

## **Comment (*minor revision*) on se-2021-21 by Joachim Ritter Referee #2**

We sincerely thank Joachim Ritter for the valuable comments which will help to improve the paper. Please find a point-by-point response to the comments. Our responses are in red.

On behalf of all authors, Yours sincerely,

Fabian Limberger

### **Comments (*minor revision*) by Joachim Ritter Referee #2:**

Dear authors,

the revision of the manuscript is well done in my opinion. Before publication I only recommend one very minor point:

On page 10, line 177 you mention that 'Previous research suggests that mainly vertically polarized Rayleigh waves are emitted ...'. Looking at two recent papers, it seems that Love waves are emitted in the same intensity as Rayleigh waves.

1) The polarization diagrams in Lerbs et al. (2020) Fig. 8 indicate a clear polarization perpendicular to the line between the wind turbine and the recording station. This is best explained by Love waves. In fact, it seems that Rayleigh waves and Love wave alternate.

This result coincides well to a

2) A new paper by Neuffer et al. (2021, Journal of Seismology, 25, pages 825–844). They also find strong indications for Love wave emission from polarization analysis on the foundation of a wind turbine.

Perhaps these indications for Love waves can be added on page 10.

Otherwise the paper can be published in its revised version.

Best regards, Joachim Ritter

We agree with these suggestions. We added a sentence on page 10 and included the article of Neuffer et al. (2021) in the reference list.