

line 30/31: "This is because phenomena present in real atmosphere undergo non-stationary and unstable processes which are difficult to study in natural conditions." Did you mean "... are difficult to study in laboratory conditions."?

In this part we refer to challenges that scientists face when trying to study atmospheric phenomena in natural conditions (real atmosphere). To improve clarity, we have revised the sentence as follows: *Atmospheric phenomena undergo non-stationary and unstable processes, making them difficult to study in real atmosphere.*

line 114 and figure 3, caption: It is not clear, 1) what, 2) where, and 3) for what the cylinder is that you refer to.

We have incorporated necessary improvements to provide a more informative description of the experiments.

3/19 min measurement times: You provided information on why you chose these times in the review replies, but not in the manuscript, Please include a statement into the manuscript as well. (e.g around line 121)

We have included the requested information in the manuscript.

Figure 8. "Scaled V20-S-L PSD with respect to the UFT positions (color gradients) in the lower half of the chamber (plus top position)." The label in Fig. 8a does suggest positions throughout the chamber?

The top panel covers all V20-S-L positions across the chamber volume, while the lower panel includes only measurements from the lower half of the chamber and the top position. We have rephrased the caption for clarity.

Figure A1 and A2: Please also note in the figure caption that the time series of measurement and DNS simulation do not correspond to each other.

The requested notes have now been incorporated into both captions.