

Dear Joel,

Thank you very much for your helpful comments on our manuscript. We accepted all your comments and made correction carefully. All detailed revision and response are as below. Thank you again for all your help in processing our manuscript.

Sincerely yours,

Shanna Lyu and Xiaochun Wang,
on behalf of all co-authors

Responses:

1. Page 4, line 4: you do not use ARS after, then remove it.

The authors' response: Comment accepted. According to your comments, the ARS chronology was removed from the revised paper.

2. Page 8, line 3: Specify clearly that you will reconstruct MMT of April-July using the STD chronology only (because it is not clear that X in transfer function is the STD chronology).

The authors' response: Comment accepted. The sentence was modified as follow: where Y was the April-July MMT and X was the tree-ring index of the Korean pine STD chronology at year t .

3. Remove Fig.8 as it is not called in the text.

The authors' response: Comment accepted. According to your comments, the Fig.8 was removed from the revised paper.