

***Interactive comment on “3-D visualisation of palaeoseismic trench stratigraphy and trench logging using terrestrial remote sensing and GPR – combining techniques towards an objective multiparametric interpretation” by S. Schneiderwind et al.***

**Anonymous Referee #1**

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General comment:

The paper shows multiparametric analysis and interpretation of stratigraphy exposed on trench walls. I personally find always positive the search for new innovative methods to apply in specific research activities, in this case paleoseismology. The attempts to improve our detections are a fundamental for obtaining quality data. For this reason a main criticism to the paper is the lack of a clear discussion/statement on the

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improvements and advantages that the proposed analysis provide to the conventional log of the two studied wall exposures. Also, exploring the cases where the shown methodology can represent an alternative. A wider description of the additional information, including accuracy, extracted by the combination of the trenching techniques and t-LiDAR measurements is mandatory. The 3D information from GPR survey is a part that also needs to be expanded. In general, illustrations should be improved, see notes in the attached file. Specific comments, notes and suggestions are addressed individually within the attached file. Because of the reasons and also for substantial clarification needed, my opinion is that the manuscript requires major revision.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/7/C1217/2015/sed-7-C1217-2015-supplement.pdf>

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Interactive comment on Solid Earth Discuss., 7, 2697, 2015.

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