

I'd like to thank the authors for answering my questions and addressing my concerns. The manuscript overall is better.

Regarding my previous PBLH definition question, I understand that the authors would like to defer the evaluation/discussion to future work. Having said that, as it is important to understand the nature of the observation operator and use corresponding model variable for data assimilation, I would suggest the authors to add in the conclusions saying that the observation operator and the model variable "issue" still needs to be addressed.

Minor comments:

Line 324: the sentence "particularity when this approach is applied to an EnKF assimilation system with cycling" should be removed. If I understand correctly, the experiments performed in this work are stand-alone analysis, no forecasts are issued from the analyses, and no cycling is involved.

Figure numbers are shown as ?? in the manuscript.