

Dear Dr. Luterbacher,

My coauthors and I thank you for your invitation to revise our manuscript. Here we will comment on, one-by one, the referee comments/suggestions.

Sincerely,  
Nesibe Köse

1. We recalculated significant fields using Monte Carlo Technique and changed the related figure and text based on the results.
2. We corrected the cited reference in the text and References. We improved the Introduction to make it more clear and logical.
3. Fig.3. We've redraw a clear figure.
4. Fig.4: We have already mentioned significance in fig. caption "Black lines surrounding circles represent significant correlation coefficients ( $p < 0.05$ ).
5. Fig.5: We deleted the last sentence. We added a trend line for instrumental data on the figure.
6. Fig 6: We deleted the last sentence and added the information "does not include instrumental data"
7. You are right. Fig 7 and related text is confusing. Therefore we decided to remove Fig. 7 and the related text from the manuscript.
8. We've created a new figure for comparison of Xoplaki et al 2005 and TMP reconstruction by this study using standardized TMP inside of  $C^0$ . We corrected as Xoplaki et al 2005 on the figure. We also made necessary changes in the figure capture.
9. We have corrected the journal name.
10. We've corrected as "lower"