

Interactive comment on “Seasonal distribution of aerosol properties over Europe and their impact on UV irradiance” by N. Y. Chubarova

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The paper "Seasonal distribution of aerosol properties over Europe ..." by N. Ye. Chubarova presents monthly means of aerosol optical depth and of other quantities of aerosols with good spatial resolution. These data are of high interest and worth to be published.

The method is described in detail, but nevertheless the results, the aerosol properties, are the main content of the paper. Therefore I ask whether AMT is the right journal for publication. I think that a publication in ACP, which is edited by the same publisher, would be more adequate. However this should be decided by the author and the editor. In any case, the manuscript could be published with minor improvements.

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page 2, line 22:According to (Remer et al. 2008), the... change toAccording to Remer et al. (2008), the... p.3, Eq.1: Eq (1) should be omitted, because AOD and SSA also are assumed to be known, which is ok for the probable readers of the paper. p.3, Eq.2 : ... $\ln\lambda$ change to ... $\ln(\lambda)$... p.4 , l.15 : add α after ... Angstrom parameter... p.6, l.1 and Fig. 7: use either "temperate" or "moderate" in both cases. p.6, l.16: Don't use a foot note. Put the information to the text body p.7, l.2 : ... \ln (Smirnov et al., 2002) it... change to In Smirnov et al. (2002) it... p.9, l. 5: .. square ... change to ...area... p.11, l.20 and Tab.1 : Her the time period 2000 -2008 that is valid for the mean values should be mentioned again. P.15, l. 26 and Fig. 10 : ... absolute attenuation in monthly UVI... change to ... absolute reduction in monthly UVI...because it is the difference p.16, l.14: Don't use a foot note. Put the information to the text body P. 16 l.11. Say a few words to the topic that during the past decades the aerosol properties have been changed. The shown results are valid as mean values after 2008, but could (will) be different in the years before. General : The Greek symbols should be used in a larger size

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