VELOCITY STRUCTURE OF CRUST AND UPPER MANTLE NEAR THE NORTHERN GROUP OF KAMCHATKA VOLCANOES (BASED ON DATE OF *P*-WAVE FROM VOLCANIC EARTHQUAKES)

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Abstract. Calculation results of the *P*-wave velocity V_P field obtained with the reversible wave technique and *TAU* parameter characterizing the ratio V_P/V_S for the waves from local volcanic earthquakes occurred near the Northern group of Kamchatka volcanoes in 2005–2007 are given. 3D velocity sections are plotted along the profile of south-west-north-east strike crossing the volcanic group in the direction from Plosky Tolbachik volcano in south-west to Shiveluch volcano in north-east. Velocity field changes in time and depth are revealed. Relationships of the changes with the processes of volcanic activity are considered.

Keywords: seismic wave velocity, Kamchatka volcanoes, 3D-section, volcanic earthquakes, *TAU* parameter, volcano activity.