ID: Type: **Poster**

Seismic Impact from Earthquakes of Different Distance upon the Territory of Belarus

The analysis of data and information about strong distant, regional and local occurred earthquakes was performed. Seismological monitoring in Belarus represents the system of continuous round-the-clock observations, on-line data transfer, obtained data multilevel storage, processing and analysis, control of natural and artificial seismic events in a wide energy and distance range. All works are performed by the Centre of Geophysical Monitoring of the National Academy of Sciences of Belarus using up-to-date seismic equipment, hard- and software, automated systems. The Catalogue of the Centre includes 60827 seismic events all over the world for the period of 1965–2018. It was used MSK-64 macroseismic intensity scale to evaluate the seismic impact form the earthquakes of different distance upon the territory of the Republic of Belarus. The formula of Shebalin was used to calculate the intensity of seismic impact in the process. The investigation made it possible to assess a probable seismic influence for the territory of Belarus and adjacent areas. The active seismic zones producing earthquakes of enough power to cause ground shaking in the territory of Belarus were determined, specified and mapped.

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Track Classification: Theme 1. The Earth as a Complex System