



Trends of number of the days with unusual temperatures in Zagreb

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The present paper discusses the variation of the annual number of days with unusual temperatures in Zagreb during 140 years of observation. These are annual number of days above 90th percentile (days estimated as very warm and extremely warm if compared with the average 1961-1990) and days below 10th percentile (days estimated as very cold and extremely cold while compared with the average). Secular trends at the station Zagreb-Griè of the annual number of days above 90th percentile indicate a positive significant trend of 10.3 days /100years, while for days below 10th percentile, a significant negative trend of -16.8 days/ 100 years could be observed. A secular trend indicated a significant increase in the annual number of very warm and extremely warm days in comparison with the daily mean values but more prominent was the trend manifesting a decrease in the number of very cold and extremely cold days if compared to the average. The significance of linear trends is tested by means of Mann-Kendall rank test.