

Pacific Decadal Oscillation

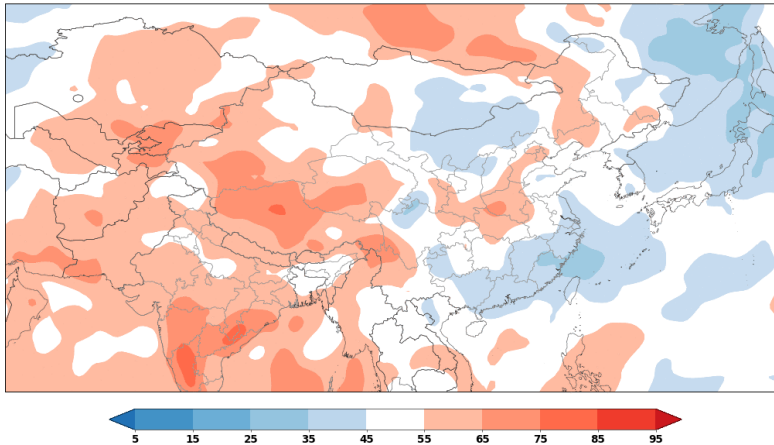
in Asia



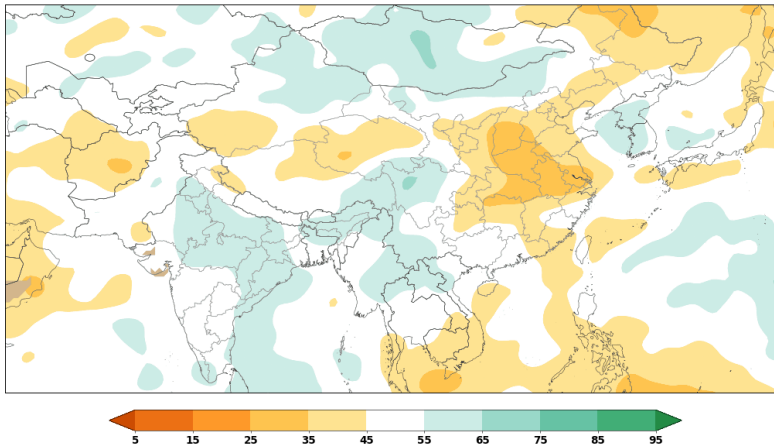
Positive Phase - Winter

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 Western Asia

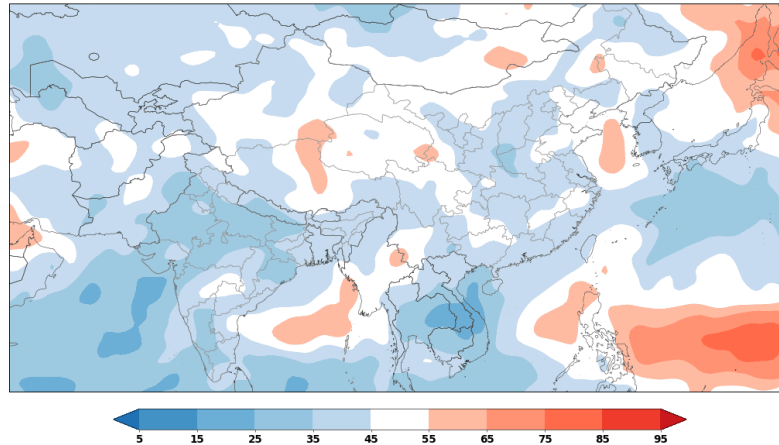
Less Rain in Eastern China

More Rain in Southwest China & India

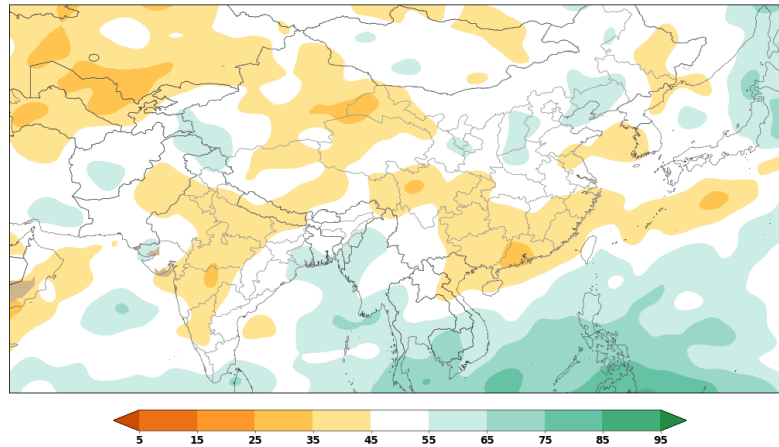
Negative Phase - Winter

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



Less Heat Overall

Less Rain Overall

More Rain Near the South China Sea

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