

Interactive comment on “Concentration maxima of volatile organic iodine compounds in the bottom layer water and the cold, dense water over the Chukchi Sea in the western Arctic Ocean: a possibility of production related to degradation of organic matter” by A. Ooki et al.

Anonymous Referee #2

Received and published: 1 October 2015

This paper is within the scope of Biogeosciences and presents new scientific knowledge. The area of this study is of particular interest, because VOIs are important source of iodine from the ocean to the atmosphere. The experimental design and discussions seems sufficient for the objective to evaluate the potential source of VOIs in the bottom layer water.

Comments:

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P6 L8 “65 mL L⁻¹” to “65 mL min⁻¹” ?

P15 L10 I was interested in the high correlation between CH₃I and NH₄⁺ (or N-deficit). If the authors measured CH₃Cl or CH₃Br in seawater samples, how about the correlations between other monohalomethanes such as CH₃Cl or CH₃Br and NH₄⁺ ?

P18 L20 “CH₂Cl” to “CH₂Cl^{II}” ?

Interactive comment on Biogeosciences Discuss., 12, 11245, 2015.

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