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Millennial to million year normal-fault interactions in the forearc of a subduction margin, Crete, Greece

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Abstract

Map-scale faults located close to one another (e.g., <5 km) are likely to interact. We explore the impact of fault interactions on the thousand to million-year growth patterns of the Eastern Mirabello Fault System (EMFS), an active normal fault-system in the upper-plate of the Hellenic subduction margin. Kinematic analysis of fault-displacement data shows that, over the last 2±0.5 Ma and along the entire fault-system length, the EMFS accommodated displacement at near

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