



Impacts of the Siberian Anticyclone on rainfall in Cyprus

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This study aims at portraying and quantifying the impacts that the Siberian Anticyclone (SA) has on the precipitation over the island of Cyprus. For this purpose, four indices describing the sea level pressure characteristics (namely, sea level pressure fluctuations, the meridional and zonal displacement and the magnitude of the pressure gradient) of the SA, as well as precipitation data from 31 stations in Cyprus were used and investigated.

For each phase of the four indices, the six extreme years were used in order to investigate the precipitation patterns on each one of the stations. This was performed for all of the months that baroclinic depressions affect the island. Using these results, the stations were clustered and patterns were depicted for each index, thus attempting to reveal the relationship between the SA and precipitation, with respect to the geographical location of each of the stations used.