

NATURAL AND TECHNOGENIC ORIGIN OF TRIGGER ACTIVITY IN SEISMICITY AND SEISMIC NOISE

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Possible mechanisms of various impacts on seismicity and seismic noise are considered. Examples of correlated changes in seismicity and seismic noise with variations in different technogenic and natural geophysical processes are given. The trigger effect is considered as temporal changes in the process of step-like creep strain of a stressed seismogenic volume under influence of microseismic vibrations in unstable equilibrium of the deformable rock volume structured by a hierarchic fracture system.

Keywords: trigger effect, seismic noise, strain step, microearthquakes, seismoacoustic emission, tidal strain