

**THE CHANGING ROLE OF THE POLAR JET IN REGIONAL WEATHER CONDITIONS  
IN THE PANNONIAN REGION**

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According to the synoptic practice the polar jet stream substantially influences the daily weather conditions in the midlatitudes including the Pannonian region. For instance, weather anomalies detected in the winter and spring of 2012-2013 are assumed to be the consequences of the unusual characteristics of the polar jet. To evaluate this hypothesis, high level winds (including both speed and direction) are analyzed for the Pannonian basin for 30 years (1981-2010) on annual, seasonal, and monthly time scales, and examine whether any change can be detected in the recent decades. The detailed general statistical analysis is performed for wind speeds at 18 levels above 500 hPa pressure level over the region. The analysis includes a general description, extreme statistical analysis, complex trend and correlation analysis with the Arctic Oscillation (AO) and the North Atlantic Oscillation (NAO), and EOF analysis to explore the action centers of variability.