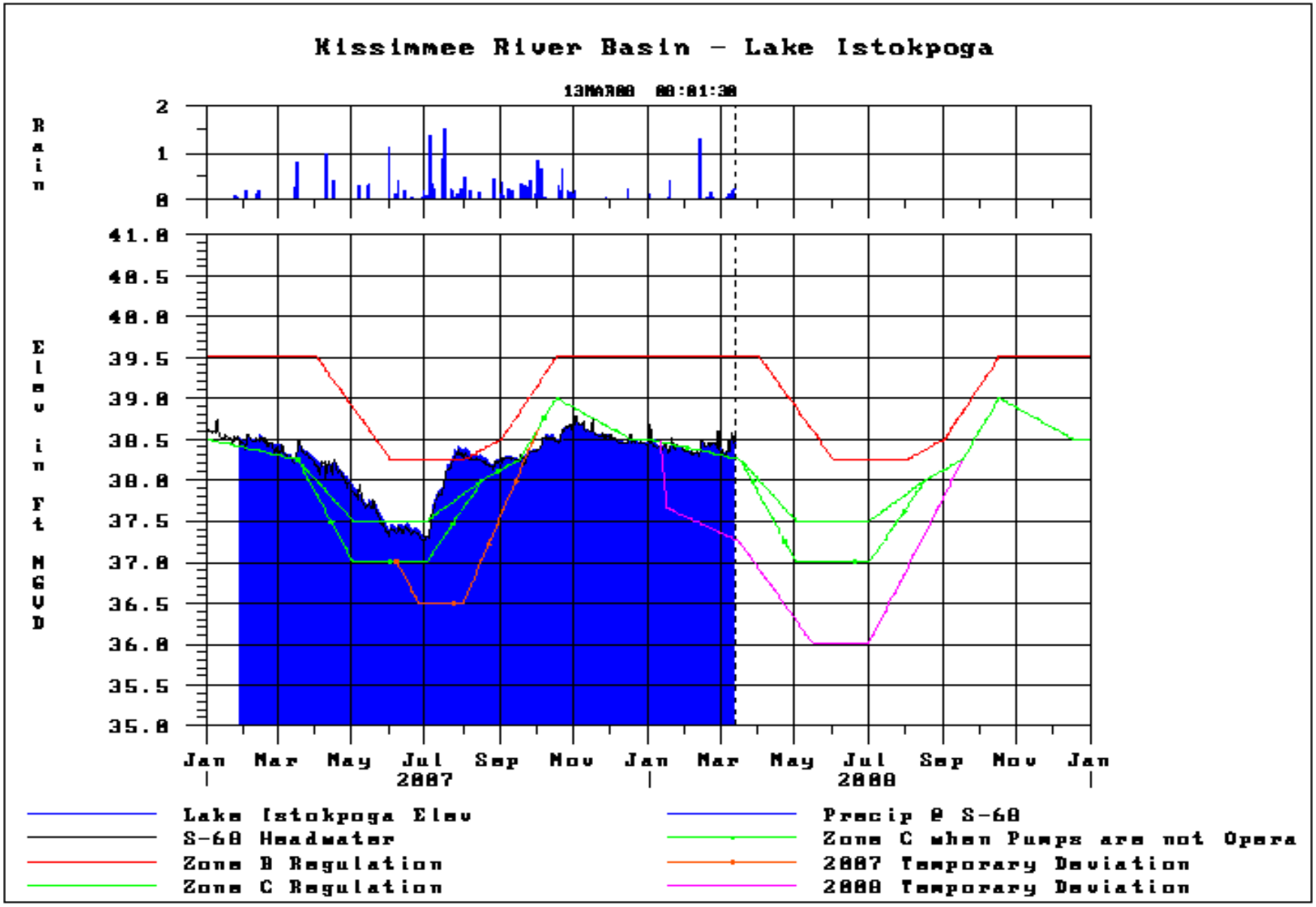


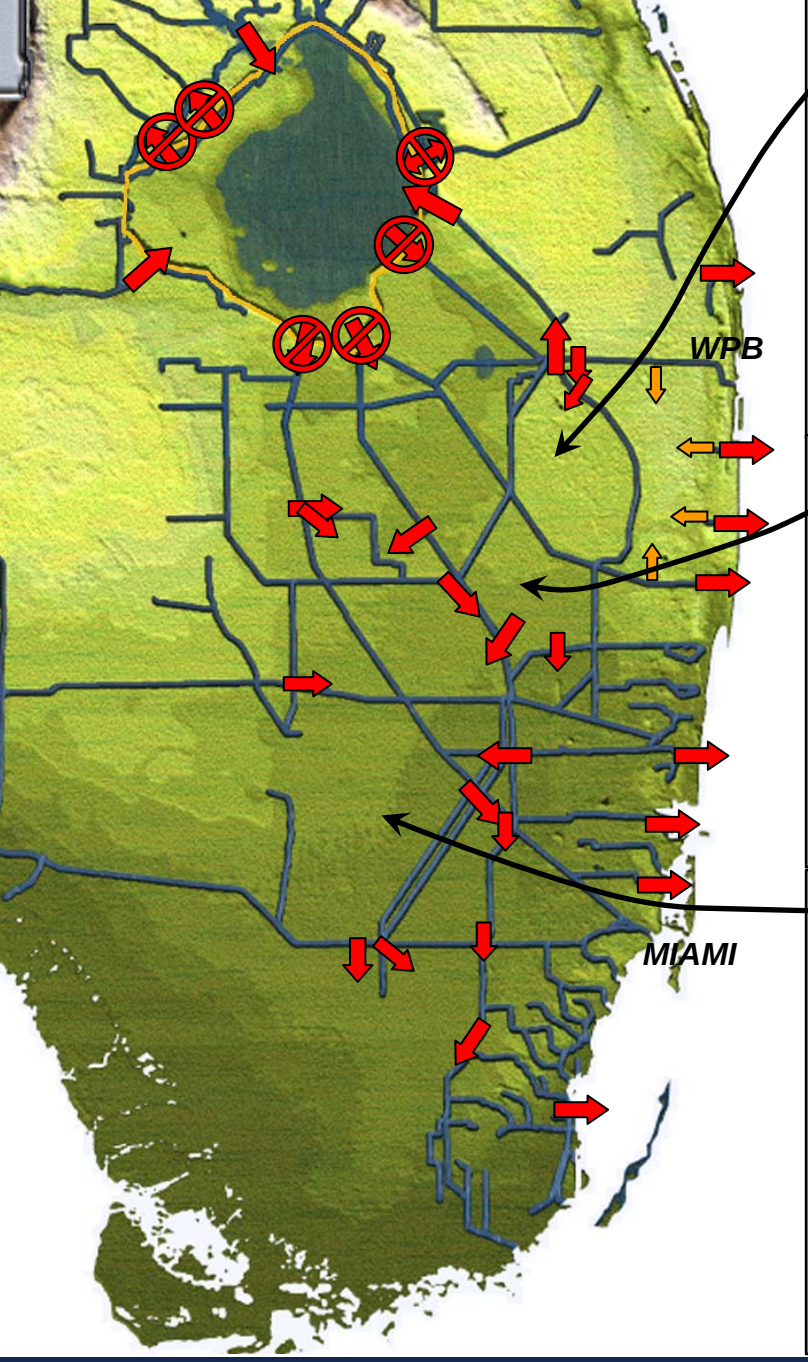


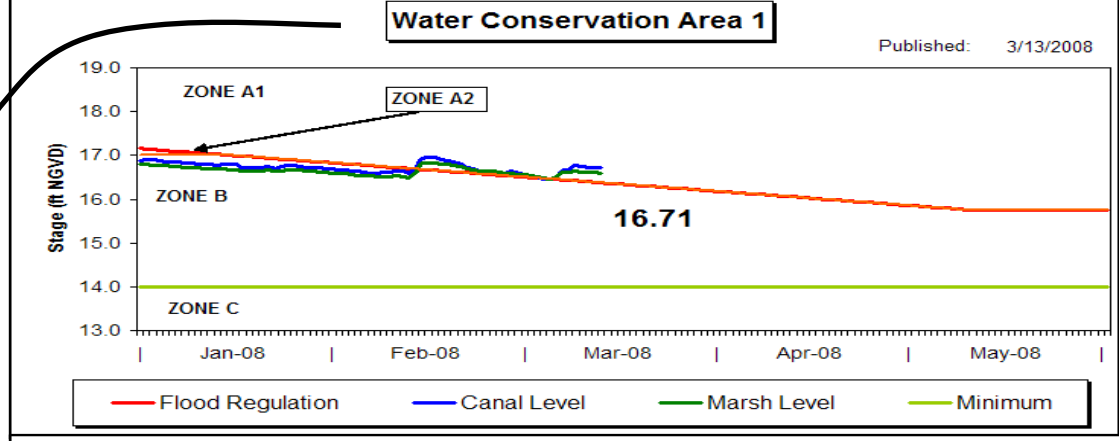
Feb Canal stages 4'-5' higher than 1-yr ago. No discharge in 2008

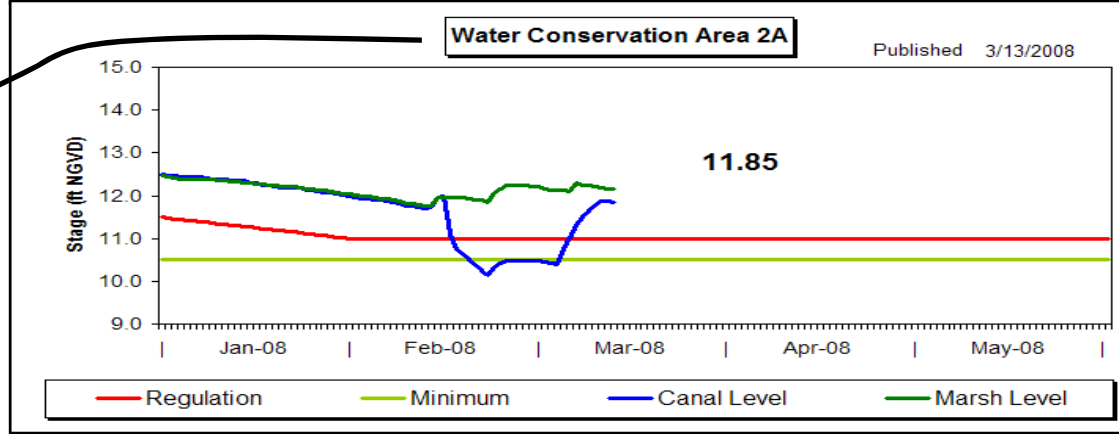


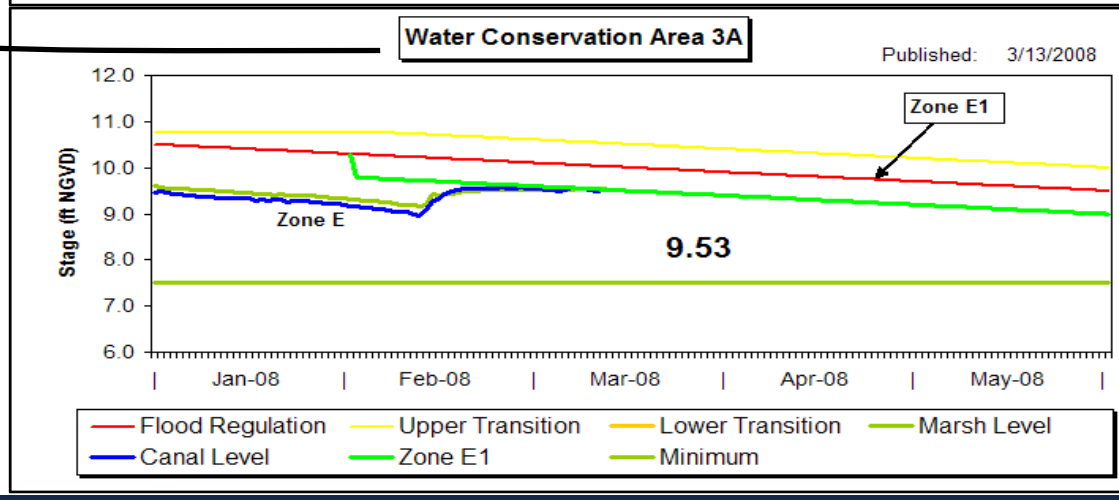

Kissimmee River Basin - Lake Kissimmee
13MAR08 08:01:26
Rain
0
5
10
Elev in Ft NGVD
56
55
54
53
52
51
50
49
48
47
Jan
Mar
May
Jul
Sep
Nov
Jan
Mar
May
Jul
Sep
Nov
Jan
2007
2008
Lake Kissimmee Elev
Zone B Regulation
Zone B1 Regulation
Zone B2 Regulation
Precip @ S65
Zone B1 Regulation (2002-2003)

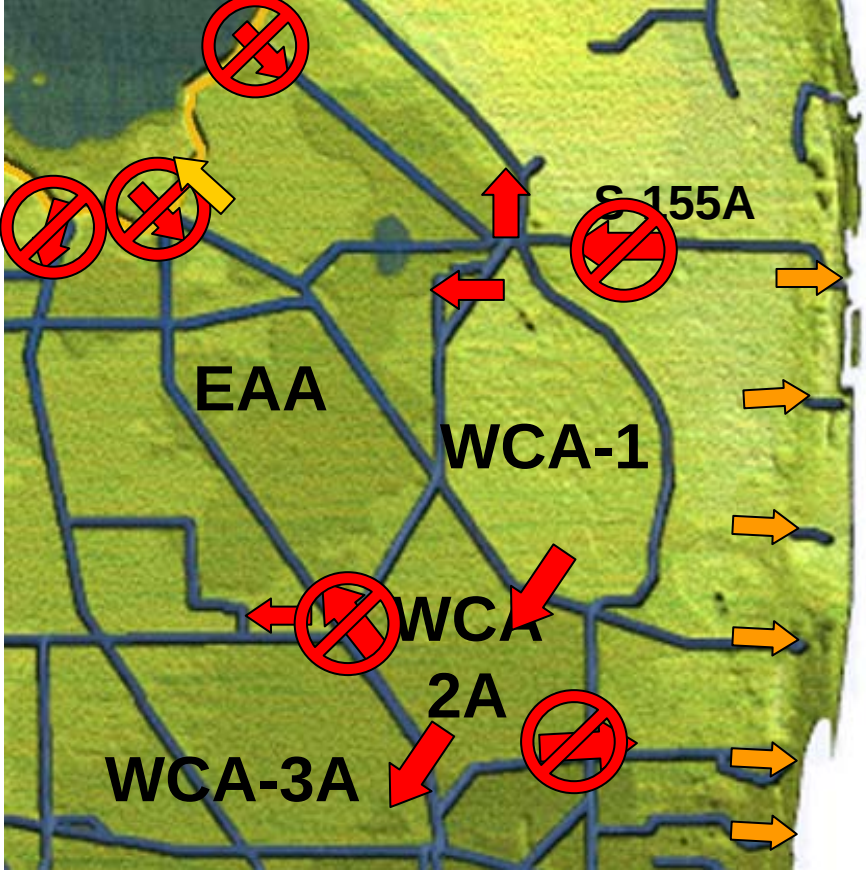

Kissimmee River Basin - Lake Istokpoga
13MAR08 08:01:38
Rain
2
1
0
Elev in Ft NGVD
41.0
40.5
40.0
39.5
39.0
38.5
38.0
37.5
37.0
36.5
36.0
35.5
35.0
Jan
Mar
May
Jul
Sep
Nov
Jan
Mar
May
Jul
Sep
Nov
Jan
2007
2008
Lake Istokpoga Elev
S-68 Headwater
Zone B Regulation
Zone C Regulation
Precip @ S-68
Zone C when Pumps are not Opera
2007 Temporary Deviation
2008 Temporary Deviation

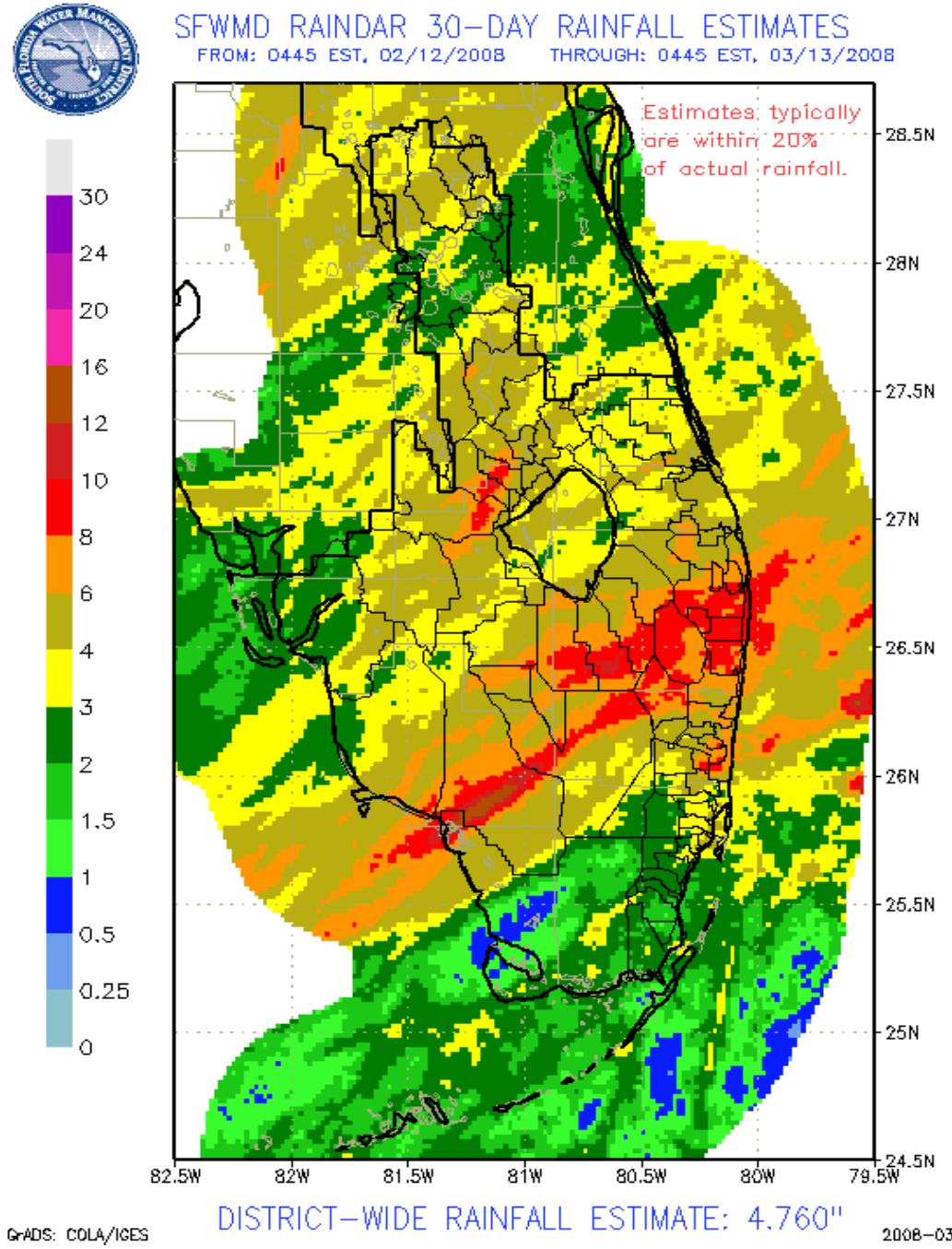

WPB
MIAMI


Water Conservation Area 1
Published: 3/13/2008
Stage (ft NGVD)
19.0
18.0
17.0
16.0
15.0
14.0
13.0
ZONE A1
ZONE A2
ZONE B
ZONE C
16.71
Jan-08
Feb-08
Mar-08
Apr-08
May-08
Flood Regulation
Canal Level
Marsh Level
Minimum


Water Conservation Area 2A
Published 3/13/2008
Stage (ft NGVD)
15.0
14.0
13.0
12.0
11.0
10.0
9.0
11.85
Jan-08
Feb-08
Mar-08
Apr-08
May-08
Regulation
Minimum
Canal Level
Marsh Level


Water Conservation Area 3A
Published: 3/13/2008
Stage (ft NGVD)
12.0
11.0
10.0
9.0
8.0
7.0
6.0
Zone E1
Zone E
9.53
Jan-08
Feb-08
Mar-08
Apr-08
May-08
Flood Regulation
Upper Transition
Lower Transition
Marsh Level
Canal Level
Zone E1
Minimum

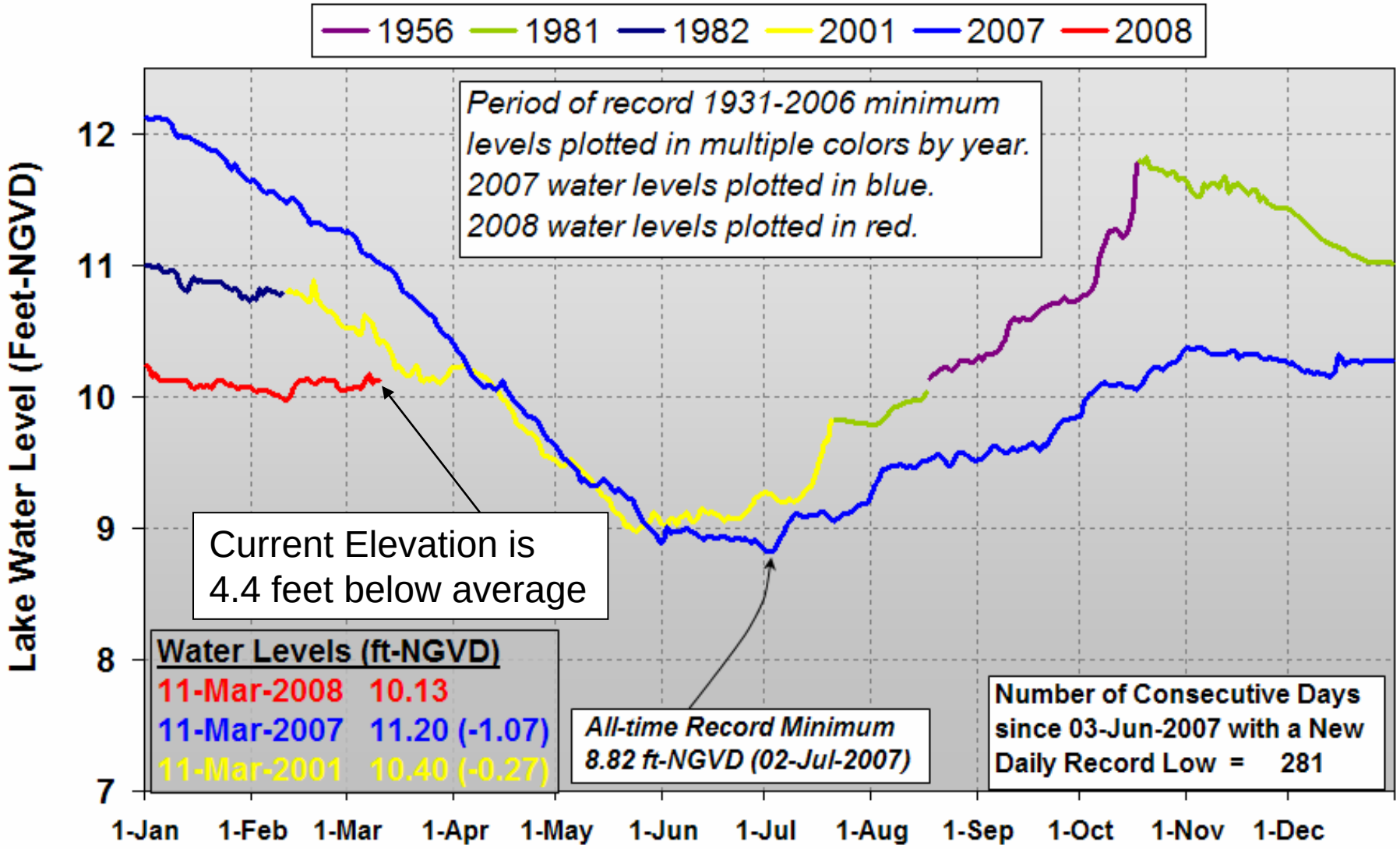




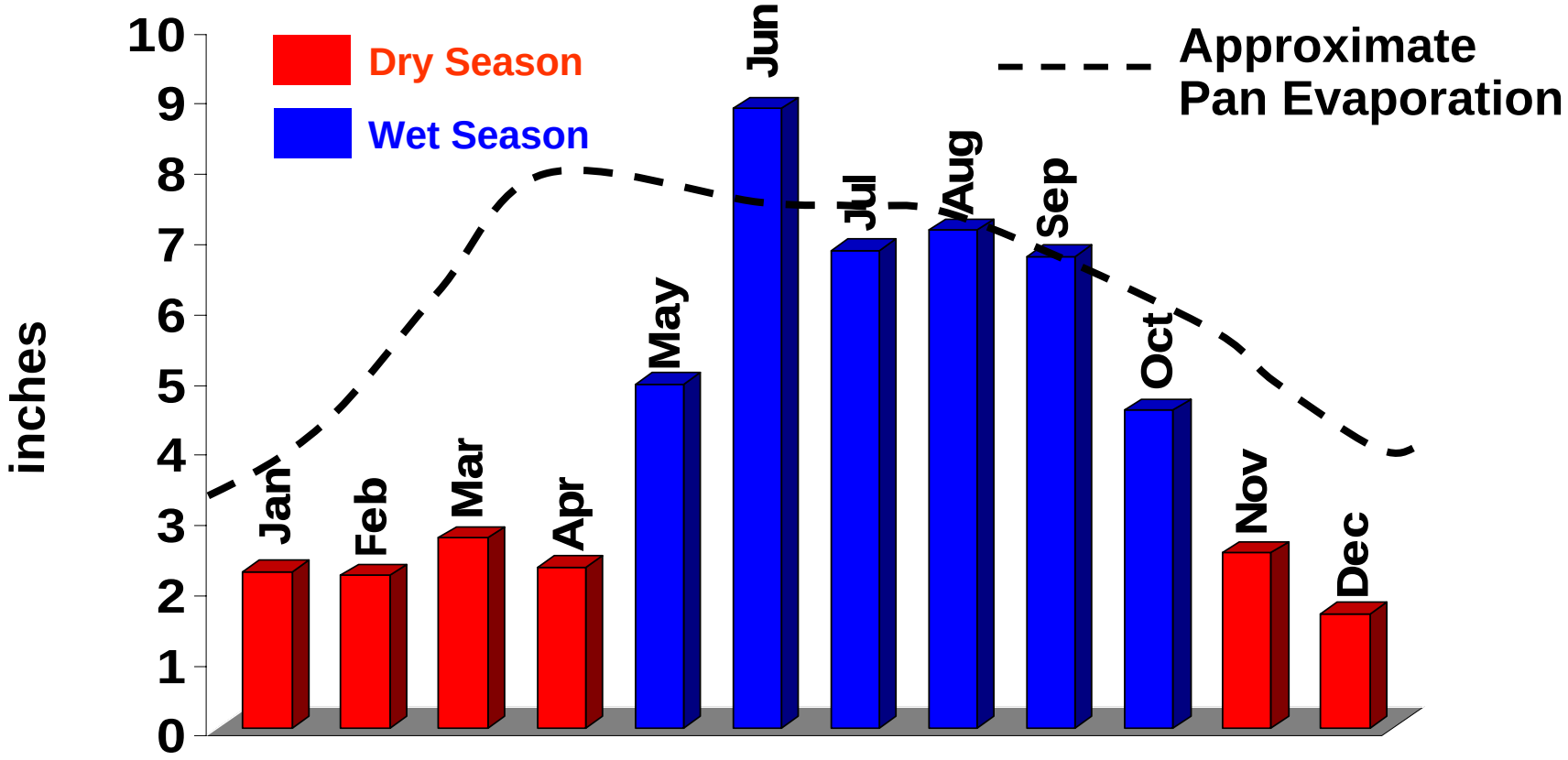
Water Supply Operations Not required since Feb 12-13 Rainfall

Lake Okeechobee

Period of Record 1931-2006 Minimum Water Levels



Seasonal Rainfall Variation in South Florida

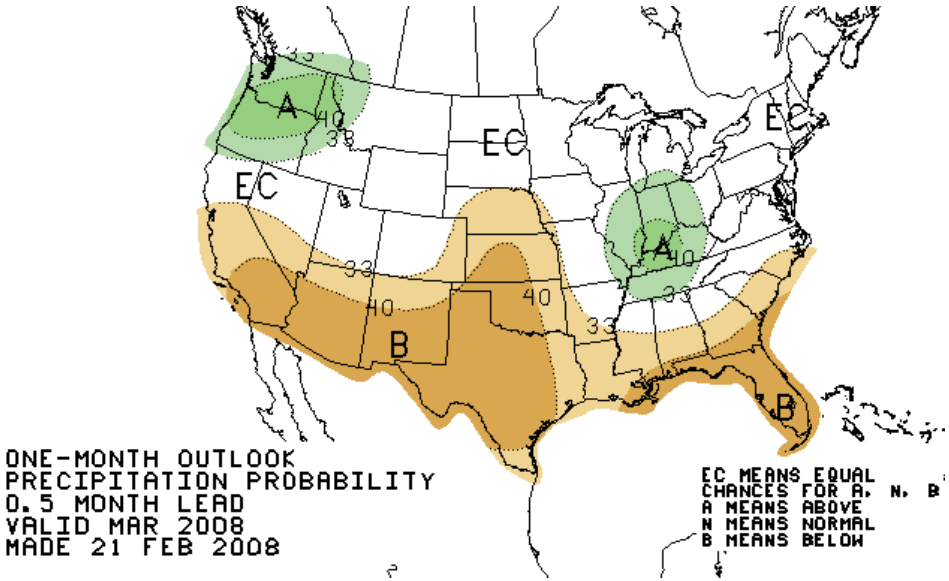


Average Monthly Rainfall (1965-1995)

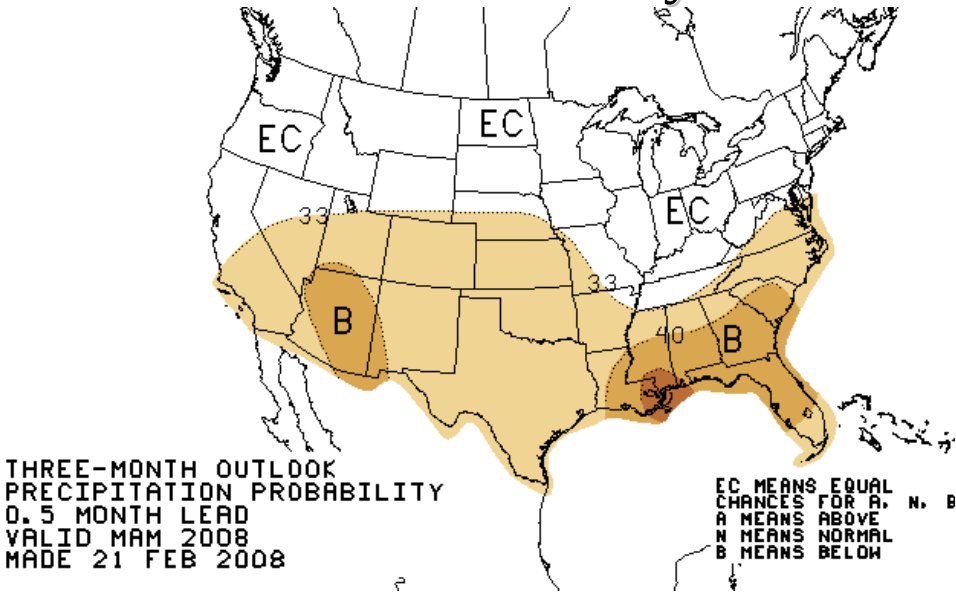
U. S. Seasonal Precipitation Outlook

National Climate Prediction Center (CPC)

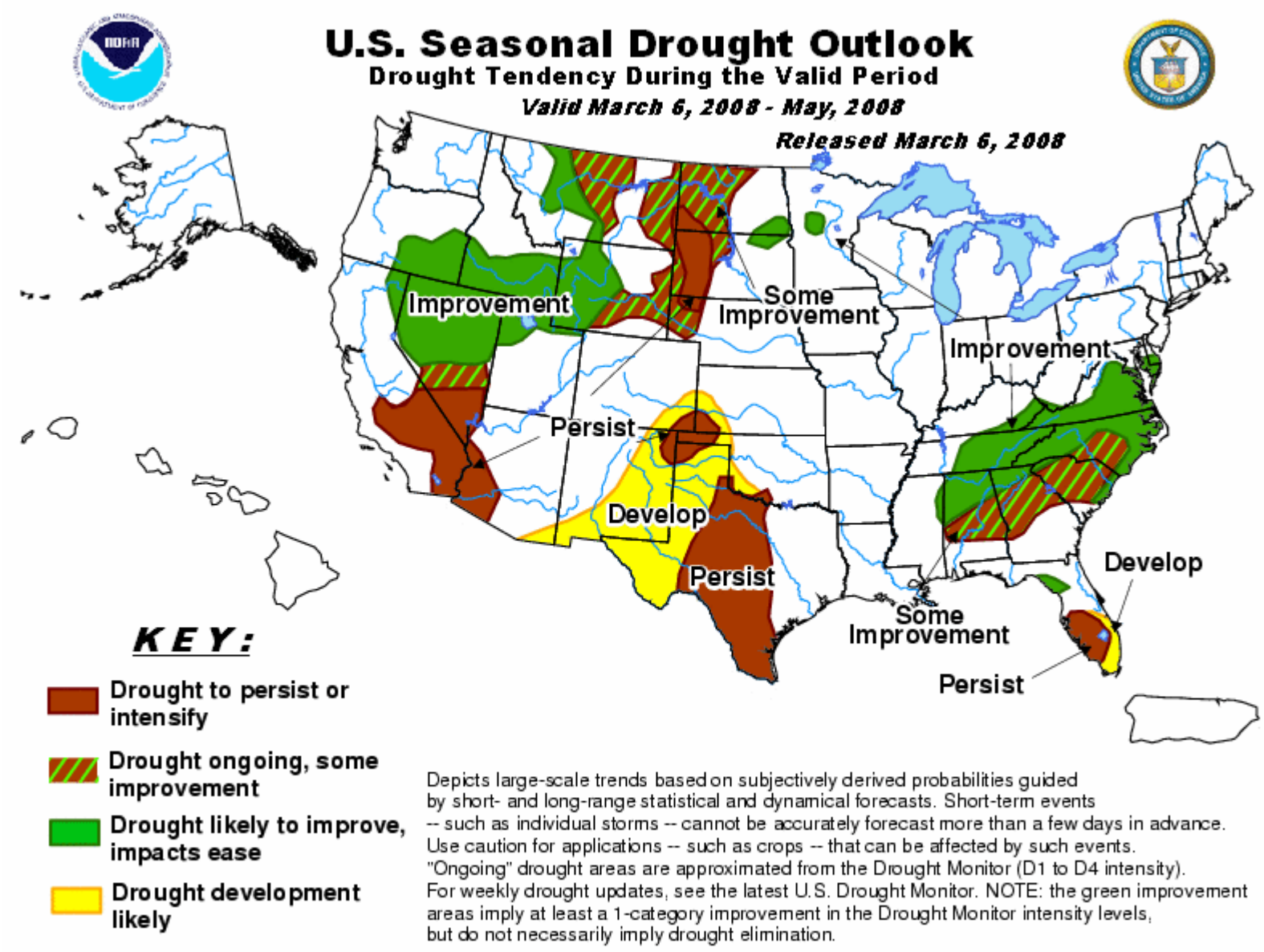
March



Mar-May

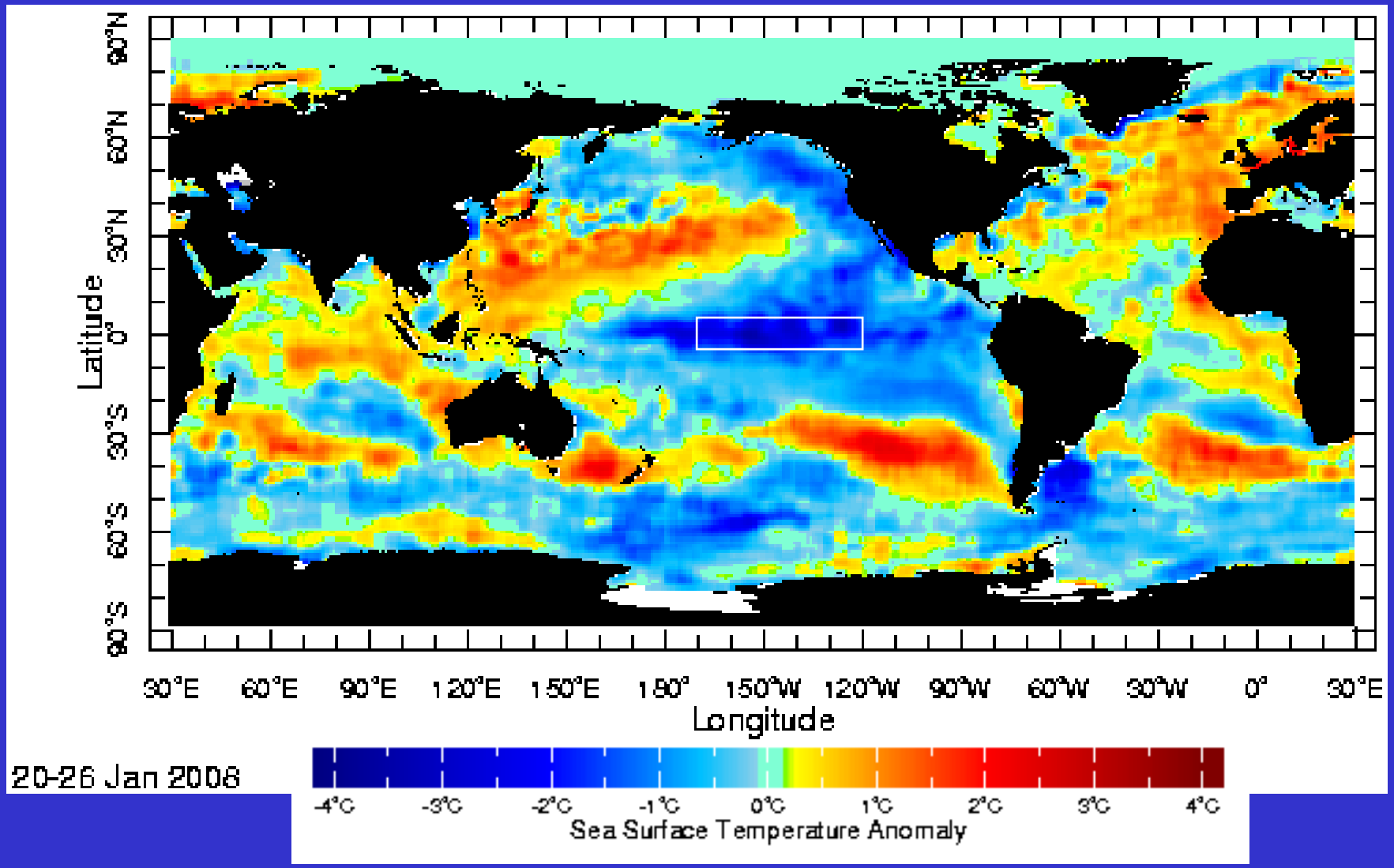


The CPC outlook for March shows an increased chance of below-normal rainfall. The outlook for the remainder of the 2007-2008 dry season shows an increased chance of below-normal rainfall due to La Niña conditions which are predicted by many climate models to persist.



http://www.cpc.noaa.gov/products/expert_assessment/season_drought.gif

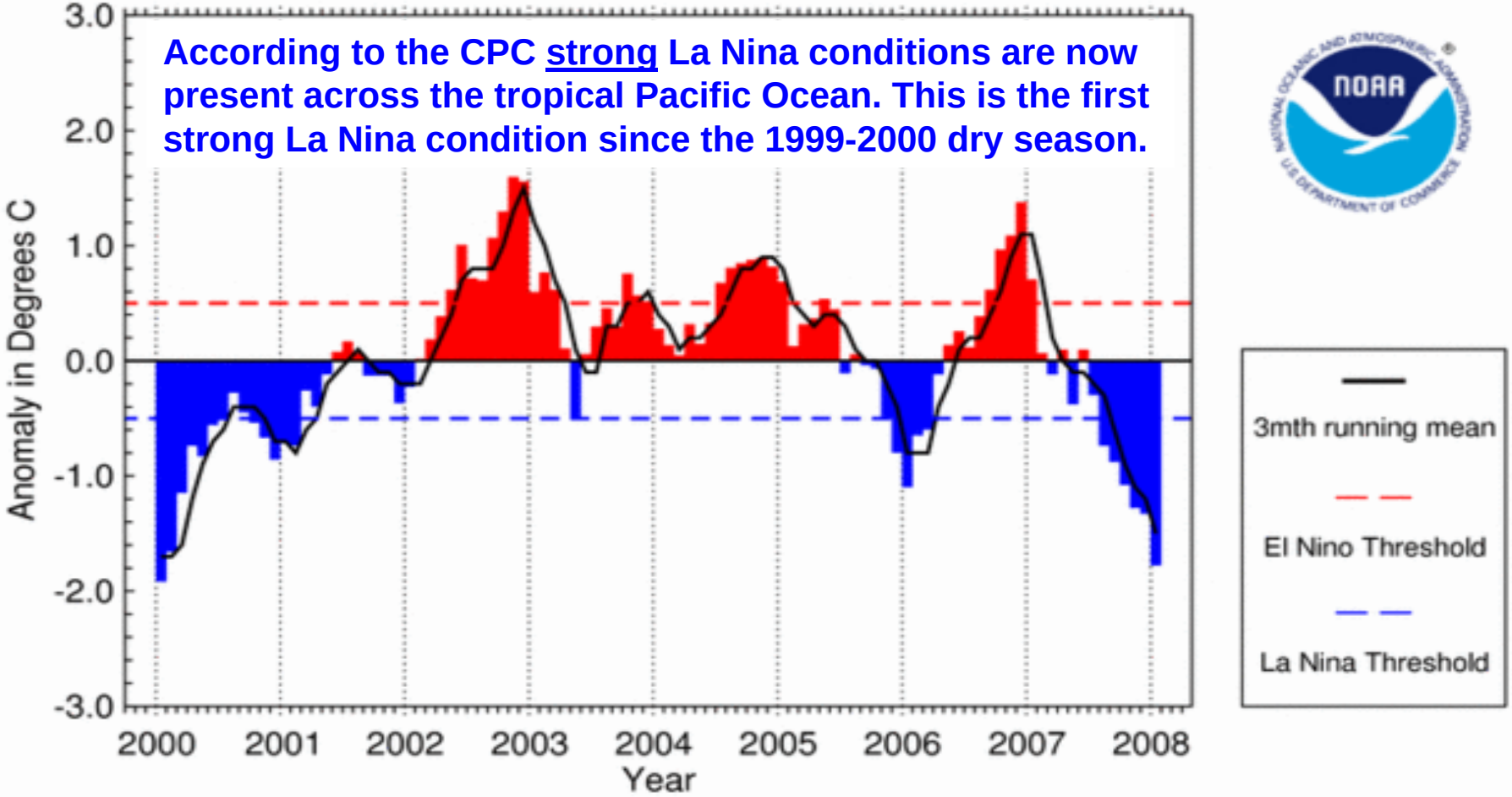
Global Sea Surface Temperature Anomalies (IRI*)



* IRI is the International Research Institute for Climate and Society

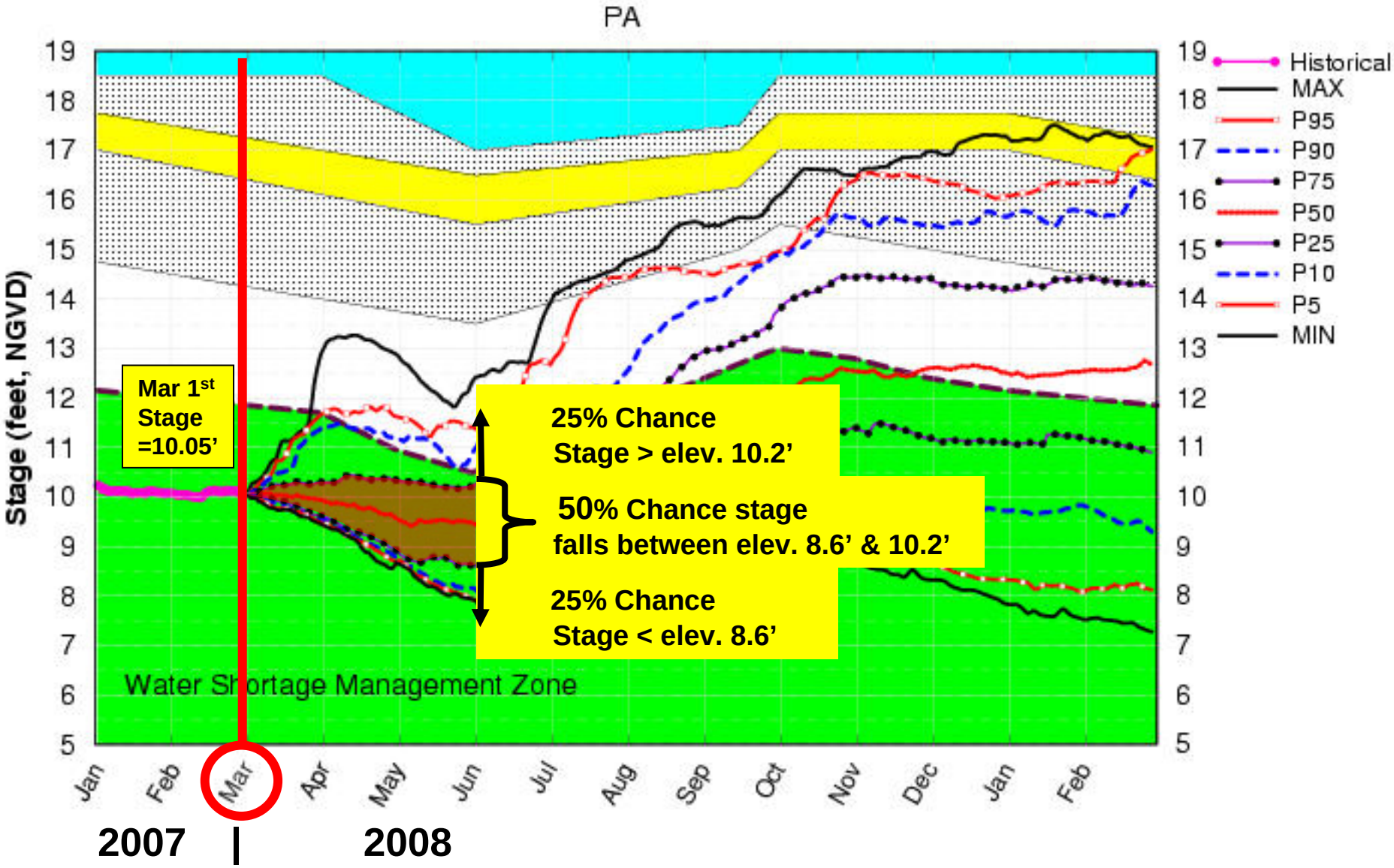
- Rectangle Represents the Nino 3.4 Region (5N-5S,120-170W)

SST Anomaly in Nino 3.4 Region (5N-5S,120-170W)



National Climatic Data Center / NESDIS / NOAA

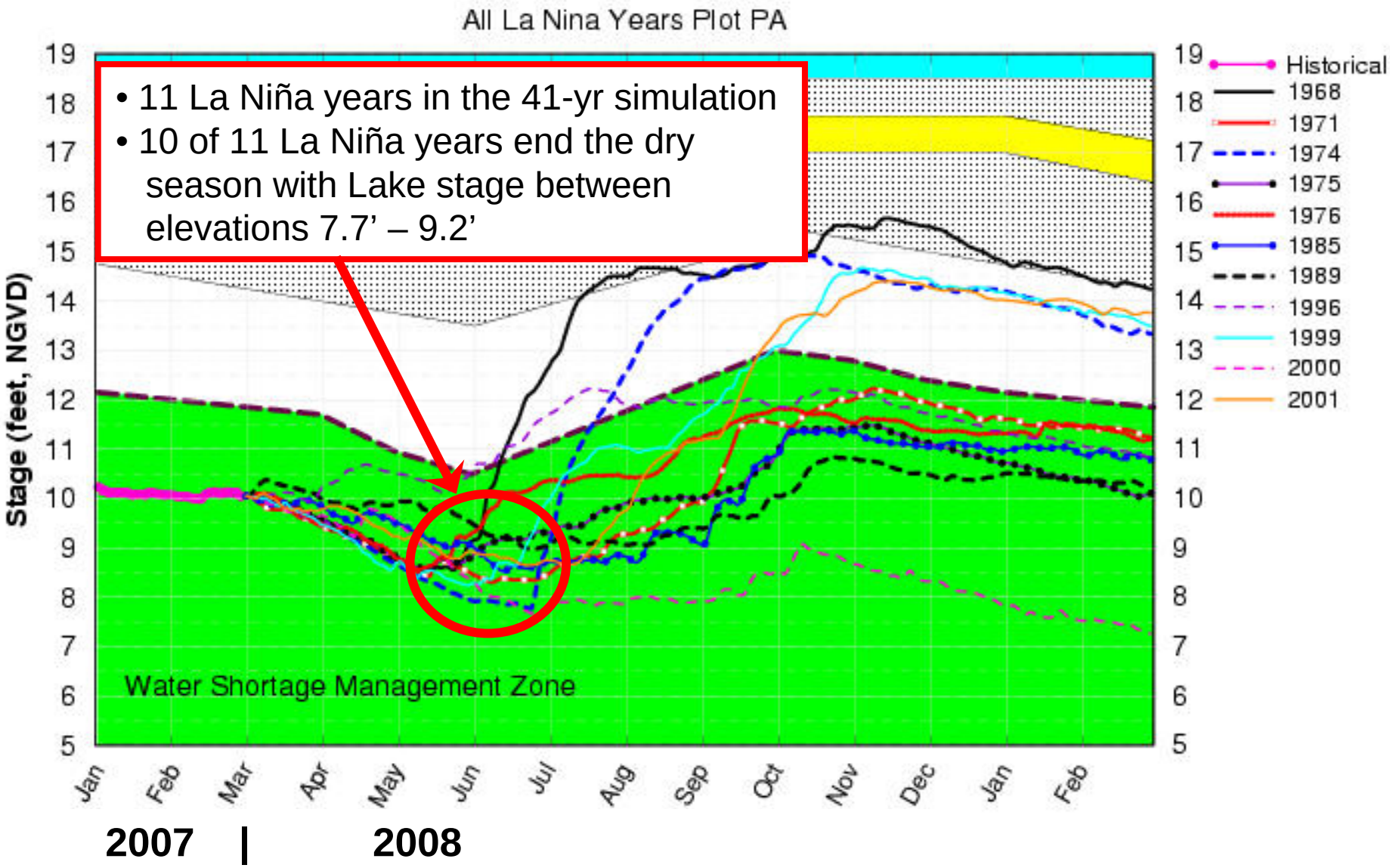
Lake Okeechobee SFWMM March 2008 Position Analysis



(See assumptions on the Position Analysis Results website)

Tue Mar 4 10:12:25 2008

Lake Okeechobee SFWMM March 2008 Position Analysis



(See assumptions on the Position Analysis Results website)

Tue Mar 4 10:12:46 2008

Questions?