Supplementary figures for "Simulated stable water isotopes during the mid-Holocene and pre-industrial using AWI-ESM-wiso"

Xiaoxu Shi[1,2], Alexandre Cauquoin[3], Gerrit Lohmann[1,4], Lukas Jonkers[4], Qiang Wang[1], Hu Yang[1,4], Yuchen Sun[1,5], and Martin Werner[1]

[1]Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research, Bremerhaven, Germany
[2]Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai), Zhuhai, China
[3]Institute of Industrial Science, The University of Tokyo, Kashiwa, Japan
[4]MARUM Center for Marine Environmental Sciences, University of Bremen, Bremen, Germany
[5]Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China

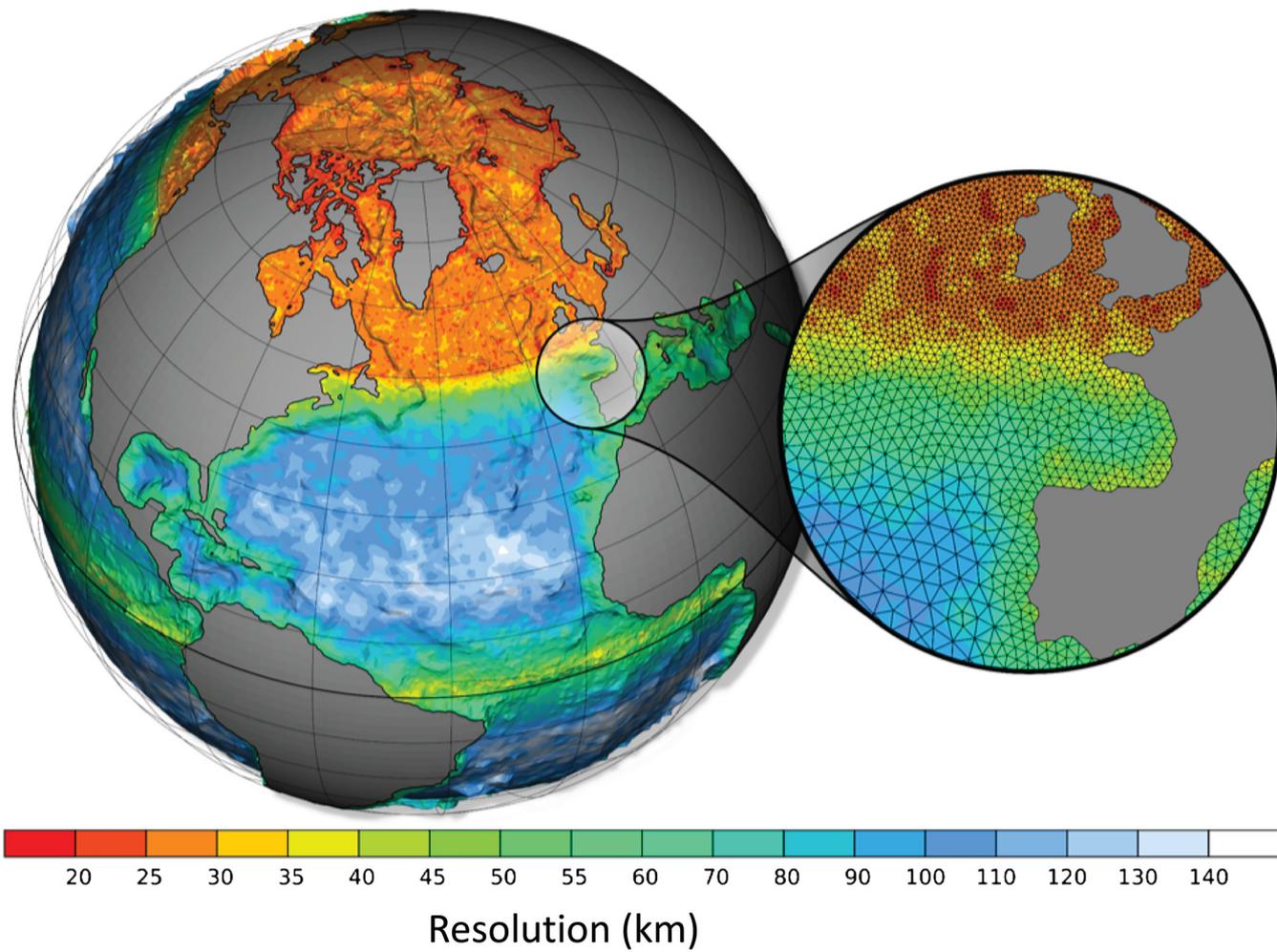
Correspondence: Martin Werner (martin.werner@awi.de)

Resolution (km)

Figure S1. Resolution of ocean grid.

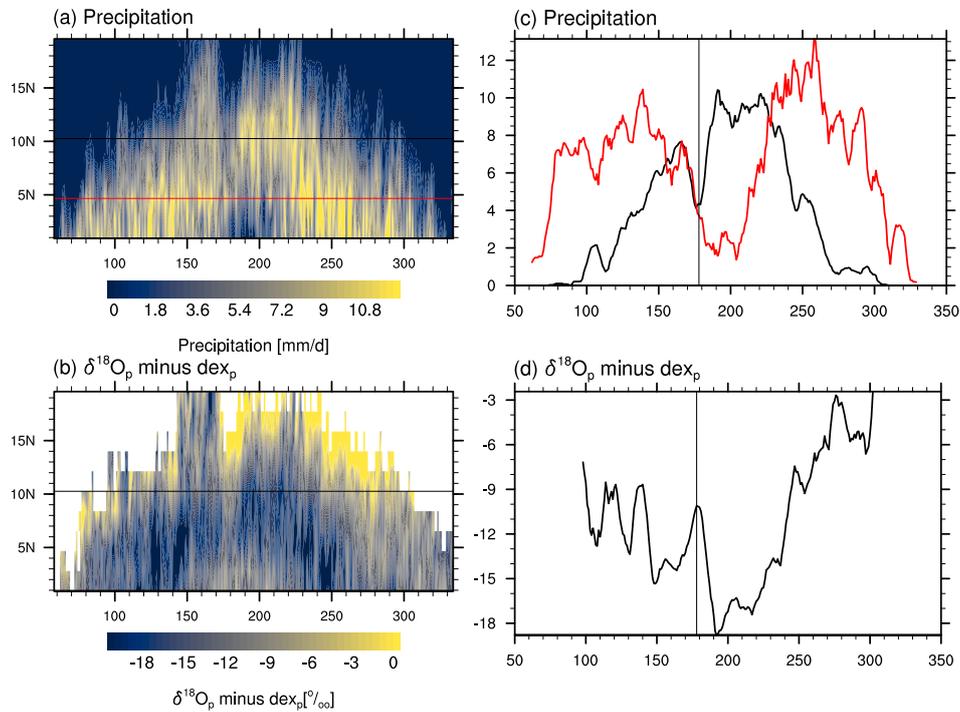



Figure S2. Simulated temporal time–latitude diagram of daily (a) precipitation and (b) I averaged over 15°W - 20°E under MH climate condition for a specific year, with x-axis representing the day of the year and y-axis the latitude. (c) Time sections of precipitation averaged over 15°W - 20°E at 12.3°N (black line) and at 4.7°N (red line), filtered with high frequency variability (period less than 10 days) removed. (d) Time sections of I averaged over 15°W - 20°E at 12.3°N, filtered with high frequency variability (period less than 10 days) removed.

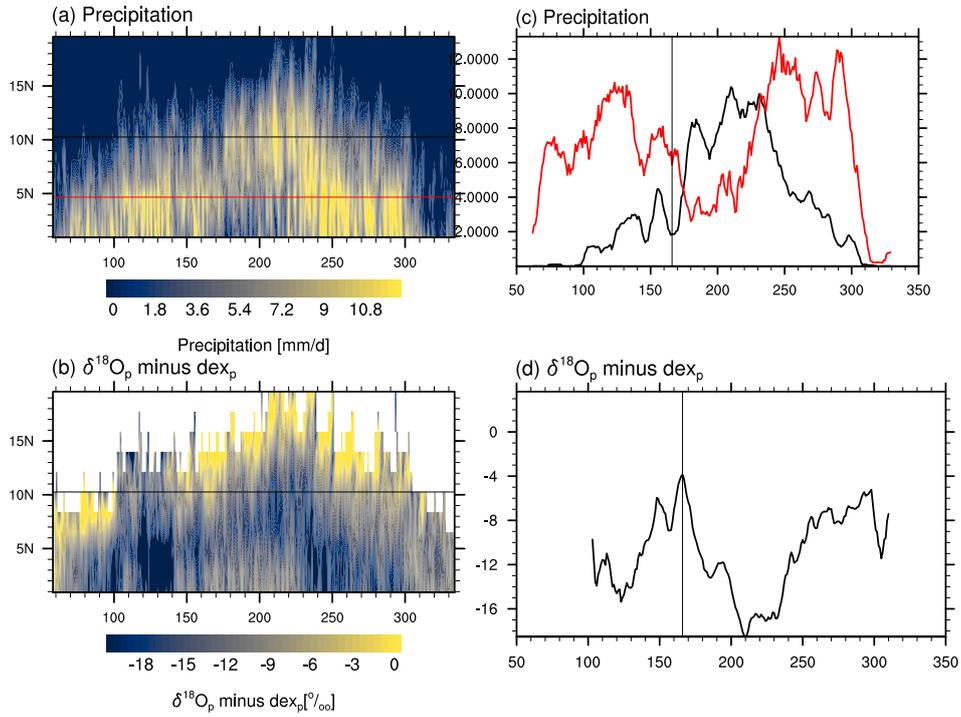



Figure S3. Simulated temporal time–latitude diagram of daily (a) precipitation and (b) I averaged over 15°W - 20°E under MH climate condition for a specific year, with x-axis representing the day of the year and y-axis the latitude. (c) Time sections of precipitation averaged over 15°W - 20°E at 12.3°N (black line) and at 4.7°N (red line), filtered with high frequency variability (period less than 10 days) removed. (d) Time sections of I averaged over 15°W - 20°E at 12.3°N, filtered with high frequency variability (period less than 10 days) removed.

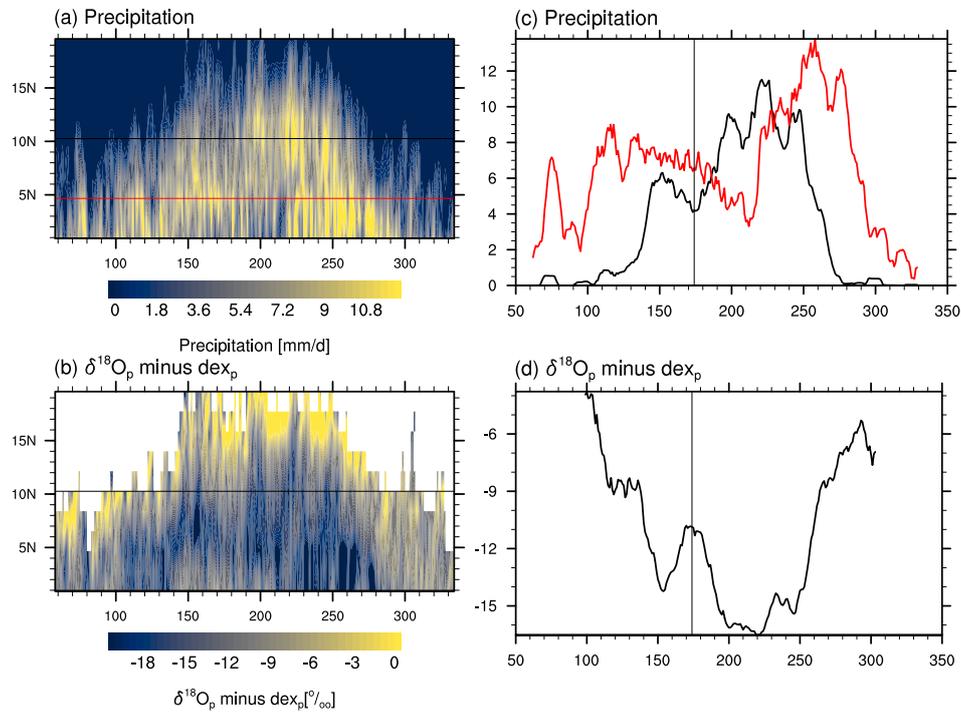



Figure S4. Simulated temporal time–latitude diagram of daily (a) precipitation and (b) I averaged over 15°W - 20°E under MH climate condition for a specific year, with x-axis representing the day of the year and y-axis the latitude. (c) Time sections of precipitation averaged over 15°W - 20°E at 12.3°N (black line) and at 4.7°N (red line), filtered with high frequency variability (period less than 10 days) removed. (d) Time sections of I averaged over 15°W - 20°E at 12.3°N, filtered with high frequency variability (period less than 10 days) removed.

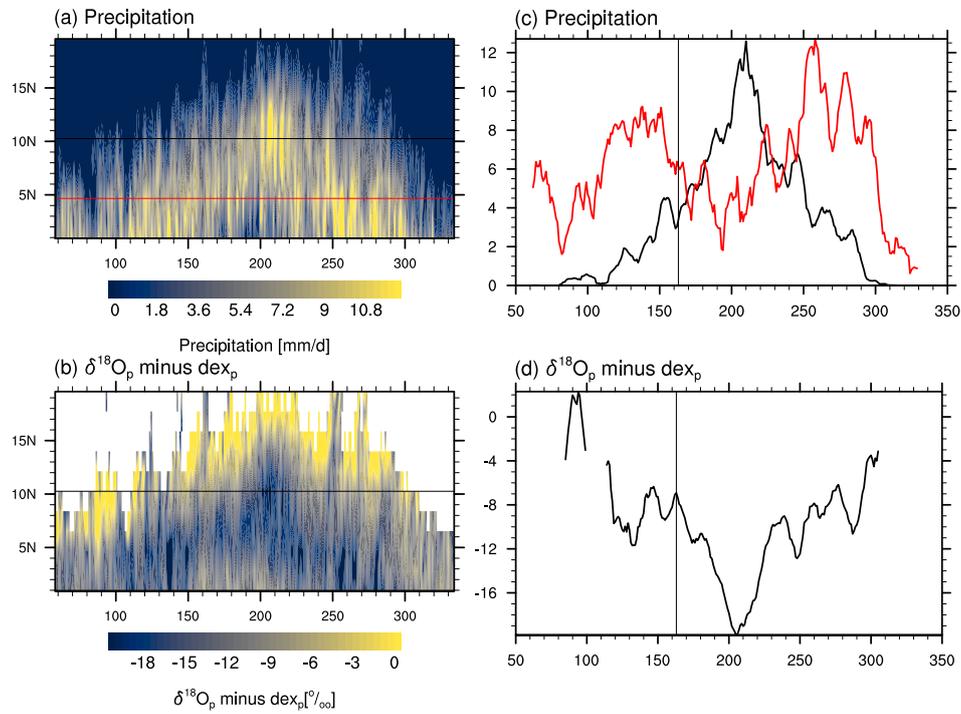



Figure S5. Simulated temporal time–latitude diagram of daily (a) precipitation and (b) I averaged over 15°W - 20°E under MH climate condition for a specific year, with x-axis representing the day of the year and y-axis the latitude. (c) Time sections of precipitation averaged over 15°W - 20°E at 12.3°N (black line) and at 4.7°N (red line), filtered with high frequency variability (period less than 10 days) removed. (d) Time sections of I averaged over 15°W - 20°E at 12.3°N, filtered with high frequency variability (period less than 10 days) removed.