

## ***Interactive comment on “Identification of Atmospheric Transport and Dispersion of Asian Dust Storms” by Raegyung Ha et al.***

### **Anonymous Referee #2**

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This paper presents a short work on the identification of Asian dust storms outbreaks (ADS) affecting Korea. The period from January 2003 to August 2015 is analysed, and a total of 743 ADS affecting Korea are identified by means of Lagrangian trajectories. The HYSPLIT model is used to compute backtrajectories reaching the area of study at 1000, 1500 and 2000 m. This information is combined with observations of PM10 dust concentrations at 4 representative sites located in Korea. The main problem with the present version of the manuscript is that right now is a technical brief report. The analysis conducted are not scientifically sounding. There are some misunderstandings in the manuscript: the authors confuse the definition of concentration with density, presenting measurements of PM10 dust air concentration as dust densities. The lack of a Conclusion sections is a clear indication about the limitation of the analysis presented in this work. Overall, the present version of the manuscript is not suitable to be

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