

Results of seismological data processing for the territory of Armenia

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Abstract. On the basis of seismological bulletins data for 1970–2012, the distribution of earthquake hypocenters in Armenia is obtained. It is shown that in addition to earthquakes in the crust there are deep earthquakes with a depth of 300 km. The main seismicity is concentrated in the North-West of the country in the region adjacent to the Javakheti Upland. Positions of the main shock and aftershocks of the 7 December 1988 Spitak earthquake are calculated. The aftershocks of the earthquake cover a large area, extending to a depth of 100 km, although most of them located at a depth of ~ 27 km. The aftershocks together with the main shock reflect a single process of tectonic stress relief in the area.

Keywords: seismicity, Wadati diagram, earthquakes.