

How can we get information on the stress and state of the seismogenic field from analyses of seismic activity?

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There are so many factors which cause change of seismogenic stress: fluctuations of plate motion, formation of coupling in subduction zone, occurrence of a great earthquake, diffusion of stress from neighboring high-stress regions, activity of magma, and so on. Owing to these various causes, seismogenic stress in a certain region changes with different scales of space and time. Moreover, a change of stress is not manifested in the seismicity pattern directly, and even they cause change of seismic activity, the spatial pattern is not necessarily the same everytime. We talk about a preliminary study on the problem how we can get information on the stress and state of the seismogenic field from analyses of seismic activity.