

Interactive comment on “The analysis of H/V curve from different ellipticity retrieval technique for a single 3c-station recording” by Irfan Ullah and Renato Luiz Prado

Anonymous Referee #1

Received and published: 26 December 2016

The authors use different approaches from the literature for studying the contribution of the Rayleigh waves to the H/V curve, comparing the obtained results with the expected ellipticity curve of a well-known site.

They do not contribute with any different approach or advance in the study of the wave composition of the noise signal.

They have used only one site for the study. Thus, they compare the obtained results with the ones known from a borehole. A more robust work would need the analysis of different sites with different soil characteristics. Besides, the characteristics of the site (lithology or Vs profile is not provided)

C1

As they comment in the introduction section, they "... try to list the different approaches used for the refining of H/V curve by removing the unwanted fraction (Love wave effect presence) prior to the joint inversion with dispersion curve". But, how do the different studied approaches influence in the estimated soil profile? How do some of the small observed differences modify the Vs profile? It has been not analyzed.

The English writing is really very poor.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-370, 2016.

C2