

Interactive comment on “noisi: A Python tool for ambient noise cross-correlation modeling and noise source inversion” by Laura Ermert et al.

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This work aims to fill a significant information gap in the field of seismic ambient noise. Authors did an excellent job in articulating the importance and capabilities of the “noisi” package.

Therefore, my comments are mainly stylistic in nature.

-Lines 30-, I am not sure if DSurfTomo will qualify for ambient noise data processing tool.

-Please introduce “Syngine” as “The IRIS Synthetics Engine” at the beginning.

-For equations 1 and 2, convolution and correlation terms are used in the text. However,

C1

the equations itself are in the frequency domain and are in multiplicative form.

-Equation 3 has a minor typo.

-Page 9, Line 240 is vague, and itself does not make much sense.

-Figure 3 caption has autocorrelation, but all of the waveforms are from cross-correlations.

-Section 5.2: Are the sources in Figure 6 simultaneously or randomly occurring. Is there any delay? And what is the frequency content?

-Between 345 and 350 “wave forms” should be “waveforms”.

Figure 6: Rather than giving coordinates, please mark/number the selected stations and use them in the waveform plots

I found the use of logarithmic signal ratio and asymmetry inversion confusing. Can you please describe it further or rephrase the part in Lines 310 onwards.

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2020-57>, 2020.

C2