



Is extreme precipitation changing?

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For most of the scientists climate change is a fact. Climate change implies changes not only on the behavior of the temperature but also on other climatic variables like the precipitation. The question raised in this study is whether or not the annual daily maximum precipitation has changed. In order to evaluate if this question can be answered, several thousands of precipitation records are analyzed from all over the globe. Initially the annual daily maxima time series are carefully formed and sequentially all possible trends are estimated in a moving window framework and for several interannual periods, e.g., from 10 years to 100 years. The aim is to estimate the difference between the percentage of increasing and decreasing trends in the annual daily maximum precipitation and assess if this difference indicates any specific pattern.