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Solid Earth
Discussions

Interactive comment on "Channel flow, tectonic overpressure, and exhumation of high-pressure rocks in the Greater Himalayas" *by* Fernando O. Marques et al.

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Our response to comment on Section 3.5 is erroneous. Where you read:

Section 3.5: Yes, an important condition, but the authors show no results. A figure with these simulations results can be added to the Appendix. Figure added. Section now rewritten as follows: "3.5. Condition at the bottom boundary This is a critical boundary condition because it is directly related to the retention of overpressure. When we assign an outlet pressure (calculated lithostatic pressure at the depth of the bottom wall) to the bottom wall, TOP develops, but with lower magnitudes in the whole channel (supplementary figure)."

You should read:

Section 3.5: Yes, an important condition, but the authors show no results. A figure with these simulations results can be added to the Appendix. Figure added. Section now rewritten as follows: "3.5. Condition at the bottom boundary This is a critical boundary condition because it is directly related to the retention of overpressure. When we assign an outlet pressure (calculated lithostatic pressure at the depth of the bottom wall) to the bottom wall, TOP does not develop."

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