

Interactive comment on “A mechanism for biologically-induced iodine emissions from sea-ice” by A. Saiz-Lopez and C. S. Boxe

A. Saiz-Lopez and C. S. Boxe

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We thank Ref #1 for his/her insightful comments on the manuscript. We agree that the hypothesis presented here only intends to encourage more field and laboratory experiments to assess the potential for this particular polar ecosystem to be a source of reactive iodine species in the polar boundary layer. This will be emphasized in the revised version of the paper.

It is also worth to note that although there is no direct evidence for the role of ice algae in metabolizing iodine, and its link to the recent measurements of high gas phase iodine, there is however growing indirect evidence resulting from observations of large IO radicals and iodocarbon concentrations over sea ice covered areas (e.g. Weddell Sea) of particularly high biological activity. This constitutes the premise of this hypothesis, however further field observations and laboratory work are needed to establish its

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validity.

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