Wind Energ. Sci. Discuss., referee comment RC2
https://doi.org/10.5194/wes-2021-129-RC2, 2022
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Reply on RC1

Gudmund Reidar Eiksund (Referee)

Referee comment on "A model test study on the parameters affecting the cyclic lateral response of monopile foundations for offshore wind turbines embedded in non-cohesive soils" by Dennis Frick and Martin Achmus, Wind Energ. Sci. Discuss., https://doi.org/10.5194/wes-2021-129-RC2, 2022

The paper can be excepted as it is with a small modification. Some of the test results are covered by the legend in figure 6.

The paper presetns a model for estimating accumulated pile displacement due to cylclic loading. The influence of average and cylic loading component are well covered, but a dicussion that is missing is the influence of variable load apmplitued during the life time. How can multiple storm events be represented by an equivalent number of oad repetitions in this model?