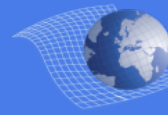


Pacific-North American Pattern

in the US



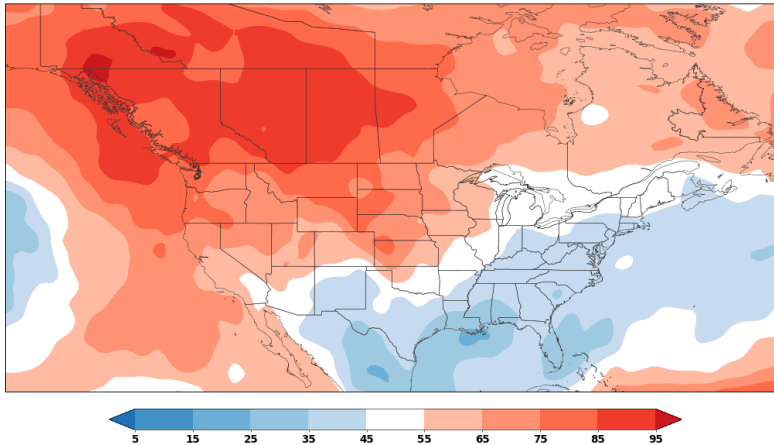
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Positive Phase - Winter

Low Pressure Over the Aleutians and Western Canada Ridging

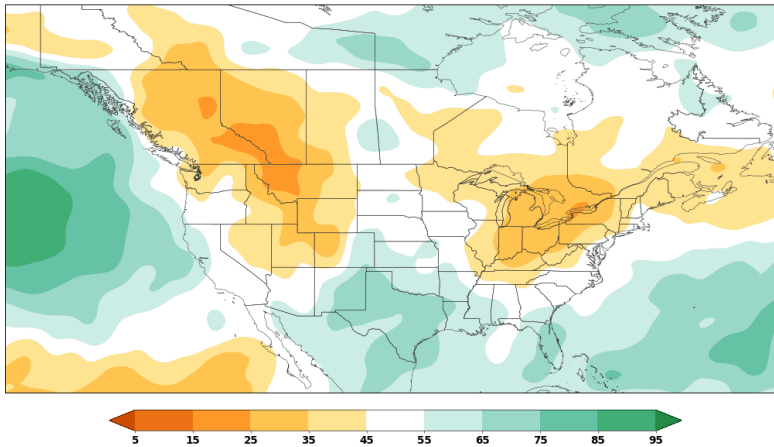
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1952 1960 1969 1976 1980 1982 1985 1986 1987 1994
1997 2000 2002 2003 2006 2009 2011 2014 2015 2023



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

1952 1960 1969 1976 1980 1982 1985 1986 1987 1994
1997 2000 2002 2003 2006 2009 2011 2014 2015 2023



More Heat in the West & High Plains

Less Heat in the East

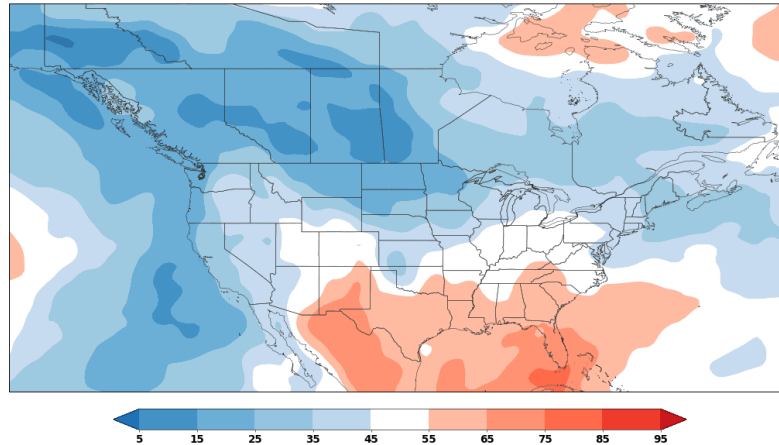
Less Rain in the Rockies & Great Lakes

Negative Phase - Winter

High Pressure Over the Aleutians and Troughing Over Western Canada

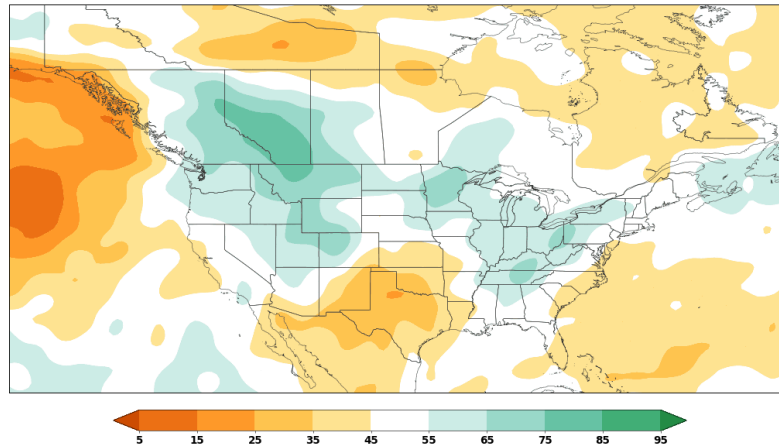
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1950 1951 1953 1955 1956 1958 1961 1964 1965 1968
1970 1971 1972 1978 1981 1988 1989 2008 2010 2013



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

1950 1951 1953 1955 1956 1958 1961 1964 1965 1968
1970 1971 1972 1978 1981 1988 1989 2008 2010 2013



Less Heat in the West & High Plains

More Heat in the South

More Rain in the Rockies & Great Lakes

The PNA Pattern 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.



World Climate Service

<https://www.worldclimateservice.com/>