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your response to "Comments regarding interpretation"

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Interactive comment on “Lithospheric and sub-lithospheric deformation under the Borborema Province of NE Brazil from receiver function harmonic stripping” by Gaelle Lamarque and Jordi Julià

Caroline Beghein (Editor)

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Dear author,

Thank you for the thorough revisions to your manuscript. I would love to see the interpretation justification that you wrote in the response to reviewer 2 included in the manuscript itself: "A complex combination of LPO and SPO could be present in the mantle, although LPO is likely to dominate (Nicolas and Christensen, 1987; Silver 1996; Mainprice et al., 2000); fractures and cracks or fine layering, could addition-

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Discussion paper



ally contribute in the crust. For that reason, our interpretations focus dominantly on mantle anisotropy, consistency of anisotropy within the lithosphere (crust and mantle), and regional-scale trends. And, to avoid a bias related to local features, we refrain from interpreting small-scale variations in anisotropy within the crust."

Please, include those few sentences in your paper. Thank you.

Caroline Beghein

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-41>, 2019.

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