Comments on revisions

The authors have gone through a lot of effort to address our comments, and the revisions have greatly improved the manuscript. The introduction now does a much better job at contextualizing the study within current research and defines the aims of the paper more clearly. By changing their two PBL-depth metrics to a single new metric, the authors have added clarity and avoided confusion, while also adding novelty to the study. The figures are more accessible and their descriptions more precise.

I found a sentence that I think might be incomplete (probably a word missing) in line 77: *"Therefore, regional models, which have much finer spatial and temporal resolution compared to observations, [MISSING WORDS?] to study PBL clouds in midlatitude cyclones and CAO."*

I recommend publishing the paper.