

Response to editor's comment

We greatly appreciate the editor's constructive suggestions on our manuscript. We have thoroughly revised the manuscript in response to all the comments. Below are our point-by-point responses (blue color) and the changes we've made to the manuscript (in italic).

1. L26-28 strange sentence. As if the fact that it also affected a larger region led to increased radiation and less precipitation. To improve.

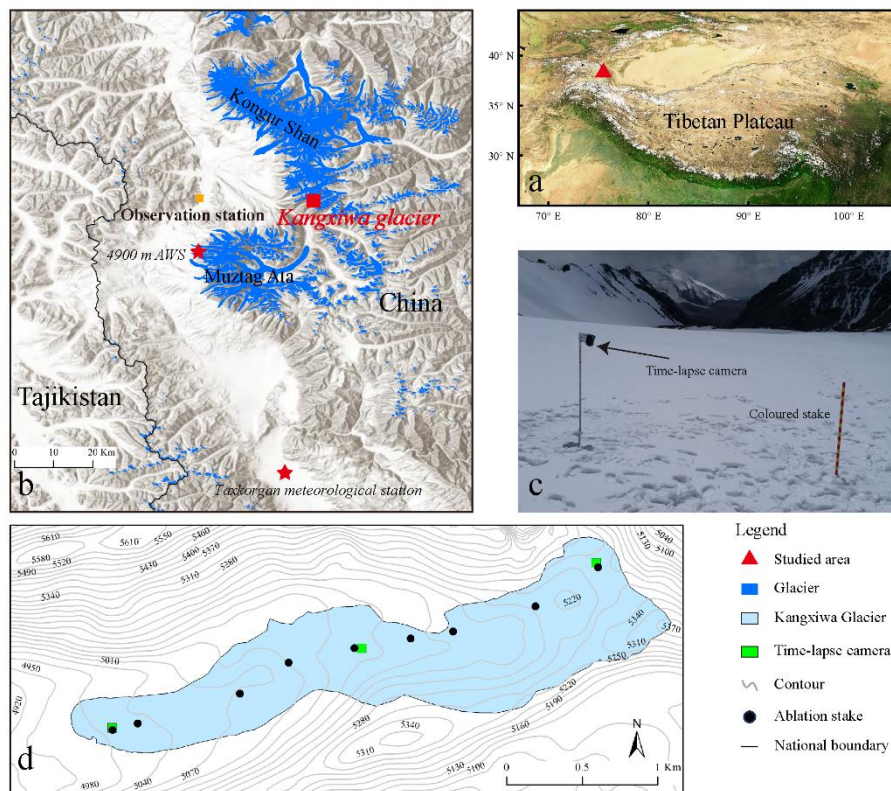
Response: the sentence was revised to *“Characterized by weakened westerly circulation, the 2022 heatwaves led to increased incoming solar radiation and reduced precipitation. These heatwaves likely affected not only the eastern Pamir but also the western Kunlun Mountains.”*

2. L37 Farinotti et al. 2020 is a classical and recent review on this topic that you may also want to cite.

Response: thanks for the suggestion. We added the corresponding reference both here and in the “reference” list.

3. Figure1 Hard to read the glacier name here. Increase font and adapt color maybe.

Response: we increased the font and color of “Kangxiwa Glacier”.in Figure 1.



4. L180 "cumulative" sounds better

Response: Done

5. L205 I would delete. Some readers could think that you have only 3 data points ! (or replace by three locations)

Response: we removed “across three points”.

6. L219 “compared” to “compares”

Response: Done.

7. L236 remove “Currently”

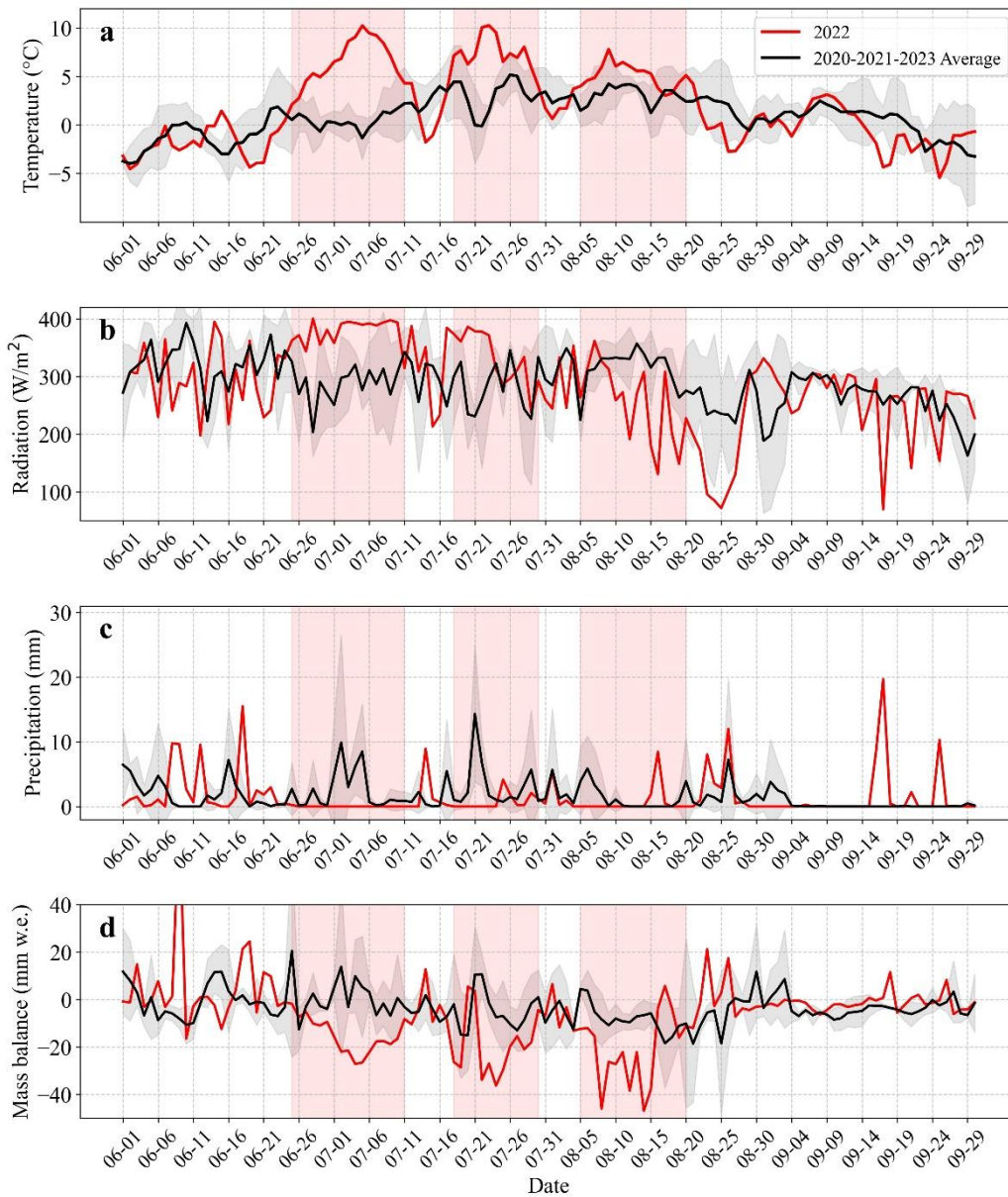
Response: Done.

8. L250 “..... than the three-year mean for the same period.” to “the mean for the three other years.”

Response: Done.

9. Figure 7 average is too vague. Can you list the years? "2020, 2021, 2023 average"

Response: We revised Figure 7 according to this suggestion.



10. L349-350 Not well written sentence. Can you improve?

Response: We have rephrased this sentence as “*We further compared the annual mass balance of the Kangxiwa Glacier with those of nearby glaciers from 2019/2020 to 2022/2023 (WGMS, 2025), including Zulmart Glacier (Glacier No. 139) and Glacier No. 457 in the Pamir, as well as Abramov Glacier in the Pamir Alay.*”.

11. L351 can authors quote some values here?

Response: we rephrased the sentence as “*The annual mass balance of Zulmart Glacier, which is about 200 km northwest of Kangxiwa Glacier, was -210, -206, -311, and -271 mm w.e. for the 2019/2020, 2020/2021, 2021/2022, and 2022/2023 hydrologic years, respectively. Similar to the Kangxiwa Glacier, the Zulmart Glacier also exhibited the most negative mass balance in 2022, which is likely attributed to the same impact of extreme high temperatures in July.*”.

12. L356 “determinant” to “driver”?

Response: Done.

13. L358 check sentence

Response: We checked the sentence. The sentence has been revised to “*Barandun et al. (2018) found that glaciers in the west Pamir region experience snow accumulation at the start of the hydrologic year, receiving over 1 m w.e. of accumulation during the winter season.*”. The reference Barandun et al. (2018) was added to the reference list.

14. L371 remove the "-" sign because you refer to this as a mass loss (or used the minus sign with the wording mass change)

Response: Done.