

The authors would like to thank the editor and reviewers for their constructive feedback, and the thorough assessment of the manuscript. Below, we are providing a point-to-point response to each comment: Reviewers' comments are given in black, and our responses are given in blue. Additionally, we have included details of how we address these changes in the revised submission.

Response to Editor

Thank you for submitting the revision! Two reviewers believed that it has addressed the concerns and suggestions from the previous review, and the manuscript can be accepted for publication. One reviewer made good suggestions regarding the figures. I would encourage the authors to modify the mentioned figures accordingly to provide better visual effects in the final paper.

We further improved the figures according to the reviewer suggestions.

Response to Referee 1

The authors have meticulously revised their manuscript in response to the feedback provided during the first round of review. Their responses to the reviewer comments are detailed and rigorous, resulting in a more accurate and comprehensive presentation of the data acquisition process, the data analysis, and the application prospects. The authors have successfully addressed my concerns raised in the initial review. However, there is still room for improvement in the figures of the manuscript. To enhance the quality of the illustrations, it is recommended that the authors consider the following suggestions:

Thank you for your appreciation! We have tried our best to further improve the figures as follows.

(1) Increase the font size in the figures, including both the legends and the text within the images. For instance, the map in the upper right corner of Figure 1 is challenging to decipher without special enlargement, especially regarding the place names. Figures 4 to 7 belong to the same type, yet the font sizes in the legends are inconsistent and generally too small to be clearly read.

In Figure 1 in the upper inset, the font size has been increased from 7-8 to 10 pt.
In Figures 4 to 7 the font size of the legend has been increased to 10 pt..

(2) Adjust the proportions of the figures and enhance their resolution. For example, there is considerable empty space on both sides of Figure 2, which could be utilized to better showcase relevant details by appropriately expanding the image. In Figure 3, the photographs taken by the camera appear somewhat blurred, and the white annotations could be replaced with more prominent colors for better visibility.

If the authors address these graphical concerns and further refine the figures, I recommend the publication of their manuscript in ESSD

The empty space on both sides of Figure 2 is actually outside the figure. The two borderlines of sub-figures a) and b) delineate the margins of the Figure 2. Because the figure is centered and the caption is longer than the figure, this gives the feeling that the figure is as big as the caption and has empty spaces on both sides. To avoid this feeling a general borderline has been added to the figure.

In Figure 3 the image quality has been improved from 96 DPI to 300 DPI and the white annotations have been changed to yellow which improved the visibility as suggested.