

Interactive comment on “Dissolved organic carbon (DOC) and select aldehydes in cloud and fog water: the role of the aqueous phase in impacting trace gas budgets” by B. Ervens et al.

Anonymous Referee #1

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This is a quite interesting study combining box model calculations with actual aerosol and cloud field measurements.

As my initial comment I would like to ask for a more complete description of the aqueous phase chemical mechanism. The authors should clearly describe the mechanism used which is a derivative of CAPRAM 2.4. (2004). As it could be critical what reactions have been carried forward and which one have been omitted (reasons ?), I feel that this should be documented. The current box model description is very unclear in this regard. Of course, referencing to other CAPRAM derivatives can be used. Maybe the changes undertaken can be summarized in a Table which could be integrated into

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the supplement.

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