

Dear Reviewers and Dr. Wei:

Thank you very much for your time and effort in editing and reviewing our manuscript. We would like to thank anonymous referees for their positive and constructive review comments. The manuscript has greatly benefited from these insightful suggestions.

We have carefully considered the review report returned by Anonymous Referee #1 and made minor revisions. We hope that our revisions have addressed your concerns. Please find the reply to the comments below.

Sincerely,

Bing Li & co-authors

#Reviewer 1

Most of the questions have been well answered by authors. However, I disagree with the analysis on the spatial details of the produced LST data in the answers to my comment 3. Authors shown the tile of H24V05 from the ninetieth day in 2010 to prove its good spatial details in mountainous regions. However, this is not always true at the same tile in other days (e.g., LST from the 200th day in 2015 show significant abnormal boundaries possibly due to the use of ERA5 with a coarse spatial resolution). Therefore, I suggest authors improve corresponding descriptions and declare this limitation in section 5.6 in the revised manuscript.

Response:

Thank you for the returned comment. Gratefully thanks for the recognition of our responses to the former comments.

Thank you for the suggestion and reminder, we have made corresponding modifications in the revised manuscript. (Lines 534, 654)