



EGUsphere, author comment AC3
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Reply on CC1

Nicolás Molnar and Susanne Buiter

Author comment on "Analogue modelling of the inversion of multiple extensional basins in foreland fold-and-thrust belts" by Nicolás Molnar and Susanne Buiter, EGU sphere, <https://doi.org/10.5194/egusphere-2022-1014-AC3>, 2023

Dear Frank Zwaan,

Thank you very much for the time taken for reading our manuscript and commenting on how to improve our illustrations! An additional pair of eyes is always very welcome.

Following your suggestions, which were in line with the reviewers' comments, Figures 5-7 have been accordingly modified to show the end of the extensional stage, just prior to compression. Also for Figures 4 to 10, uninterpreted photographs of the experiments have been added for a better judgment of our results. Hopefully the illustrations now depict a clearer image of the inversion-related deformation features.

Finally, Figure 8 has been modified to make it easier to differentiate between rift-related faults and inversion-related faults. Light blue lines with white outline have been chosen to make it colourblind-friendly. For consistency, lines in Figure 10 have also been modified to match color for the same type of features observed in the models throughout the whole paper. I am unsure which reverse fault in Fig. 8c the comment is referring to, but yes, all light blue features are associated with the extensional stage.

Please do not hesitate to reach out to us for further clarification in any of the responses given!

Best regards,

Nicolás Molnar