



EGUsphere, author comment AC1  
<https://doi.org/10.5194/egusphere-2022-779-AC1>, 2022  
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## Reply on RC1

John T. Fasullo and Jadwiga H. Richter

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Author comment on "Dependence of strategic solar climate intervention on background scenario and model physics" by John T. Fasullo and Jadwiga H. Richter, EGUsphere,  
<https://doi.org/10.5194/egusphere-2022-779-AC1>, 2022

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**We would like to thank Alan for the time he spent on the manuscript and his insightful and quite helpful comments. A detailed list of changes to address his feedback is included below. Other minor corrects have also been made, such as in the references list.**

**To address his comments:**

**We have reformatted all subscripts and superscript degree symbols.**

**We've removed CESM from the title as suggested.**

**We've changed the FLNT and FSNT variable acronyms to be more intuitive.**

**We've clarified instances of ambiguous flux directionality.**

**We've removed the language regarding implementation of SAI as suggested.**

**We've revised stippling in all figures as suggested.**

**Filler language has been deleted as suggested.**

**While we acknowledge the point made about SAI being a bit of a misnomer, we've decided to retain SAI as defined as this definition is conventional usage, such as in the 2021 National Academies' report.**

**Line 14: The 1.5C target is described further.**

**Line 19: Changed SCI to intervention**

**Line 64: Spelling of sulphate is changed.**

**Line 73: NH is now capitalized.**

**Line 75: Text inserted stating same WACCM resolutions**

**Line 79: Punctuation fixed.**

**Line 123: "Doesn't" is changed to "does not"**

**Line 128: Removed "moderate" scenario...**

**Line 140: Extra text removed**

**Line 177: NH acronym is now used as previously defined**

**Line 280: "Will be" replace by "are"**

**Line 329: Text changed to "two versions of the same climate model"**

**Table 1: edited per suggestions**

**Note that for the AMOC analysis the units are retained in the EOF (See new figure in the Appendix). We've expanded the associated discussion.**