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Heat waves in Serbia aV the case of 2007

M. Unkasevic and I. Tosic

University of Belgrade, Institute of Meteorology, Faculty of Physics

The heat waves affected many parts of South and Souteastern Europe during the summer of 2007. Serbia was not exempt from the 2007 heat waves. An extraordinary heat wave in Serbia occurred from July 15 to July 30. Record breaking maximum temperature is observed at Smederevska Palanka in value of 44.9C, which is 2.8C higher than the absolute maximum ever recorded. The first-order autoregressive model was applied to generate long series of the daily maximum temperature, from which the relative frequencies of heat waves were estimated. Also, the circulation conditions that caused heat waves in Serbia during July and August 2007 were analyzed. We find that an event like that of summer 2007 is statistically unlikely. We suppose that a regime with an increased variability of temperature may be able to account for summer 2007.