

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

Qiliang Sun et al.

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Dear Dr. Weiwei Ding,

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

Comment 1: Line 45: change ‘volume’ to ‘volumes’.

Response 1: We have changed ‘volume’ to ‘volumes’ (Line 43).

Comment 2: Line 65: only the volcanoes that presently stand out the seabed can be imaged by the bathymetry and remote sensing data. Therefore, please add ‘present’ before ‘deep-water volcanoes’.

Response 2: We have added the word ‘modern’ before ‘deep-water volcanoes’ (Line

C1

70).

Comment 3: Line 120: add ‘edifice’ after volcano;

Response 3: We have added ‘edifice’ (Line 128).

Comment 4: Line 205: change ‘volcano’ to ‘volcano edifice’ or ‘volcano construction’. V1 is a volcano edifice and don’t include the lava flows;

Response 4: We added ‘edifice’ after ‘conical volcano’ (Line 212).

Comment 5: Line 236: Please label the age of V1 here; it is easier for the author to compare the ages of V1 and V2;

Response 5: We have added the age of V1 (‘~6.5 Ma’) (Line 244).

Comment 6: Line 259: Same to above; please label the age of latest Pliocene? 2.58 Ma?

Response 6: Yes, it is about the same age or slightly older than T0. It is labeled in Line 267.

Comment 7: Lines 671-683: please carefully check the figure captions and make it clearer. For example, Ds is marked in the Figure 1a. However, it is not interpreted in the figure caption;

Response 7: We have improved labelling in Figure 1 and updated its figure caption (Lines 687-700).

Comment 8: Line 690: revise ‘refection’ to ‘reflection’;

Response 8: We have revised the caption for Figure 2 (Line 750).

Comment 9: Please mention A-A’ and B-B’ are the locations of Figure 6 and 7 in the caption.

Response 9: We have modified the caption to show the locations of Figure 6 and Figure

C2

7 (Line 726).

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