

Interactive comment on “Quantifying iceberg calving fluxes with underwater noise” by Oskar Glowacki and Grant B. Deane

Anonymous Referee #2

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Underwater acoustics is a thrust area in the oceanography field. Arctic ambient noise analysis is much needed for studying global warming under noise mechanisms techniques. In this paper, authors trying to quantify the iceberg calving fluxes with noise. The manuscript is written very vaguely. A lot of irrelevant information's and very basics are repeating. Particularly introduction part needs reduction. It would be good if the author mentioned about anthropogenic effects during the measurement period. How the shipping noise are filtered and what method utilized. If the iceberg calving events and shipping noise occurred parallelly, special needs to be taken for analysis. I never see any branch of science under “ambient noise oceanography”. It should either oceanography or physical oceanography, change the term accordingly. Perhaps the author can change to “Ambient noise analyses”. It would be better if the author provide

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some photographs showing iceberg calvings. Please check for repeated sentences (for e.g., bathymetry profile for two acoustic buoys). Mooring information is needed (eg. Taut mooring or some other), perhaps a mooring diagram is good to present. How the author quantifies the noise datasets pertaining to only iceberg calving events. The introduction part is too large. PP No. 3, Line 20-30, I don't think it is necessary for mentioning very basics. PP No. 2, Line 20-25 are repeating at PP No. 3, Line 25-30. I suggest the author reduce the introduction part significantly. PP. No. 6 Calibration methods of camera geometry? PP. No. 7 Line 10, references required for the equation (2). PP. No. 11 Line 15, references required and please elaborate it rather than simply writing as "calculated from". Figure 6, labels are very small. What is the source for the frequency band observed at 1kHz (Figure a both A1 and A2)? PP. No. 13. Line 20. Iceberg calving events date and time stamp of occurrence are required. PP. No. 14. Lin 10. The part needs to be moved to the introduction but I don't think it is necessary. PP. No. 21. Mentioning references in the conclusion part is not necessary.

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