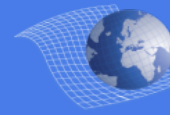


Indian Ocean Dipole

in Europe



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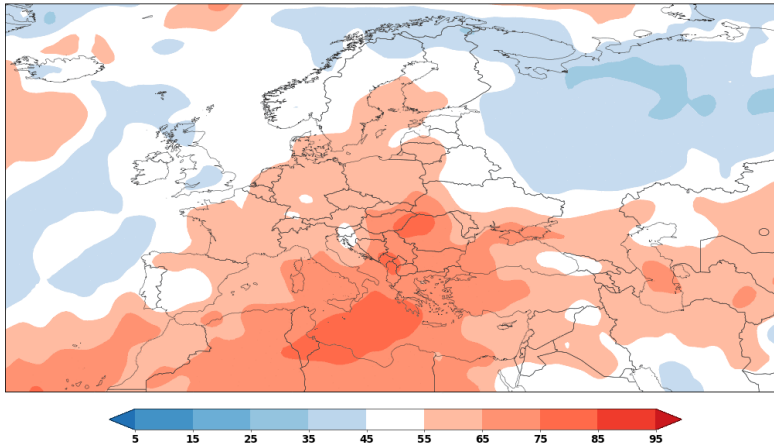
Positive Phase - Winter

Warmer SSTs in the Indian Ocean

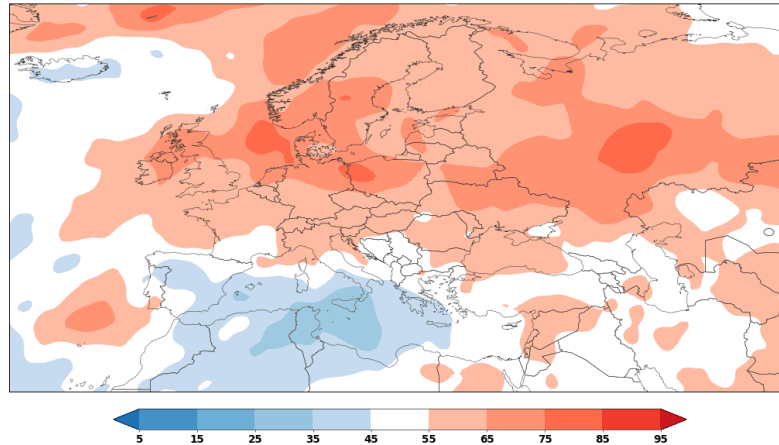
Negative Phase - Winter

Cooler SSTs in the Indian Ocean

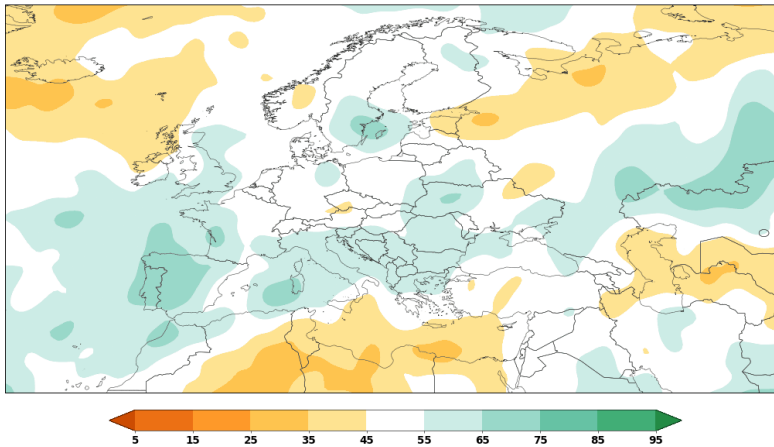
Percent of Years Having Above-Trend DEC-FEB 2m Temperature
1952 1955 1958 1961 1962 1967 1969 1971 1972 1973
1985 1994 1995 1997 2000 2006 2009 2019 2020 2023



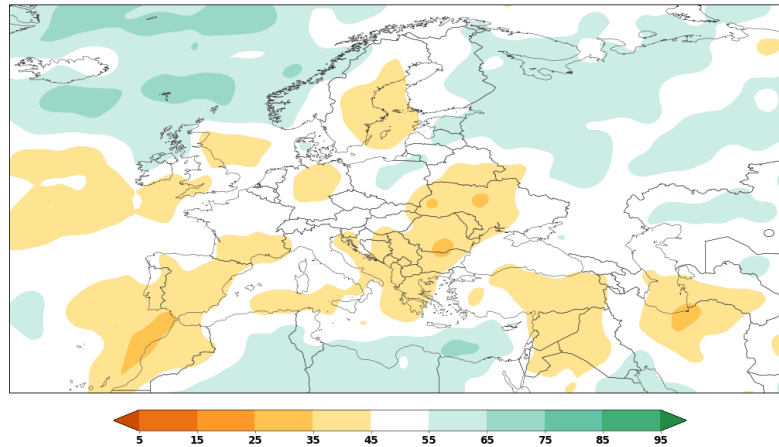
Percent of Years Having Above-Trend DEC-FEB 2m Temperature
1954 1956 1957 1959 1960 1963 1974 1977 1982 1991
1992 1998 2002 2004 2005 2010 2013 2014 2015 2021



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)
1952 1955 1958 1961 1962 1967 1969 1971 1972 1973
1985 1994 1995 1997 2000 2006 2009 2019 2020 2023



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)
1954 1956 1957 1959 1960 1963 1974 1977 1982 1991
1992 1998 2002 2004 2005 2010 2013 2014 2015 2021



**More Heat
More Rain**

**More Heat in E Europe
Less Heat in W Europe
Less Rain**

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



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