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Kinematics of the Bohemian Massif assessed from GPS observations

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The GPS campaigns on regional epoch networks (30 sites) and permanent GPS stations (17 sites) run by the Institute of Rock Structure and Mechanics AS CR provide the basis for investigating tectonic movements in the Bohemian Massif, Central Europe. The measurements of the site coordinates of annual epoch and permanent GPS stations started in 1997 respectively 2001. The results of systematic processing of available data up to 2007 done by Bernese version 5.0 will be presented. The data analysis has yielded to the movement velocities of 47 sites, covering selected structure blocks of the Bohemian Massif. The estimated velocities define kinematical pattern of recent relative surface movements. The reliability of this pattern depends on density of GPS observations sites and the frequency of recording. This research was supported by the Ministry of Education, Youth and Sport of the Czech Republic, projects LC 506 and 1P05ME781.