

Interactive comment on “Trends of solar ultraviolet irradiance at Barrow, Alaska, and the effect of measurement uncertainties on trend detection” by G. Bernhard

Anonymous Referee #2

Received and published: 17 October 2011

General comments: The manuscript describes a trend analysis of solar irradiance at Barrow, Alaska. The analysis is based on an excellent 20 years data set of spectral measurements. The scientific methods are valid and clearly outlined. The main objective of the manuscript is to quantify the effects of measurement uncertainties and data gaps on the ability to detect statistically significant trends in UV radiation and this objective was reached.

Specific comment: I strongly suggest a figure combining figure 2 (or 4), October, with figure 6, and discuss the year-by-year data.

Technical corrections: Page 9, line 22: replace “form” by “from”. Page 16, line 19, and

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page 17, line 6: replace “method 2” by “method 3”?

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 26617, 2011.

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