



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_37610
Title of the Manuscript:	Geoengineering Biodiversity: Study to access feasibility of geoengineering techniques on biodiversity
Type of the Article	Short Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	In the SRM chapter (lines 120-136), some more recent findings must be cited. From 2009, we have a clearer picture of the ability of SAI to reduce global warming. For instance, at line 131 I suggest adding the following reference, that discussed how much would SAI be able to offset the increased GHG forcing: Citation: Visioni, D., Pitari, G., and Aquila, V.: Sulfate geoengineering: a review of the factors controlling the needed injection of sulfur dioxide, Atmos. Chem. Phys., 17, 3879-3889, https://doi.org/10.5194/acp-17-3879-2017, 2017. At line 134 i suggest adding the following citations, that deal with air quality, ozone and methane concentration under a SAI scenario: Citation: Visioni, D., Pitari, G., Aquila, V., Tilmes, S., Cionni, I., Di Genova, G., and Mancini, E.: Sulfate geoengineering impact on methane transport and lifetime: results from the Geoengineering Model Intercomparison Project (GeoMIP), Atmos. Chem. Phys., 17, 11209-11226, https://doi.org/10.5194/acp-17-11209-2017, 2017. Citation: Xia, L., Nowack, P. J., Tilmes, S., and Robock, A.: Impacts of stratospheric sulfate geoengineering on tropospheric ozone, Atmos. Chem. Phys., 17, 11913-11928, https://doi.org/10.5194/acp-17-11913-2017, 2017. Citation: Nowack, P. J., Abraham, N. L., Braesicke, P., and Pyle, J. A.: Stratospheric ozone changes under solar geoengineering: implications for UV exposure and air quality, Atmos. Chem. Phys., 16, 4191-4203, https://doi.org/10.5194/acp-16-4191-2016, 2016. I believe that be enhancing the discussion, this paper would be much more interesting.	
Minor REVISION comments	- Line 28: which is often used as indicator, will also observe an increase within the next decades, ranging between 478-1099 parts per million (ppm) by the year 2100 - Line 62: Table 1 illustrates the main methods of CDR and SRM techniques. - Line 66: remove “of” from “of which would likely” - Line 86: as a method of geoengineering	
Optional/General comments	The paper is in overall well written, although some mistakes remain (I pointed them out in the previous section).	

Reviewer Details:

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