



## **Extreme climatic events and North Atlantic weather regimes: uncertainty assessment using ERA-40 and NCEP re-analyses**

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Meteorological events such as severe storms, heavy precipitations, cold surges or droughts are often referred to as extreme events. They are often related to typical states of the atmospheric circulation or weather regimes. In this paper, we evaluate the uncertainty associated with North Atlantic weather regime clustering using ERA-40 and NCEP re-analyses between 1970 and 2000, and its impact on the relationship between weather regimes and extreme events over and around the North Atlantic.