

Interactive comment on “Permian plume beneath Tarim from receiver functions” by Lev Vinnik et al.

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Dear authors,

Thank you for addressing reviewer 1's comments. I would like, however, to see a more detailed response in a couple of places:

- (1) Your response to "Expand on evidence used for "partial melt" and alternatives. Not all low velocity mantle anomalies are partial melt." was not satisfactory in my opinion. Melt may be the explanation often adopted by authors, but other explanations have been discussed in the literature (e.g. Jasbinsek et al 2010; Tauzin et al, 2010). It would be good to discuss these other options and why you dismiss them. For instance, could seismic anisotropy provide an explanation? accumulated oceanic crust? CO₂? etc...
- (2) The reviewer suggested you add an event coverage figure. You added Table 1

C1

instead, but I believe a figure displaying the numbers of Table 1 would be beneficial. This was also suggested by Reviewer 2.

Thank you.

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2018-41>, 2018.

C2