

## ***Interactive comment on “Strain localisation in mechanically Layered Rocks, insights from numerical modelling” by L. Le Pourhiet et al.***

**L. Le Pourhiet et al.**

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We would like to thank you for your constructive comments and for the annotated manuscript you provided us which will be very useful to revise the manuscript and especially to be more careful with terms relative to structural geology that we clearly have mis-used all along the manuscript.

We will try to conduct a simplified non dimensional analysis for visco-plastic material following the suggestion of the anonymous reviewer but given the boundary condition we have been using, we will not be capable of completely non-dimensionalize the study especially for the case of very high viscosity contrast when the strong layer become effectively elastic.

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We will make a particular point at clarifying what we mean by large (model scale) and small (layer scale) structures.

once again, thanks for the annotated manuscript.

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Interactive comment on Solid Earth Discuss., 4, 1165, 2012.

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