

Response to the Comments of Referee 1 on EGUSPHERE-2022-40:

Title: Mid-Holocene climate of the Tibetan Plateau and hydroclimate in three major river basins based on high-resolution regional climate simulations

Authors: Yiling Huo, William Richard Peltier and Deepak Chandan

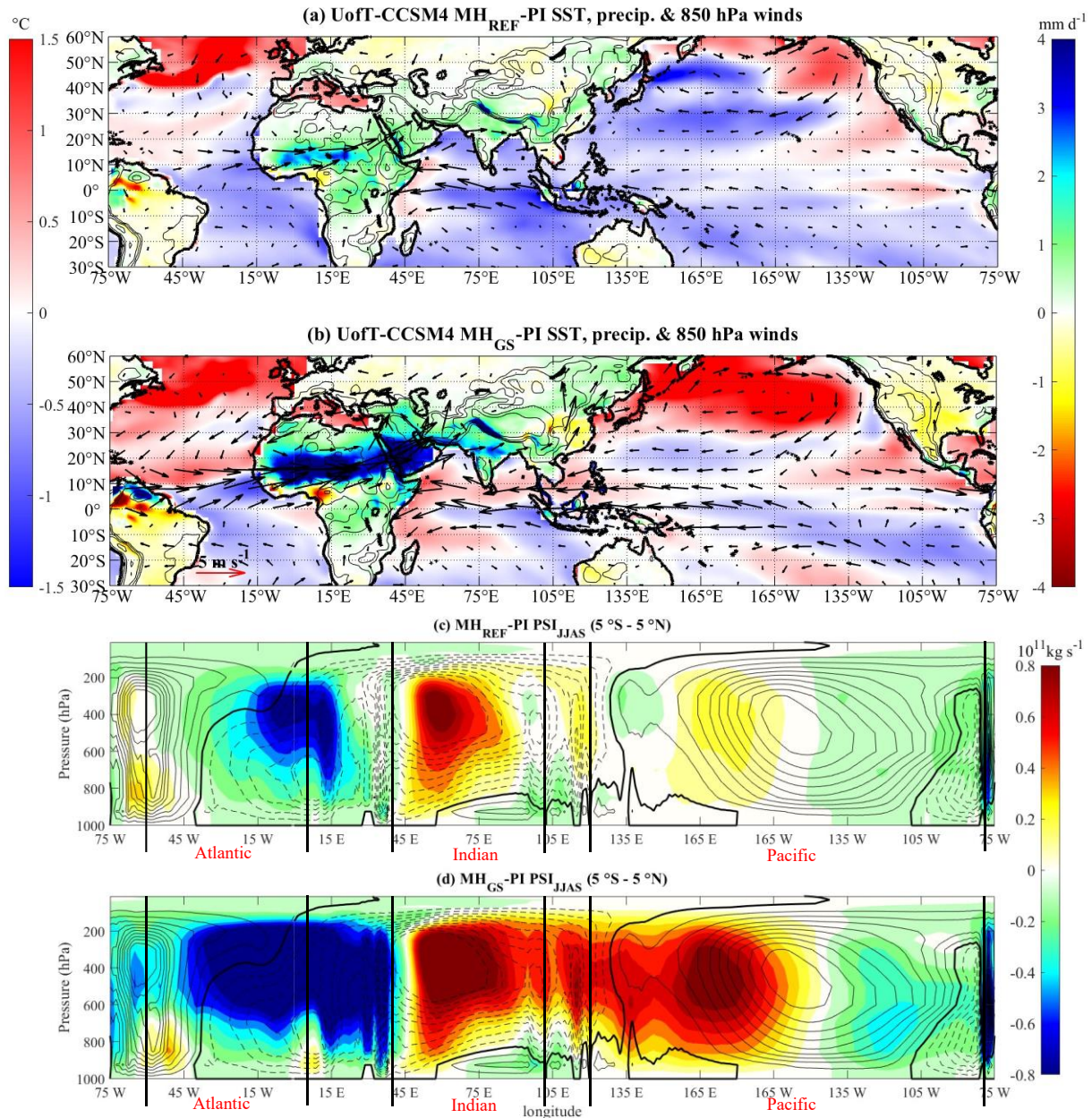
5 We thank the referee for his/her valuable comments on the content of our manuscript and his/her suggestions for further improving the document. Following the reviewer's suggestions and comments, we have again carefully revised our manuscript. We believe that the revised version satisfactorily addresses the referee's questions and concerns. In this reply, we respond to the issues, raised by the referee point by point. Our responses to the individual comments are shown in red text following the comments in black.

10 The authors have addressed all comments and put a lot of effort into revising the manuscript. They well responded to all major issues and revised the manuscript as raised by the two Referees. Therefore, I recommend this manuscript for publication in the journal after minor revision with following shortcomings:

Minor comments

1. The map in Figs. 7a and b might mislead the distribution of longitude in Figs. 7c and d. Is it possible to unify the distribution of longitude?

15 Thank you for this suggestion. We have unified the distribution of longitude and redrawn Fig 7. Now the longitude of all the panels starts and ends at 75° W.



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Figure 7: SST (shaded, °C), precipitation (shaded, mm d⁻¹) and 850 hPa winds (vector, m s⁻¹) anomalies during JJAS from the UoFT-CCSM4 for (a) MH_{REF} and (b) MH_{GS}. The topography contours of 500 m, 1000 m, 2000 m and 4000 m are also shown. PI climatological zonal stream function of the Walker circulation (contours: 0.2 × 10¹¹ kg s⁻¹ interval from -2 to 2 × 10¹¹ kg s⁻¹; 0 line in bold) and associated changes (shaded) in (c) MH_{REF} and (d) MH_{GS} relative to the PI.

2. Line 303: Do you mean Figs.8d and Figs. 9d?

We apologize for this error, and we have corrected the text.

25 3. Line 389: Please check the format of the units.

We apologize for this error, and we have changed the format of the units from mm d^{-1} to mm d^{-1} .