

Interactive comment on “Vertical Air Motion Retrievals in Deep Convective Clouds using the ARM Scanning Radar Network in Oklahoma during MC3E” by Kirk W. North et al.

Anonymous Referee #1

Received and published: 26 September 2016

Overall, the work done in this paper is good, but more discussion and expansion of results is needed to make this paper more robust to justify the conclusions that are trying to be made. Especially in the comparison between traditional dual-Doppler methods and 3DVAR methods.

Things that will help strengthen the paper are more figures detailing some of the findings that are discussed in the paper but are not shown. Detailed explanation of quality control methodology should be included because this can drastically affect the dual-Doppler analysis performed in this paper.

There are inconsistencies in symbols used for the same terms.

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The science in the paper is good and I look forward to seeing a new draft of this with more detail in the methods and analysis.

I have attached my detailed comments in a pdf.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/amt-2016-269/amt-2016-269-RC1-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2016-269, 2016.

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