

## **CURRENT SEISMIC HAZARD ASSESSMENT AND EARLY NOT-URGENT WARNING**

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The current seismic hazard assessment includes:

- investigation of seismic parameters (spatial and temporal distribution of earthquake epicenters, number of seismic events and released energy, recurrence of earthquake and maximum magnitude of expected earthquake, most hazardous zones of earthquake occurrence, etc) on the base of Seismic Catalogue analysis;
- definition of probabilities of current anomalies' seismic realization based on testing of strong regional earthquakes ( $M \geq 6.0$ ) and perceptible local earthquakes ( $M \geq 3.7$ ) and monitoring data time history analysis using “SeisHelp” software;
- outline of seismogene anomalies using “Dynamic Fields” software;
- probability evaluation of the site, time and magnitude of expected earthquake using “Expert” software;
- evaluation of crust stress based on monitoring data;
- complex evaluation of current seismic hazard in the territory of Armenia based on operative complex map using seismo-tectonic data and seismic zonation map of the territory of Armenia.

In case of prediction of strong earthquake in the territory of Armenia and adjacent areas the Expert Counsel of the Armenian NSSP for prediction confirmation has being immediately conveyed. early non-urgent actions are being undertaken based on the decision of the Expert Counsel headed by the President of the Armenian NSSP.

Before expected earthquake, in case of emergency declaring the Armenian NSSP acts according to the relevant approved documents.

After occurred earthquake the main earthquake parameters are defined and the first preliminary announcement is being made, and after main parameters adjusting, the final announcement is being made. After occurred earthquake, in case of emergency declaration the actions are being undertaken according to the relevant approved documents.

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