

Interactive comment on “Geophysical and Geodetical Investigation of A Landslide Area (Koyulhisar-Sivas, Turkey)” by Sevda Özel et al.

Anonymous Referee #1

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Dear Authors,

in recent years, geophysical imaging of landslides has gained acceptance for the investigation of landslides, whereas geodetical methods (e.g. GNSS) have already been widely used. On that account, I was excited to read about the first application of geophysical methods at the Koyulhisar (Sivas) landslide in combination with geodetical investigations and I found it to be a topic worth being published.

However, I see a lot of problems with the presentation of both the geophysical and the geodetical data and the structure of the manuscript. In particular, the section discussing the geophysical results needs some restructuring and more details regarding the interpretation of the observed signatures as well as a more detailed validation with other existing data. Also geological information is presented in different section,

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whereas it would make more sense to present it collected in the a "Geology" or "Site description" section. This makes manuscript in parts very hard to read and follow.

My biggest concern is however the in my opinion missing geodetical aspect in the manuscript which in turn does not permit the current title. The section about the geodetic surveys is heavily based on the publication by Hastaoglu et al (2015) which is not in the reference list and I further also was not able to find it during a quick search. Hence, I could not evaluate the data the manuscript is referring to. I would recommend to either present detailed geodetical data which can be concisely linked to the geophysical data or remove it from the manuscript and just focus on a proper presentation of the geophysical data (SRT, GPR and seismological data).

For detailed comments please find the attached PDF.

Kind regards

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2018-153/nhess-2018-153-RC1-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-153>, 2018.