

Interactive comment on “The FluxEngine air-sea gas flux toolbox: simplified interface and extensions for *in situ* analyses and multiple sparingly soluble gases” by Thomas Holding et al.

Anonymous Referee #1

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This is a toolbox for calculating gas exchange fluxes and perform related calculations. The manuscript describes new capabilities of the toolbox and walks the reader through examples of the toolbox in use and some of its capabilities. The case examples are helpful as they contain imperfect data and are therefore more useful than simply denoting the computational equations. The new version of the toolbox appears like a useful extension that seems targeted towards improving the ways in which it can be used and making sure the data formats are compatible with the larger research community. My only minor comment is that including a table describing the overall capabilities of the FluxEngine toolbox would be useful to potential users who are not familiar with the tool. Listing the gases, air-sea flux parameterizations, most common adjustments (skin

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layer, constant temperature, etc) would help the reader to know whether it is worth their time and effort to learn to use the toolbox. As it is currently written the paper assumes readers have a baseline understanding of what is contained within the FluxEngine toolbox. Overall this manuscript provides clear examples of the type of calculations contained within the FluxEngine toolbox and seems like a useful tool to have in the community. I recommended it be accepted with this one minor change.

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C2