

***Interactive comment on* “The mud volcanoes at Santa Barbara and Aragona (Sicily, Italy): Their potential hazards for a correct risk assessment” by Alessandro Gattuso et al.**

Anonymous Referee #1

Received and published: 7 December 2020

Dear Editor, I do apologize for the delay with which I am submitting the comments to the paper of Gattuso et al.

I would like to see this paper published because it would theoretically deserve interest in the field of potential hazards and risk assessment of mud volcanoes eruption sites.

The paper should be deserve to publish after making some technical corrections and adding more references which are closely related to the topic of the paper.

The manuscript is quite clear but poor in the theoretical approach. Authors speak about the big eruptions related on the MVs but do not take into account a series of bibliographical references relating to huge emissions of mud in similar geological conditions

in other sites of the world. Especially works in which the multidisciplinary approach through the joint use of geophysical, geochemical methods and images from drones and or cameras have already been used. One example out of many is that of the works published on Lusi MV in Indonesia.

Specific remarks are reported in the attached file.

Best regards

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2020-369/nhess-2020-369-RC1-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-369>, 2020.

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