

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

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We thank the Editor for her comments:

- The reaction of iodine with DOM as it diffuses upwards within the brine channels would constitute a loss for iodine, however the rate of the reaction and its efficiency throughout the brine channels are difficult to estimate. Nevertheless, we considered this potential loss by taking an iodine concentration at the bottom of the sea ice (10<sup>-5</sup> M) which can be conservative assuming a range of iodide pre-concentration by phytoplankton colonies from 10<sup>-7</sup> M to 10<sup>-3</sup> M. - We will amend the citation to Carpenter (2003)

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