

Western Pacific Oscillation

in Asia

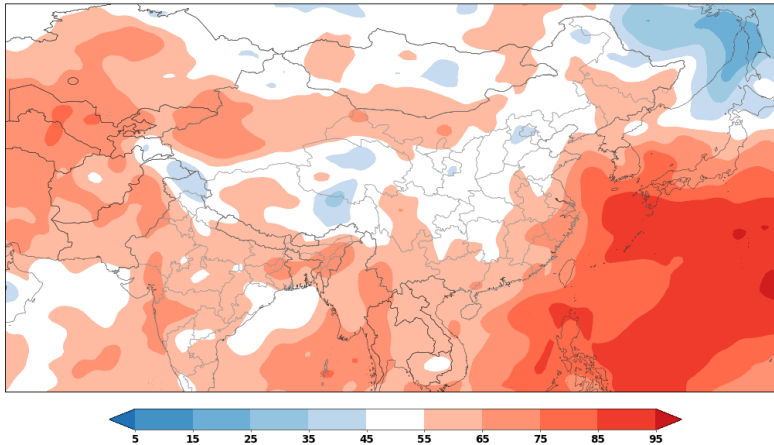


Positive Phase - Winter

Below-normal surface pressure over the Bering Sea and high pressure northwest of Hawaii

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

1951 1952 1954 1959 1963 1965 1966 1986 1987 1988
1998 2000 2006 2007 2015 2018 2019 2020 2022 2023

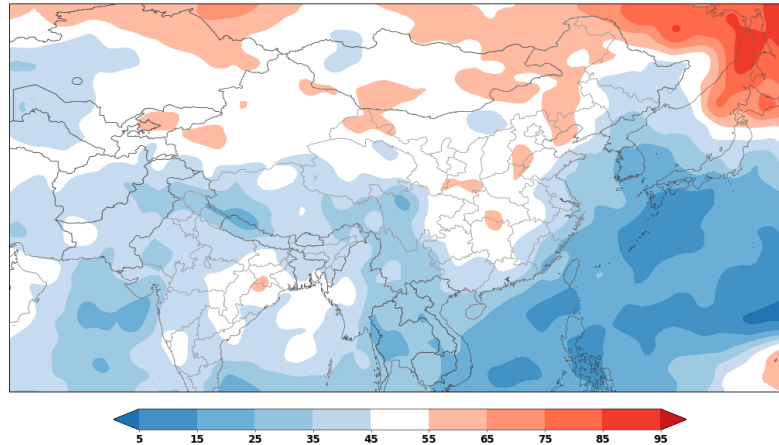


Negative Phase - Winter

Above-normal surface pressure over the Bering Sea and low pressure northwest of Hawaii

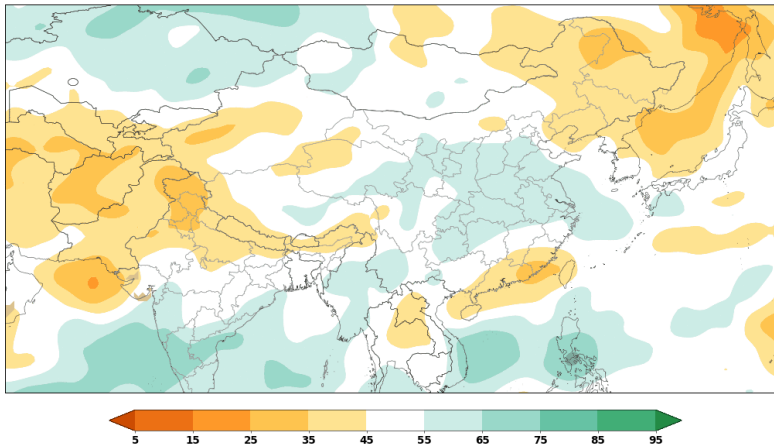
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1955 1956 1961 1962 1964 1967 1973 1979 1980 1981
1983 1990 1995 1996 2004 2009 2010 2013 2014 2021



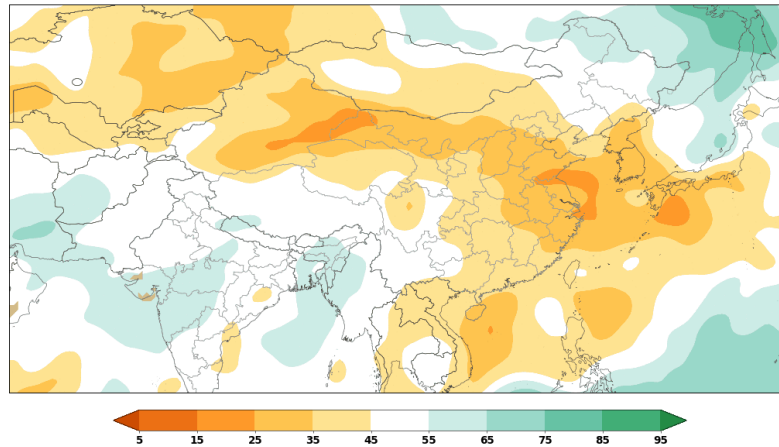
Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)

1951 1952 1954 1959 1963 1965 1966 1986 1987 1988
1998 2000 2006 2007 2015 2018 2019 2020 2022 2023



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

1955 1956 1961 1962 1964 1967 1973 1979 1980 1981
1983 1990 1995 1996 2004 2009 2010 2013 2014 2021



More Heat Overall in Asia

Less Rain in Western & Northeastern Asia

More Rain in Southern Asia

Less Heat Overall in Asia

Less Rain in North & Central Asia

More Rain in Southwestern Asia

The WPO 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.