

Detection of changes in the regime of selected climatological elements at Hurbanovo

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Abstract: This paper is devoted to detection of some expected changes in the climatological regime due to climate change. Very reliable time series of daily data measured by the Meteorological Observatory at Hurbanovo, 115 m a.s.l., south-western Slovakia, have been used. Some results are compared with those designed as climate change scenarios for Slovakia. The results showed very significant increase in temperature, decrease in precipitation and relative humidity after 1990. The season from April to August with the lowest relative humidity within the year was selected as the best season to detect the mentioned changes. This season can be also considered as the most important growing season in the Slovak lowlands. Data from the period 1871–2003 (monthly) and 1951–2003 (daily) have been elaborated.

Key words: climate change, scenarios, distribution curve, change point, climatological normals

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