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## ***Interactive comment on “From biota to chemistry and climate: towards a comprehensive description of trace gas exchange between the biosphere and atmosphere” by A. Arneth et al.***

### **Anonymous Referee #1**

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This manuscript presents a good overview of the limitations of our understanding of modelling trace gas exchange. The title is very ambitious, because the text have little to contribute to climatic effects. The good component is that the manuscript emphasizes the biological links that regulates atmospheric composition. The authors limit themselves mostly to trace gas exchange, but extension to secondary organic aerosol is not far away, with all the implication on radiative forcing. The manuscript could profit from a better discussion on ozone/VOC/NO<sub>x</sub> links, where a lot of new knowledge was published in the last year. In particular in tropical areas, where measured OH values are one order of magnitude off from model simulations.

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