

## ***Interactive comment on “Silicon isotope fractionation and uptake dynamics of three crop plants: laboratory studies with transient silicon concentrations” by Daniel A. Frick et al.***

### **Anonymous Referee #2**

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Before it is possible to continue with any review of this manuscript it is absolutely necessary for the authors to include substantial more information about their M&M. While in the main text they refer to Supplementary files these do not include important information. I have indicated what is required on the attached Marked pdf of the manuscript file. One major omission is how they measured transpiration. Added to this is if they are relying upon transpiration volume as an indicator of water uptake. It seems that all of their subsequent calculations do rely upon this. Unless the authors can demonstrate otherwise transpiration volume is not analogous to water uptake. With this in mind how does such change their interpretation of their isotope data?

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Note that the system does not allow me to part review the ms so I have had to make some general classifications. These can change depending upon the information received in a new manuscript including all the necessary M&M.

Please also note the supplement to this comment:

<https://www.biogeosciences-discuss.net/bg-2020-66/bg-2020-66-RC1-supplement.pdf>

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2020-66>, 2020.

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