

Interactive
Comment

Interactive comment on “Profiling the PM_{2.5} mass concentration vertical distribution in the boundary layer” by Z. Tao et al.

Anonymous Referee #1

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The article “Profiling the PM_{2.5} mass concentration vertical distribution in the boundary layer” submitted by Z. Tao et al. for its review is a new technique. Previous results show that there is tied relationship between the PM_{2.5} mass concentration and AOD from the view of statistics. The authors want to match the aerosol extinction coefficient and PM_{2.5} and stress out the profile of PM_{2.5} based on a new CCD lidar technique. General comments: In my opinion, the study has a good presentation and has been clearly written. The scientific objective is important, and it is a fair study of a key issue that affects many other scientific works (such as the evaluation of air pollution and forecast). therefore I consider it to be suitable for its publication on Atmospheric Measuring Techniques journal. Specific comments: In the page 12934, line 9, should be “side-scatter lidar with a PM_{2.5} . . .” and line 14, the “characteristic” should

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be characteristics. 2 In the page 12935, line 1, “The PM2.5 poses great health risks...” is better. 3 In the page 12936, line 2, “. . .suitable to detect...” should be “. . .suitable for detecting.” and line 9, the results are. . . 4 In the page 12937, line 13, there are. . . 5 In the page 12940, line 16, “. . .is gotten. . .” and line 22, “. . .are shown. . .” 6 In the page 12941, line 3, “. . .in previous literature. . ., the Hefei site is situated in the east of China. . .”, line 6, please use “And in Spring, dust aerosol. . .”, line 21, in the word “maximums”, “s” is unwanted, pls correct it through the article. 7 In the page 12942, line 3, “. . .a rich structure.” and line 7, “from 58% to 70%...” 8 In the page 12943, line 9, “At the meanwhile . . .” should be “At the meantime . . .”

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 12933, 2015.

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