

## ***Interactive comment on “Crustal Density Model of the Sea of Marmara: Geophysical Data Integration and 3D Gravity Modelling” by Ershad Gholamrezaie et al.***

**Ershad Gholamrezaie et al.**

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Dear members of the Editorial Board,

We would like to acknowledge the generous help of referee Pierre Henry (reviewer #3) who not only made helpful comments but also made data available to us. He gave us access to the improved gravity data set TOPEX published by Kende et al. (2017) and to the higher resolved bathymetry of the Marmara Sea.

We have revised the structural model by implementing the higher resolved bathymetry and tested the sensitivity of our results by calculating a series of “best-fit models” with

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respect to both gravity data sets and present a detailed discussion of these results.

Please find enclosed our detailed answers to the reviewer’s comments. We hope the reviewer find his concerns satisfactorily addressed and that the revised manuscript can be accepted for publication.

Yours sincerely

On behalf of all co-authors,

Ershad Gholamrezaie

Please also note the supplement to this comment:

<https://www.solid-earth-discuss.net/se-2018-113/se-2018-113-AC4-supplement.pdf>

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2018-113>, 2018.

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