

T1.5-P23. Estimation of local magnitudes and station corrections for selected seismic stations in Slovakia

The modernization of Slovak national network of seismic stations was finished in 2005. Since that time there was no effort made to modify original definition of local magnitude ML for region of Slovakia. The purpose of this study is to determine same local magnitude for all stations for one observed event. Peak amplitudes on simulated Wood-Anderson instruments were analyzed for set of events recorded on six selected stations. Epicentral distances of analyzed set of events were in 500 km radius and magnitudes were larger than 1.5. Station correction term for each selected station, local magnitude of event and distance correction term were determined through linear regression. The resulting local magnitudes were compared with available magnitudes from ISC and other national agencies.

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