

Interactive comment on “terrainbento 1.0: a Python package for multi-model analysis in long-term drainage basin evolution” by Katherine R. Barnhart et al.

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We thank the reviewers for their thoughtful and constructive comments. Incorporating these comments has improved the clarity and structure of the manuscript. Based on reviewer comments we have made the following changes to the manuscript text:

- Fixed the typos pointed out by reviewer 1 in lines 802 and 904.
- In response to reviewer 2’s recommendation #1 we moved the initial explanation regarding the relationship between the number of binary choices and the number of models earlier in the document. Specifically we changed text in the abstract
C1

and in the introduction.

- We revised the text regarding numerical smoothing of functions with hard thresholds (reviewer 2’s comment #2). We agree with reviewer 2 that the best place to do this is at the first mention of the smoothed functions.
- Based on reviewer 2’s comment #3 on terminology, we have revised to text to qualify the word “model” wherever necessary.
- In response to reviewer 2’s comment #4, we revised Figure 1 to have larger legends and no scientific notation.
- Additionally, we made many in-text changes in response to reviewer 2’s supplementary file which contained a scan of the manuscript.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2018-204>, 2018.