

Author's Response

Prepared by Roberto Fernández on behalf of both authors

We would like to thank the editor Niels Hovius, AE Jens Turowski and the two anonymous reviewers for their feedback on the manuscript.

In attention to the AEs last suggestions:

1.15 grammar: something missing here, maybe '...which is in spite...'?

12.13 parentheses should include 'below', i.e., (Eq. 4 below)

We have not modified 1.15. We believe that the sentence is correct. In the manuscript we discuss the relevance (or irrelevance of scale) of our experiments which in spite of being in the laminar regime... shed light on certain processes.

We have modified 12.13 for clarity. The word 'below' refers to Weber numbers below which surface tension effects might be important. We have modified the text as follows:

Peakall and Warburton (1996) summarize some empirically suggested guidelines for critical Weber numbers (Eq. 4). The authors suggest values below which, surface-tension induced distortion may be expected in experimental work involving small scale channels.

Thanks again for your very valuable feedback and time!