

Interactive comment on “Modeling of ships as a source of underwater noise” by Jukka-Pekka Jalkanen et al.

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Received and published: 1 June 2018

I agree that Gigajoules are not the most intuitive units for presenting the energy of the noise sources, but a conversion to source levels re $1 \mu\text{Pa}$ @ 100 m distance is still hard to make sense of, since the energy is cumulated over 1 year and either integrated over the 0.32 km² cell (for the map of Figure 3) or cumulated for all the ships of a certain type (Figure 5).

For a single ship (of a certain category) perhaps it would be interesting to know some sort of average source levels (e.g. SL @1m per average containership, averaged over the full year, or only over the active period); in terms of a map, the average noise levels in the field would certainly be interesting, but obviously these are not straightforward

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to calculate (the propagation from each cell out to, say, 100 km would need to be computed, etc.)

Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2018-48>, 2018.

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