



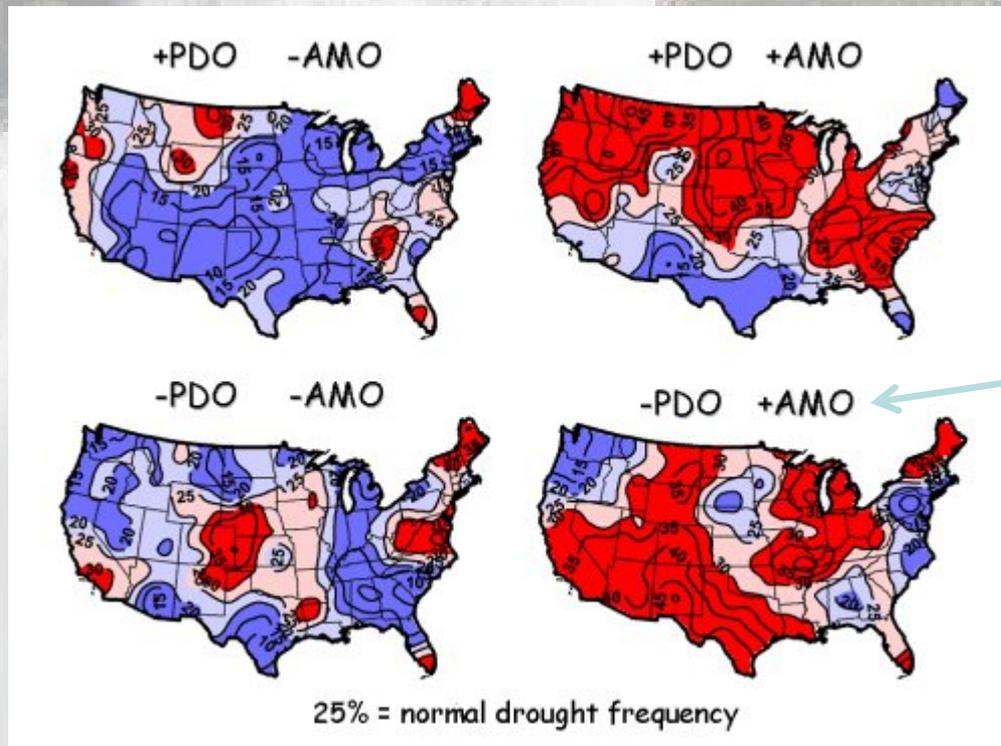
Water Year Outlook

Long Range Weather Forecast

- Use a combination of long term predictors
 - Phase of **Pacific Decadal Oscillation (PDO)**
 - Phase of **Atlantic Multi-Decadal Oscillation (AMO)**
- And seasonal predictors
 - ENSO
 - El Nino
 - La Nina
 - North Pacific sea surface temperature anomalies
 - Anomaly-difference from the mean
- Analog years
 - Years with similar weather patterns as the upcoming year

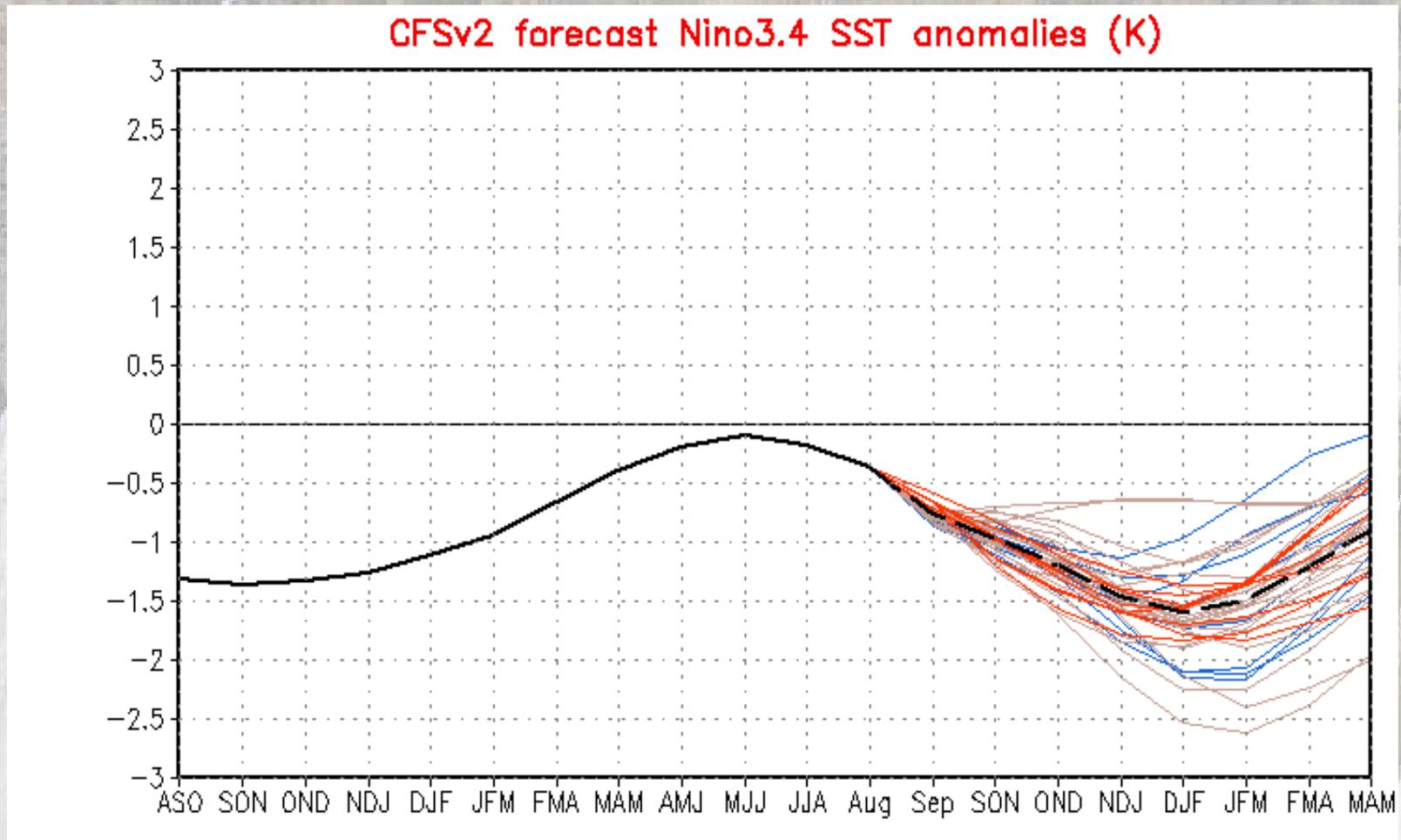
Long Term Predictors

- PDO is in cold phase
- AMO is in warm Phase
- Climatological precipitation patterns as a function of PDO and AMO Phases are below

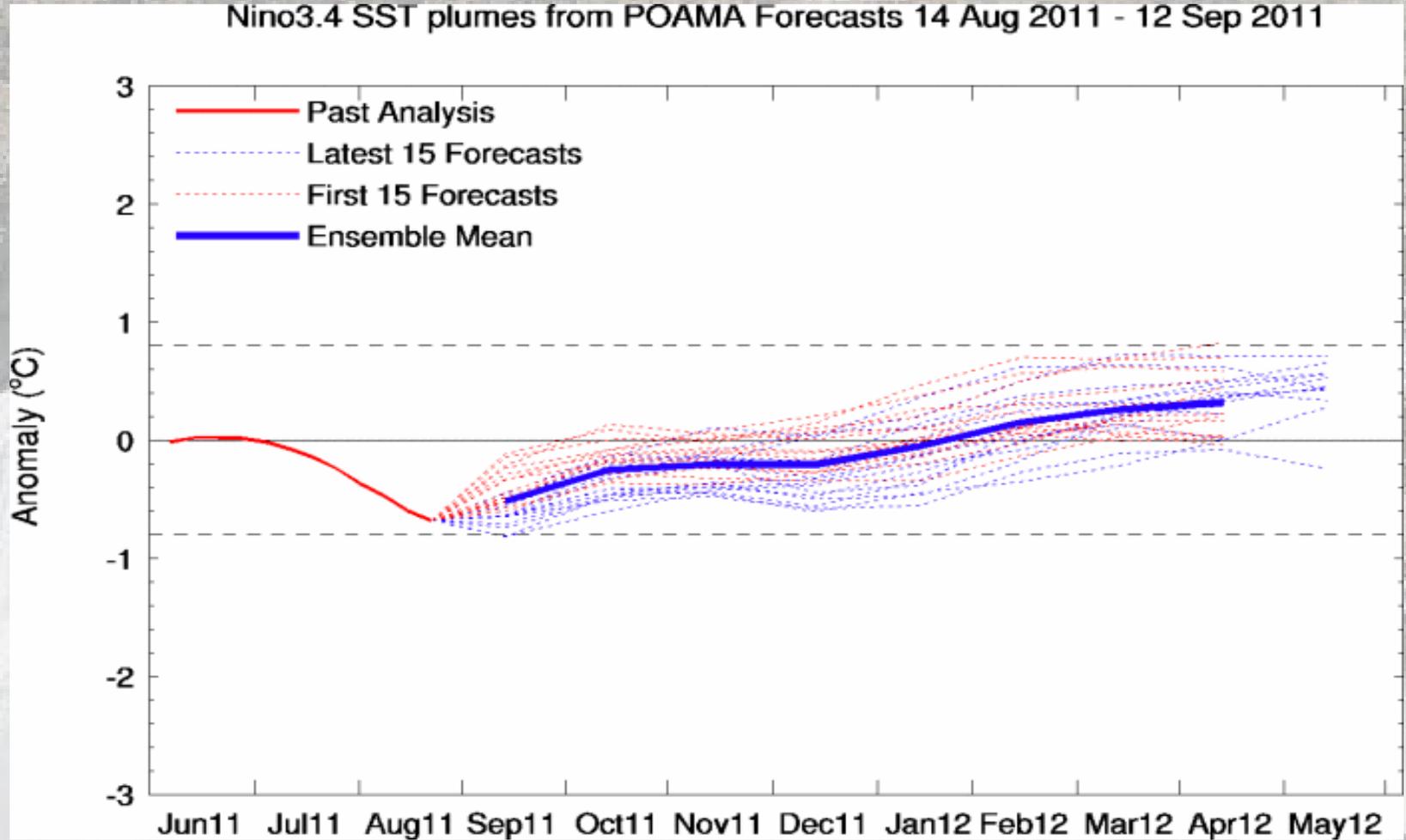


This is the present status

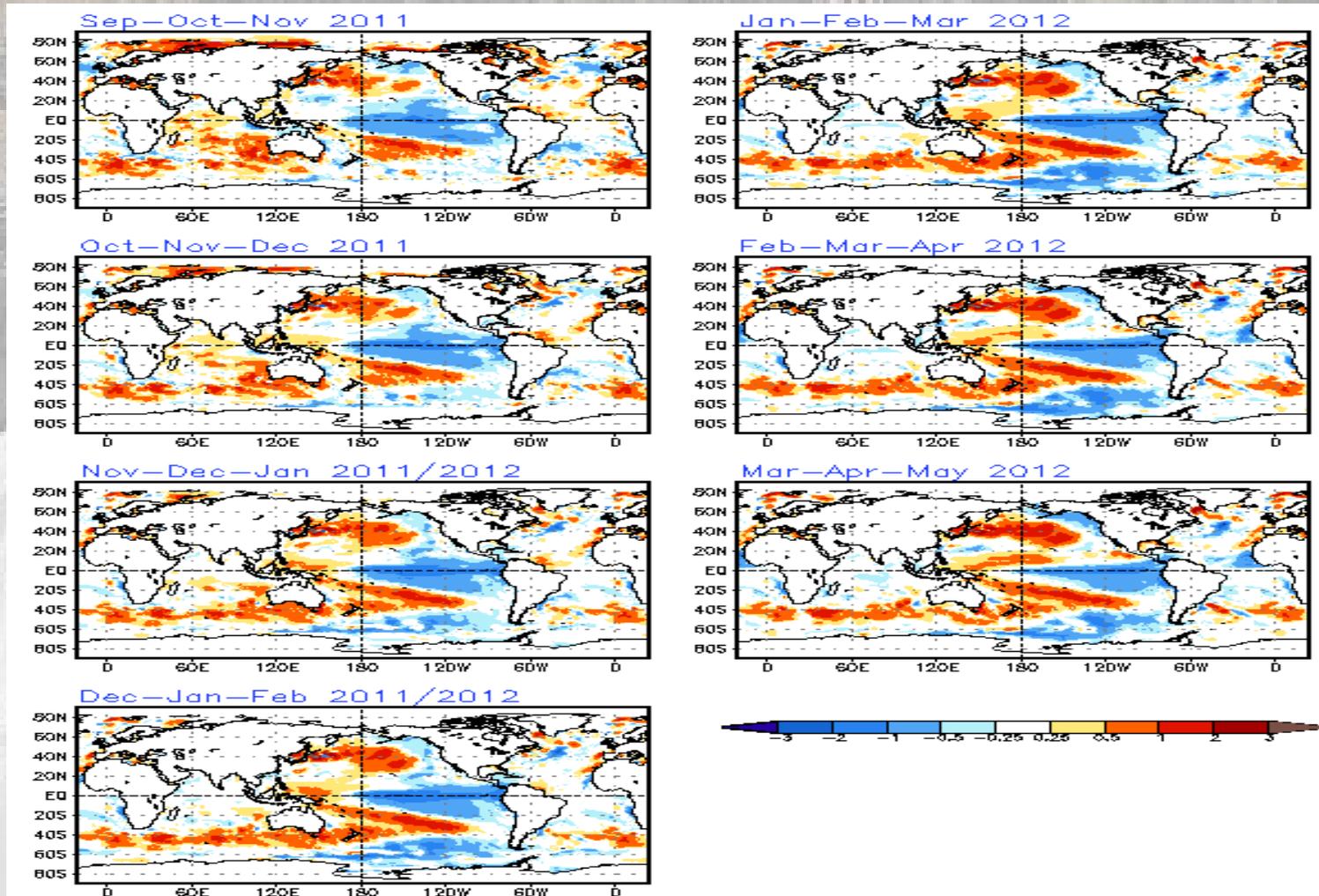
ENSO Forecast



ENSO Forecast

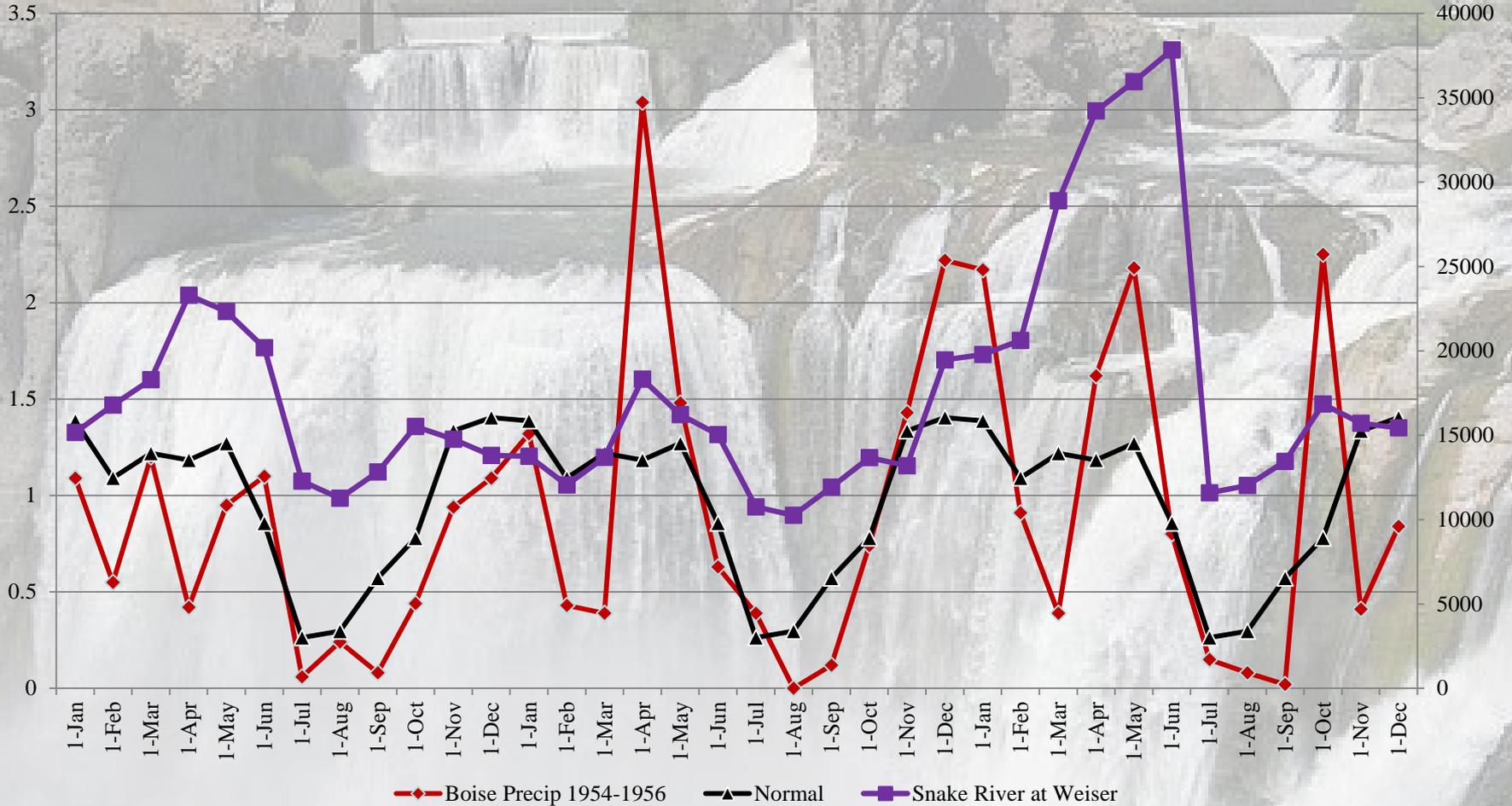


Pacific Sea Surface Temperature Anomaly Forecast



Analog Year...1955-1956?

Boise and Normal Precipitation (1954-1956) and Snake River Flows at Weiser



Fall and Winter Outlook



NOAA

NATIONAL OCEANIC AND
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UNITED STATES DEPARTMENT OF COMMERCE



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NOAA's Climate Prediction Center: La Niña is back

September 8, 2011

La Niña, which contributed to extreme weather around the globe during the first half of 2011, has re-emerged in the tropical Pacific Ocean and is forecast to gradually strengthen and continue into winter. Today, forecasters with NOAA's Climate Prediction Center upgraded last month's La Niña Watch to a La Niña Advisory.

NOAA will issue its official winter outlook in mid-October, but La Niña winters often see drier than normal conditions across the southern tier of the United States and wetter than normal conditions in the Pacific Northwest and Ohio Valley.

"This means drought is likely to continue in the drought-stricken states of Texas, Oklahoma and New Mexico," said Mike Halpert, deputy director of the Climate Prediction Center. "La Niña also often brings colder winters to the Pacific Northwest and the northern Plains, and warmer temperatures to the southern states."



Dry lake bed.

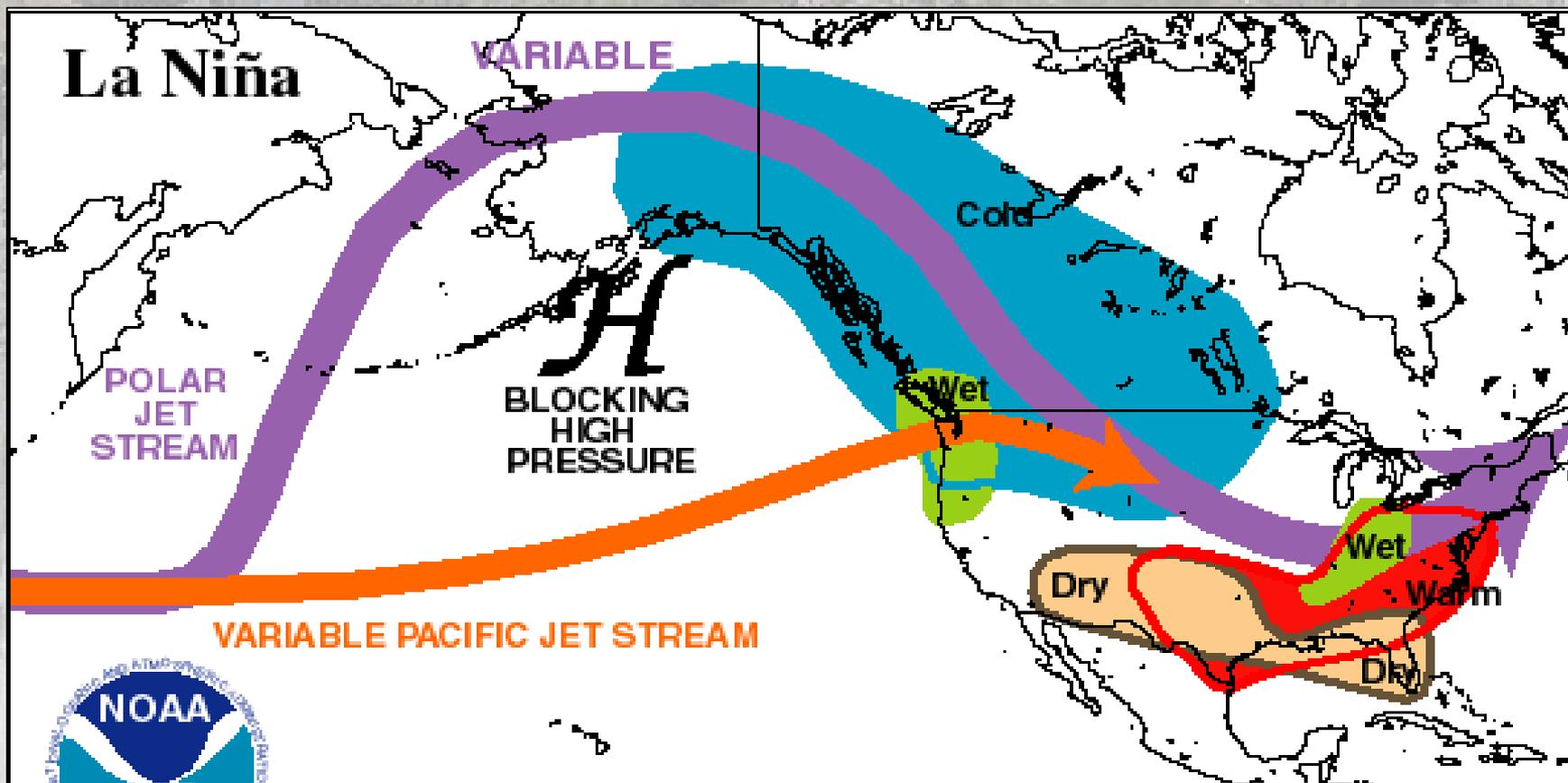
[Download here.](#) (Credit: NOAA)

Fall and Winter Outlook

- La Niña conditions are present across the equatorial Pacific.
- Sea surface temperature (SST) anomalies have become increasingly negative in the east-central equatorial Pacific Ocean during the last several weeks.
- Atmospheric circulation anomalies are consistent with La Niña.
- La Niña is expected to strengthen and continue into the Northern Hemisphere winter 2011-12.

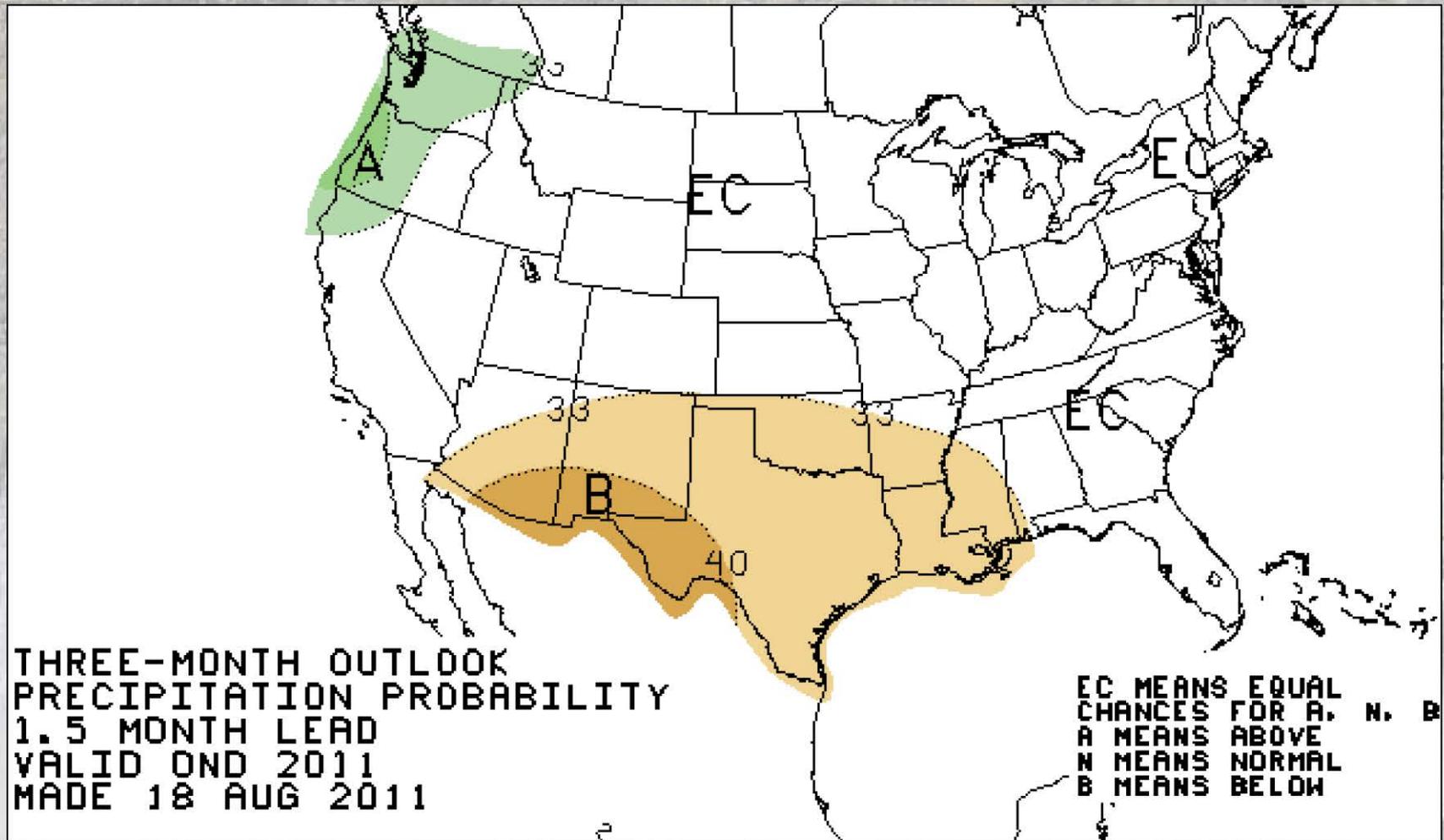
Fall and Winter Outlook

January - March anomalies and patterns during moderate to strong La Niña



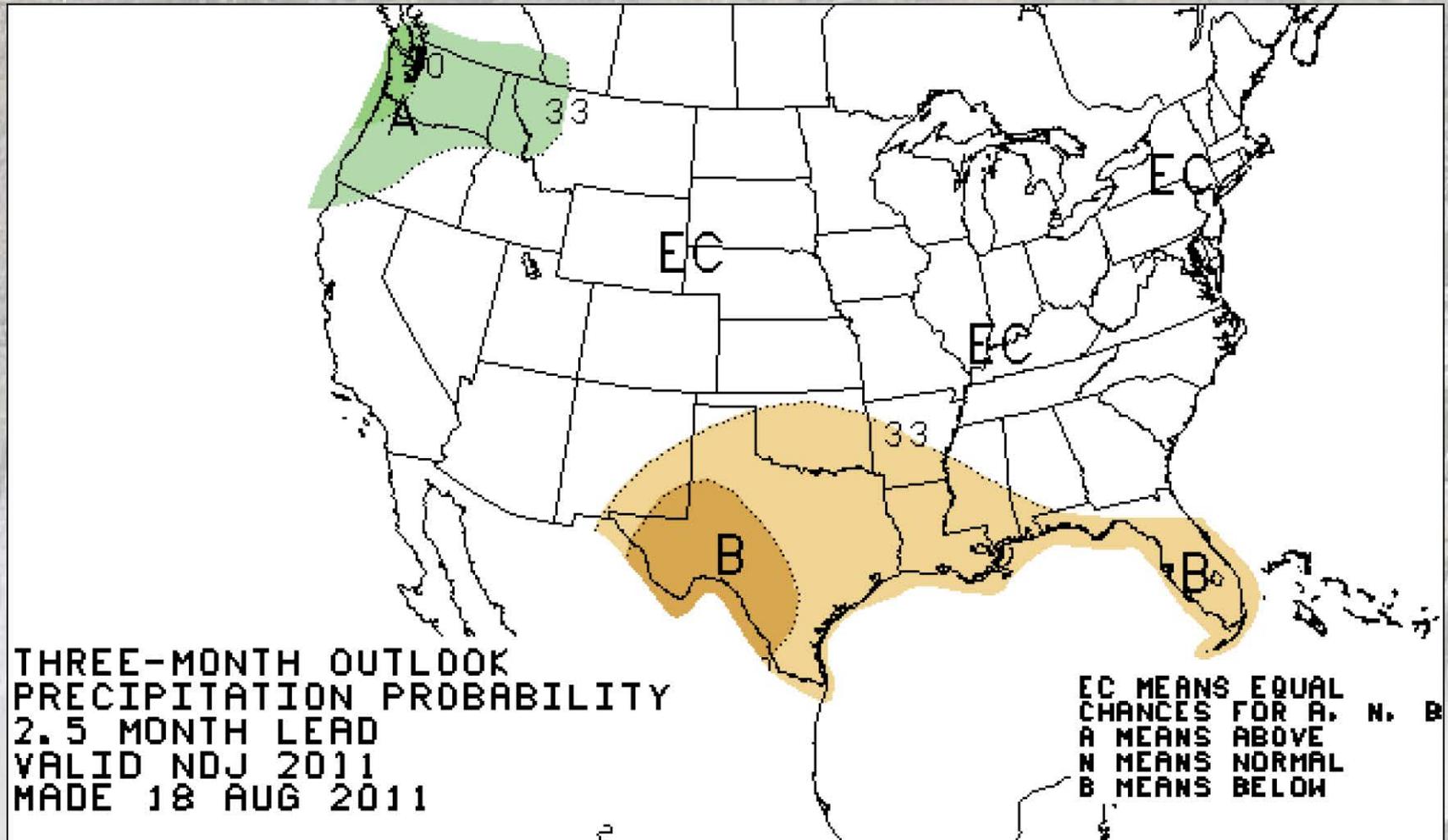
Climate Prediction Center/NCEP/NWS

Fall and Winter Outlook



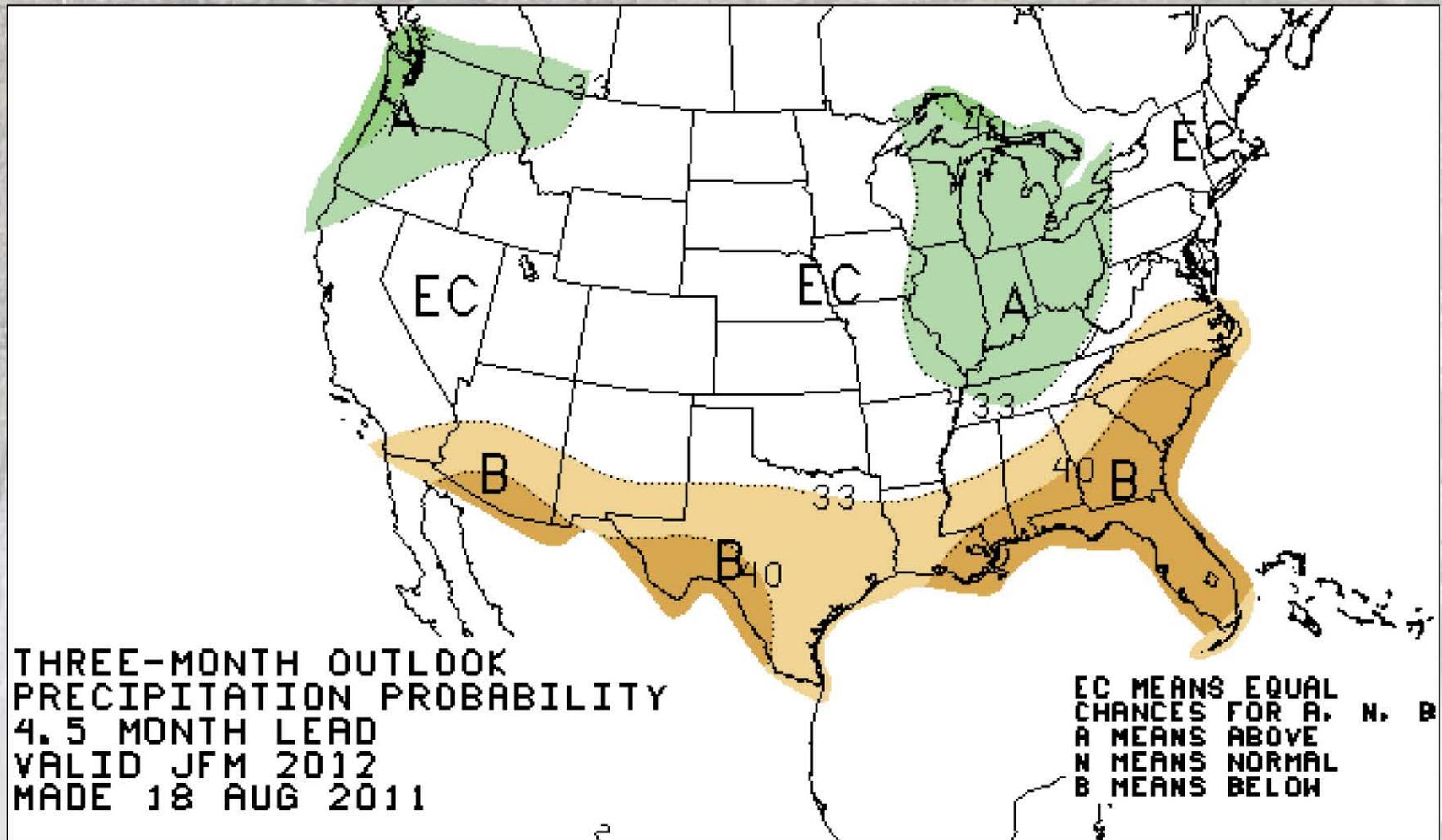
<http://www.cpc.ncep.noaa.gov/>

Fall and Winter Outlook



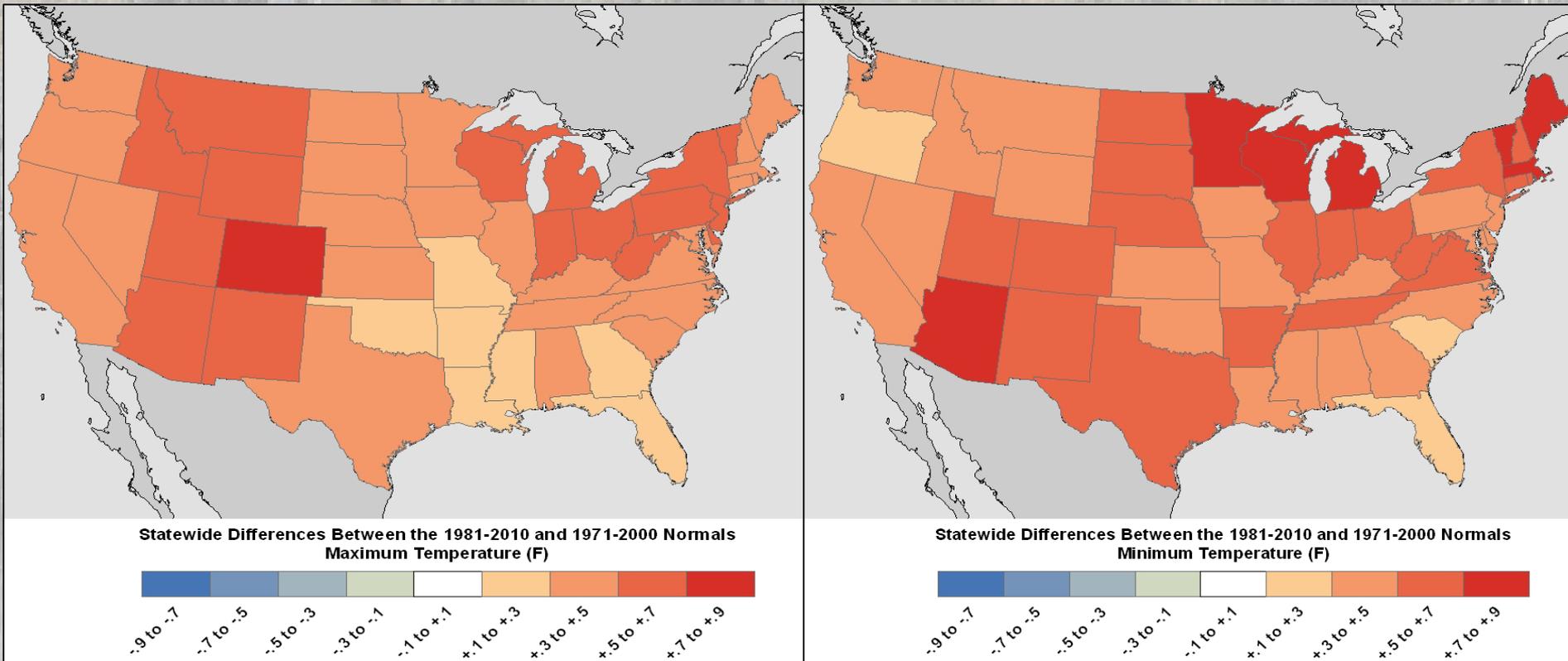
<http://www.cpc.ncep.noaa.gov/>

Fall and Winter Outlook



<http://www.cpc.ncep.noaa.gov/>

New 30 Year Averages (1981-2010)



In Idaho, normal temperatures increased about 0.6 degree F for the max temperatures and about 0.3 degree F on the min temperatures.

Boise 2011 Water Year

