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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Emission of iodine containing volatiles by selected microalgae species" *by* U. R. Thorenz et al.

Anonymous Referee #1

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In my opinion, the paper titled "Emission of iodine containing volatiles by selected microalgae species" by Thorenz et al., is not suitable for publication in ACPD without major revisions. This is a biological incubation study of various phytoplanktons for the detection of many iodocarbons produced under conditions that are not normal in seawater. The link of this work to either atmospheric physics or atmospheric chemistry is weak. There is specialist jargon used in the paper that is not defined, like "F/2 aqueous media". What are the advantages and disadvantages of using this type of media? As the authors point out, it is extremely difficult to compare the emissions measured in the incubation studies to those in the real world. Usually, emissions in incubation studies are greater than those measured in the real world, but here the study yields emissions two orders of magnitude lower than measured in the real world. I would recommend

that the authors submit the paper to a specialist journal in microbiology, because it is hard to interpret this work for the atmospheric science community. I think that further work is needed to understand why their observed emissions are so low.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 14575, 2014.