

MR3252: Tropical Meteorology

Paper Summary for Powell and Houze (2015): Please answer the following questions with as much detail as possible. Your answers may be in paragraph form or list form as appropriate.

1. What were the authors' primary research questions, goals, and/or hypotheses?
2. What motivated the authors to conduct this study?
3. How did the authors execute this research? What data and models did they use? How did they use these data?
4. What are some potential key limitations in this study, including those that were explicitly mentioned in the article?

9. How do the authors prove using just sounding data that clouds “preconditioned” the free troposphere with moisture prior to MJO onset?

10. In the absence of latent heating/cooling, how does anomalous vertical motion impact static stability?