

Journal: Atmospheric Chemistry and Physics (ACP)
Title: A Robust Calibration Approach for PM10
Prediction from MODIS Aerosol Optical Depth
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Journal SI)

1. Does the paper address relevant scientific questions within the scope of ACP? **Yes . The paper deals with the important topic of calibration, without which results are unreliable.**
2. Does the paper present novel concepts, ideas, tools, or data? **The paper presents a very interesting robust calibration approach. A very sound data set has been used to develop the method.**
3. Are substantial conclusions reached? **The conclusions reached are valid based on the presented data.**
4. Are the scientific methods and assumptions valid and clearly outlined? **Yes.**
5. Are the results sufficient to support the interpretations and conclusions? **Yes**
6. Is the description of experiments and calculations sufficiently complete and precise to allow their reproduction by fellow scientists (traceability of results)? **The methodology presented is repeatable by other researchers.**
7. Do the authors give proper credit to related work and clearly indicate their own new/original contribution? **Yes.**
8. Does the title clearly reflect the contents of the paper? **The title is clear, reflects the content of the paper, and very suitable/relevant for this Special Issue on Observations and modeling of aerosol and cloud properties for climate studies**

9. Does the abstract provide a concise and complete summary?
The Abstract is clear and concise, and reflects the content of the paper
10. Is the overall presentation well structured and clear?
Yes.
11. Is the language fluent and precise? **The language is acceptable. Could be further improved by a native English speaker, but it is understandable.**
12. Are mathematical formulae, symbols, abbreviations, and units correctly defined and used? **Yes.**
13. Should any parts of the paper (text, formulae, figures, tables) be clarified, reduced, combined, or eliminated? **The paper is suitable as it is.**
14. Are the number and quality of references appropriate?
The list of references is very complete. The authors have cited all relevant publications on this topic, and show they are familiar with the research done in this field
15. Is the amount and quality of supplementary material appropriate? **Not applicable**