

Editor's technical comments on the revised version of ms. acp-2017-854 entitled "Assessment of wood burning versus fossil fuel contribution to wintertime black carbon and carbon monoxide concentrations in Athens, Greece", by A.-C. Kalogridis et al.

François Dulac, 02 April 2018

Thank you for your revision of the manuscript. I would like you to make a few technical corrections as listed hereafter (proposed changes in your text are underlined). I will then send back your revised manuscript to the two referees.

-page 1: I had already mentioned about your initial version that the first references in your introduction are missing in your bibliography; this includes: Chaloulakou et al., 2005; Eleftheriadis et al., 1998, 2014; Kalabokas et al., 1999; Theodosi et al., 2011 (lines 30-31), Cohen et al., 2004 (line 32) and Ostro et al., 2015 (line 36).

-p.2, line 9: "observations of NO₂ and SO₂ over Athens".

-p.2, l.13: "use of wood burning observed"; "emissions from incomplete".

-p.2, l.14, p.3, l.29: insert a space between "al." and the year within parentheses.

-p.2, l.15: "increase in".

-p.2, l.18: I do not understand the use of "Respectively, " here: remove it?

-p.2, l.14; p.3, l.27; p.4, lines 6 and 7; p.5, l.11; p.9, l.14: remove the comma before the year within parentheses.

-p.2, l.21: you should cite Diapouli et al., 2017a before 2017b; interchange references and change citations accordingly.

-p.2, l.27: "between 10 and 2000".

-p.3, l.18: the reference Wang et al. (2015) is missing in your bibliography.

-p.3, l.26: insert a space before "The".

-p.3 l.30: I feel necessary here to add information about the sensitivity test on the value of f that you mention in your reply to referees.

-p.4, lines 1-3: you should shift the significance of "MAC" at its first occurrence rather than at the second one.

-p.4, l.3: a space is missing before the opening parenthesis.

-p.4, l.18: remove the comma after "1-min".

-p.4, l.20, and p.9, l.18: insert a comma before " respectively".

- p.4, l.21: remove the dot at the end of the section title.
- p.4, l.28: insert “ (λ)” after “wavelength”.
- p.4, l.29: move “ b_{abs} ”: “of light by aerosols (b_{abs}) is”.
- p.4, l.39: “the 370-nm aethalometer channel”.
- p.5, l.13: use the exponent style in “ ^{14}C ”.
- p.5, lines 29-30: 3 new references are missing in the bibliography.
- p.6, l.17: move the comma before rather than after “ NO_x ”.
- p.6, l.26: “are the relevant”.
- p.6, l.29: “applied to”.
- p.7, l.17: “back home” without an hyphen.
- p.7, l.29: “and an increase”.
- p.8, l.1: “suppression” does not seem appropriate; I suggest “the decrease in”.
- p.8, l.2: insert “:” after “scales”.
- p.9, l.19: I suggest “depending on the regional heating practices“..
- p.9, l.30: “the lowest”.
- p.9, l.38: remove the article after “varying”.
- p.10, lines 2 and 3: “by a factor of”.
- p.10, l.6: “that the CO- NO_x linear model”.
- p.10, l.22: “The highest”.
- p.10, Acknowledgements: “loan of an aethalometer. We also acknowledge”.
- Fig. 3: remove the letters added in parentheses after city labels in the plot (or use them to list the references in the legend); insert a space after “Barcelona”.
- Fig. 4: add “(left)”, “(right)”, “(blue)”, and “(red)” after “BC”, “CO”, “NOA”, and “DEM”; specify what vertical bars do represent in this plot.
- Fig. 10: explain in the legend what are the box limits, vertical and horizontal bars, and coloured dots.
- Fig. 11: clarify in the figure legend what are the 3 plotted lines.
- I suggest that Fig.2 in your reply is added as supplementary information.
