



EGUsphere, author comment AC1  
<https://doi.org/10.5194/egusphere-2022-733-AC1>, 2022  
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## **Reply on EC1**

Jonathan Ford et al.

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Author comment on "Seismic amplitude response to internal heterogeneity of mass-transport deposits" by Jonathan Ford et al., EGU sphere,  
<https://doi.org/10.5194/egusphere-2022-733-AC1>, 2022

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Dear Dr Pilia,

Thank you for handling the editing of this submission. We have read the comments from the two reviewers and revised the manuscript accordingly. I have uploaded an updated version of the manuscript and a 'track changes' version alongside this response letter. Please see below our detailed responses (in red) to the reviewers' comments, accompanied by a list of changes from the original submission.

In the revised submission, we have taken advantage of additional high-performance computing resources to re-run the original experiments at higher resolution and adjusted the parameters of both the single- and multi-source synthetic experiments to be more relevant to the Black Sea case study example. I draw your attention, in particular, to the revised Supporting Information, where we have included new data and several new modelling experiments which we hope will address some of the reviewers' concerns surrounding how representative the models are, and the generalisability of the reported amplitude reduction effect.

I would like to take the opportunity to thank both reviewers for taking the time to read the submission and for providing constructive feedback.

Kind regards,  
Jonathan Ford (on behalf of the authors)