

Dear Riccardo Reitano,

We are grateful for your comment which helped improve on clarity of the manuscript. The specified point has been considered and the sentence rephrased, which we refer to in our co-listing reply below.

Best,
Anna-Katharina Sieberer and co-authors.

Public justification (visible to the public if the article is accepted and published):

Lines 372-373: I would rephrase the sentence explaining better the role of reference model. It is the simplest model in the way that is the models used as "starting point" from which the Authors changed parameters, adding more complexities that control models' evolution. The effect of the parametric study on models' evolution is explainable because there is a reference to compare results to, as the Authors did in section 4.2.

- **Author's reply:** Thank you for your comment on adding further explanation on the role of the reference model. We very much agree with your suggestion and modified the sentence according to your suggestion to: "Model 1 serves as reference model as it is the relatively simplest experiment of our study, representing the starting point for changes of various parameters (parametric study, section 4.2) and for the gradual addition of complexity in the subsequent models."