	Workshop CRUST 2019 - Abstract Form		
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Title of Abstract	SEISMOGENIC STRESS CONSTRAINTS TO GEODYNAMIC MODELING OF SOUTHERN ITALY		
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Abstract (max. 250 words)	We have selected from official catalogs and the literature the focal mechanisms estimated by waveform inversion methods for shallow earthquakes that occurred in the last 40 years in Southern Italy and surroundings. The compiled database is characterized by fault parameter errors not larger than ca. 10-15°, suitable for good quality seismogenic stress inversion. We have performed stress inversion on subsets of this database partitioned according to spatial grouping of earthquakes, focal depth, mechanism homogeneity and magnitude, with the main purpose of detecting the space variation of stress on local to regional scale and inferring geodynamic features of the study region. The application of different stress inversion methods and comparison of the respective results have allowed to evaluate the effects of different assumptions on stress field estimates. We also explored the possibility of distinguishing the different tectonic engines acting in selected sectors by simulation tests. The stress orientations obtained for several sectors of the central Mediterranean region have been commented in the light of knowledge existing on geometry and kinematics of microplates and tectonic units in this part of the Africa-Europe plate boundary.		
Type of presentation (Oral or Poster)	Poster		