

Atlantic Multi-decadal Oscillation

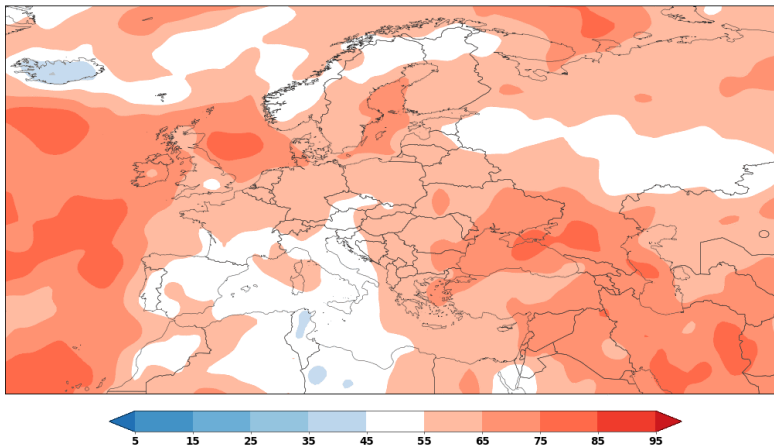
in Europe



Positive Phase - Winter

Above-normal sea surface temperature anomalies in the North Atlantic Ocean

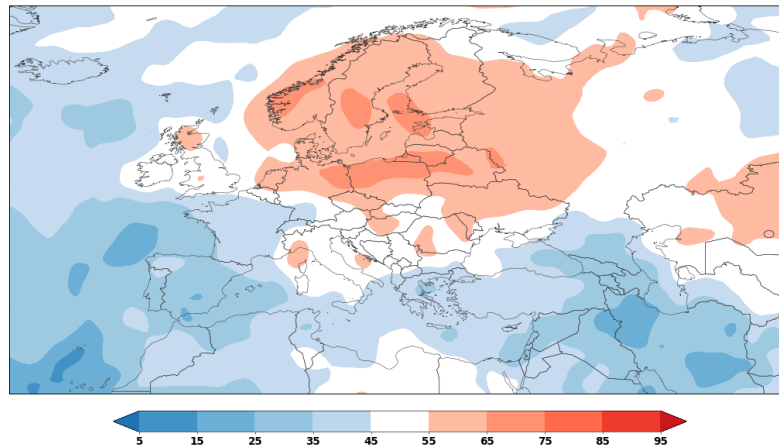
Percent of Years Having Above-Trend DEC-FEB 2m Temperature
1952 1953 1958 1960 1961 1962 2001 2003 2004 2005
2006 2012 2015 2016 2017 2019 2020 2021 2022 2023



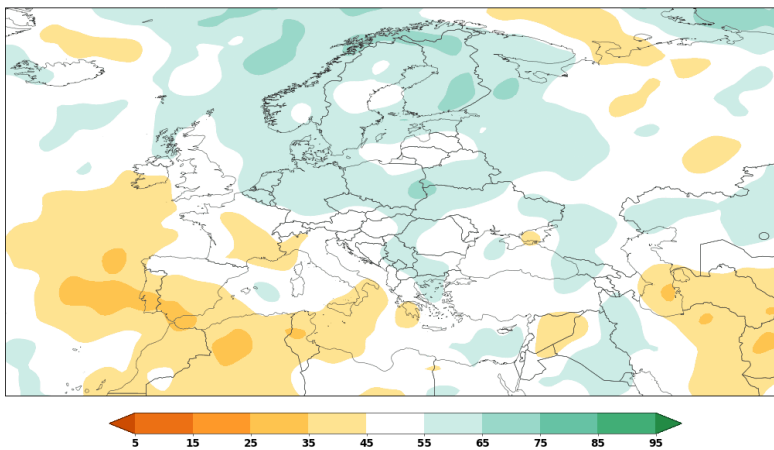
Negative Phase - Winter

Below-normal sea surface temperature anomalies in the North Atlantic Ocean

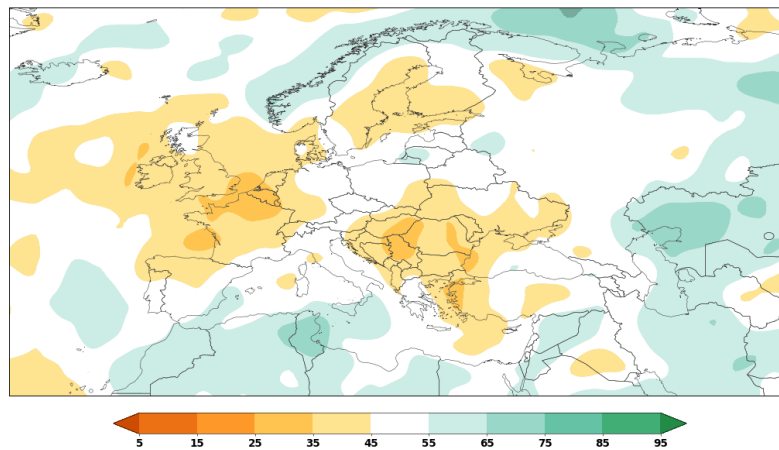
Percent of Years Having Above-Trend DEC-FEB 2m Temperature
1964 1967 1970 1971 1972 1973 1974 1975 1976 1980
1982 1984 1985 1986 1989 1990 1991 1992 1993 1996



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)
1952 1953 1958 1960 1961 1962 2001 2003 2004 2005
2006 2012 2015 2016 2017 2019 2020 2021 2022 2023



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)
1964 1967 1970 1971 1972 1973 1974 1975 1976 1980
1982 1984 1985 1986 1989 1990 1991 1992 1993 1996



More Heat

Less Rain in Western Europe

More Rain in Eastern Europe

More Heat in Eastern Europe

Less Heat in Western Europe

Less Rain

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