



## **Horizontal Deformations within the Area of Tatra Mountains**

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Tatra Mts. are part of the West Carpathians arc as a part of the border between Carpathians system and Polish platform. In order to study this important area and especially its dynamical properties, the special test network of GPS measurements was established there in Polish-Slovak cooperation. Kind of monumentation of separate stations as well as the measurements procedures and data processing is described in previous reports, usually published in the *REPORTS OF GEODESY*. System of processing in three variants resulted in sets of temporal changes of coordinates, represented graphically in kind of vectors of annual movements. These data were used finally in deformation analysis of area under study and its results are presented in following text and figures. As the tool of determination of these deformations the software, prepared in VUGTK (RIGTC) (Kostelecky and Talich) in eighties and applied at many of networks, measured by means of terrestrial (especially at the territory of Czech Republic) or satellite methods, as for example in cooperation with Polish colleagues in the network in area of Sudeten (Reports on Geodesy, 2, 73, 2005).