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Atmospheric Chemistry and Physics Discussions

Interactive comment on "On the scaling of the solar incident flux" *by* C. A. Varotsos et al.

Anonymous Referee #1

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The paper examines whether the scaling dynamics is apparent in the spectral solar incident flux (including both ultraviolet and visible spectrum). The authors apply the detrending fluctuation analysis, the Haar fluctuation analysis and the maximum entropy method and find that the spectral solar incident flux exhibits 1/f-type scaling. Furthermore by eliminating the fitting of the well-known Planck's law they show that this scaling dynamics concerns the spectral solar incident flux fluctuations. The latter is of crucial importance for climate studies. The topic of this study is certainly within the scope of ACP journal. In my opinion, this is an interesting study and presents useful results and conclusions. The discussion is also clear and well structured. The authors have taken into account all the suggestions, comments, etc made in my previous review report. Therefore, my recommendation is to publish this paper as is.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 10971, 2015.