

TO UNKNOWN STRONG HOLOCENE EARTHQUAKES IN THE SOUTH OF THE ISSYK KUL DEPRESSION, TIEN SHAN

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Abstract. In the Tossor river valley there were revealed a locality of paleoseismic deformations of seismotectonic and seismogravitation genesis, which trace zones of ancient earthquakes. C¹⁴ age of the last earthquake is IX century AD, earlier seismic event – middle or early Holocene. There were revealed a significant seismic activity of the Pre-Terskey Border Fault in the south of the Issyk-Kul Lake depression. An upslope facing scarp and significant rock slides in the Tossor river valley mark an epicentral zone of strong Holocene earthquakes that is not in concordance with instrumental seismic data. That circumstance has to be reflected in a new Map of seismic zoning of the Kyrgyz Republic.

Keywords: Holocene earthquakes, paleoseismic deformations, Pre-Terskey fault, the Issyk Kul depression, the Tien Shan.