

Interactive comment on “Operational considerations to improve total ozone measurements with a Microtops II ozone monitor” by J. L. Gómez-Amo et al.

Anonymous Referee #2

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The paper entitled "Operational considerations to improve total ozone measurements with a Microtops II ozone monitor" by Gomez-Amo et al. is a nice summary of calibration and operational issues encountered by a Microtops user. The recommendations put forth by the authors to limit observations by a filtering criteria on the standard deviations is useful information as are the suggestions of where to limit the measurements at large airmasses. However, the discussion of the changing calibration coefficients is lacking a significant point which would make this paper much stronger-

This reviewer would like to see a plot of the entire time series of the difference between

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the MicroTOPS and the Brewers for 3 cases: 1) No change to the TOPS calibration coefficients (use factory coefs throughout the entire time period) 2) A plot when the change in calibration coefficients was applied in a "stepwise" manner 3) A plot when the change in calibration coefficients was applied with the linear interpolation as described at the end of section 3.2 These plots would show the reader that the TOPS instruments degrade in a linear fashion (or, possibly, in a step-like way if dropped or abused during transport) which is important when applying an interpolation to correct the calibration coefficients.

Specific/Technical Comments: Please change "ozone content" to "column ozone" throughout the entire paper.

(line numbers refer to pre-formatted version of the paper) Line 21: Change "the Brewer" to "a series of Brewers" or "several Brewers" Line 39: add "it" after the comma Line 79: remove "ozone determination" Line 115: removed "sited" Line 117: change "is" to "has been" Line 160: Where is Veleta?? Line 177-8: change to "carried out several years apart" Line 200: remove "evolution of" Line 225: add MKIII Line 326: add Dobson and reference Line 352: remove "during the 10 year period can be influenced by the' and add "were taken in"

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 7529, 2011.

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