

## **Relationship between precipitation variability and Arctic Oscillation in Montenegro**

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The aim of this paper was analysis of precipitation variability in Montenegro in relation to Arctic Oscillation (AO). Monthly, seasonal and annual precipitation time series have been used from meteorological stations over Montenegro in the period 1951-2008. The area of research was particularly interesting because the region of Montenegro has the highest average annual precipitation extreme in Mediterranean Basin.

Results have shown the strongest signal of AO Index in Southern part of the country, while all investigated stations have shown statistically significant correlation at annual basis. Possible explanations of these regional differences are considered in the paper and the map of isolines connecting the places with the same values of correlation coefficients is also included. It shows how signal of AO is distributed over the country. It could be seen that the annual correlations are regularly decreasing towards to north of the country.