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Continuous model of the regional velocity field for Poland

J. Bogusz (1), M. Figurski (1), B. Kontny (2), P. Grzempowski (2), and A. Klos (1)

(1) Military University of Technology, Warsaw, Poland (jbogusz@wat.edu.pl), (2) Wroclaw University of Environmental and Life Sciences, Poland

The poster presents modern determinations of the regional velocity field for Poland. The research is based on the ASG-EUPOS, Polish multifunctional GNNS network and performed within the developmental project of the Polish Ministry of Science and Higher Education. The network of the satellite-based sites consisted of above 130 Polish sites together with the selected number of European sites operating within EPN (EUREF Permanent Network). Data came from three-year period, which is the minimum number for the horizontal velocity determinations. The velocities were calculated within the discrete network related to the GNSS sites' distribution and then interpolated to the regular grid. The discussion on the interpolation methods is also included. To the interpolation of the velocity field kriging, spline and other functions were used. Assessment of the accuracy of the velocities field could indicate geodynamical activity on the area of Poland.