

## ***Interactive comment on “Lava flow hazard at Fogo Volcano, Cape Verde, before and after the 2014–2015 eruption” by N. Richter et al.***

**N. Richter et al.**

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We very much appreciate the provided comments. We incorporated all suggestions into the manuscript as follows (please refer to the AC1 supplement for an updated, but still intermediate version of the manuscript):

Page 1, line 35

Author reply: Typo corrected

Page 2, line 8: reference missing for “flank failure in the Quaternary period”

Author reply: Comment accepted, however, we have moved this paragraph to section 2 and deleted this sentence in response to a comment from reviewer 1.

Page 2, line 11/12: reference missing for “Since that time three major eruptions oc-

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curred at Fogo Volcano (1951, 1995, and 2014-2015), all of which affected the Chã.”

Author reply: Reference added. We have moved the whole paragraph to section 2 in response to a comment from reviewer 1 (page 3, line 11-17).

Page 3, line 7: TLS

Author reply: TLS explained (now page 2, line 32).

Page 3, line 22/23: reference missing for “Fogo Island is one of the youngest volcanic islands of the Cape Verde Archipelago in the Atlantic Ocean and is built up from the remnants of one single giant volcano, known as the Monte Amarelo Volcano.”

Author reply: Reference added (page 3, line 1-2).

Page 4, line 17 GFZ

Author reply: GFZ explained (page 4, line 2).

Page 4, line 18: 11 January 2015 and 21 January 2015

Author reply: First case of January 2015 deleted (page 4, line 11).

Page 4, line 26: put per instead of x here: “scene size  $\sim 10$  km x  $\sim 10$  km”

Author reply: We have changed the “x” for the mathematical version “ $\times$ ” (page 4, line 18).

Page 4, line 29: put and instead of to in the sentence: “The temporal offset between the tracks ranges between  $\sim 12$  h (for the ascending and descending pairs 57/64 and 148/155) to  $\sim 6$  days.”

Author reply: We have deleted this sentence according to the suggestion of reviewer 1.

Page 9, line 18 and page 9 line 28: different values for lava flow coverage

Author reply: We took the value from the coherence mapping (page 9, line 6).

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Page 9, line 30, 31, 34, 38 and 39(2x): per instead of x

Author reply: We have changed the “x” for the mathematical version “ $\times$ ” (page 9, sect. 4.2, paragraph 3)

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