

## ***Interactive comment on “Long-term visibility variation in Athens (1931–2013): A proxy for local and regional atmospheric aerosol loads” by Dimitra Founda et al.***

### **Anonymous Referee #2**

Received and published: 28 April 2016

General: The study uses the long-time visibility records along with meteorological variables, emissions and satellite optical depth retrievals over Athens and explores the relationships between these variables over three distinctive sub-periods. The manuscript is clear, well-written with a very good introduction. However, I find the conclusions too long and can be substantially reduced by only pointing to the major outcomes of the study.

#### **Minor comments**

Line 237: How far from Athens? Characteristics of the site (emission sources etc)?

Lines 248-254: Better to present the trends in uniform units, per year in this case.

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The resolutions of the excel-based figures should be improved.

The relation (zooming) between the two plots in Figure 1 is misleading.

Figure 7: Precipitation Height is misleading, drop the “Height”

Figure 13: Why the different bins have different widths? Does it stand for something? For instance why 0-0.5 km bin is largest? Please explain.

Figure 15: Can you also add the data for Athens here?

#### **Technical corrections**

Line 33: Remove the comma before (WMO, 1992).

Line 38: Replace “at” with “over”

Line 55: .... pollutant emissions....

Line 231: Correct as (Kanakidou et al., 2011)

Line 260 and 272: Correct “to 1 km” to “than 1 km”

Lines 261, 266 and 272: Correct “to 500 m” to “than 500 m”

Line 290: ...results IN improvement....

Line 345: Change “as regards” to “regarding”

Line 408: .... ARE due to local factors...

Line 423: ....in accordance WITH...

Line 475: INDEPENDENT of the location....

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Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2015-1025, 2016.

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