



Analysis of extreme events in Belgrade and Nis during the summer and winter seasons

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An analysis of extreme events during summer and winter is done using Heat Wave Duration Index (HWDI), total number of tropical days and maximum number of Consecutive Dry Days (CDD) for Belgrade and Nis. The length and severity of heat waves at two meteorological stations in Serbia were analysed based on the daily maximum temperature.

Before 1980s, heat waves appeared once in two years (Nis) i.e., three years (Belgrade), while from the middle of 1980s, heat waves appeared more frequently, every year. The total number of tropical days revealed an increasing tendency until 1952 and after 1975. A longer duration of heat waves and successive tropical days was recorded in Niš, suggesting the effect of more continental climate. More heat waves realized in winter in Belgrade and Nis.

Greater number of consecutive dry days is recorded in summer at both meteorological stations. More periods without precipitation are observed in Nis than in Belgrade for both seasons. CDD prevailed during summer in August, while it is almost equal distributed in all three winter months.