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Probability seismic hazard analysis (PSHA) for Eastern Macedonian Seismogenic zone

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The aim of this research was to analyze the earthquake hazard of the Eastern Macedonian seismogenic zone by determining the a and b values in Gutenberg-Richter law. For this purpose, the previously known division of the zone to six epicentral areas was used. The b and a values were calculated for the epicentral areas where the seismic data permits, using the least square method. Using these values, the mean return period, the most probable maximum magnitude in t year time period and the probability for an earthquake occurrence with magnitude $\geq M$ within time span of t years were estimated too. Furthermore, maps with spatial variations of the parameters will be provided.

Primary author: JOVANOVIĆ, Ljubcho (Ss. Cyril and Methodius University Skopje)

Co-authors: Dr DROGRESHKA, Katerina (Ss. Cyril and Methodius University, Skopje); Dr NAJDOVSKA, Jasmina (Ss. Cyril and Methodius University, Skopje)

Presenter: JOVANOVIĆ, Ljubcho (Ss. Cyril and Methodius University Skopje)

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