Interactive comment on “Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources” by C. Ordóñez et al.

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I enjoyed reading this manuscript – it is excellent to see this progress towards global modelling of VSL halocarbons.

I have just a couple of comments –

1. The model underestimates the observations of CH2I2. What is the vertical resolution of the model at the surface? CH2I2 will obviously have a strong vertical profile so vertical resolution/mixing issues will effect the model-measured agreement. In Jones et al., (2010), the 1D MISTRA model successfully simulated day-time atmospheric observations of CH2I2 and CH2ICI.
2. The assumed CH3I global budget of around 300 Gg yr⁻¹ (from Bell et al., 2002) is on the low side, according to a more recent assessment (e.g. Butler et al., 2007) which is around double that estimate.

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