

Atmospheric blocking in the North Atlantic alters normal climates across Europe and Russia by shifting storm tracks. Typically associated with an anticyclone, the normal zonal wind pattern known as the jet stream deviates and its westerly winds reroute north and south of the anticyclone (as shown on the right). This results in anomalous temperature and precipitation events. Factors that may amplify or weaken the frequency of blocking are still being investigated. One such potential factor is sea surface temperature. Häkkinen et. al (2011) speculate that the Atlantic Multidecadal Oscillation (AMO), which



characterizes the natural variability of SST in the North Atlantic, may play a role in variability of blocking. In

this work, we investigate this relationship. **Objectives:**

20th Century Reanalysis (20CR): Z500 (1871-2005) Number of Blocking Days (20CR vs. CESM1LE):

- AMO Index (HADISST vs. CESM1LE):





Carlos Martinez: closm@tamu.edu