Geoscientific Model Development Discussions

Geosci. Model Dev. Discuss., referee comment RC2
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Comment on gmd-2021-377

Anonymous Referee #2

Referee comment on "loopUI-0.1: indicators to support needs and practices in 3D geological modelling uncertainty quantification" by Guillaume Pirot et al., Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2021-377-RC2, 2022

Dear Editor

Determining the uncertainty in geological models is a crucial steps as it directly affects the next steps of geoscience projects.

In this Manuscript the authors have proposed some indicators for determining the uncertainty in the geological models. This is interesting and well written manuscript. I found this manuscript to be a very interesting read, specially from practical point of view, and one that is certainly worthy of publication

I have just some small comments that I would like to be addressed by the authors:

Beside the indicators that you have already mentioned in manuscript, What other parameters one can used as an indicators (local or global) for determining uncertainty in geological models?

You have proposed different uncertainty indicators. Which of proposed indicators would be preferred to use firstly? Which of them are more reliable and adequate for determining uncertainty?

Line 294: I don't consider Wikipedia as a scientific reference. Please eliminate it from you manuscript.