

Thank you for your feedback.

Responses to final technical comments are provided below in **bold**.

1) *Supplement files: in the file figure S37.pdf the figure is wrongly numbered with figure S1. With your next file upload, combine all supplement pdf files to one file.*

Figure label has been corrected to S37. All supplement files have been compiled to one PDF

2) Your reference list includes works “submitted”. Such works can be cited upon submission if being available to the reviewers. They should not be cited in the final, accepted manuscript, unless published, accepted for publication, or available as preprint with a DOI.

Previously “*submitted*” works are now available as preprints with DOI in final response phase (author comments only)

3) System section "Assets for the reviewing process only": this is removed because it is a manuscript for which is added in your reference list with a DOI.

No action needed

5) *Your Table 3 contains coloured cells. Please note that this will not be possible in the final revised version of the paper due to HTML conversion of the paper. When revising the final version, you can use footnotes or italic/bold font. For now, the process will continue, but please note that the final version cannot be published by using coloured tables.*

Table 3 (in manuscript) is black and white. A colour table is provided only in the pdf supplement.

Please kindly cover the following minor issues and check the whole manuscript for such minor typos: “this this relationship” (Section 4.6), “exibit” (Section 4.9), “brodaer” → “broader” (Conclusions), In the “Model limitations” section, one sentence begins with lowercase (“temporal variability..”).

These typos have been corrected. The document has been checked, and other minor typos have been corrected.

One suggestion: In “Model limitations,” the sentence “This could make dza appear less sensitive...” consider softening slightly (e.g., “may/could”) in case you want a more cautious and conservative tone.

This has been softened to “This may cause dza to appear less sensitive to ...”