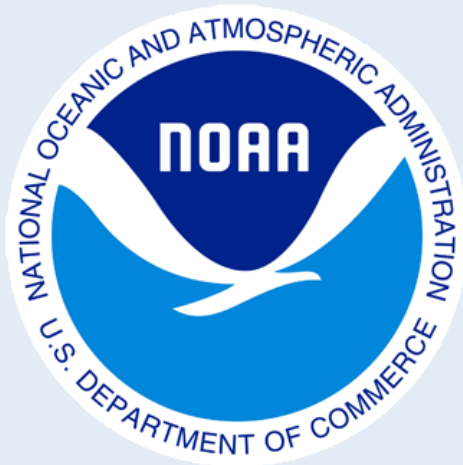


NOAA Climate Outlook

Seasonal Precipitation Outlook

El Nino, and a look towards the next 2-6 weeks

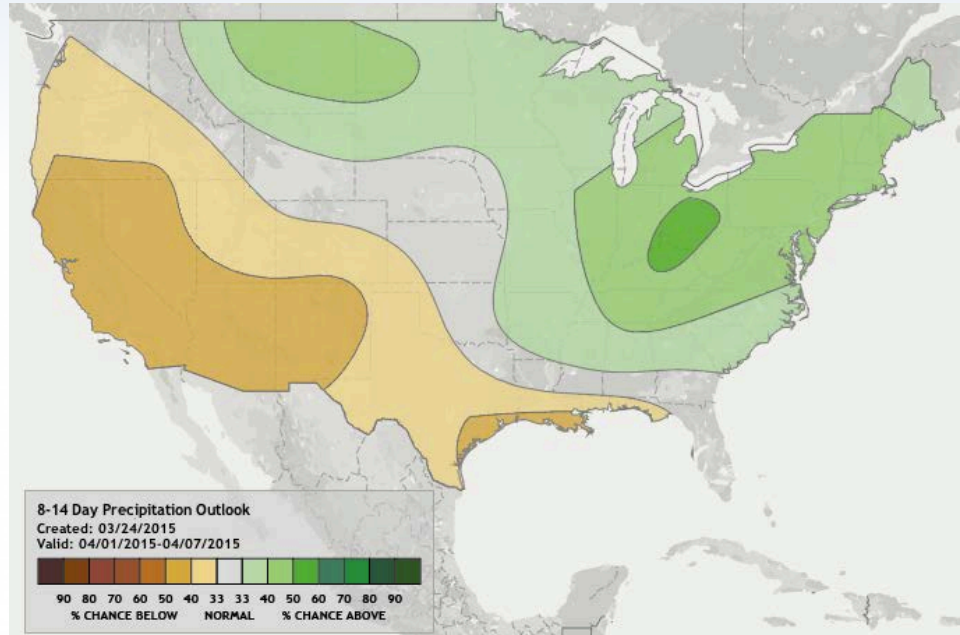
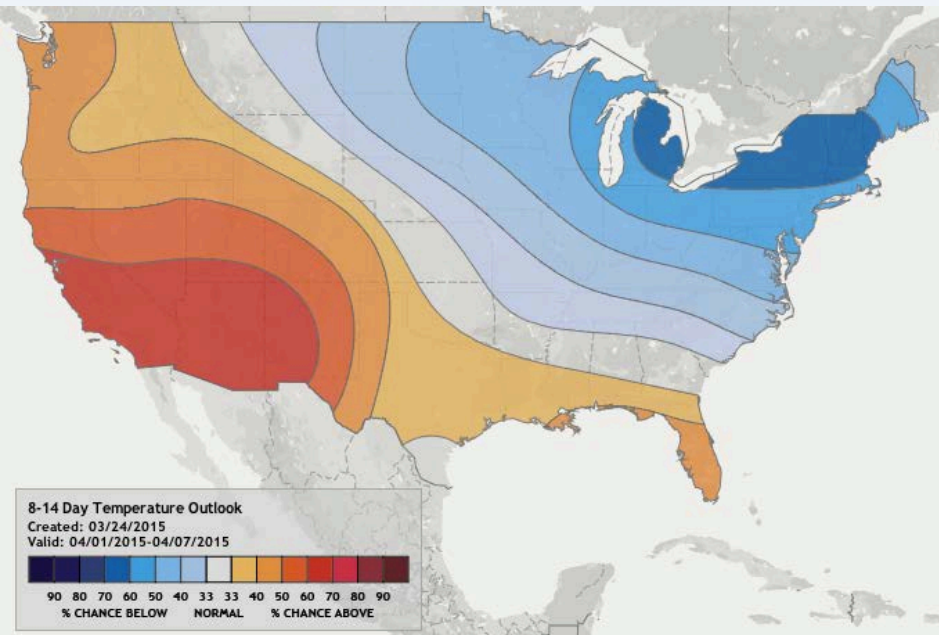


Dr. Dan Collins
Meteorologist and Forecaster
NOAA's Climate Prediction Center

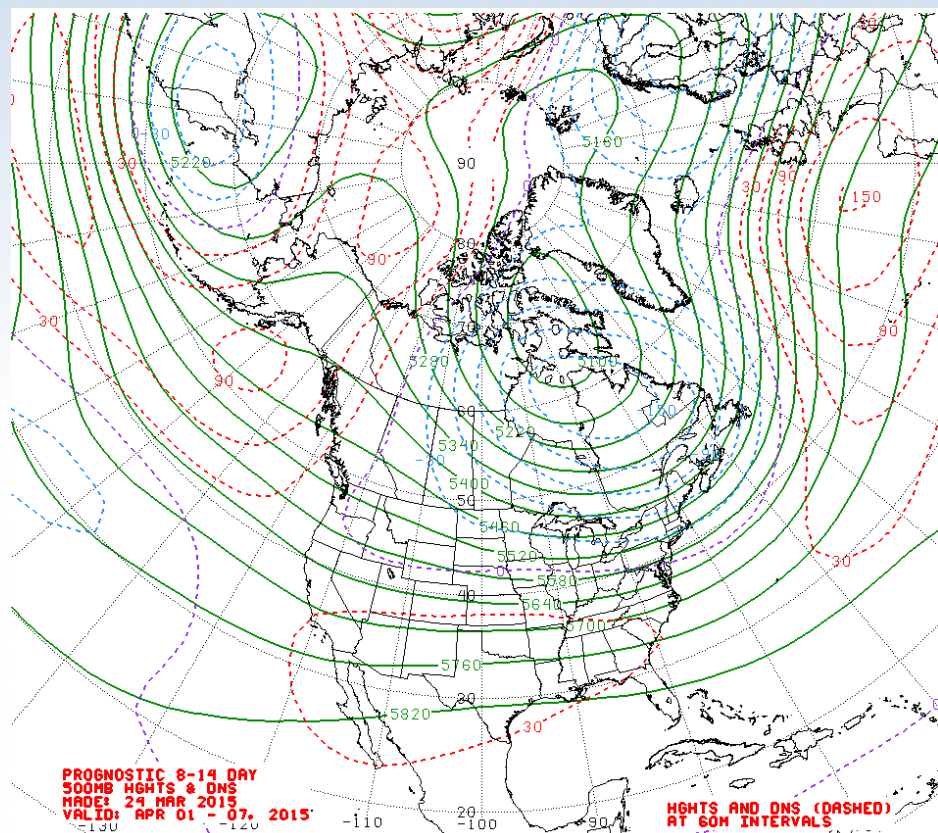
Forecast out to two weeks (April 1st through April 7th)

Probability of temperature to be significantly above (red shading) or below (blue shading) average

Probability of precipitation to be significantly above (green shading) or below (brown shading) average



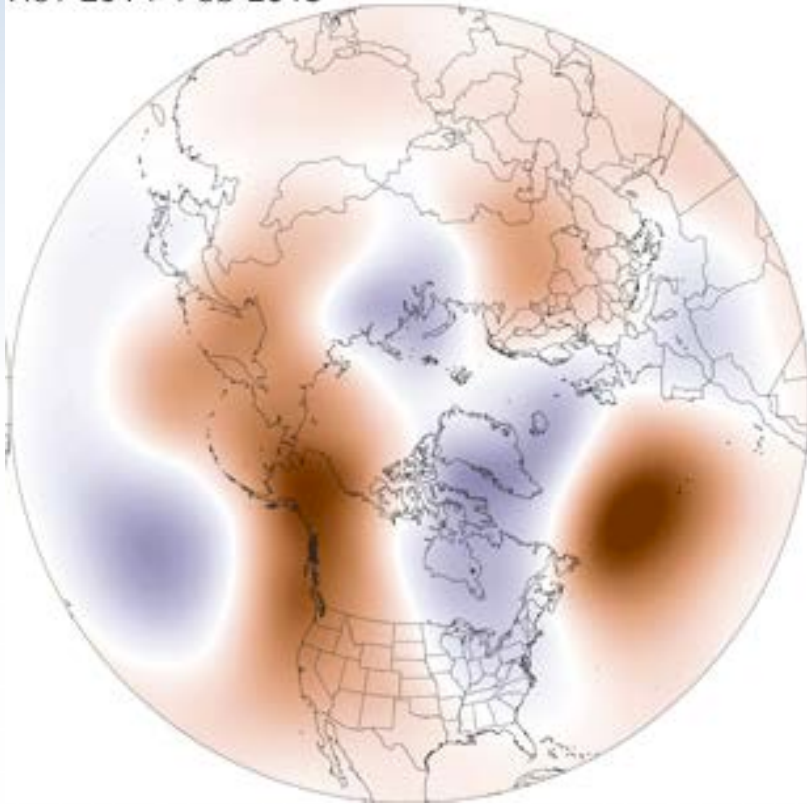
Forecast Atmospheric Circulation out two weeks (1st week in April)



- Atmospheric Circulation
 - Continuing ridge of high atmospheric pressure over North Pacific
 - Mean trough over northeastern U.S. with Arctic air flowing into Northeast
 - Ridge of high pressure over Atlantic associated with positive North Atlantic Oscillation (NAO)

Observed Atmospheric Circulation

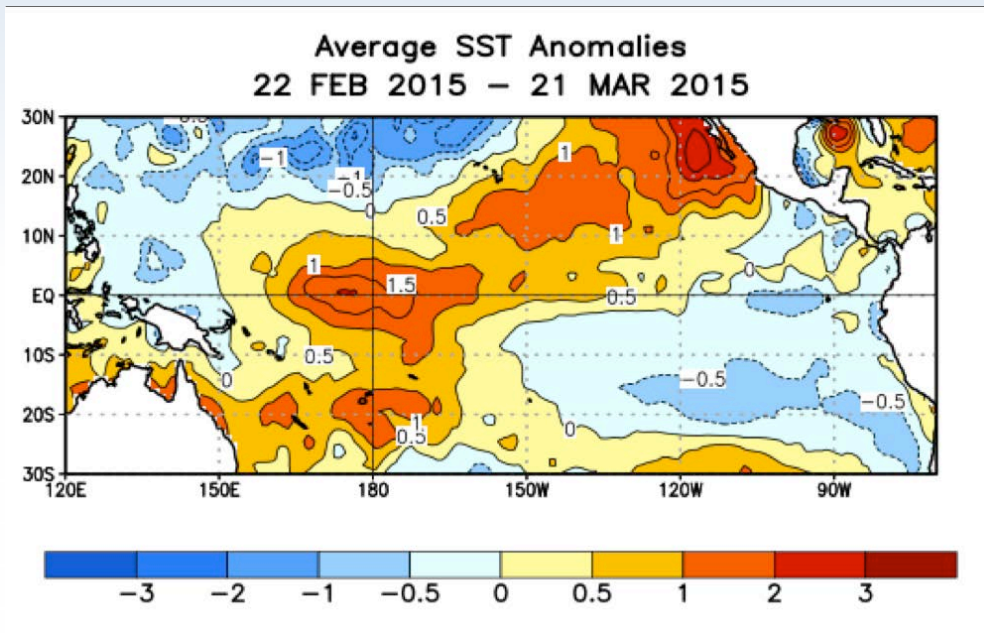
Nov 2014–Feb 2015



- Atmospheric Circulation
 - Persistent mean ridge of high atmospheric pressure over North Pacific
 - Mean trough over eastern U.S. with Arctic air flowing south
 - Ridge of high pressure over Atlantic associated with positive North Atlantic Oscillation (NAO)
 - Average circulation pattern forecast to continue into spring
 - Variable but recurring circulation pattern in model forecasts related to Pacific sea surface temperatures

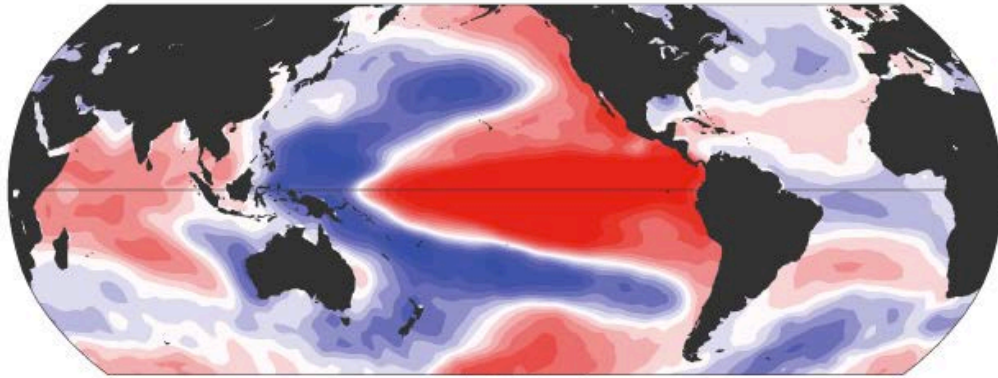
Observed Sea Surface Temperatures

- El Niño Advisory
 - Positive sea surface temperature (SST) anomalies present across the central Pacific
 - Near-to-below average SST is observed in the eastern Pacific.
 - Above average SST along the west coast of North America continues.
 - Peak warming to the west of classical El Niño pattern

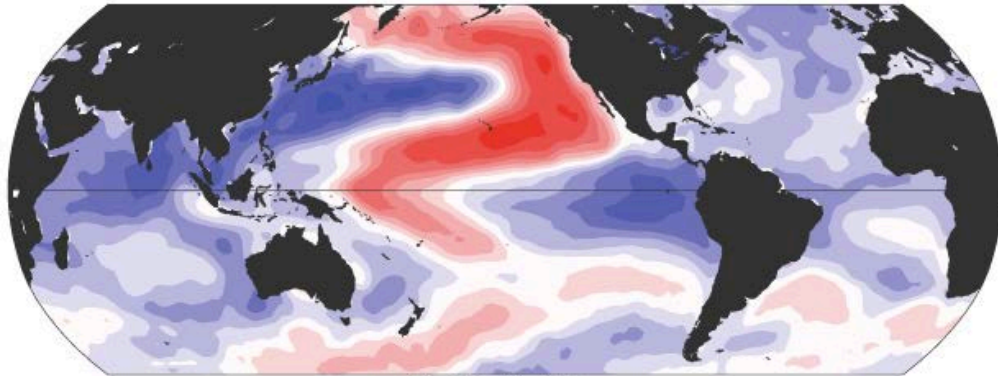


North Pacific Sea Surface Temperatures

Sea surface temperature anomaly patterns



Classic ENSO signal



North Pacific Mode

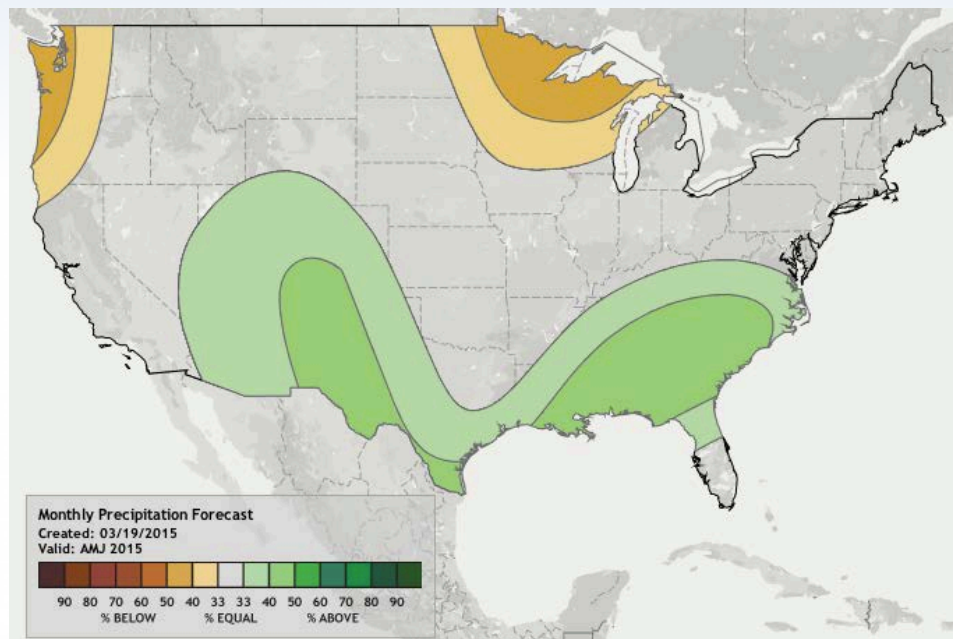
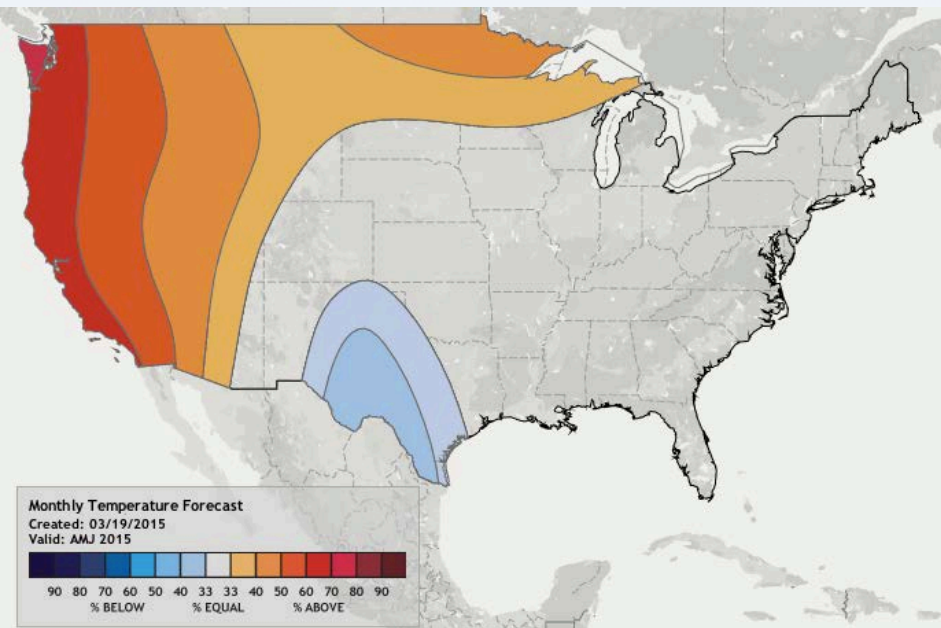
NOAA Climate.gov

- El Nino – Southern Oscillation
 - Positive sea surface temperature (SST) anomalies across the eastern Pacific extending to South American coast
- North Pacific Mode
 - Positive sea surface temperature (SST) anomalies across the central Pacific extending along North American coast into North Pacific

Spring Precipitation Outlook (April through June 2015)

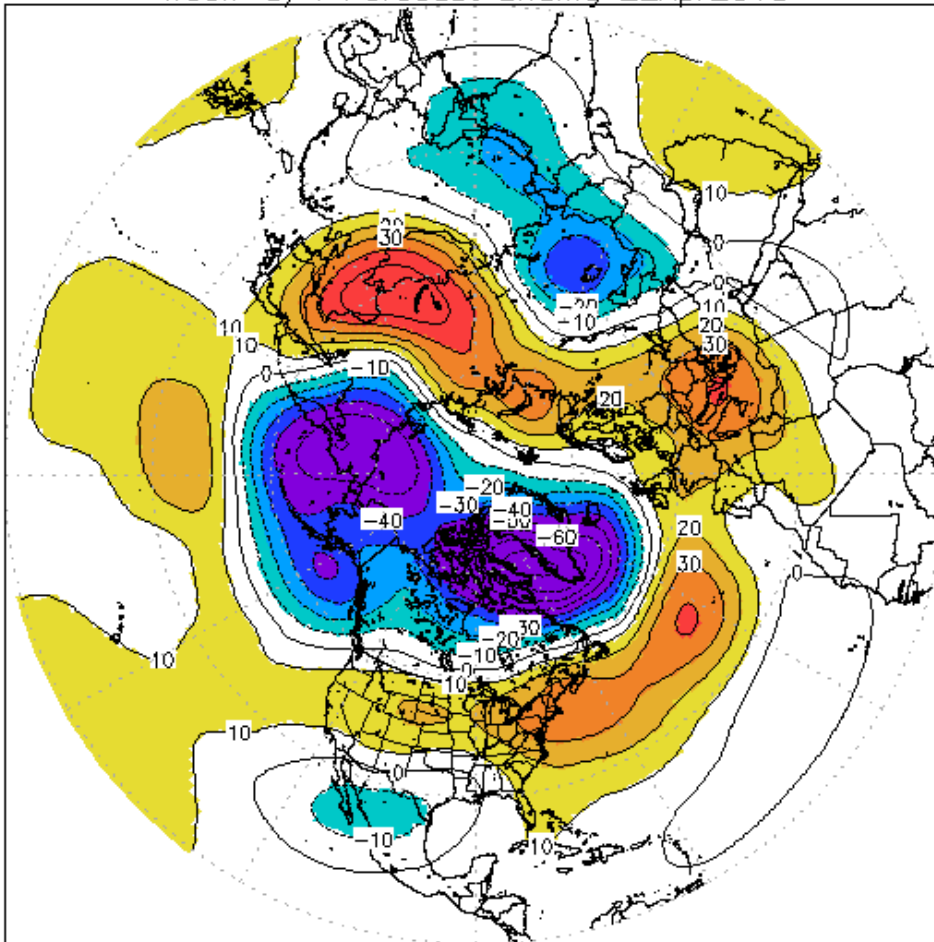
Probability of temperature to be significantly above (red shading) or below (blue shading) average

Probability of precipitation to be significantly above (green shading) or below (brown shading) average



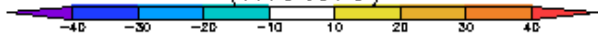
Climate Model Forecasts for two to four weeks out (through April 22)

CFSv2 500hPa Height Anomalies Issued 24Mar2015
Week-3/4 Forecast Ending 22Apr2015



NOAA Climate Forecast System

(meters)



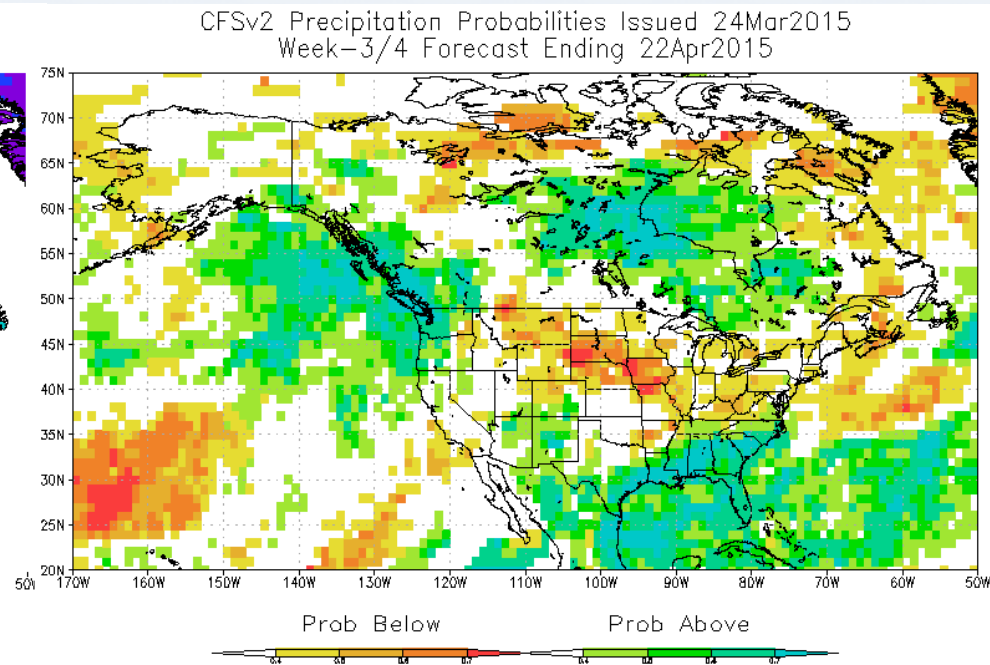
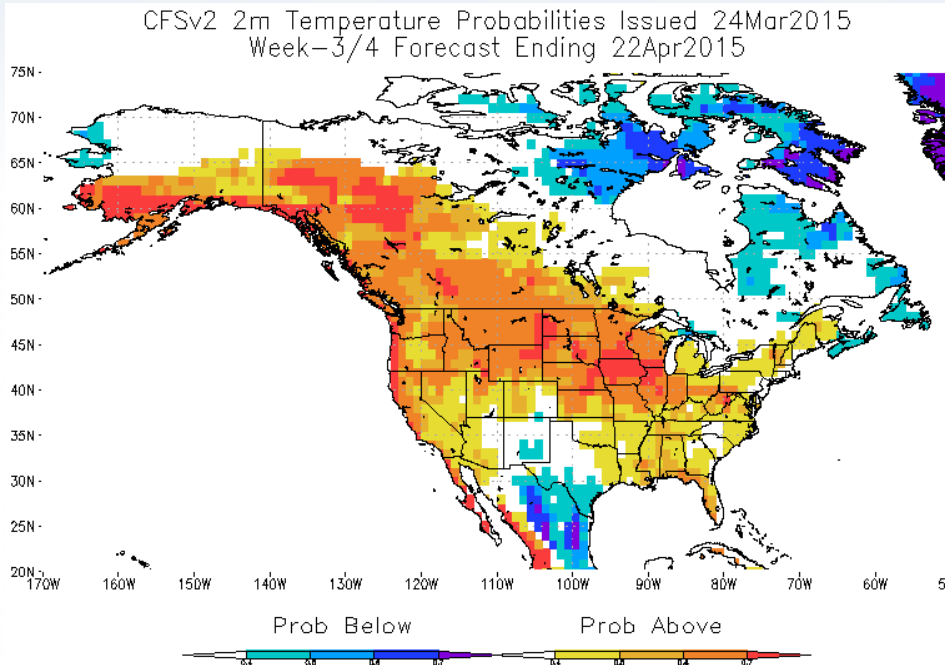
March 25 2015 | NOAA Climate Prediction Center



Climate Model Forecasts for two to four weeks out (through April 22)

Probability of temperature to be significantly above (red shading) or below (blue shading) average

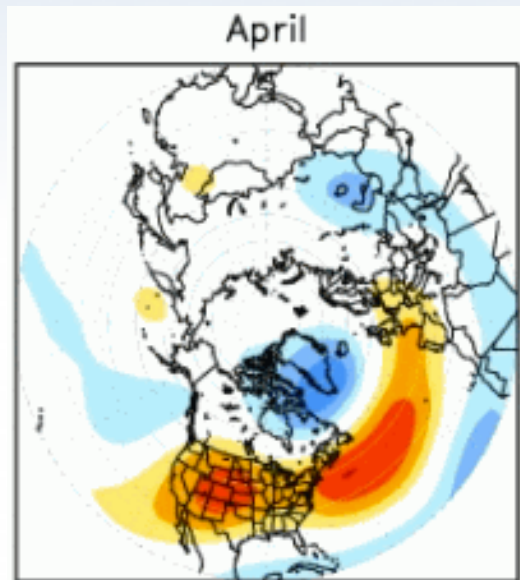
Probability of precipitation to be significantly above (green shading) or below (brown shading) average



NOAA Climate Forecast System



North Atlantic Oscillation (NAO)

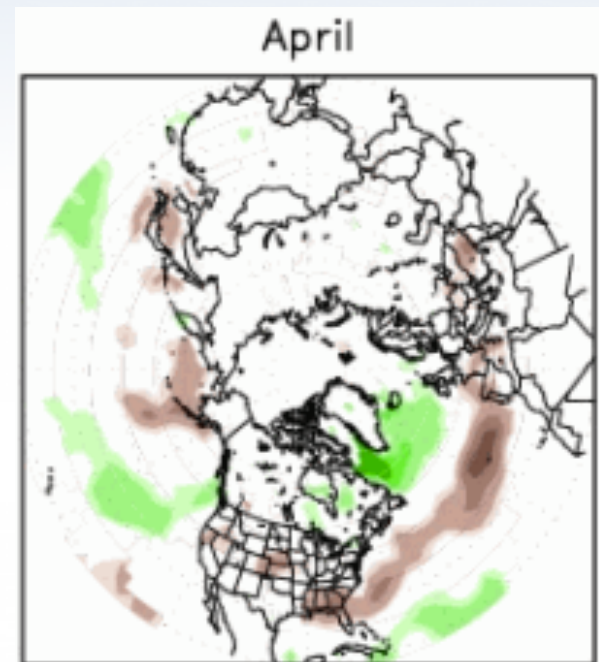
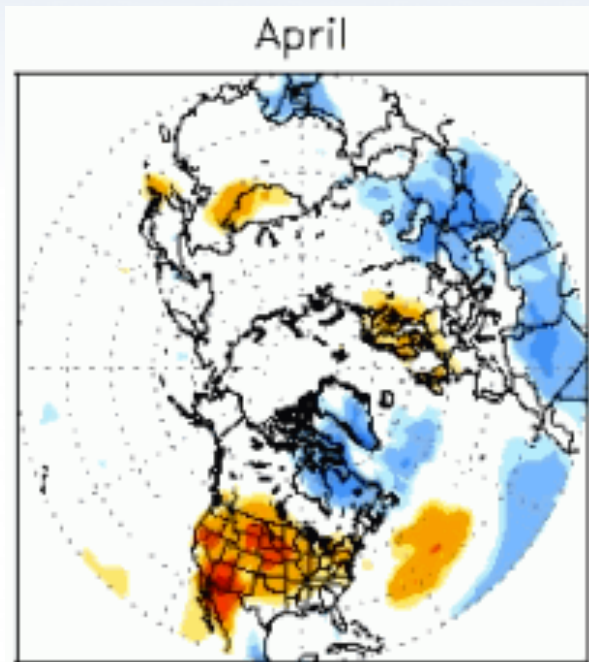


Positive Phase of NAO for April corresponds to model forecasts

North Atlantic Oscillation (NAO)

Correlation of temperature
to NAO index

Correlation of precipitation
to NAO index



Thank you

