

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC1
<https://doi.org/10.5194/nhess-2021-211-RC1>, 2021
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Comment on nhess-2021-211

Anonymous Referee #1

Referee comment on "The Influence of Infragravity Waves on the Safety of Coastal Defences: A Case Study of the Dutch Wadden Sea" by Christopher H. Lashley et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-211-RC1>, 2021

This paper describes a method to incorporate infragravity waves in the safety assessment of coastal levees. Until now, IG waves have not been explicitly incorporated in the assessment, but have been incorporated implicitly by using empirical formulas based on lab and field data (an aspect the authors should mention). While I support the explicit incorporation of IG waves, this manuscript left me with a number of questions and issues that need to be resolved before publication. These questions are indicated in the attached annotated pdf.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2021-211/nhess-2021-211-RC1-supplement.pdf>