Atmos. Meas. Tech. Discuss., 7, C296–C297, 2014
www.atmos-meas-tech-discuss.net/7/C296/2014/


Atmospheric Measurement Techniques Discussions



# *Interactive comment on* "A newly identified calculation discrepancy of the Sunset semi-continuous carbon analyzer" *by* G. Zheng et al.

**Anonymous Referee #1**

Received and published: 28 March 2014

1) Scientific Significance

Does the manuscript represent a substantial contribution to scientific progress within the scope of this journal (substantial new concepts, ideas, methods, or data)?

The authors discovered an error in an older version of the calculation program, which had been designed for the NIOSH method at the time, not meant for the IMPROVE method. Rather than do such an extensive study, it would have been better to simply contact the manufacturer to either alert them, or obtain a current corrected version. In fact, toward the end it appears they did this, yet only presented the results with no



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Discussion Paper

comments.

2) Scientific Quality

Are the scientific approaches and applied methods valid? Are the results discussed in an appropriate and balanced way (consideration of related work, including appropriate references)?

Good

3) Presentation Quality

Are the scientific results and conclusions presented in a clear, concise, and well structured way (number and quality of figures/tables, appropriate use of English language)?

Good

For final publication, the manuscript should be rejected - due to the fact that few users would still have such an older version, it seems of little interested even to the users of such an instrument, and therefore certainly not of general interest.

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Interactive comment on Atmos. Meas. Tech. Discuss., 7, 377, 2014.