

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC1  
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## **Comment on nhess-2021-208**

Anonymous Referee #1

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Referee comment on "Earthquake-induced landslide monitoring and survey by means of InSAR" by Tayeb Smail et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-208-RC1>, 2021

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The authors show the application of the differential interferometric technique to evaluate the ground displacements induced by an earthquake. The images processed by the SNAP software application are SENTINEL-1. Finally, they validate their findings with SENTINEL-2 optical image analysis. The work has several shortcomings in all its parts and is poorly written. All sections are in need of thorough revision. Some of them could be deleted as they have only two lines. Some software is introduced without explaining its usefulness (LiCSBAS, LiCSAR). Declaring to use SENTINEL-1 images, even reporting tables, the authors do not clarify which images they actually used. The whole iconographic part is illegible and unclear. The results are presented in a confusing manner. The citations used in the context of interferometry theory are inadequate as they do not take into account historical works (Hanssen, 2001, Franceschetti et al., 1992, Gabriel et al., 1989....). Validation with optical data is practically absent. Having said this, I believe that the work should be rejected.