

Interactive comment on “Evaluation of cloud base height measurements from ceilometer CL31 and MODIS satellite over Ahmedabad, India” by S. Sharma et al.

Anonymous Referee #2

Received and published: 9 December 2015

Dear Editor, Thank you for considering me as a reviewer for this publication in your esteemed journal AMT. I have provided my comments as follows.

General Comments: The manuscript by Sharma et al, deals Evaluation of Cloud Base Height measurements from Ceilometer CL31 and MODIS satellite over Ahmedabad, India. This study used the ceilometer have been extensively used to study the cloud characteristics over Ahmedabad during May 2013 to January 2015. Results are validated against in-situ observations and satellite observations (Moderate Resolution Imaging Spectroradiometer). In my opinion, the paper is well written and contributes to the existing knowledge. I could not find any logical errors in the presentation and the

C4256

approaches used. The following points may be considered while revising the article:
Specific Comments: 1. Authors should add some error statistics in the Abstract. 2. Page 3, Line 65: Please brief about Nd: YAG and make it clear. 3. It would be better if authors can add paper structure at the end of Introduction part. 4. P5, L104: What do you mean by CL view. 5. P5, L 167: strong cloud updraft and downdraft are supported by circulation (Vertical velocity) ? 6. I found interesting results in the Section 5.1.1 and 5.1.2. This section can be elaborated by explaining cloud physical processes during monsoon and post monsoon seasons.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/8/C4256/2015/amtd-8-C4256-2015-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 11729, 2015.

C4257