

# ***Interactive comment on “Medusa-Aqua system: simultaneous measurement and evaluation of novel potential halogenated transient tracers HCFCs, HFCs and PFCs in the ocean” by Pingyang Li and Toste Tanhua***

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Received and published: 25 August 2020

The authors have responded to the comments of the reviewers and made a large number of changes to the manuscript. As a result, the paper is somewhat shorter and easier to read than previously and more of the details have been placed in the supplementary material. I believe that the paper now needs only a few relatively minor changes to be suitable for publication, but would like to give reviewers #2 and #3 a chance to comment on the revised version.

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Discussion paper



Some comments I have are:

1. The abstract does not mention the samples from the Baltic; this seems odd given that these samples are used to justify some of the conclusions in the paper. 2. Nowhere in the paper do the authors state specifically that at present none of the suggested compounds can be considered to be suitable transient tracers. The last paragraph of the authors' overall response to reviewer #2 is a very clear statement of this (starting "The main result of this study..." and finishing "to guide further, more targeted experiments."). This could be added to the conclusion. 3. In section 5.2 the authors discuss variability in their CFC-12 measurements. Reviewer #2 queried this, and the authors produced Table A1 in response. While these numbers can presumably be calculated from Table S6, a bit more explanation in the text would help understanding. 4. Like reviewer #3, I feel the paper seems to suggest liabilities of the present Medusa system for seagoing use as much as the problems of using these particular tracers. The authors have made some suggestions for future improvement; these could perhaps be expanded.

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Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2019-101>, 2019.

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