

Interactive comment on “Global analysis of continental boundary layer new particle formation based on long-term measurements” by Tuomo Nieminen et al.

Anonymous Referee #2

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General comments

This manuscript made a well understanding of atmospheric NPF and its regional importance based on the measurements at 36 continental sites around the world. It gathered a valuable dataset of aerosol number concentration size distribution and would be interesting to the readers of ACP. I recommend this manuscript for publication in ACP with minor revisions.

Table 1: Please add more information of each site for the data representativeness evaluation. For instance, the ratio of valid data determination of each site's measurements in this research.

C1

L484-485: This sentence is ambiguous. “NPF was most common (median of site-median NPF frequencies . . .and least common (less than 10%) during winter.” According to the seasonal behavior of regional NPF contents in the manuscript, it would be better to replace “median of site-median NPF frequencies” with “site-median of seasonal-median NPF frequencies”.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-304>, 2018.

C2