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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Magnetotelluric investigation in the High Agri Valley (southern Apennine, Italy)" *by* M. Balasco et al.

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To my opinion, an overall very good and interesting paper indeed. Minor typing mistakes should be corrected in proofs. Allow me some more constructive comments: 1. Provide a schematic of the "double L" configuration of the electric lines and explain the control of static shift. 2. Make a comment concerning the model change if e.g., the parameter τ=10 (max curvature). Due to expected geological complexity a higher model roughness could be endurable? 3. Even so, I believe that the generated model reveals remarkably the geological and seismotectonic setting! 4. Did you try to consider more seismic events, e.g., by including events in broader area around the MT-profile? I notice in Table 1, that events Nos 9 through 13 (5 out of 22) actually correspond to the same

seismic activity (constrained both in time and space) and it seems unjustified to extend (even with dashed lines) both fault lines F2 and F3 to this focal area. 5. My intuition is that more attention should be given to fault structure F1, as I also suspect that may be correlated with geological features more to the south of the Val d' Agri (e.g. the lake). It must be certainly further investigated by parallel MT profiles to generate a grid and a 3D-model.

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