

We thank the editor for his careful review of our paper and the helpful comment that improved the manuscript. We give the response in blue and cite the revised text in orange. The original comments are reproduced.

On line 431, you state "the PWV observations are supposed to be available at 4000 m for LETKF localization." If I understand correctly, this vertically-integrated variable is treated as being a point observation located at 4000 km? Assuming this understanding is correct, I suggest a minor revision to the text to avoid potential confusion associated with the use of the phrase 'supposed to': "the PWV observations are treated as being located at 4000 m for LETKF localization."

Thanks for your comments. We have revised the text according to your suggestion.

Line 431-432

“The vertical radius for all observations is 5 km in Ens_{LETKF}, where the PWV observations are treated as being located at 4000 m for LETKF localization.”

In addition, we corrected a typo in figure 5 where the label (c) in the lower panel should be (b).