

Seismicity and nowadays movements along northern part of Aegean region - Bulgaria

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Bulgaria belongs to the northern side of the highly seismic Aegean region. Southern Bulgaria is the most active tectonic area of our country. It consists of four high seismic zones – Sofia and Maritsa in the central part and Kroupnik and Rhodope in the southeastern part of Bulgaria, and also Burgas zone, which is aseismic. Northern Bulgaria is not so seismic area, related more with Moesian platform, but still it has data for strong earthquakes in North-Eastern Bulgaria and Gora Oryahovitsa zones. Some results from the seismic, geodetic and extension-metric monitoring of investigated source zone in Bulgaria during the last 33 years are presented. Special attention is paid to the seismological analysis and fault plain modeling of the stronger earthquakes. Determined surface geodynamics of central part of Balkan Peninsula using seismological technics is compared with data for the strain rate and the share rate derived from the horizontal velocities of geodetic GPS measurements. The results are discussed according modern geodynamic hypotheses for the region, where it is obtained a good correlation.