



Influence of the NAO on the properties of explosive cyclones

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The aim of this study is to analyse physical properties of several explosive cyclone events in the Euro-Atlantic region considering the North Atlantic Oscillation (NAO) variability. The cyclone events have been selected according to Sanders & Gyakum (1980) criterion for explosively developing cyclones. The NCEP/NCAR Mean Sea Level Pressure (MSLP) reanalysis data for the period 1980 to 2010 were used for this purpose. We focussed on the effects of the NAO and jet on the genesis and lysis processes of some extreme and specific cyclones taking into account the results of Pinto et al. (2009) about the relationships between extreme cyclones and the NAO phases.

References

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