

Pacific Decadal Oscillation

in the US

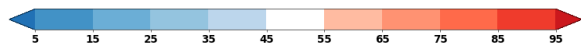
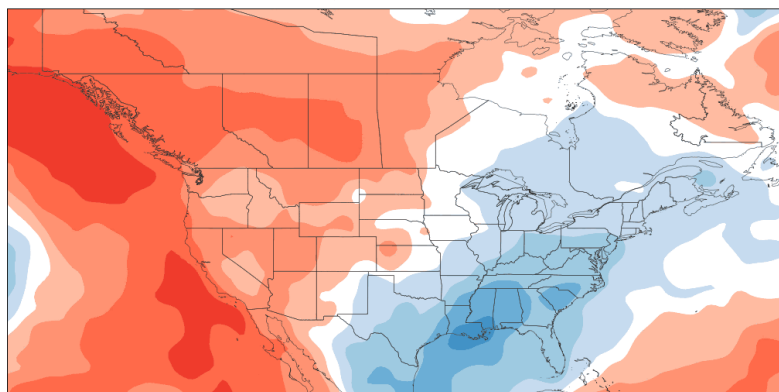


Positive Phase - Winter

Above-normal sea surface temperature anomalies in the Northeastern Pacific Ocean

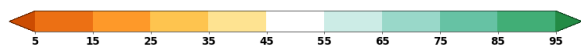
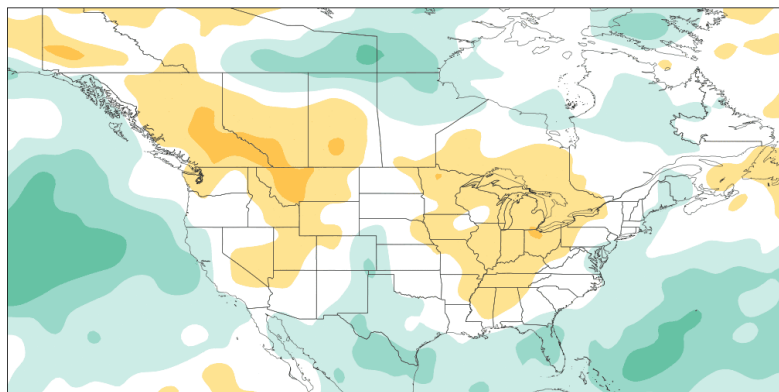
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1957 1958 1959 1960 1969 1976 1980 1982 1983 1984
1985 1986 1987 1993 1995 1997 2002 2014 2015 2016



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)

1957 1958 1959 1960 1969 1976 1980 1982 1983 1984
1985 1986 1987 1993 1995 1997 2002 2014 2015 2016



More Heat in the West

Less Heat in the East

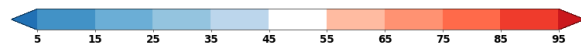
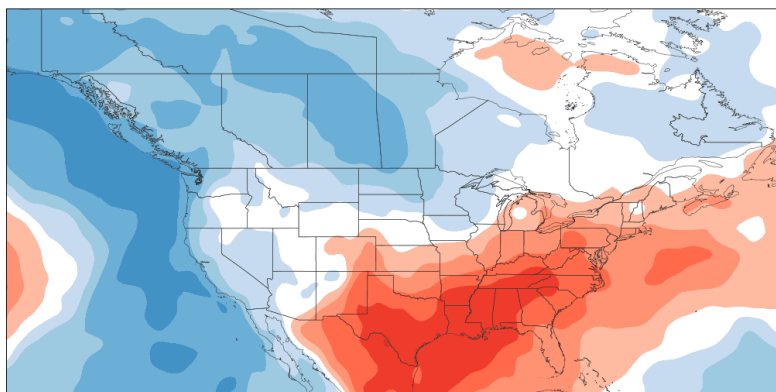
Less Rain in the Rockies & Midwest

Negative Phase - Winter

Below-normal sea surface temperature anomalies in the Northeastern Pacific Ocean

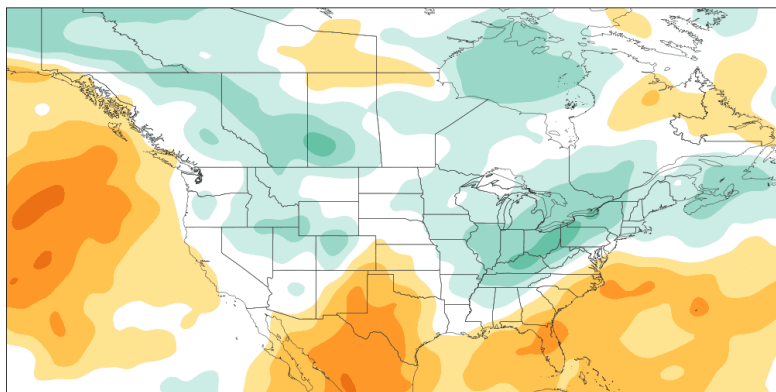
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1950 1951 1955 1956 1961 1964 1970 1971 1973 1975
1990 1999 2007 2008 2010 2011 2012 2021 2022 2023



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)

1950 1951 1955 1956 1961 1964 1970 1971 1973 1975
1990 1999 2007 2008 2010 2011 2012 2021 2022 2023



More Heat in the Southeast

Less Heat in the North & West

More Rain in the Rockies & Great Lakes

The PDO is only one factor in a complex system that influences the US climate. Long-range forecasts provided in the WCS Monthly Reports are the best guide to the season ahead.