To Anonymous Referee #1

We appreciate your review of the manuscript we submitted to the ACP journal. Your two simple suggestions are very important to the readers. All suggestion is included in new manuscript. Detailed replies to your suggestions are included below. Our sincerest thanks once again.

With best regards,

Itaru Sano

General Comment

The paper "Regional and local variations in atmospheric aerosols using ground-based sun photometry during DRAGON in 2012" by I. Sano et al. is aimed at studies atmospheric aerosol load using solar light extinction measurements at several locations during DRAGON in 2012. I suggest the publication of this paper after minor changes.

#1
I would advice to change the title explaining the meaning of the abbreviation.
Author's reply
According to reviewer's suggestion, author's inserted the meaning of DRAGON in the title. New title is "Regional and local variations in atmospheric aerosols using ground-based sun photometry during distributed regional aerosol gridded observation networks (DRAGON) in 2012"

#2
Please, discuss the accuracy of measurements in terms of AOT. This will also help to understand the significance of the trends found.
Author's reply
Authors added the following sentences (lines 20-26 in page 2). The final accuracy of AOT measurements is less than 0.01 at visible and near infrared wavelengths, which is achieved by the AERONET standard procedure. The procedure includes many stages, e.g., pre- and post-field calibrations, cloud screening, and interference filter management. Although automatic cloud screening is performed with short and long temporal variations in AOT measurements (Smirnov et al., 2000), all measurements are reprocessed with post-field calibration constants and inspected by AERONET team members, forming a Level 2.0 product.