

# ***Interactive comment on “UAV survey method to Monitoring and analysing geological hazards: The Case study of mud volcano of Villaggio Santa Barbara, Caltanissetta (Sicily)” by Fabio Brighenti et al.***

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UAV survey method to Monitoring and analysing geological hazards: The Case study of mud volcano of Villaggio Santa Barbara, Caltanissetta (Sicily)

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A pdf file of the reviewed manuscript is attached as supplement file. The changes in the text are marked with green for rephrasing, reorganised and new parts added, and with yellow the changes suggested by the referees.

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I suggest an improvement for the literature, some recent and important paper are missing.

Reply: We have followed the suggestion. The bibliography has been improved, including papers from 2018 to 2020.

The methodology must be improved, both regarding the UAV survey and SfM processing.

Reply: The chapter of methodology was improved and clarified through rephrasing and the addition of the Results chapter.

Figure 1 cannot be the Orthomosaic resulting from processing, it is a result

Reply: We have substituted Figure 1 with an aerial photo of the study area.

Conclusions must be rewritten avoiding the long list of citation.

Reply: The conclusion has been rewritten. The paragraph with the long list of references has been moved to the Introduction chapter.

Add the reference system in all figures.

Reply: The reference system has been added to all figures.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2020-378/nhess-2020-378-SC3-supplement.pdf>

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