

Thank you for the revisions made to the manuscript based on previous feedback. The manuscript has seen considerable improvement, but there are still areas that require further attention to ensure clarity and comprehensive presentation.

1) L58-59: Consider adding specific impacts or key findings that underline the importance of this new dataset, not just use this simplified sentence.

2) L68-69: Specific the type of "evident changes" observed in the TP (e.g., temperature changes, precipitation patterns) to provide more context and clarity for the reader.

3) L113-114: It would be beneficial to add more discussions about existing datasets and their limitations to contextualize the necessity of the new dataset. This comparison will help in understanding the incremental or significant advancements made.

4) The methodology section would benefit from more detailed descriptions of the statistical tests to analyze the data. Clarification on the choice of these methods and their appropriateness for your dataset would strengthen this section.

5) In Section 4 (L520-545), adding comparative analysis with prior data from other studies or contrasting regions will help in emphasizing the unique contributions of this new dataset.

6) The conclusion reiterates much of the information from the abstract and introduction and needs to be rewritten. To add value, consider highlighting the most advantages of this new dataset, the important findings from your dataset and specific implications for future research or policy changes prompted by this new dataset.