

Comments to the Author:

Please italicize m/z throughout the manuscript

*The change has been made.*

Line 38 cites 10-70% and line 54 cites 30-90% as water-insoluble fraction of OM, and the same references are listed in both case. Please use the same numbers in both case.

*The range in line 38 is referring to the water-soluble fraction and represents the values directly in the literature. The range in line 54 refers to water-insoluble OM and was determined by difference.*

Line 102: Soluble particles were isolated -> Insoluble particles were filtered out

*The change has been made.*

Line 160: one of the two < signs should be changed to > on this line

*Thank you for catching this mistake. The second sign was changed to >.*

Line 176: efficacious -> effective

*The change has been made.*

Line 372: replace “NO3” with “-ONO2”

*The change has been made.*

Line 384: missing period in e.g, (should be e.g.,)

*The correction has been made.*

Line 398: “PSOM is able to dissolve” -> “pyridine is able to dissolve”

*The change has been made.*

Line 398: “that WSOM does not” -> “that water does not”

*The change has been made.*

Line 450: “quantitatively small” is unclear; I would rephrase this sentence

*Quantitatively small is referring to the amount of carbon that is aliphatic, and the sentence has been changed to read “... aliphatic components make up a small fraction of aerosol OC...”*

References: capitalization of titles is not uniform

References: some of the author initials are missing. Examples from the top of the reference list:

Alfarra, M. should be Alfarra, M.R.

Andreae, M. should be Andreae, M.O.

Altieri, K. should be Altieri, K.E.

Bateman, A. should be Bateman, A.P.

And so on. Please check all references carefully, especially the ones where each other has only one initial (which is rather unlikely to happen).

*The references have been updated, so that the author initials match what is in the cited manuscript and are consistent throughout the reference section. All of the titles have been changed so that only the first word and proper nouns are capitalized. Additional errors in the reference section, such as missing authors, were found and corrected.*

Line 562: “TSigaridis” should be changed to “Tsigaridis”

*The correction has been made.*

Figure 1: The numbers in the table are perhaps too small. I would increase the text size so that they are readable in the print version of the paper.

*The text size has been increased.*

Figure 2: It would be good to make figure label style more uniform between figures. The text sizes are too small for some of the text entries such as the legend and X-axis tick labels.

*The text size has been increased for each of the labels.*

Figure 3: It is hard to see black number on blue in the pie-charts (at least in the printed version). Make the numbers bold?

*The numbers have been bolded. Additionally, an old version of Fig. 3b had been uploaded by mistake. It has been changed back to the correct version and the version that was in the ACPD article.*