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Interactive comment

Interactive comment on "A first estimation of the contraction related to vertical axis rotation: the case of the Ibero-Armorican Arc formation" by Josep Maria Casas et al.

Anonymous Referee #1

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This manuscript is related with the Ibero-Armorican Arc and its title suggests that estimations of the contraction related to vertical axis rotation would be presented. This sound very interesting, nevertheless, it fails as –in my opinion– these estimations are very, very rough and are not presented rigorously. Moreover, the manuscript is not well structured, discussion is mixed with geological setting and the data are not clearly presented. Specific comments are summarized below: "1. Introduction (Lines 27 to 60)": Unless the lector know very well the cited papers, the introduction is difficult to follow. The authors should summarize in a few words what is necessary to know for the manuscript understanding. I am surprised that the term of "progressive arc" does not appear at any moment of the introduction, as it is one of the main models of arc

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as far as I understand, the authors wonder about the existence of the Ibero-Armorican

Arc. In that case, I don't understand why they are making estimation of the contraction related to vertical axis rotation. They should have begun with the discussion of these correlation problems. This is very confused. The remaining discussion is also difficult to follow, as they cite of a lot of localities and case studies not localized in the manuscript figures. "7. Conclusions": In my opinion, according to what I exposed in the previous paragraphs, the conclusions are not supported by the data.

For all these reasons, the manuscript should be rejected in its present form and be totally rewritten and reorganized following the comments I made, if possible.

Interactive comment on Solid Earth Discuss., https://doi.org/10.5194/se-2020-126, 2020.

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