Dear Editor,

Please find in the attachment revised version of the manuscript, ready for publication in Climate of the Past.

We addressed all small corrections of the reviewer #3 and add two figures to the supplementary materials:

1. Figure S1, showing the comparison of LMDZ-iso simulated RH with NCEP-DOE Reanalysis annual mean values.
2. Figure S8, showing Δ(δ18O) vs. elevation for MOD and INT and the isotopic gradients from the empirical model (Rowley, 2001; Rowley and Garzione, 2007).

Corresponding references are added to the final manuscript.

Sincerely,

The authors.