

Response to Reviewer #1:

Reviewer comments:

The authors have appropriately addressed my concerns, for which i appreciate it very much. I have only one minor comment for the authors' consideration. I noticed that the altitude range analyzed here (the number of data pairs in Figure 9) are mostly higher than 1.5 km, which is generally thought as the average atmospheric boundary height. Hence, "atmospheric boundary layer" in the title can be revised to "lower troposphere".

AR: Thank you for your suggestion. In the title, “the atmospheric boundary layer” has been revised to “the atmospheric boundary layer and the lower troposphere”. Besides, we checked the entire manuscript and made the same modifications throughout the manuscript.