



# ***Interactive comment on* “Trends, composition, and sources of carbonaceous aerosol in the last 18 years at the Birkenes Observatory, Northern Europe” by Karl Espen Yttri et al.**

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The authors own Action items:

We have made the following changes and additions to the paper separate from the comments made by Referee #1 and #2 and the short comment made by Martin Schulz:

We realized that the title of our revised manuscript could be improved, making the following change: “Trends, composition, and sources of carbonaceous aerosol at the Birkenes Observatory, Northern Europe, 2001-2018. Hence, it would be possible for a future reader to know the time span the paper covers by just reading the title. For sure,

the phrase “last 18 years”, used in the original title is imprecise. (Line 1-2) and (Line 1-2 in Suppl.)

“TRA/IND” was stated the other way around (IND/TRA) three places in the manuscript, we have changed this so that all reads “TRA/IND”.

We have switched from “Positive Matrix Factorisation” to “Positive Matrix Factorization” due to the US origin of this analytical approach and for consistency throughout the manuscript.

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2020-1165>, 2020.

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