In this file, there are responses to the Associate Editor.

We thank the Associate Editor for a quick reply.

To better observe communicating our response, we divided our responses into three categories: Agree/Clarification/Disagree.
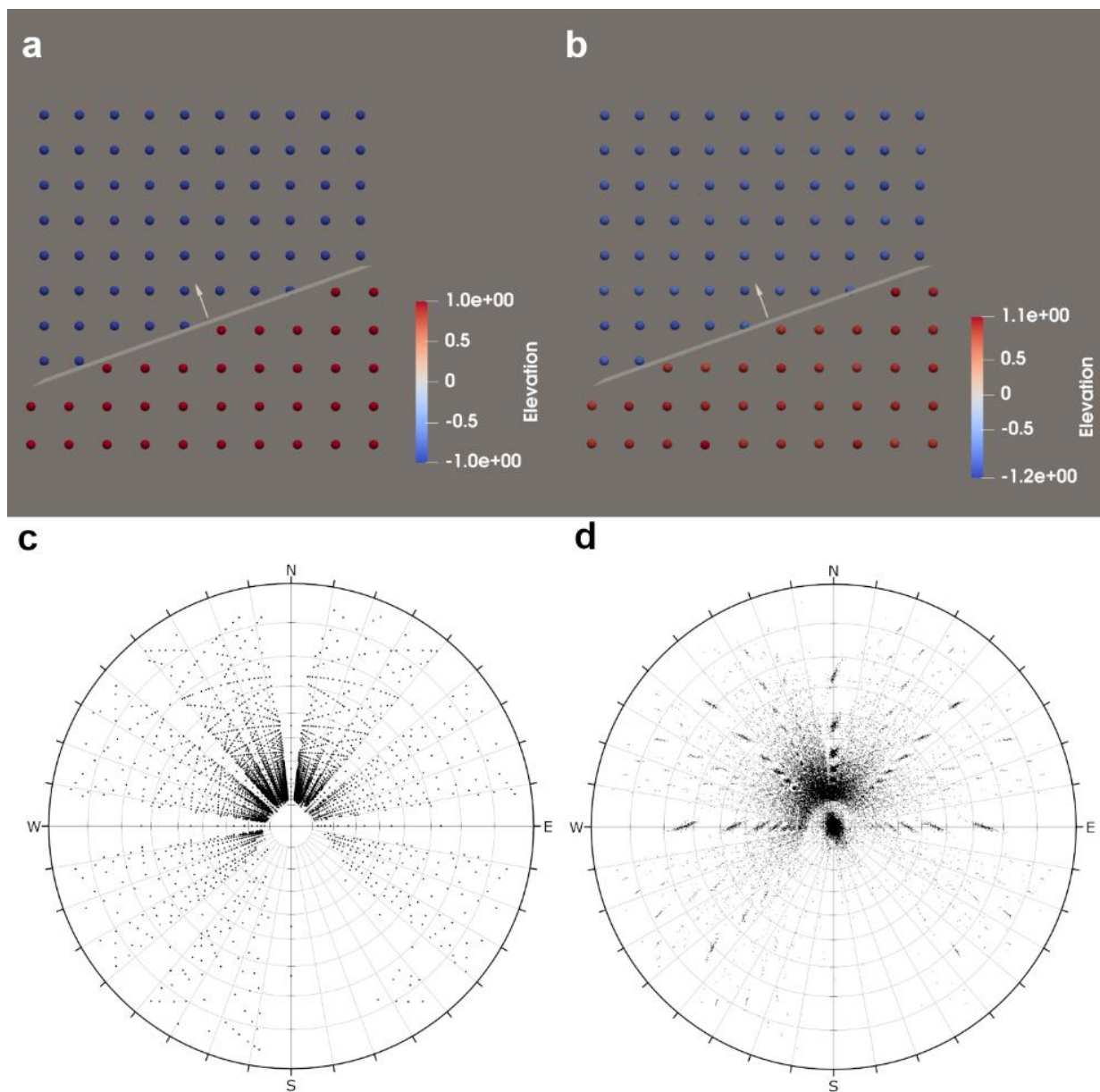
Responses to the Associate Editor

1.

Suggestion, Question, or Comment from the Associate Editor	Author's Response	Change in the Manuscript
Thank you for your prompt response. For Figure 6 - I'm still unable to assess the point you make with the figure projection you provide in the response (e.g., map view). Can you provide a version of Figure 6 that has panel 'a' next to a new panel 'b' which has the same colourmap as panel 'a' (e.g., top down view, scale from 1.1 to -1.1)? Then we can compare whether panel 'a' and panel 'b' show any differences in colour variation (as you mention).	**Clarification** Yes, it is possible to provide a version of Figure 6 with two panels that have the same colourmap (see the screenshot attached below). In our opinion, panel (b) looks very similar to panel (a). Please note that due to compression the embedded file here is not of the best quality and the corresponding author has sent an e-mail with the figure – it seems that the system does not offer to provide any additional files except the manuscript and responses. Regarding potential questions about ranges: We are not entirely certain why the displayed ranges differ, but we suspect it may be due to different ParaView versions used during figure generation.	Please note that we haven't changed the figure in the manuscript. However, we can do this after the comparison and a potential request.

An additional suggestion:

In case of more granular analyses, please note that the files for visualization (PVSM and VTK) are available in our Zenodo repository. For example, if you'd like to open the panel (b) in ParaView, please visit the below attached Zenodo repository. In ParaView, click „Load state" and choose the „fault_oblique_regular_grid_error_with.pvsm" file. Then, provide the path for the file „fault_oblique_regular_grid_error_with_Cloud.vtk".

References:

Michalak, M.: Computational modeling and analytical validation of singular geometric effects in fault data using a combinatorial approach - Input and processed data, https://doi.org/10.5281/zenodo.13986509, 2024a

2.

Suggestion, Question, or Comment from the Associate Editor	Author's Response	Change in the Manuscript
We do not need the previous clarification to the caption of: "„Due to the subtle elevation differences, a top view was chosen to better illustrate the spatial layout of the points in map view; in such a projection, elevation variations are not	**Agree/Clarification** We agree that the term *"map view"* is not discussed in the manuscript. However, with this clarification we aimed to emphasize the	We've deleted the clarification from the manuscript.

visually evident, hence a carefully adjusted color scale (b) is crucial for interpretation." We don't discuss map view in the paper and as such it would be confusing to the reader.	*layout* — that is, the spatial arrangement of points relative to the fault strike and the boundaries of the study area. Nevertheless, we have removed this sentence from the caption and will wait for any further suggestions regarding the wording.	