

## ***Interactive comment on “Halogen activation and radical cycling initiated by imidazole-2-carboxaldehyde photochemistry” by Pablo Corral Arroyo et al.***

### **Anonymous Referee #1**

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This paper present for first time a new mechanism for halogens to be emitted that have not been considered up to date and that in determined conditions could be even more important that O<sub>3</sub> uptake in see surface. The paper is well written and structured and only require that authors address the following technical comments:

- Please comment about the importance of differences between the spectra lamps and radiation in the atmosphere and possible implications for this study and atmospheric implications. - Some comments should be added related the possible effect of Cl<sup>-</sup> in the mechanism proposed since in sea salt aerosols Cl<sup>-</sup> is going to be present. - This sentence need to be finished up: "Code and data availability. The data for simulations

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performed under Sect. 3.1 and 3.2 are available in . . ."

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2019-176>, 2019.

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