

Interactive comment on “Lidar-based remote sensing of atmospheric boundary layer height over land and ocean” by T. Luo et al.

T. Luo et al.

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General Reply: The authors thank the referee for his time in helping to improve this manuscript. We greatly acknowledge your comments and suggestions. We revised the paper accordingly. The followings are replies to each comment.

Comments: (1) Throughout the paper you need to add in some transition words (i.e. “the”) in front of acronyms (ABL, BLH, MLH) and other areas. There are instances where you already use “the MLH,” so be consistent. Authors need to go line by line to find these instances. Reply: Changed.

(2) Be careful with using the word “also” in formal writing. There are several times where it is used to begin a sentence and within a sentence. On Page 8313 line 27 you
C3477

start out a sentence with “And also.” Please look at all cases throughout the paper and rephrase the sentences to avoid overusing “also.” Reply: Changed.

(3) Check the alphabetical order of your references – one is out of order. Reply: Changed.

(4) Page 8312, line 16. Change “or” to “and.” Reply: Changed.

(5) Page 8313, line 27. Rely, not relay. Reply: Changed.

(6) Page 8314, line 1. Remove the first use of “limited”, but leave the second use of it. Reply: Changed.

(7) Page 8316, line 6. Spell out CALIOP. Reply: Changed to CALIPSO.

(8) Page 8318, line 10. Do not use the short form “we’d” in a paper. I can tell you are using it for “we would”, but it is also short form for “we had” and “we should.” Reply: Changed to “we should”.

(9) Page 8321, line 8. Below, not bellow. Reply: Changed.

(10) Page 8321, line 11. Why were those lidar ratios chosen? If you found them in a CALIPSO related paper, reference it. Reply: Reference was added.

(11) Page 8323, line 22. Sentence starting “And other. . .” Don’t begin sentence with And, start it with “Other factors” and remove “only.” Reply: Changed.

(12) Page 8323, line 26. Cloud-topped, not cloud-toped. Reply: Changed.

(13) Page 8324, line 12. Should be Figure 8d, not 9d. Reply: Changed.

(14) Page 8324, line 20. Should be “MBL, BLH, and MLH” Reply: Changed to “marine BLH and MLH”.

(15) Page 8325, lines 5-9. Long run-on sentence and the use of “etc.” Please address and remove “etc.” as it is not needed, “non-local sources” is sufficient. Reply: Removed “etc.”.

(16) Page 8325, line 22. Was, not were. Page 8325, line 23. Were, not was. Reply:
Corrected.

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C3479