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Determination of maximal expected magnitude of the main neotectonic zones in North Macedonia

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Determination of the maximal expected magnitude (M_{max}) of future earthquakes is one of the most important part of seismic hazard and risk assessment. In this research, an attempt for determining the M_{max} of the three neotectonic zones in North Macedonia was made, based on available seismological data for last 42 years. Two approaches were used: first one determining M_{max} using the magnitude-frequency relationship (Gutenberg-Richter law) and the second one using the sum of energy released by earthquakes (Benioff diagram).

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