

# MUD VOLCANISM, GEODYNAMICS AND SEISMICITY OF AZERBAIJAN AND THE CASPIAN SEA REGION

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A dramatic activation of geodynamic processes of a natural and technogenic origin has been observed within the Azerbaijan and the Caspian Sea area for the last decade. It is evident this activation observed due to unique geodynamics of the region which associated with peculiarities of geological structure - in particular, with a very thick and young sedimentary cover. Geologic and thermodynamic conditions of sedimentary cover have formed the situation of extremely non-balanced phase and mechanical instability. Most part of the earthquakes sources is confined to the sedimentary cover and mud volcanism is widely spread there. Space and time correlation of seismicity and mud volcanism testify that relationship mechanism is of specific character and may be stipulated by re-organization of acting stress fields in result of internal processes in the sedimentary thick.