

Interactive comment on “In search of traceability: two decades of calibrated Brewer UV measurements in Sodankylä and Jokioinen” by J. S. Mäkelä et al.

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In search of traceability: two decades of calibrated Brewer UV measurements in Sodankylä and Jokioinen, Mäkelä¹, et al.

This is a well-written paper that will be of interest to the UV and ozone community. It clearly describes a detailed and professional approach to maintaining the calibration of Brewer spectrophotometers. As noted by the authors there is insufficient literature extant to guide the use of the instruments in making long-term UV spectral measurements. This paper is a very useful addition to that literature.

It is recommended that the paper be published with minor revisions as indicated.

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Page 2, Line 14 ‘...difficult calibration tasks...’ Singular

Page 3, Line 21 ‘...was moved...’

Page 8, Line 24 Suggest: ‘...exactly how the averaging of the valid lamps should be done...’

Page 8, Line 25 ‘Furthermore, ...’

Page 9 Not a comment on the paper: I found that the radiance of the lamp could be quite well modeled as a black body curve except for a local anomaly near 300 nm due to a tungsten absorption feature. This might provide a smoother way to interpolate radiances.

Page 9, Line 10. This referee feels that scientific literature should be written in the third person unless it is impossible to do so.

Page 9, Line 25 ‘Yet, it is suggested that...’

Page 10, Line 8 ‘...it is suggested that...’

Page 18. F6. Include the instrument number and type in the caption.

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