

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

**Qiliang Sun et al.**

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Received and published: 3 July 2019

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 belows:

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

C1

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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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-87>, 2019.

C2