

Atmos. Chem. Phys. Discuss., referee comment RC3
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Comment on acp-2021-800

Anonymous Referee #3

Referee comment on "Potential environmental impact of bromoform from *Asparagopsis* farming in Australia" by Yue Jia et al., Atmos. Chem. Phys. Discuss.,
<https://doi.org/10.5194/acp-2021-800-RC3>, 2022

Jia et al. presented a modeling analysis on the potential environmental impact of bromoform from Australia *Asparagopsis* farming on atmospheric ozone depletion. This is an interesting environment impact analysis, and the results would be of great interest to the *Asparagopsis* farming community and some environmental policy makers in Australia. Overall, the experiment is adequately designed, and the paper is well written, and should be accepted for publication on ACP. I have only some very minor comments.

- Change "long-lived halogens" to either long-lived halogen-containing compounds or long-lived halocarbons. ODP is not defined for long-lived halogens.
- ->varies, depending on
- -> emitted into the atmosphere
- Here and later in the text: To cite the WMO assessment chapters, you should use "Engel and Rigby et al, 2018"
- I would recommend rephrasing of "the aim of this study was elucidation of ..." to "... to assess the impact/contribution ...". Elucidation seems to be too much of an assertion in the context of this paper.
- i□ an effective
- L305-307. Is there a published reference for trajectory-based ODP? Brioude et al. (2010) and Pisso et al. (2010)??
- L326 & L329. May be this is a personal habit thing, but I would prefer "the OPD values applied here" and "the comparison presented here"
- L520, 527, 532, 542, CHBr³ should be subscript.