

## ***Interactive comment on “The importance of comprehensive parameter sampling and multiple observations for robust constraint of aerosol radiative forcing” by Jill S. Johnson et al.***

### **Anonymous Referee #3**

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First of all I think this is a very useful and important work. Nicely show how this results will be important for emergent constrain multi model studies, and shows how different observational constraints individually can affect the ERF uncertainties.

One comment I have, is that it should be made more clear in abstract and conclusion, and also some figures and tables, that they use synthetic observations and not real observations. And define synthetic observations the first time it is mentioned.

Page 7 line 10. Specify that it is biomass burning emissions.

Table 2: Indicate that this is not real observations. Useful to define Europe also. In addition to the synthetic observations, real observations are used for ToA flux, am I

right?

Figure 9: Does the color shading mean anything? Include a colorbar or remove the shading.

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-174>, 2018.

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Discussion paper

