Geophysical Research Abstracts Vol. 20, EGU2018-9025-1, 2018 EGU General Assembly 2018 © Author(s) 2018. CC Attribution 4.0 license.



## Updated Probabilistic Seismic Hazard maps for Georgia

Nino Tsereteli, Otar Varazanashvili, Alexander Gventsadze, Tatia Sharia, Manana Kupradze, Nino Kvavadze, and Tea Mumladze

Institute of Geophysics, Department of Seismology Seismic Hazard and Disaster Riskss, Tbilisi, Georgia (nino66\_ts@yahoo.com)

Based on the international standards that was developed and established in the frame of GEM-EMME (Global Earthquake Model - Earthquake Model for Middle East Region) projects, the new probabilistic seismic hazard maps were calculated for Georgia at the national level. New attempt was done in all directions. Seismic catalog for Caucasus region were updated up to 2016. New seismogenic sources models were developed based on two active structure models. Sensitivity analyses of seismic parameters as activity rate, b value and Mmax were investigated. Hybrid-Empirical ground motion prediction equation were developed for Georgia but due to its high uncertainty we decided to use latest GMPE that were published after the EMME project. Obtained PSH maps are a bit different from those that were obtained in the frame of EMME project for Georgia. It was expected, as calculation now is done at national level with different seismic parameters and GMPE models. This work was supported by Shota Rustaveli National Science Foundation (SRNF) (Project 216758).