



Influence of North Atlantic modes on European climate extremes

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It is well known that the North Atlantic strongly influences European climate. Only few studies exist that focus on its impact on climate extremes. We are interested in these extremes and the processes and mechanisms behind it. We focus on two North Atlantic modes, the North Atlantic Oscillation (NAO) and the Atlantic Multi-decadal Variability (AMV). For the analysis we use simulations performed with the Max Planck Institute for Meteorology Earth System Model (MPI-ESM). The NAO has a stronger impact on European winter than on summer and the changes in minimum temperature are even larger than in maximum temperature. The impact of the AMV on climate extremes is less pronounced.