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Winter trends of number of the days with unusual temperatures in Zagreb

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The present paper discusses the distribution of seasonal trends of number of days with unusual temperatures in Zagreb for the period 1862-2005. The days with anusual temperature are days above 90^{th} percentile (days estimated as very warm and extremly warm if compered with the average 1961-1990) and days below 10^{th} percentile (days estimated as very cold and extremly cold while compared with the average). Secular trends at the station Zagreb-Grič of the annual number of days above 90^{th} percentile indicate a positive significant trend of 12.0 days/100 years, while for days below 10^{th} percentile, a significant negative trend of 16.6 days/100 years could be observed. The significance of linear trends is tested by means of Mann-Kendall rank test. Seasonal trend of number of days above 90^{th} percentile were in winter 4.7 days/100 years , in spring 3.7 days/100 years, in summer 2.8 days/100 years. Trend of number of days bellow 10^{th} percentile were 7.5 days/100 years in winter, 3.9 days/100 years in spring, 1.6 days/100 years in summer and 3.6 days/100 years in autumn.