

Interactive comment on “Finding the Goldilocks zone: Compression-error trade-off for large gridded datasets” by Jeremy D. Silver and Charles S. Zender

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Received and published: 28 October 2016

We wish to thank the reviewers to taking the time to read the manuscript and provide feedback. We note that we have taken the challenge of major revision seriously and reworked the analysis to a much more fine-grained level, included a range of new and interesting results, remade all the figures, and restructured and rewritten much of the text. We believe that the reviewers' comments have helped to improve the manuscript and strengthen our findings.

Please see the other replies which include the revised manuscript and a summary of changes.

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1 Reviewer 2's comments to Review 1

1. *Very nice review, much more detailed than mine. We seem to have homed in on the same insights: the differences in dimensions are the valuable part of the paper, and they aren't explored in enough detail to warrant a lot of enthusiasm in the current state of the paper. My current feeling is a very “weak” accept, and I would prefer to ask for further exploration of the dimension ideas.*

Following the suggestions from Reviewer 1, the analysis and results have been considerably expanded and the revised manuscript offers further perspectives into the relationship between lossy compression, the resulting error and underlying complexity of the data.

Interactive comment on Geosci. Model Dev. Discuss., doi:10.5194/gmd-2016-177, 2016.

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