

of the RsttMndc model in the Hangay region, Mongolia

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The purpose of this research is to check the performance of the RsttMndc (enhanced RSTT model for Mongolia) model as a regional velocity model and the obtained minimum 1D velocity model for the Hangay region as a local model to relocate the events occurred in the Hangay region, central part of western Mongolia using iLoc4.0 location software comparing with the relocation results with RSTT model. The Institute of Astronomy and Geophysics of Mongolia in collaboration with the Lehigh university in Pennsylvania of USA operated a temporary seismic station network called Hangay experiment in the region including 72 stations during the 2 years. We found the events provided GT5 criterion from the more than 8000 events occurred in the Hangay region within the latitude of 44o-50o and longitude of 95o-104o between 2012 and 2014. There were GT5 events recorded within the range of local distance. In order to show the RSTT models impact, we selected the events recorded at the regional distances too. The results of the GT5 events relocations with the different models will be discussed here. The main characteristic of the epicenter distribution relocated with the local and regional velocity models for the Hangay region mostly distributed and clustered along the main faults in the Hangay region.

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Promotional text

Wonderful

Oral preference format

in-person

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