

Dear Reviewers

We would like to express our sincere gratitude to the reviewers for your effort to improve our manuscript. Based on your comments, we've revised our manuscript accordingly with changed parts marked red.

The following is the point-to-point response with reviewers' comments in bold and the responses italic.

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.

A: The phrase has been changed to “long-lived halocarbons”.

->varies, depending on

A: revised

-> emitted into the atmosphere

A: revised

Here and later in the text: To cite the WMO assessment chapters, you should use “Engel and Rigby et al, 2018”

A: corrected

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.

A: revised

an effective

A: corrected

L305-307. Is there a published reference for trajectory-based ODP? Brioude et al. (2010) and Pisso et al. (2010)??

A: The references have been added.

L326 & L329. May be this is a personal habit thing, but I would prefer “the OPD values applied here” and “the comparison presented here”

A: revised.

L520, 527, 532, 542, CHBr³” should be subscript.

A: The subscript all through the manuscript are corrected