

# Central MWD Caucus

September 1, 2010

*Serving Our Community*



# Delta Habitat Conveyance Conservation Program

## Update

*Preliminary Subject to Revision*

# Water Supply Update

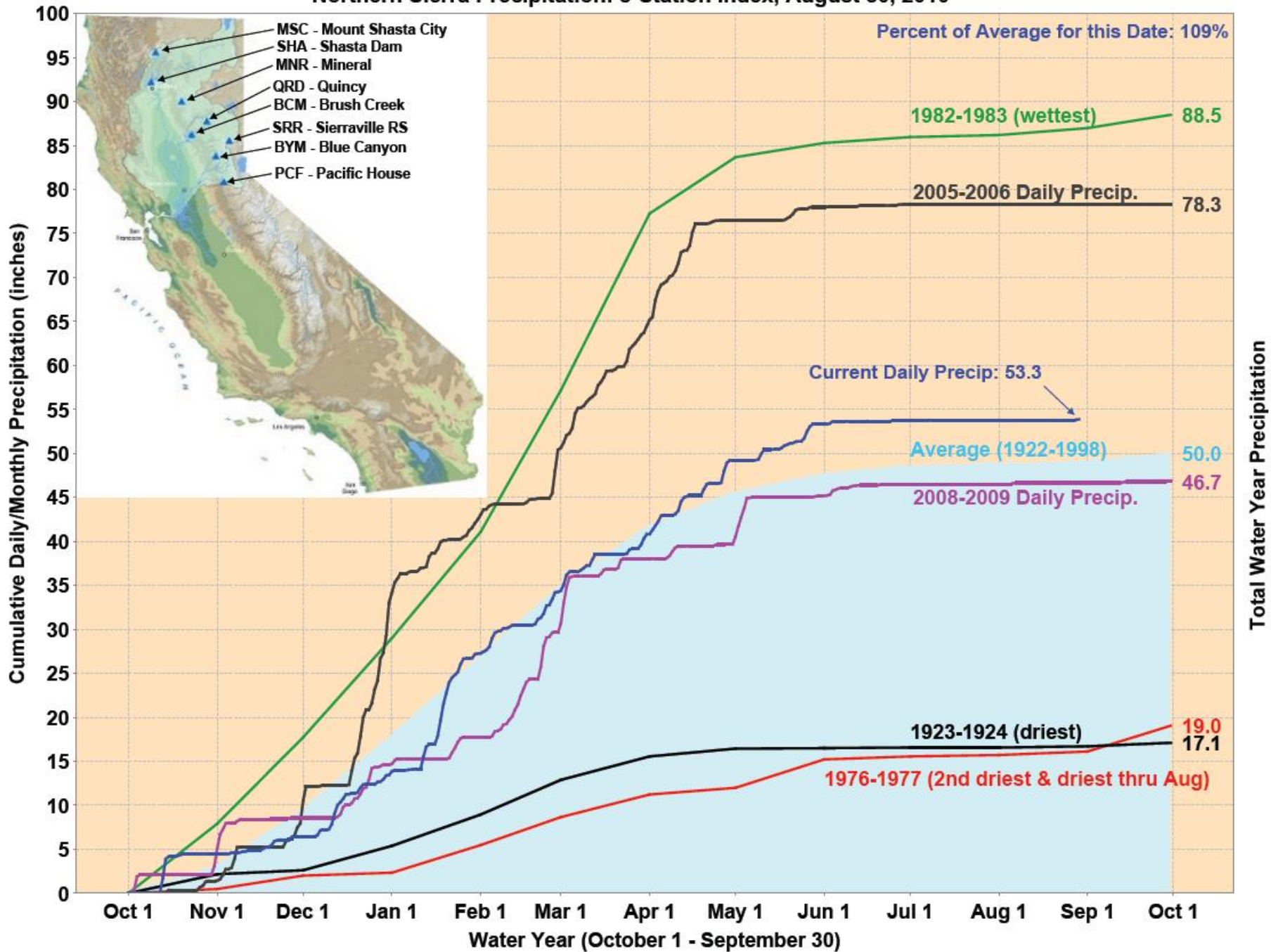
Central MWD Caucus  
September 1, 2010

Kevin Wattier, LBWD

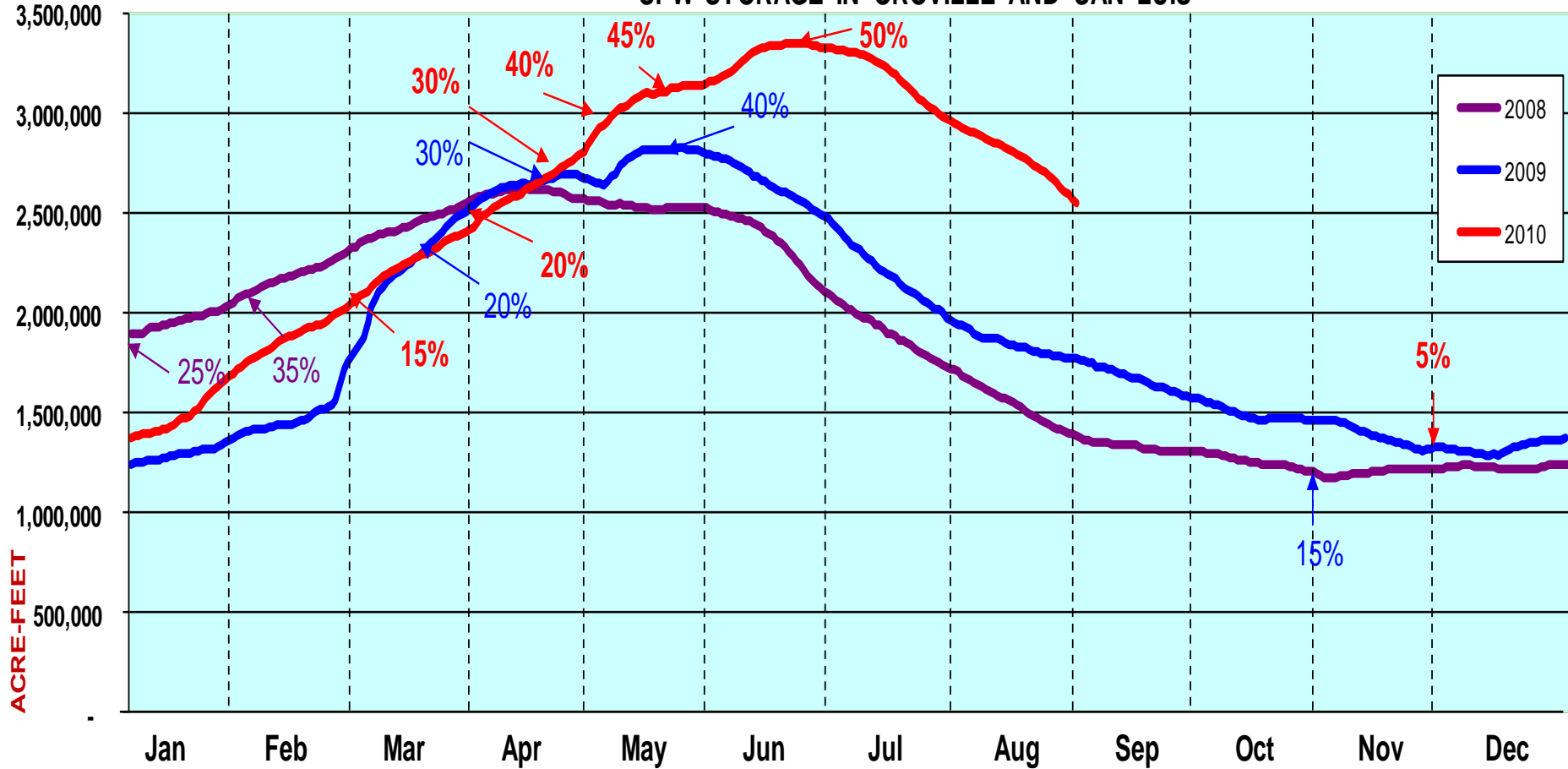
# Where Southern California Gets its Water



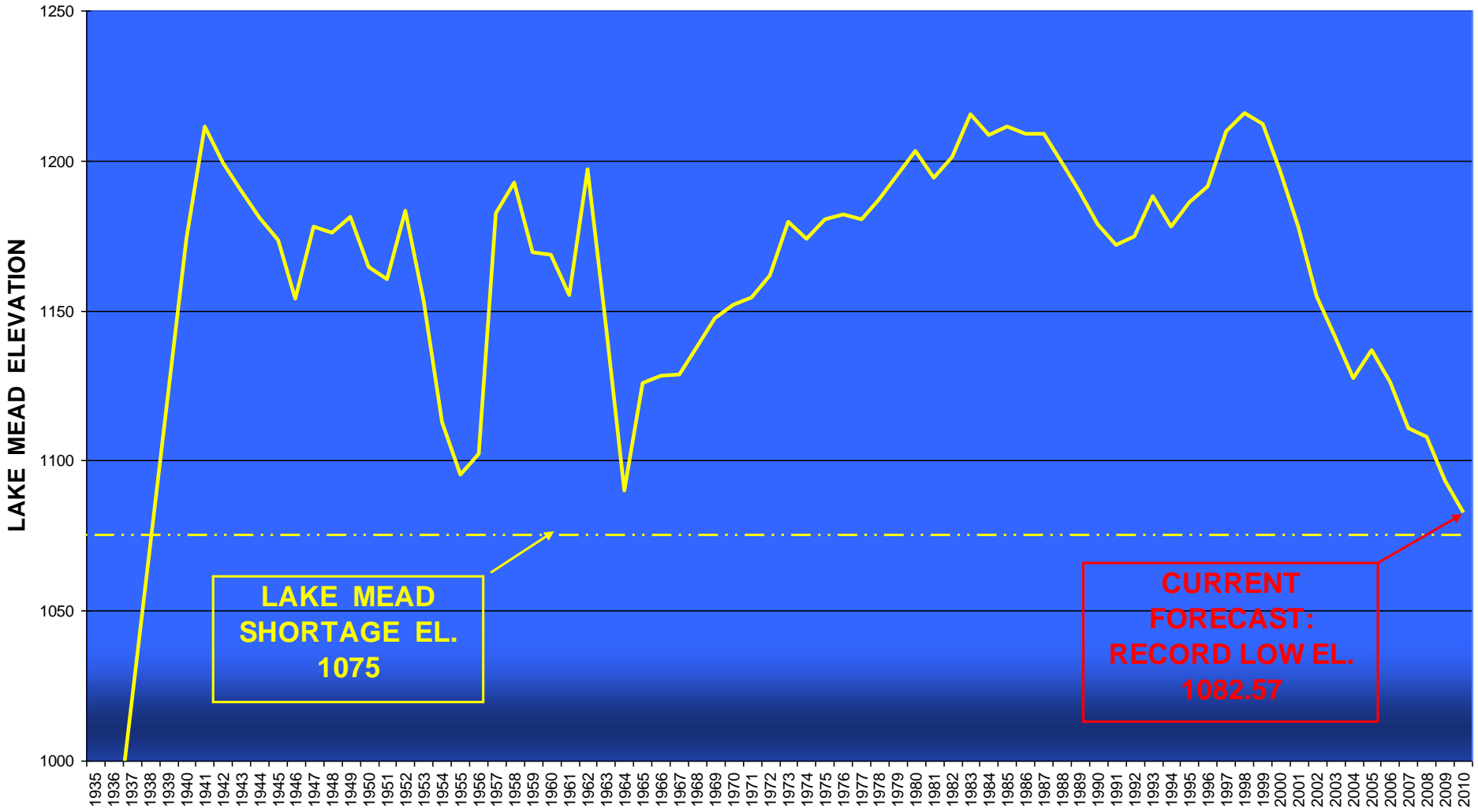
# Northern Sierra Precipitation: 8-Station Index, August 30, 2010



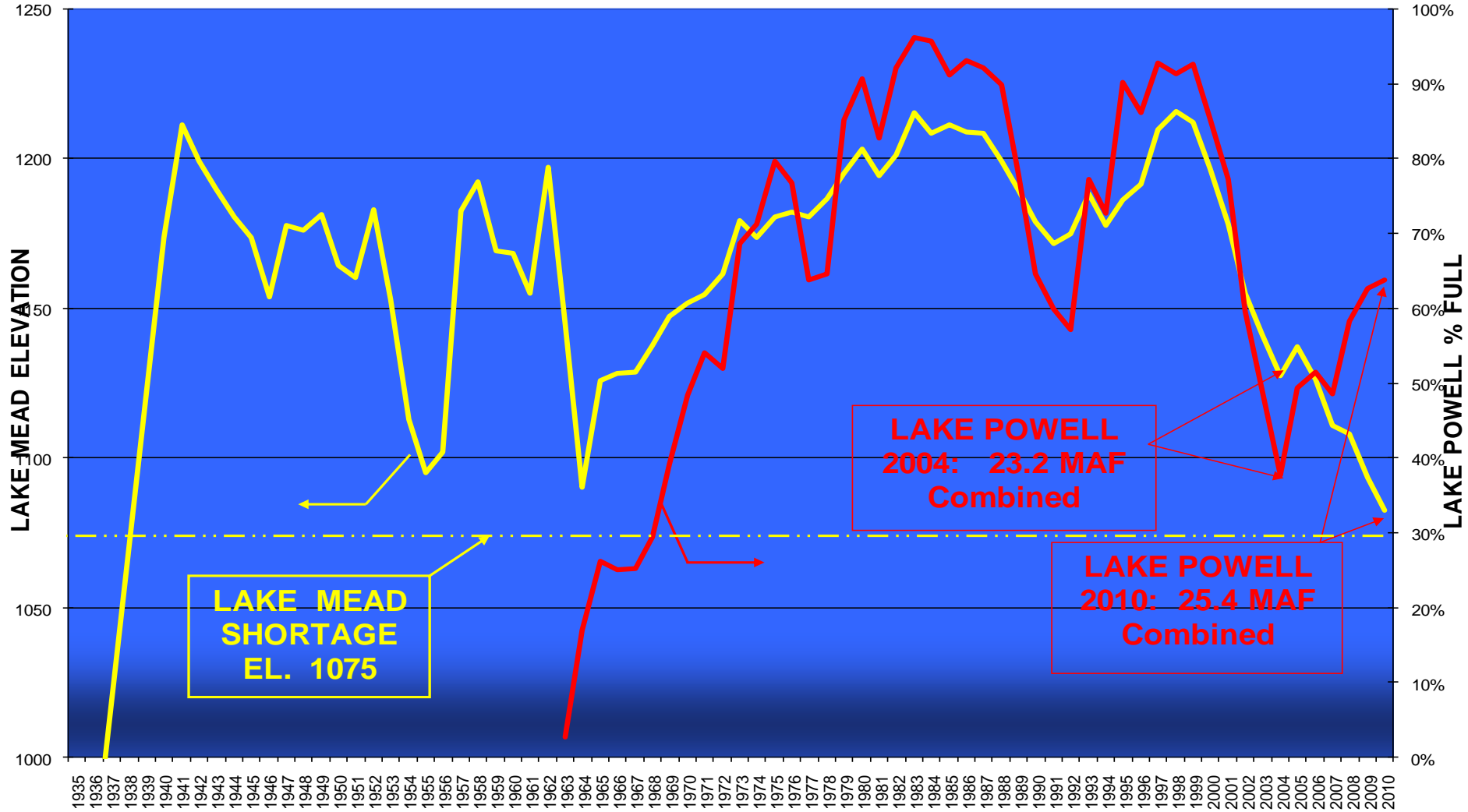
# SPW STORAGE IN OROVILLE AND SAN LUIS



# LAKE MEAD OCTOBER STORAGE



# LAKE MEAD AND LAKE POWELL OCTOBER STORAGE



# ENSO Cycle: Recent Evolution, Current Status and Predictions

**Update prepared by  
Climate Prediction Center / NCEP  
30 August 2010**

# Niño Region SST Departures (°C) Recent Evolution

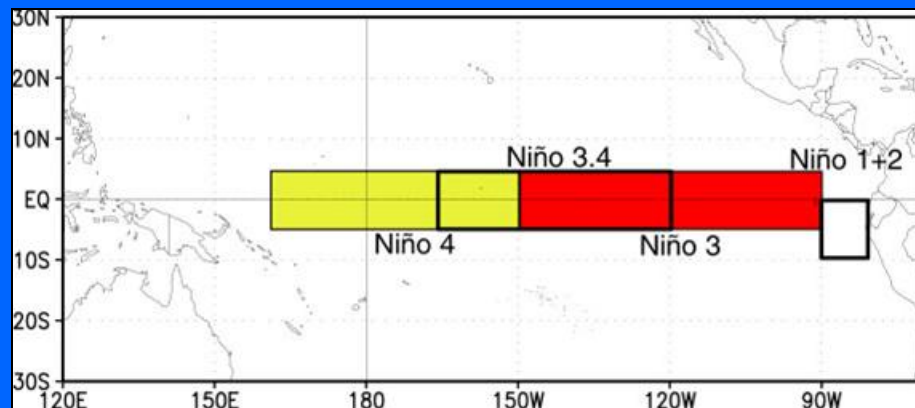
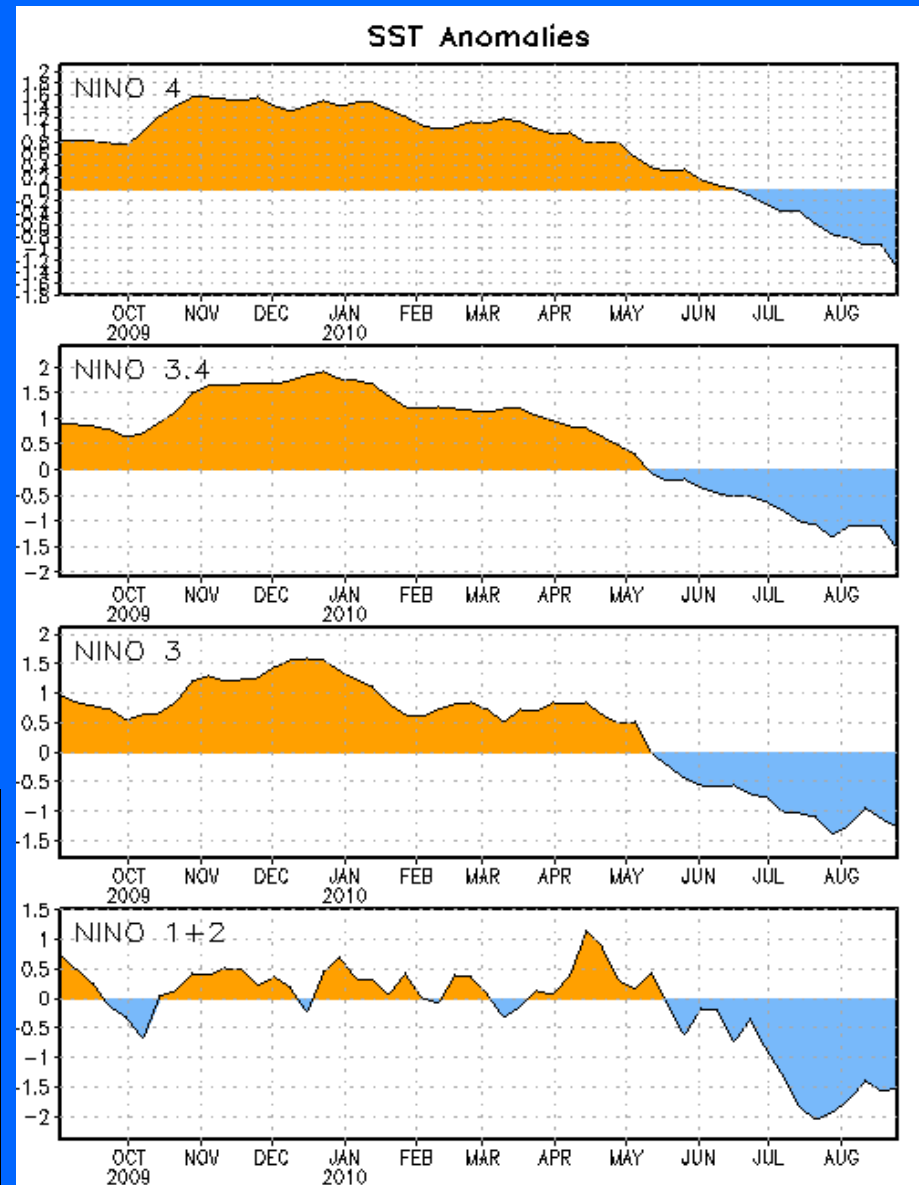
The latest weekly SST departures are:

Niño 4                -1.3°C

Niño 3.4            -1.5°C

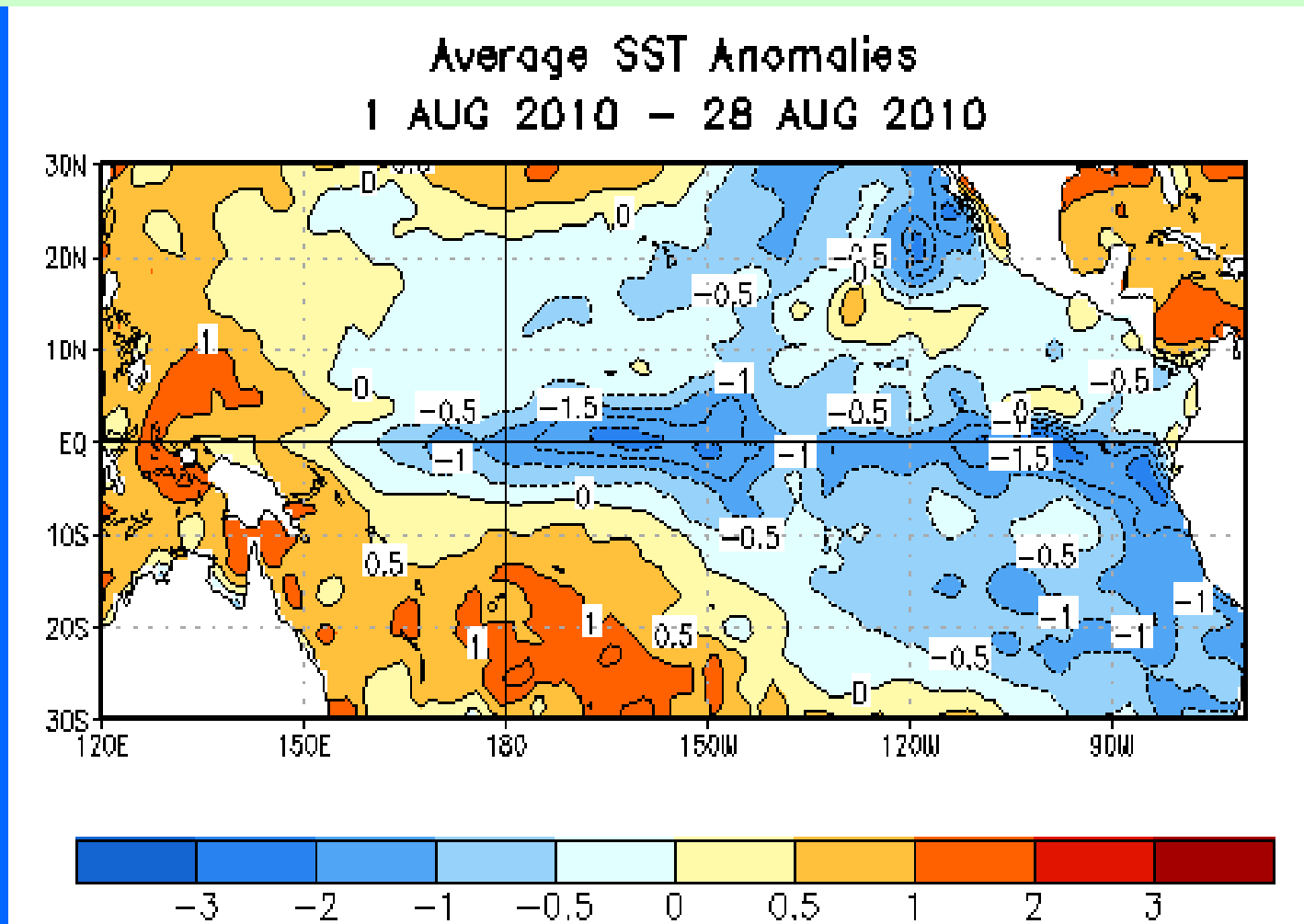
Niño 3                -1.3°C

Niño 1+2            -1.5°C



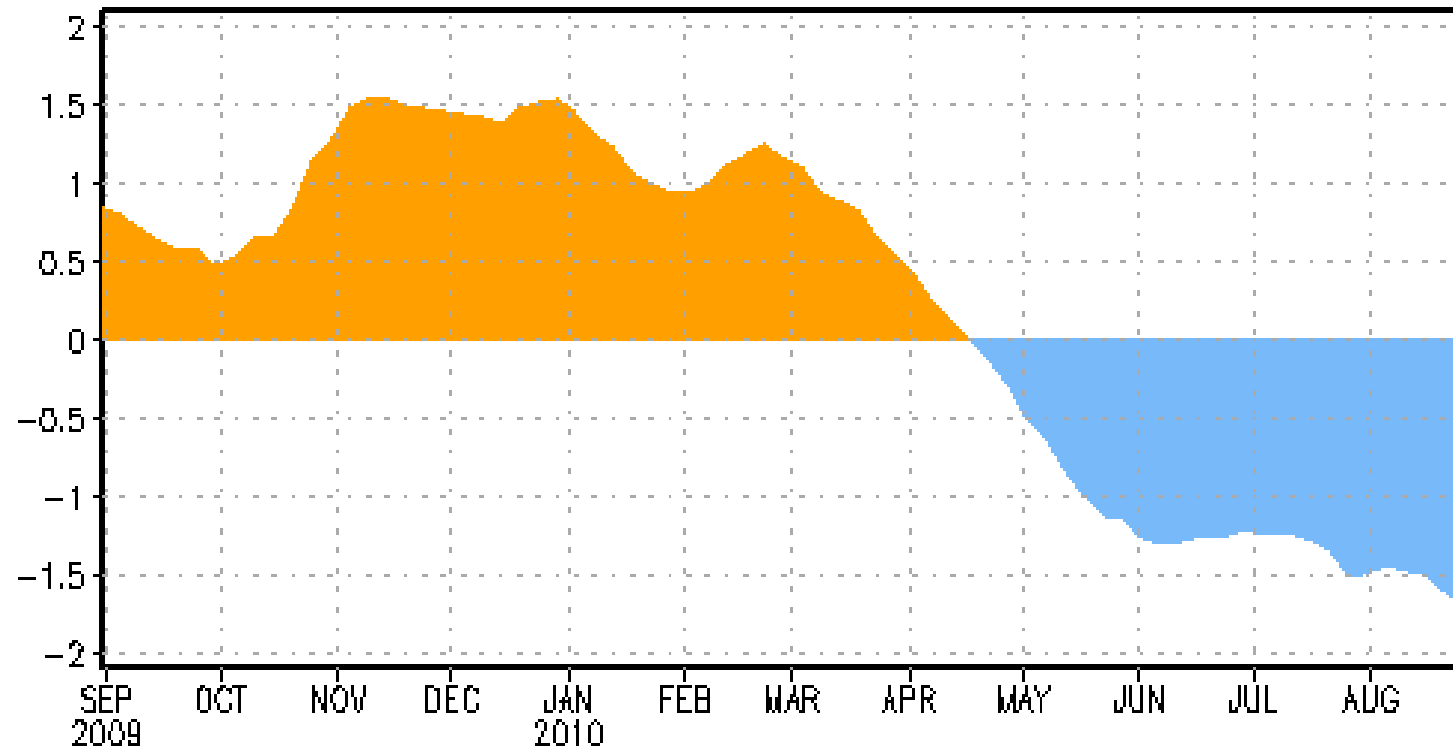
# SST Departures ( $^{\circ}\text{C}$ ) in the Tropical Pacific During the Last 4 Weeks

During the last 4-weeks, SSTs were at least  $1.0^{\circ}\text{C}$  below-average between  $170^{\circ}\text{E}$  and the South American coast and more than  $2.0^{\circ}\text{C}$  below-average across small regions east of the International Date Line.



# Weekly Central & Eastern Pacific Upper-Ocean (0-300 m) Average Temperature Anomalies

**Equatorial upper-ocean temperature anomalies ( $^{\circ}\text{C}$ ) 180-100 $^{\circ}\text{W}$**



**The upper-ocean temperature anomalies increased sharply during October 2009 in association with the strengthening of El Niño. The anomalies decreased beginning in late February 2010 becoming negative in late April. The large negative anomalies since June 2010 are consistent with the development and strengthening of La Niña.**

# Pacific Niño 3.4 SST Outlook

- All models indicate that La Niña (Niño-3.4 SST anomalies  $-0.5^{\circ}\text{C}$  or less) will persist at least through the Northern Hemisphere winter 2010-11. Many models forecast La Niña will strengthen during the next few seasons.

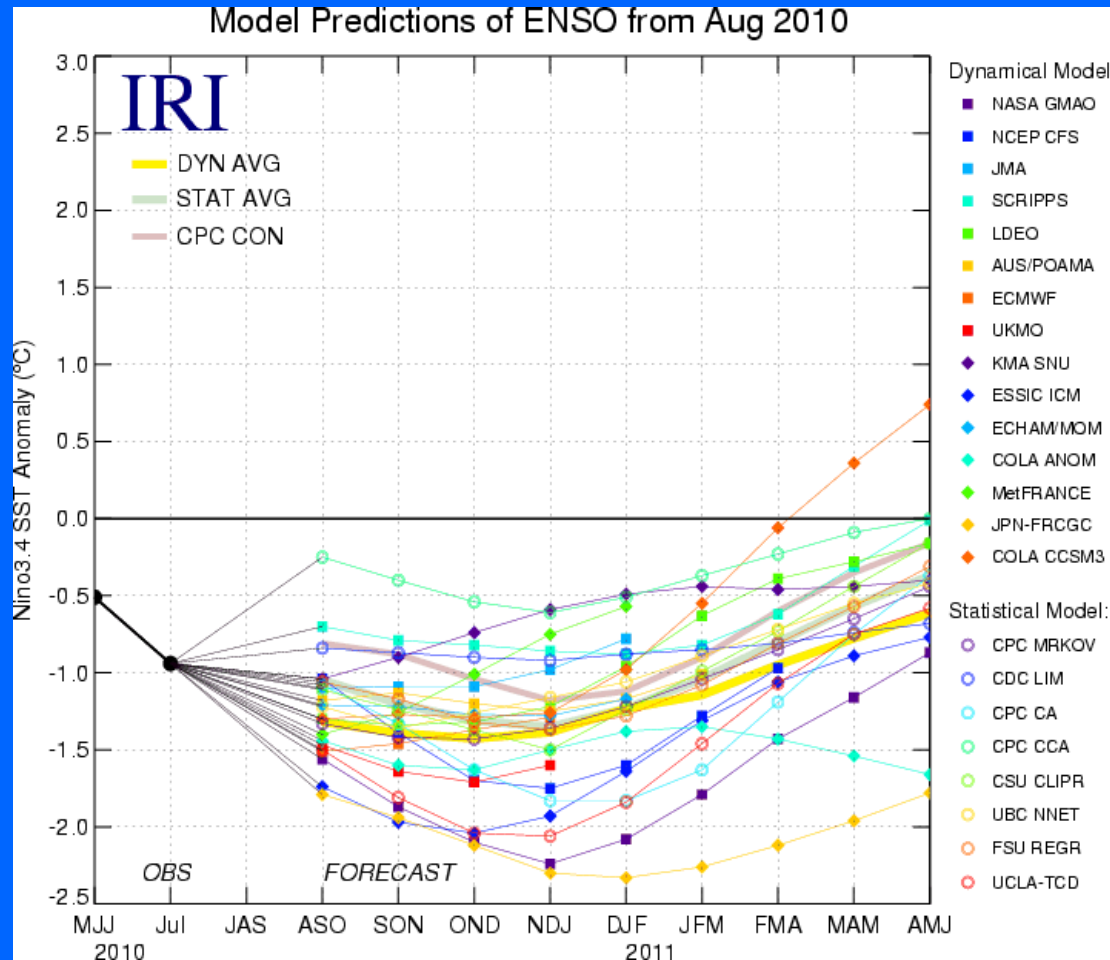
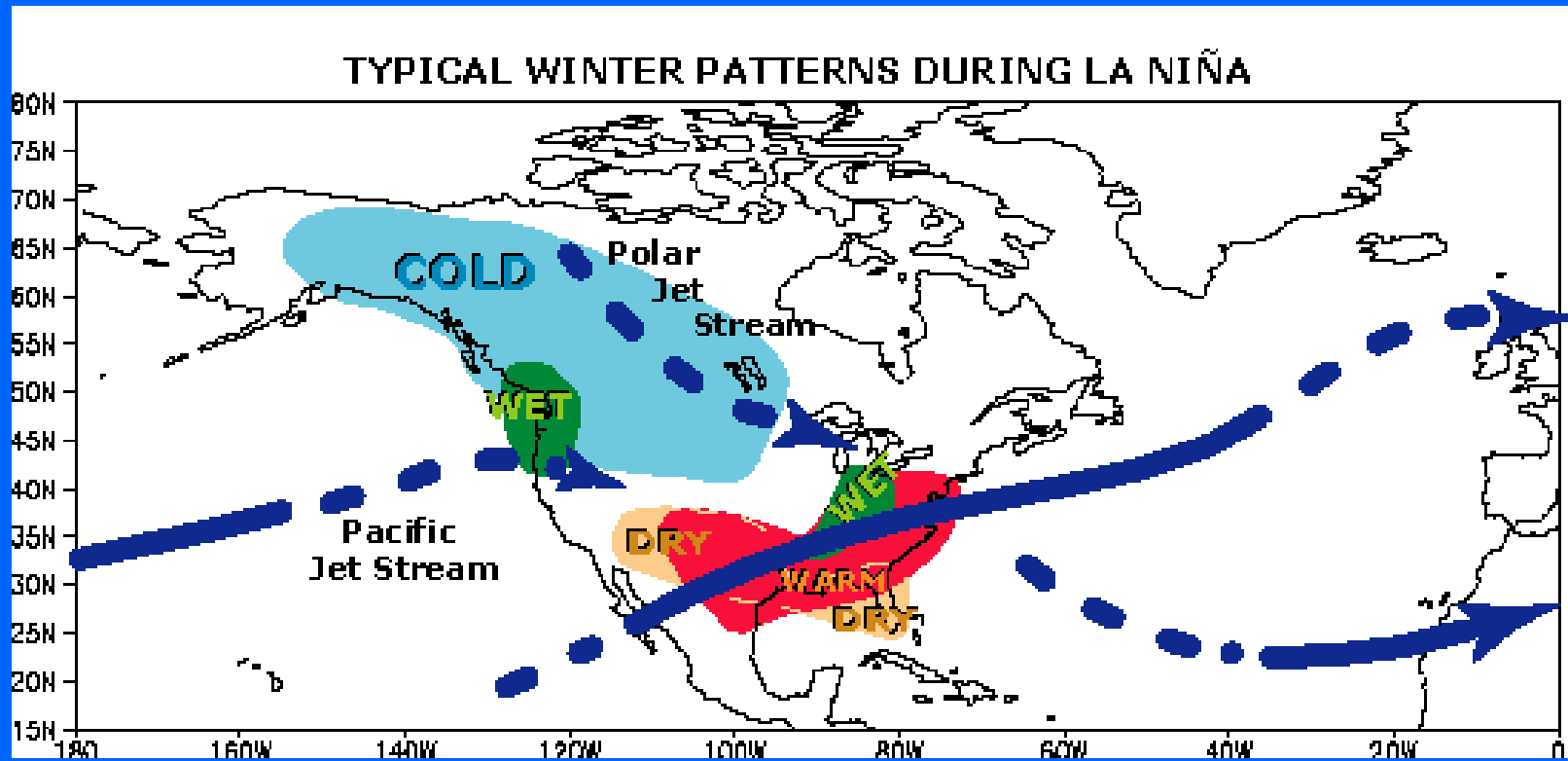


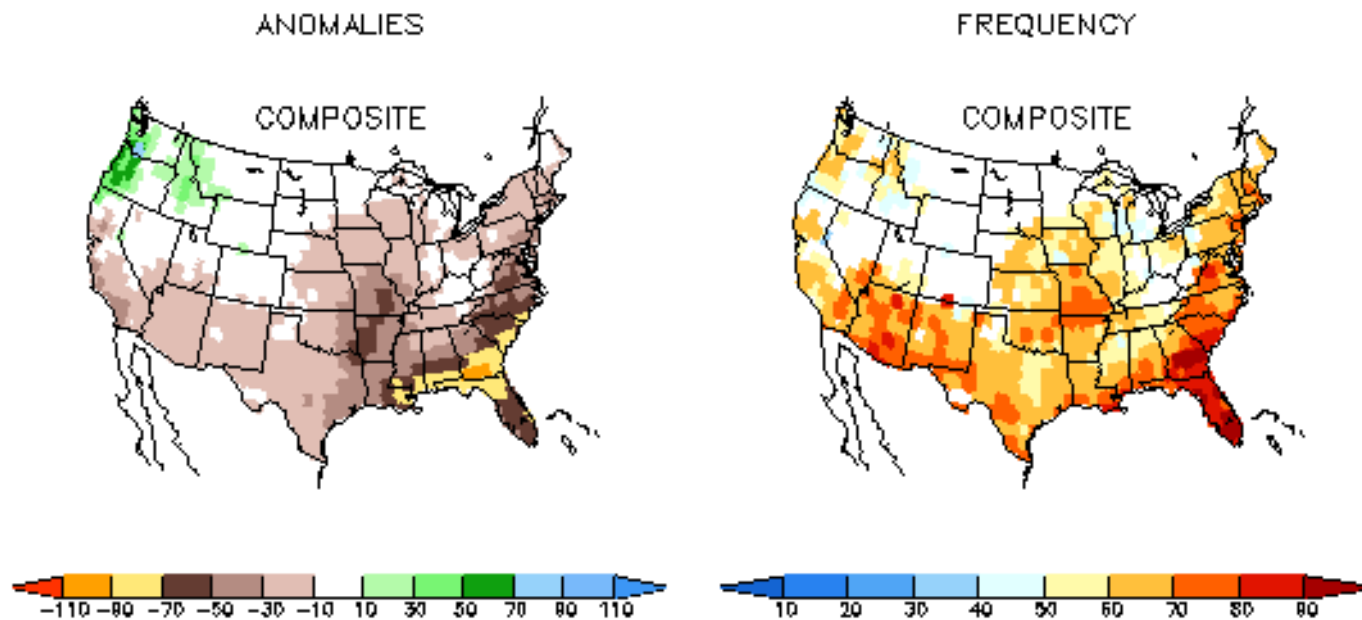
Figure provided by the International Research Institute (IRI) for Climate and Society (updated 18 August 2010).

# Typical US Temperature, Precipitation and Jet Stream Patterns during La Niña Winters



# U.S. Precipitation Departures (mm) and Frequency of Occurrence (%) for La Niña during Nov.-Jan.

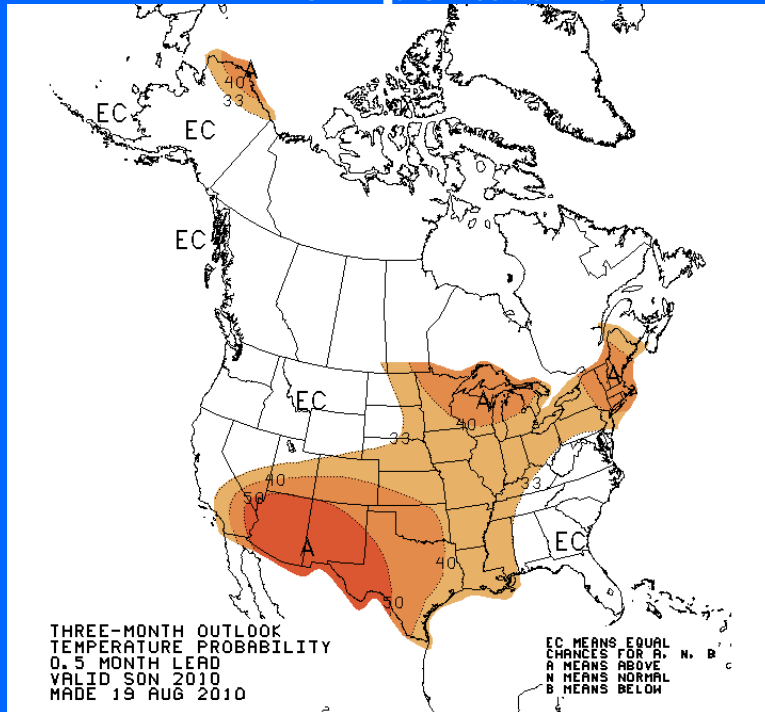
NDJ LA NINA PRECIPITATION ANOMALIES (MM)  
AND FREQUENCY OF OCCURRENCE (%)



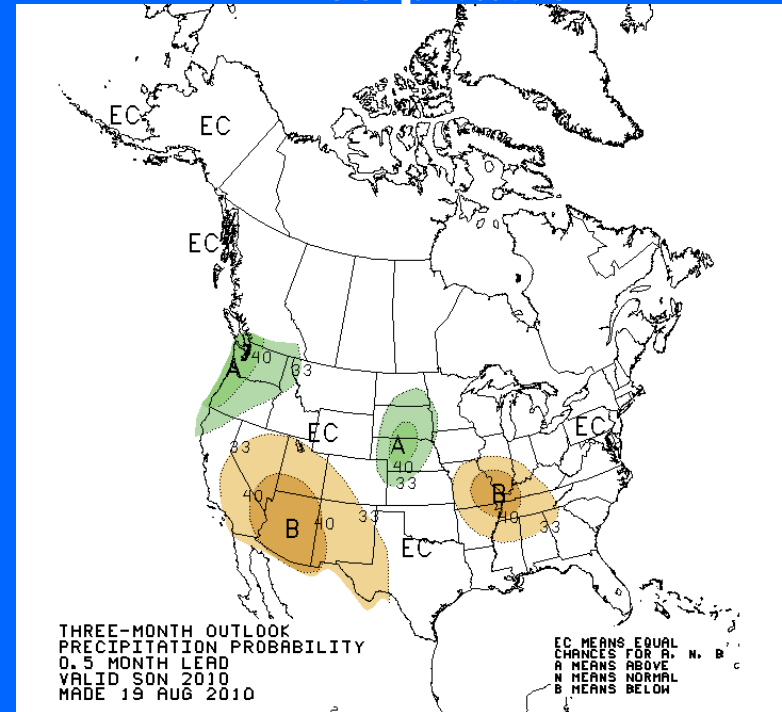
(19 CASES: 1950 1954 1955 1956 1962 1964 1967 1970 1971 1973 1974 1975 1984 1988 1995  
1998 1999 2000 2007)

# U. S. Seasonal Outlooks September-November 2010

## Temperature



## Precipitation



The seasonal outlooks combine the effects of long-term trends, soil moisture, and, when appropriate, the ENSO cycle.