

Dear authors,

Thank you for submitting your manuscript to ESD. I agree with the reviewers that this is a rigorous study and will be an important addition to the literature. Now, I invite you to submit a revised manuscript that addresses the concerns raised by the reviewers. I am satisfied with the way you have responded to the reviewers except one issue raised by Reviewer 2: "The authors do not exploit much the fact that they dispose of a large ensemble. Basically only the average effects are investigated, not the possible variation between individual weather trajectories." I think you can do better. The ensemble is a treasure trove of information that has not been meaningfully exploited. Please address this issue in your revised manuscript.

Sincerely,

Somnath

Dear Somnath,

Thank you for your invitation to resubmit the revised manuscript. We have addressed the concerns raised by the reviewers, in particular adding a column to Figures 10 and 11 that now compares the vegetative responses from GLENS at the end of the century to those of RCP 8.5 at the end of the century – effectively removing the effects of CO2 from the comparison. Considerable additions to the text in section 4 were made to explain the differences between the two scenarios.

We have also added some text throughout referring to the full ensemble of models, rather than a single projection implied by the ensemble mean. Finally we included three more figures that explicitly show the individual variability within each individual model member, and giving more credence to the statistical significance of any results that were obtained.

We trust that this revised version meets with your approval.

Best wishes,

Mari Tye