

Interactive comment on “Growing topography due to contrasting rock types in a tectonically dead landscape” by Daniel Peifer et al.

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Received and published: 29 October 2020

Two points:

Your study is exhumation of a passive margin landscape. There's some good work by Zondervan et al 2020 Earth and Planetary Science Letters who look at rock strength / erodibility in a collisional mountain belt (High Atlas, Morocco), but in a post orogenic phase (i.e. tectonically dead / quiescent). The relevance of this Zondervan work is that it is an inverted rift, with a post-rift, syn-rift cover and basement craton geology and thus the patterns and directions of exhumation are all rock strength and structure controlled.

The Brazilian passive margin is considered to be reactivated tectonically within the

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Neogene, as per the very large volume of local Brazilian case study geomorphology / structural literature, which I think warrants some explanation.

Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2020-68>, 2020.

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