

Solid Earth Discuss., referee comment RC2  
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## Comment on se-2021-76

Barreca Giovanni (Referee)

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Referee comment on "Structural complexities and tectonic barriers controlling recent seismic activity in the Pollino area (Calabria–Lucania, southern Italy) – constraints from stress inversion and 3D fault model building" by Daniele Cirillo et al., Solid Earth Discuss., <https://doi.org/10.5194/se-2021-76-RC2>, 2021

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I read with interest the paper from Cirillo D. and co-Authors and I strongly appreciated the effort of collecting and managing a huge volume of field and seismological data to understand better the seismotectonic processes governing northern Calabria where the 2010–2014 Pollino seismic sequence nucleated. Although it is not always true because of the heterogeneity of the crust, the idea of joining surface field data with hypocentres at depth is of great interest in solving seismotectonic problems concerning for instance source geometry determination. The paper is in general well written even if a general reorganization of the paragraph is needed to follow better the text. What I mean is to separate literature data from new results, and the latter from interpretation. For instance, I suggest to not include section 2.1 (Geological Setting) in section 2 but to separate them, and I invite the authors to continue with the same spirit. Number of sections should be reduced, and a review of English is necessary. Finally, I guess that the manuscript has the potentiality to become a resonant paper for readers interested in a deeper insight about the seismotectonic of the investigated area deserving publication in Solid Earth after minor corrections.

Sincerely

Giovanni Barreca