

***Interactive comment on “Quantifying the impact of the structural uncertainty on the gross rock volume in the Lubina and Montanazo oil fields (Western Mediterranean)” by Carla Patricia Bárbara et al.***

**Carla Patricia Bárbara et al.**

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Dear Vedad Hadziavdic,

We much appreciate your revision of our manuscript. Your constructive comments and suggestions have helped us to clarify some key points of the paper and to improve it. We have prepared a detailed response to your comments with the specification of all the changes made on the manuscript, which will be uploaded along with the revised version of the manuscript.

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The dataset section has been completed by describing the seismic survey and the velocity model used. We have also completed the discussion section as suggested, by mainly including some discussion about seismic frequency content, the “ballooning effect” and the uncertainty in depth associated with the velocity model. Finally, we have also addressed the issue related to the spatial continuity of the residuals and the variogram range. We hope that the revisions made meet the important points raised.

Please also note the supplement to this comment:

<https://www.solid-earth-discuss.net/se-2019-64/se-2019-64-AC1-supplement.pdf>

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-64>, 2019.

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