

Anonymous Referee

This work by Li et al., has successfully reported a pollen emissions model, which is of significance to study the impact of pollen on human health. The authors responded well to the comments of the previous two reviews. Moreover, the authors are very sincere and acknowledges the limitations of the paper, which they only have data up to 2021 and have not arbitrarily expanded the research conclusions. Looking forward to further data to develop the pollen model in the future. I suggest accepting this paper.

Response : Thank you very much for your positive and constructive comments on our manuscript. We are glad that you found our work on the pollen emissions model to be of significance, especially in understanding the impact of pollen on human health. We sincerely appreciate your acknowledgment of how we responded to the comments from the previous reviews. We are committed to continuously improving the model and look forward to incorporating future data to enhance its accuracy and applicability. We are grateful for your suggestion to accept the paper, and we will continue to work diligently on further developing the pollen model. Your thoughtful feedback is invaluable to us.

minor point:

1. Line 112, line 116, add full name about “KAMM/DRAIS” and “SILAM”.

Response : Thank you for your suggestion. We have added the full name for “SILAM” where it first appears in the manuscript. However, regarding the KAMM/DRAIS model, we would like to mention that it is an abbreviation from German. The full name of the model, in its original language, is not provided in the references we cited. As such, we have opted not to include the full German name of the model in the manuscript.

2. Line 125, “CO₂”, subscript.

Response : Thank you for your suggestion. We have already made modifications.

3. Add brief about the RegCM model into section 2.1.4.

Response : Thank you for your valuable suggestion. We fully understand the importance of providing an introduction to the RegCM model. However, we have included a brief description of the model in the second-to-last paragraph of the abstract (Lines 134 – 146). In this section, we highlight the significance of pollen models and explain the rationale for selecting the RegCM model. Given this consideration, we would prefer to keep the introduction to the RegCM model in the abstract rather than repeating it in Section 2.1.4. We believe this approach maintains the manuscript's structure and avoids redundancy. We appreciate your understanding and thoughtful feedback.

4. Line 447-450, Table 2, Add unit for RMSE.

Response : Thank you for your insightful comment. We will update our manuscript accordingly to include this unit for clarity.