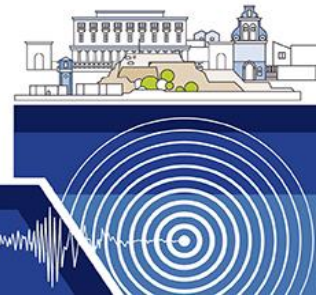


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Session 44

Active deformation in Western Greece: Linking rifting, strike-slip and subduction

Conveners:

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In Western Greece, the Ionian region represents a focal point of intricate tectonic activity. It accommodates the deformation transfer between the Corinth Gulf and the Hellenic subduction zone through a complex network of strike-slip faults and secondary rift systems. Within this network, some systems exhibit diffuse deformation, while others rank among the most seismogenic in the world, displaying a broad spectrum of fault behaviors, including reverse faults, strike-slips, and normal faults at both shallow and intermediate depths.

This region, notable for having the most rapid tectonic deformation in Europe, is also among the best-monitored areas in the world, notably including a dense and long-lasting array of seismological, geodetic, and tectonic observations. This extensive monitoring enables detailed exploration of fault linkage patterns and of the rheological and mechanical behavior of diffuse plate boundaries over time.

To this end, we propose to explore recent advances in the understanding of deformation mechanisms in the Ionian region via contributions on stress fields, deformation fields, seismic and tsunamigenic hazards, fault mechanics, structural imaging, geophysics, seismicity, and tectonics.

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