Reply on AC3
Richard Rosen


Dear Authors,

I am glad that you agree with so many of the points that I had raised previously about key analyses that need to be performed when studying sulfate geoengineering and its impacts on the earth system. Unfortunately, you seem to be unwilling to enhance your current proposed publication with these additional analyses which seem critical to me to help readers understand the potential risks and benefits of this approach to trying to keep our planet reasonably cool, on average. But what I am unclear about now, is what are the main new findings of your modeling work. We seem to agree that one does not need to do modeling to decide that if enough sulfate particulates are injected into the upper atmosphere that the earth's average temperature can be lowered enough to offset climate change. Anyway many other modelers have made this point. So what are the unique/new findings of your research? I suggest that you rethink the organization of your article and list all really new findings up front, and then explain how you arrived at those findings. And compare your research on each item with prior research findings to the extent that they might be similar or different. Thanks.