

# ***Interactive comment on “Validation of the Suomi NPP Ozone Mapping and Profiler Suite total column ozone using Brewer and Dobson spectrophotometers” by K. Bai et al.***

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Author Comments to Referee #2:

1. We really appreciate your professional review and the algorithm section in this article has been revised accordingly after discussions with the OMPS data provider.
2. Thanks for the advice and a native speaker has revised the language usage throughout this paper.
3. We take your advice and correct the sentence.

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4. Thanks for the advice and these sentences have been revised.
5. Thanks for the advice and we have corrected our misunderstanding description.
6. The algorithm section has been greatly revised.
7. Thanks for the advice and we have corrected it accordingly.
8. Thanks for the advice and this section has been revised in the article.
9. The mistakes have been corrected and some sentences have been added to this part to demonstrate the ground stations distribution.
10. We take your advice and only the TC ozone under Direct Sun (DS) is used in the revised paper.
11. Thanks for the advice and this sentence has been corrected.
12. We have revised this statement.
13. Thanks for the advice.
14. We have taken your advice and the Figure has been plotted as you wish.
15. Thanks for your advice. In the revised paper, we take your advice and only the DS mode ozone is applied to the comparisons and no such differences dependence is found.
16. Thanks for the remind and the VZA in this work is the satellite instrument viewing zenith angle.
17. Thanks for the advice and in the revised paper, only Direct Sun (DS) ozone measurements were applied to comparisons.
18. Thanks for the advice and we have revised this part and the variation of differences as a function of ground ozone also has been analyzed.

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Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/6/C1985/2013/amtd-6-C1985-2013-supplement.pdf>

Interactive comment on *Atmos. Meas. Tech. Discuss.*, 6, 4577, 2013.

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