



## **Tendencies of mean and extreme wind characteristics in Hungary**

K. Radics (1), Cs. N. Péliné (1, 2) and J. Bartholy (2)

(1) Geoinformation Service, Hungarian Defence Forces, (2) Department of Meteorology,  
Eötvös Loránd University

Human activities have substantial effects on climate system. It has already accepted that climate change will directly influence the global economy and society in the near future. Since human and natural systems may be seriously affected by changes of extreme climate events, the main objective of our research is to provide essential information on tendencies of mean and extreme wind characteristics. Hungary had not been the subject of extensive wind resource studies in the last century. In response to the need for a new statistical analysis a research started on clarifying the possible changes of the wind characteristics in the country. The research presented is based on ten-year-long (1997-2006) wind data base of 23 Hungarian synoptic meteorological stations. Time series and complex wind climate analysis were carried out. Spatial and temporal distribution of mean and extreme wind characteristics were estimated.