

Solid Earth Discuss., author comment AC1  
<https://doi.org/10.5194/se-2021-145-AC1>, 2022  
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## Reply on RC1

Barend Cornelis Root et al.

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Author comment on "Benchmark forward gravity schemes: the gravity field of a realistic lithosphere model WINTERC-G" by Barend Cornelis Root et al., Solid Earth Discuss., <https://doi.org/10.5194/se-2021-145-AC1>, 2022

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We would like to thank reviewer 1, Mikhail, for the kind words and summary given on our work. We are glad that you find the work satisfactory and are happy to read that you find the manuscript worthy of publication. Thank you for taking the time to review our work.

We agree that gravity gradients, also need to be benchmarked. We are considering a future publication on this in line with ESA's 3D Earth project deliverables. A dedicated book chapter will be about benchmarking satellite gravity gradients. We will make sure to connect that chapter to this study and the related codes. For this publication we feel that it would become cluttered with results and therefore we decided to stick to the components presented in the manuscript.