

Solid Earth Discuss., author comment AC3
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Reply on EC1

Barend Cornelis Root et al.

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-AC3>, 2022

Dear Juliane,

We appreciated the time and effort you took in improving our manuscript

We have added the tests as a dataset in 4TU.researchdata database, where the GSH code is also uploaded. It is currently under review of receiving a doi. When this is the case we will add this doi to the publication.

We have added the depth of the density layer used in that test from WINTERC-grav (Figure 5). Moreover, we have increased the labels and the size of figure 5 to enhance the readability of the graph.

We have added a statement that the previous version of the GSH code is not publicly available and was a beta.version. Furthermore, we provided a DOI link to the GSH version used in this work.

We have made improvement to the paragraph that discussed the computational times, such that it is clear which forward methodology is discussed concerning the run-time.

We have addressed our typo's accordingly and produced a change record to show them.

Furthermore, from our initial submission we received some feedback from the editorial team. We have tried to revise our reference list to be in accordance with the journal's standards. Also, we have revised figures 1 and 10 and corresponding caption and text such that the figures are more suitable for color vision deficiencies.