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Solid Earth Discussions

Interactive comment on "Control of increased sedimentation on orogenic fold-and-thrust belt structure ndash; Insights into the evolution of the Western Alps" *by* Zoltán Erdős et al.

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The manuscript, " Control of increased sedimentation on orogenic fold-and-thrust belt structure –Insights into the evolution of the Western Alps" by Erdos et al., presents an innovative numerical study investigating the evolution of orogenic fold-thrust belt structures with control of intensified surface process, i.e. sedimentation coupled with erosion. Their presented models show all detailed structures of thin-skinned and thick-skinned fold-thrust belts similar to that observed in natural examples, which is further used to investigate in high detail the development of basement thrusts and topography. I enjoyed reading this paper, which I think is a useful reference work for

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Discussion paper

the literature on fundamental thrust belt mechanics in various tectonic settings. The text is very well-written and easy to follow, I recommend only minor modifications.

Please also note the supplement to this comment:
https://www.solid-earth-discuss.net/se-2018-122/se-2018-122-RC1-supplement.pdf

Interactive comment on Solid Earth Discuss., https://doi.org/10.5194/se-2018-122, 2018.

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