

Interactive comment on “On the Effect of Model Parameters on Forecast Objects” by Caren Marzban et al.

Anonymous Referee #1

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General comments: The paper has been well presented. It has been mentioned that the paper introduces a novel framework. However, it seems that the current authors have used existing methodologies of clustering/statistical analysis that have already been applied to similar problems. Clustering of object fields is a well researched area of study. Therefore, it is not clear how this work adds to the literature. Also, the paper does not provide any specific guidelines on the choice of algorithms and leaves the reader with an ambiguous mind. With these changes, the paper may become a good guidance paper for sensitivity studies.

Specific comments: 1. Please elaborate the abstract to cover some key contributions of the paper or a summary of results in 1-2 sentences. It is incomplete to get the idea of the paper in the current form. 2. At the end of introduction, add more details of the

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work done in this paper. Also, add an outline of the various sections that follow. 3. If the goal of the paper is to introduce a novel framework, a flowchart of steps involved in the methods section would be useful.

Technical corrections: 1. Figure 1, 2 and 3 can be made larger and Figure 2 and 3 can spread on the full page. The barplots are hardly visible. 2. Line 78 Provide 1-2 sentence information of COAMPS. What kind of model is it ? 3. Line 115- Does this mean that each model parameter had 9 values associated with it.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2017-273>, 2017.

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