

Review of: "Effects of Sediment Disturbance by the Heart Urchin Echinocardium Cordatum on the Sediment–Seawater Solute Exchange: An Exclusion Experiment"

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Potential competing interests: No potential competing interests to declare.

Overall, the article "Effects of Sediment Disturbance by the Heart Urchin Echinocardium Cordatum on the Sediment—Seawater Solute Exchange: An Exclusion Experiment" is well written and easy to read. The subject is relevant, and the approach used by the authors is suitable. However, I have some suggestions that I believe will improve the article.

- 1. Table 1 is confusing. Control and darkness are in the same column, as well as treatment and light. This creates the wrong idea that control is the same as darkness and treatment is the same as light. Please clarify it.
- 2. The standard deviation in the values of sediment-seawater flux is, in some cases, very high. Did you verify the existence of outliers? If not, I believe you should check.
- 3. Please review the sentence: "...the control sediment removed as much O2 from the bottom seawater in darkness than it did in light (table 1)."
- 4. In figure 2, legend, replace "Block arrows" with "Black arrows."
- 5. Also in figure 2, the legend is lacking information regarding the scheme of O2, NH4+, N2, NO2-, NO3-.
- 6. N2 and NH4+ are statistically different between light and dark; however, in figure 3, those differences are not marked.

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