

Interactive comment on “Constraining stochastic 3-D structural geological models with topology information using Approximate Bayesian Computation using GemPy 2.1” by Alexander Schaaf et al.

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Thank you very much for your constructive review of our manuscript. We have incorporated many of your suggested improvements into our manuscript and believe this has significantly improved its quality and readability.

Most importantly, we have added our reasoning behind the choice of prior parameters and our reasoning behind choosing a known topology graph as our constraint. Additionally, we have revised the mathematical notation throughout the paper to make

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it consistent and in line with the cited literature and have edited so that definitions of technical terms appear before use of them. The placement of the figures will be subject to the final paper typesetting done by the journal and is thus not final in the current manuscript. We have addressed many of the suggested improvements to language, grammar and figure annotations to improve readability.

Please find all our detailed responses to your comments in the supplementary material, along with the change-tracked manuscript.

Please also note the supplement to this comment:

<https://gmd.copernicus.org/preprints/gmd-2020-136/gmd-2020-136-AC1-supplement.zip>

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-136>, 2020.

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