

# ***Interactive comment on “A retrospective study of the pre-eruptive unrest on El Hierro (Canary Islands): implications of seismicity and deformation in the short-term volcanic hazard assessment” by Stefania Bartolini et al.***

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We would like to thank the Anonymus Referee #2 for her/his comments useful to improve some aspects of our manuscript.

We here reply point by point at the comments:

1. Line 165: "GPS station began to rotate to the North". Perhaps the authors mean that the GPS station translated towards North.

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Changed

2. Line 215: "Data was grouped" -> "Data were grouped"

Modified

3. Lines 254-256: The authors consider as a new parameter the "slope of the inverse of the RSAM". This is not clear, since it could be interpreted either as the instantaneous derivative respect to time of the parameter ( $1/\text{RSAM}$ ) [ie:  $d(1/\text{RSAM})/dt$ ] or the slope of ( $1/\text{RSAM}$ ) taken in a larger time-window (eg: the slope of the line best-fitting  $1/\text{RSAM}$ , etc.). Moreover, this new parameter is not reported in the figures.

We consider the slope of the line best-fitting ( $1/\text{RSAM}$ ). Modified in Table 1 and in the Supplementary material the RSAM with ( $1/\text{RSAM}$ )

4. Line 367: "eruptive phase". Do you mean "unrest phase"?

We refer to the eruptive phase, because after previous unrest phases the system is getting ready to erupt

5. Line 439: It seems that the eruption began 11 October, in contrast with line 152 (10 October).

Modified

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2017-243>, 2017.

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