

Interactive comment on “Extrusion dynamics of deep-water volcanoes” by Qiliang Sun et al.

Qiliang Sun et al.

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Dear Dr. Alexander L. Peace,

We thank you for your positive assessment of our work and the useful comments. The detailed responses to your comments are listed bellows:

Comment 1: Figure 1a would benefit from a key (i.e. the red, green and blue symbols that are described in the caption). Response 1: We have added the symbols in the figure caption to the image.

Comment 2: On Figure 2 some of the text for the different logs is very small and difficult to read, particularly the units. I suggest making these larger. Response 2: We have made the font twice as large to make them easier to read.

Comment 3: In the caption for Figure 5, the mentions of '(a)' and '(b)' could be better

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placed to describe the figure. As it is they are both at the start of the caption which reads a little awkwardly. Also, Figure 5a might be better with a colour bar. Response 3: We have changed the locations of (a) and (b) in the figure caption to make them easier to understand. We also added a colour bar to Figure 5(a).

Comment 4: There is a minor grammatical error in the acknowledgements (the 2nd “have” isn’t necessary). Response 4: We could not find ‘have’ in the acknowledgements; maybe you were referring to the ‘Author Contribution’? Please note that we have carefully revised the main text to remove all grammatical errors.

Comment 5: Finally, another good example of a seismic reflection study on offshore volcanoes that may be of interest to the authors is by Keen et al. (2014) on the Charlie-Gibbs Volcanic Province. References Keen, C.E., Dafoe, L.T., and Dickie, K., 2014, A volcanic province near the Western termination of the Charlie-Gibbs Fracture Zone at the rifted margin, offshore northeast Newfoundland: *Tectonics*, v. 33, no. 6, p. 1133–1153, doi: 10.1002/2014TC003547. Response 5: We have read and now cite this paper.

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