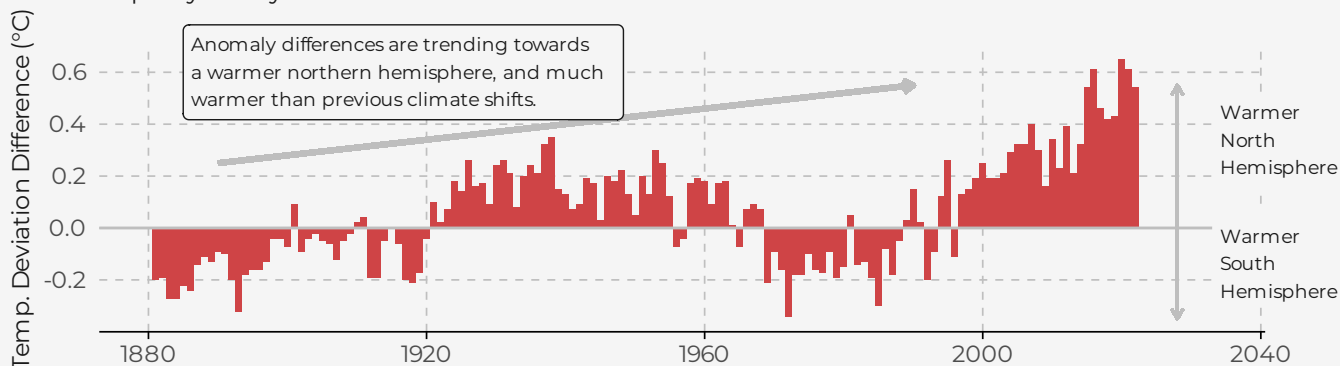


Hemisphere Temperature Deviation Difference Over Time

The Atlantic Multidecadal Oscillation (AMO) is a natural climate pattern that, in its positive phase, leads to warmer sea surface temperatures in the North Atlantic. These warmer temperatures can influence atmospheric conditions, leading to warmer temperatures over nearby land in the Northern Hemisphere.

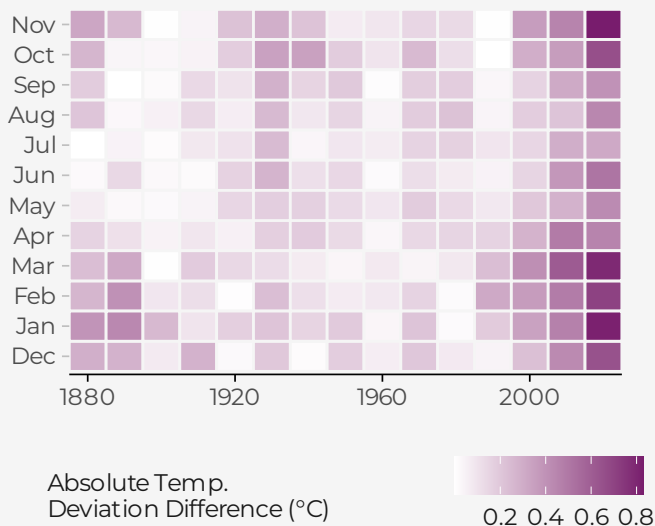
However, man-made climate change, primarily caused by increasing greenhouse gas concentrations in the atmosphere from human activities like burning fossil fuels and deforestation, is superimposed on this natural pattern. This anthropogenic warming trend can intensify the warming effect of the positive phase of the AMO, leading to even warmer conditions in the Northern Hemisphere than would be experienced from the AMO alone. (Source: NOAA)

However, there is few literature on AMO and no research confirming that AMO is the cause of the temperature phenomenon below. Without more historical data, it's impossible to determine if this disparity is truly due to AMO.



Absolute Hemisphere Temperature Deviation Difference by Decade and Month

Overall hemisphere temperature inequality has become much more intense in recent decades, and tends to be more acute in the winter and adjacent months.



Temperature Deviation by Latitude Band

Mean temperature deviation historically tend to be more intense in northern hemisphere latitudes, especially in the North Pole.

